Annual Report-2019-2020

ABOUT INSTITUTE OF SCIENCE & TECHNOLOGY:

Institute of Science & Technology is one of the autonomous academic units of Jawaharlal Nehru Technological University Hyderabad and located within the JNTUH campus. The Institute had been established in 1989 with the vision of being recognized as a good teaching as well as research institute and imparting technical education with strong domain of knowledge, contemporary skills and positive attitude towards holistic growth of young minds.

Institute of Science & Technology offers post graduate and doctoral programmes in various fields of Science and Technology. The ten centers of IST, Centre for Bio-Technology, Centre for Chemical Sciences and Technology, Centre for Environment, Centre for Nano Sciences and Technology, Centre for Pharmaceutical Sciences, Centre for Spatial Information Technology, Centre for Water Resources, Centre for Earth, Atmosphere, Weather Modification Technologies, Centre for Alternative Energy Options, Centre for Innovative Research, strive with the mission of providing quality education, student centered teaching-learning processes and state of the art infrastructure for professional aspirants. Highly qualified and experienced faculty, excellent technical staff, enthusiastic student community and effective administration has contributed to the academic and scientific excellence of the Institute.

IST has attained autonomous status and recognized as a well performing institution and has been sanctioned a grant of Rs. 12 crores from the Technical Education Quality Improvement Programme of the World Bank, TEQIP-I and 12.5 crores from TEQIP-II for overall development which includes upgradation of infrastructural facilities, establishment of newer laboratories, faculty development, training and research activities in thrust areas. The institute is also shortlisted as mentor Institute for TEQIP III project

Vision and mission

Vision

Imparting technical education that encourages Independent thinking, develops strong domain of knowledge, hones contemporary skills and Positive attitude towards holistic growth of young minds

Mission

- ▶ Student-centered Teaching-learning processes and a stimulating R&D environment.
- ▶ Providing Quality Education and ethics to students.
- ▶ State-of-art Infrastructure for professional aspirants.

ABOUT JNTUH(information regarding affliating university)

Jawaharlal Nehru Technological University, Hyderabad was established on 2 October 1972 by the Legislature of the State of Andhra Pradesh as the first–ever Technological University in the country. It has been in the forefront during the last forty four years in providing quality technical education of relevance in the State of Andhra Pradesh. After 37 years of relentless service to the society at large, JNT University was restructured into four different Universities namely JNT University Hyderabad, JNT University Anantapur, JNT University Kakinada and JNFAU by the Government of Andhra Pradesh vide Government

Order No. 13, dated 18 August 2008 and the Act of State Legislature No. 30, dated September 2008. From then, this university was re-designated as Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad. The jurisdiction of the University is entire Telangana State.

The University is situated at Kukatpally, Hyderabad in 89 acre campus. JNTUH has four constituent and four academic units/schools in addition to other administrative functional units. Out of four three constituent engineering colleges are situated in rural areas of Telangana. The constituent caunits/schools are as follows:

JNTUH College of Engineering Hyderabad (Autonomous), Kukatpally, Hyderabad (1965)

JNTUH College of Engineering Jagityal, Karimnagar Dist. (2007)

JNTUH College of Engineering Manthani, Karimnagar Dist. (2010)

JNTUH College of Engineering Sultanpur, Medak Dist. (2012)

Institute of Science & Technology, Kukatpally, Hyderabad (1989)

School of Information Technology, Kukatpally, Hyderabad (1989)

School of Management Studies, Kukatpally, Hyderabad (1989)

School of Continuing and Distance Education, Kukatpally, Hyderabad (1983)

The Constituent Engineering Colleges and Units/Schools of JNTUH are offering 21 undergrade B.Tech., 47 Postgraduate programmes in M.Tech., M. Pharmacy, M.Sc., M.B.A. and M.C.A., Integrated Masters Programme in 10 disciplines with M.Tech./M.B.A./M.S. In addition to this, M.S., M.Phil. and various disciplines of Engineering, Technology, Science, Management and Humanities & Social Scie University has Memoranda of Understanding (MoU) with many National and International Organiand Institutions.

The University offers B.Tech. Degree programme in 24 disciplines, B.Pharmacy, M.Tech. Degree disciplines, M. Pharmacy in 11 disciplines, M.C.A., M.B.A, M.A.M, M.T.M, Pharma.D. and Pharma.D. affiliated colleges. In addition to the Constituent Units of the University, JNTUH has 291 Affiliated C 199 Engineering Colleges, 72 Pharmacy Colleges, 20 stand-alone MCA/MBA colleges spread over T over 3.50 lakhs of students on rolls. Thus, JNTUH has become a major University providing quality in the State.

The University is supporting in conduct of the Entrance Tests TS EAMCET-2016 & TS ECET-2016 Telangana State Council for Higher Education and recruitment tests for various government TSGENCO, Police Recruitment Board etc.

Governing Body:

S. No	Name of the Member of BoG	Designation	Position in the BoG
1	Prof. P. Jaya Prakash Rao	Former Chairman, State Council of Higher Education, Hyderabad	Chairperson
2	Dr. S. Chandrasekhar	Director, CSIR-IICT, Hyderabad	Member
3	Dr. Siva Kumaran	Director, Aurobindo Pharma Ltd	Member
4	Dr. Rakeshwar Bandichhor	Director, Dr. Reddy's Laboratories Ltd	Member
5	Sri. B. Gopala Krishna	Dy Director(Retd),NRSC, Hyd	Member
6	Dr. A. D. Rao	Regional Director (Retd),CGWB, Ministry of Water Resources	Member
7	Dr. K. Yella Reddy	Dean, Faculty of Agriculture Engg., & Technology, ANGRAU, A.F.	Member
8	Dr. M. Anji Reddy	Professor of Environmental Science and Technology., Centre for Environment, IST	Member
9	Dr. K.Ramamohan Reddy	Professor of Water Resources, IST, OSD to VC and Director I/c Academic Audit Cell, JNTUH $$	Member
10	Dr. Yaduvir Singh Chauhan	Principal, Raja Balwant Singh College Agra, U.P	Member
11	Dr.M. Madhavi Latha	Director, Academic & Planning, JNTUH	Member
12	Dr.V.Soamidas	Dean, Dayalbagh Educational Institution, Agra	Member
13	Dr. B. L. Rama	Director, AICTE, New Delhi	Member
14	Sri. A.Pullaiah	RJD, State Technical Board & SBTE – Nominee	Member
15	Dr.Bh. Nagabhushan Rao	Mentor, IST-TEQIP-III	Special Invitee
16	Sri B.Sreenivas	Nodal Officer, TEQIP-SPIU, Department of Technical Education, Hyderabad	Special Invitee
17	Dr.B.Venkateswara Rao	Professor of Water Resources and Immediate Former Director, IST	Special Invitee
18	Dr.A.Jaya Shree	Professor of Chemistry, IST	Special Invitee
19	Dr.T.Vijaya Lakshmi	Associate Professor of Environmental Science & Technology & Coordinator TEQIP-III	Special invitee
20	Dr. G. Krishna Mohan	Professor of Pharmacy, and Director, IST, JNTUH	Member Secretary

Academic council:

The Head of the Institution is the Director. In academic matters, the Heads of the Departments and other faculty members assist the Director.. Technical personnel support laboratories in the different departments. Each department has an office besides the central office of the Director. In the day-to-day office administration, the Deputy Registrar / Asst. Registrar help the Director.

The Institute has attained Autonomous status from JNTUH as well as UGC New Delhi . Important academic decisions are taken by the following committees:

Academic Council

It shall be wholly responsible for framing Academic policies, approving regulations, syllabus etc.

S.No	Member	Designation
1.	The Principal of the College	Chairperson
2.	All the Heads of Department in the College	Members
3.	Four teachers of the college representing different levels of teaching staff by rotation on the basis of seniority of service in the college to be nominated by the Principal	Members
4.	Not less than four experts from outside the college representing such areas as industry, R&D Labs, Technical Education to be nominated by the governing body	Members
5.	Three Nominees of the University	Members
6.	A Faculty member nominated by the principal	Member Secretary

Members of Academic Council

S. No	Name of the Member of Academic Council	Designation of the Members	Position in Academic Council
1	Dr.G.Krishna Mohan	Professor of Pharmacy and Director, IST,JNTUH, Kukatpally, Hyd – 85	Chairman
2	Dr.M.Anji Reddy	Professor, CEN, IST, JNTUH, Kukatpally, Hyd – 85.	Member
3	Dr.A.Jaya Shree	Professor and Head CCST, IST, JNTUH Kukatpally, Hyd – 85	Member
4	Dr.M.V.S.S.Giridhar	Professor and Head CWR, IST, JNTUH, Kukatpally, Hyd – 85	Member
5	Dr.V.Himabindu	Professor and Head CEN, IST, JNTUH Kukatpally, Hyd – 85	Member
6	Dr.K.Venkateswara Rao	Professor and Head CNST, IST, JNTUH Kukatpally, Hyd – 85	Member
7	Dr.C.Sarala	Professor,CWR and In-Charge Head CSIT,IST,JNTUH, Kukatpally, Hyd - 85	Member
8	Dr.A.Uma	Associate Professor and Head CBT, IST,JNTUH, Kukatpally, Hyd-85	Member
9	Sri.J.Venkatesh	Associate Professor CSIT,IST, JNTUH, Kukatpally, Hyd – 85	Member
10.	Dr.S.Shobha Rani	Associate Professor and Head, CPS, IST, JNTUH, Kukatpally, Hyd – 85	Member
11.	Dr.T.Vijaya Lakshmi	Associate Professor, CEN,IST,JNTUH, Kukatpally, Hyd-85	Member
12.	Dr. CH. Shilpa Chakra	Assistant Professor and Academics Coordinator, IST, JNTUH Kukatpally, Hyd – 85	Member
13.	Dr.B.Sreedhar	Senior Principal Scientist, IICT, Taranaka, Hyderabad.	Member
14.	Prof.M.Sarangapani	Principal, USPSC, Kakatiya University, Warangal, T.S	Member
15.	Dr.V.RaghuVenkata Raman	Director, ADRIN, Hyderabad.	Member
16.	Dr. Nagendra Hegde	Chief Scientist, NIAB, Hyderabad.	Member
17.	Dr.P.N.Rao	Sr. Scientist, Central Ground Water Board, Southern Region, Bandlaguda ,Hyderabad.	Member
18.	Dr.M.Madhavi Latha	Director, Academic and Planning, JNTUH, Kukatpally, Hyd – 85.	Member
19.	Dr.V.Kamakshi Prasad	Director of Evaluation and Professor of CSE , JNTUH, Kukatpally, Hyderabad – 85.	Member
20.	Dr.B.Venkateswara Rao	Professor of Water Resources, IST, JNTUH Kukatpally, Hyd – 85	Special Invitee
21.	Dr.M.Ajitha	Professor and Officer In-Charge of Examinations, JNTUH, Kukatpally, Hyd – 85.	Special Invitee
22.	Dr.K.Ramamohan Reddy	Professor, CWR, IST,OSD to VC and Director I/c Academic Audit Cell, JNTUH, Kukatpally, Hyd – 85.	Member Secretary

Functions of the Academic Council:

Sanctions and approvals of the proposals with or without modifications of the Boards of Studies with regard to Course of Study, Academic Regulations, Curriculum, Syllabi and Evaluation arrangements.

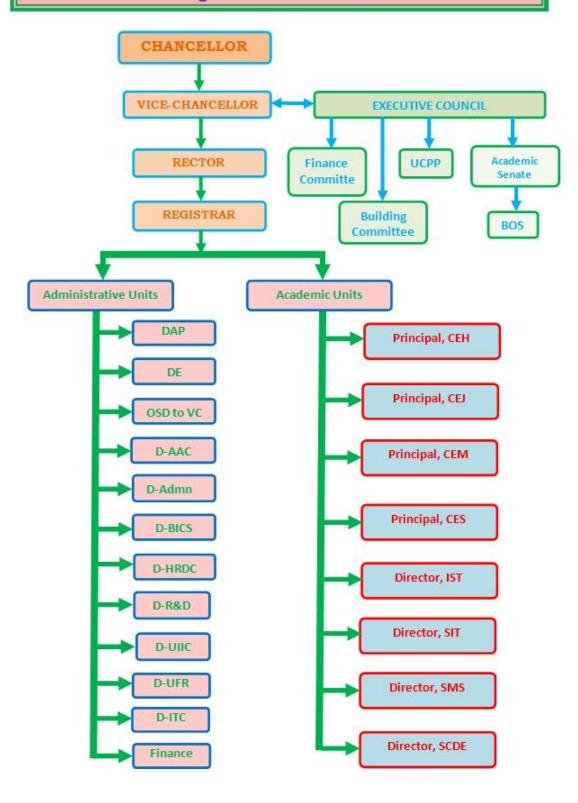
Frame regulations for Conduct of Exams, for upgrading quality of teaching and evaluation. Make regulations for Sports and Extra-curricular activities.

Approve candidates for conferment of Degrees / Diplomas by the University.

Recommend to the University for Institution of Scholarships / Gold Medals and to frame regulations for the award of the same.

JNTUH ORGANISATION STRUCTURE:

Jawaharlal Nehru Technological University Hyderabad Organizational Structure





INSTITUTE OF SCIENCE AND TECHNOLOGY (AUTONOMOUS)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Kukatpally, Hyderabad-500 085, T.S., INDIA

Prof.B.Venkateswara Rao DIRECTOR

Lr.No/JNTUH/IST/ Academic Calendar/M.Tech/M.Pharm Regular/2019 Dt.23-08-2019

Sub: IST/JNTU/M.Tech/M.Pharmacy/Regular/ Academic Calendar (2019 batch) - Reg.

The approved Academic Calender for M.Tech/M.Pharmacy Regular – I & II Semesters (2019 batch) during the academic year 2019 - 2020.

M.Tech/M.Pharmacy - I Semesters (2019 batch) Regular:	Date Particulars	No of Weeks
ORIENTATION PROGRAMME	26.08.2019 to 31.08.2019	(1WEEK)
I Unit of Instructions	03.09.2019 to 26.10.2019	(8WEEKS)
I Mid Examinations	28.10.2019 to 02.11.2019	(1WEEK)
II Unit of Instructions	04.11.2019 to 28.12.2019	(8WEEKS)
II Mid Examinations	30.12.2019 to 04.01.2020	(2WEEKS)
Preparation and Practicals	06.01.2020 to 18.01.2020	(2WEEKS)
End Semester examinations	20.01.2020 to 01.02.2020	(2WEEKS)

Commencement of next Semester class work : 03.02.2020

M.Tech/M.Pharmacy -II Semesters (2019 batch) Regular:	Date Particulars	No of Weeks
I Unit of Instructions	03.02.2020 to 28.03.2020	(8WEEKS)
I Mid Examinations	30.03.2020 to 04.04.2020	(1WEEK)
INDUSTRIAL INTERNSHIP	06.04.2020 to 06.06.2020	(9WEEKS)
II Unit of Instructions	08.06.2020 to 01.08.2020	(3WEEKS)
II Mid Examinations	03.08.2020 to 07.08.2020	(1WEEK)
Preparation and Practicals	10.08.2020 to 22.08.2020	(2WEEKS)
End Semester examinations	24.08.2020 to 05.09.2020	(2WEEKS)

Commencement of next Semester class work: 07-09-2020. This is for your information and necessary action.

Copy to: All the Heads of the Centers, IST, JNTUH, Hyd O.I.E Regular & PTPG IST, JNTUH, Hyd J.R & Account Section IST, JNTUH, Hyd Director of Evaluation, JNTUH, Hyd Controller of Examinations, JNTUH, Hyd

Atth

Status of NBA Accreditaion

S.No	Name of the Program	NBA Accreditation
1	M.Tech. Bio-Technology	Accredited
2	M.Tech. Chemical Technology	Not Accredited
3	M.Tech. Environmental Geomatics	Accredited
4	M.Tech. Environmental Management	Accredited
5	M.Tech. Nano-Technology	Not Accredited
6	M.Tech. Spatial Information Technology	Not Accredited
7	M.Tech. Water & Environmental Technology	Accredited

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4" Floor, Bhisham Pitamah Marg, Pragati Vihar, New Delhi-110 003 Tal: +91 11 2436 0620-22, 2436 0654; Telefax: +91 11 4308 4903 Website: www.nbaind.org



File No. 11-68-2010-NBA

Dated: 29-03-2019

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

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

Sir/Madam.

This has reference to your application I.D. No. 2071-14/10/2016 seeking accreditation by National Board of Accreditation in May, 2017 format to PG Engineering programs offered by JNTUH Institute of Sci. & Tech.(IST), Kukatpally, Hyderabad-500085 Telangana.

2. An Expert Team conducted on-site evaluation of the programs from 26th-28th October, 2018 and further visit on 08th March, 2019. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The competent authority in NBA has approved the following accreditation status to the programs as given in the table below:

SI. No	Name of the Program(\$) (PG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Water & Environmental Technology		Accredited		
2.	Biotechnology	May,2017	Accredited	Academic Years 2018-2019 to 2020-2021 i.e.	Accreditation status granted is valid for the period indicated in Col.5 or till the
3.	Environmental Management	Document	Accredited	Up to 30-06-2021	program has the approval of the competent authority, whichever is earlier
4.	Environmental Geomatics	9	*Accredited		

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

- It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.
- 5. The accreditation status awarded to the programs as indicated in the above table does not imply that the accreditation has been granted to JNTUH Institute of Sci. & Tech.(IST), Kukatpally, Hyderabad-500085 Telangana as a whole. As such the Institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is program accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously. Complete name of the program(s) accredited, level of program(s) and the period of validity of accreditation, as well as the Academic Year from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

Aunto

CRITERIONI-CURRICULARASPECTS

1.1 Curriculum Design and Development

1.1.1 Programmes for which syllabus revision was carried out during the CAY

Name of the programme	Programme Code	Date(s) of revision
M.Sc Biotechnology	031G0	03-05-2019
M.Sc Microbiology	031G1	03-05-2019
M.Tech Biotechnology	031D0	03-05-2019
M.Tech (Chemical Technology)	031D92	03.05.2019
M.Sc Organic Chemistry	031G08	03.05.2019
M.Sc Analytical Chemistry	031G22	03.05.2019
M.Tech (Environmental Management)	031D31	02.05.2019 & 03.05.2019
M.Tech (Environmental Geomatics)	031D60	02.05.2019 & 03.05.2019
M.Tech(Nanotechnology)	NT	02.05.2019
M.Tech (Spatial Information Technology)	031D32	06-06-2019
M.Tech(Water and Environmental Technology)	031D59	03.05.2019

1.1.2 Programs/ courses f		ability/ entrepreneurship/ skill deve	
Programmewith Code	Date of Introduction	Course with Code	Date of Introduction
		Bionanotechnology(1BTPE1)	03-05-2019
		Plant biotechnology and molecular	03-05-2019
		pharming (2BT05)	
		Biologics and Vaccine technology (2BTPE3)	03-05-2019
		Animal cell and tissue engineering (2BTPE3)	03-05-2019
		Bioreactor design and analysis(3BTPE5)	03-05-2019
		Modelling and simulation in bioprocess (3BTPE5)	03-05-2019
		Bioprocess instrumentation and control (3BTPE5)	03-05-2019
		Business analytics (3BTOE)	03-05-2019
		Industrial safety (3BTOE)	03-05-2019
		Operations research (3BTOE)	03-05-2019
		Cost management of engineering projects (3BTOE)	03-05-2019
M.Tech (Biotechnology)	03-05-2019	Composite materials (3BTOE) Waste to energy (3BTOE)	03-05-2019
M.Tech (Chemical Technology	06.12.2019	Advances In Chemical Reactor & Technology	30-Aug-19 to
			31-Aug-19
	30-Aug-19 to 31-Aug-19	Skill development	30-Aug-19 to 31-Aug-19
		Simulation Lab(MATLAB/ASPEN PLUS)	03.09.2019
			03.09.2019
		English for Research Paper Writing	03.09.2019
		Disaster Management	03-02-2020
M.Tech (Environmental Management) 31D31	30-Aug-19 to 31-Aug-19	Skill development	30-Aug-19 to 31-Aug-19
M.Tech (Environmental Geomatics) 31D60	30-Aug-19 to 31-Aug-19	Skill development	30-Aug-19 to 31-Aug-19
Nil	Nil	Synthesis/Processing and Properties of nanostructures	03-09-2019
		Materials Characterization Techniques	03-09-2019
		Photonics(quantum confinement of materials)	03-09-2019
		Nano biomedical Applications	03-09-2019
		Synthesis, Fabrication and Characterization Lab	03-09-2019
		Simulation Lab-I(Argus Lab & MAT lab)	03-09-2019
		Research Methodology & IPR	03-09-2019

		English for Research Paper Writing	03-09-2019
		Disaster Management	03-02-2020
		Nano Sensors and Devices	03-02-2020
		Industrial trends and Applications of Nanotechnology	03-02-2020
		Nanotechnology For Energy Systems	03-02-2020
		Lithographic Techniques	03-02-2020
		Nanostructured Material Application Lab	03-02-2020
		Simulation Lab-II	03-02-2020
M.Tech(Spatial Information Technology)	06.06.2019	Spatial Information Technology	06.06.2019
M.Tech(Waterand Environmental Technology)	19.09.2018	Surface Water Hydrology (1WET01)	19.09.2018
		Ground Water Hydrology (1WET02)	
		Advanced Fluid Mechanics (1WETPE01)	
		Air Pollution and Control Technologies (1WETPE02)	
		Research Methodology & Intellectual Property Rights (1A01)	
		English for Research Paper Writing (1A02)	
		Hydrology Lab (1WET03)	
		Environmental Lab (1WET04)	
		Geospatial Applications in Water Resources (2WET05)	
		Water and Wastewater Treatment Technologies (2WET06)	
		Irrigation Management (2WETPE03)	
		Environmental Impact Assessment (2WETPE04)	
		English for Research Paper Writing (2A03)	
		GIS & Image Processing Lab (2WET07)	
		Water Resources Modelling Lab(2WET08)	

1.2 Academic Flexibility					
1.2.1 New programmes/courses introduced during the CAY					
Programme/Course	Date of introduction				
M.Tech (Biotechnology)					
1. Bionanotechnology (1BTPE1)					
2. Plant biotechnology and molecular pharming (2BT05)					
3. Biologics and Vaccine technology (2BTPE3)					
4. Animal cell and tissue engineering (2BTPE3)					
5. Bioreactor design and analysis(3BTPE5)					
6. Modelling and simulation in bioprocess (3BTPE5)	03-05-2019				
7. Bioprocess instrumentation and control (3BTPE5)					
8. Business analytics (3BTOE)					
9. Industrial safety (3BTOE)					
10. Operations research (3BTOE)					
11. Cost management of engineering projects (3BTOE)					
12. Composite materials (3BTOE)					
Waste to energy (3BTOE)					
M.Tech(Chemical Technology)					
1. Mathematical and Statistical Methods in Chemical					
Engineering(1CT01)					
2. Modern concepts in Catalysis and Surface Phenomenon (1CTPE02)					
3. Research Methodology & Intellectual Property Rights(1A01)					
4. English for Research Paper Writing(1A02)					
5. Chemical Process Simulation Lab(1CT03)	03-05-2019				
6. Advanced Separation Processes Lab(1CT04)					
7. Advanced Reaction Engineering					
8. Disaster Management					
9. Advanced Chemical Reaction Engineering Lab					
10. Advanced Chemical Engineering Lab					
11. Mini Project with Seminar					
M.Tech(Nano Technology)					
1.Physics And Chemistry Of Materials(1NTPE01)					
2. Photonics(quantum confinement of materials(1NTPE01)					
3. Statistical Thermodynamics For Nanosystems (1NTPE01)	03-09-2019 &03-02-2020				
7. Nano biomedical Applications					
8. Nano Bio Technology					
9. Bio nanostructures					
10.Industrial trends and Applications of Nanotechnology					
M.Tech(Water and Environmental Technology)					
1. Water Quality Management and Modeling (1WETPE01)					
2.Hydro Power Development (3WETPE)					
3. Micro Irrigation Technologies (3WETPE)					
4.Business Analytics (3WETOE)	02.05.2010				
5.Industrial Safety (3WETOE)	03-05-2019				
6.Operations Research (3WETOE)					
7.Cost Management of Engineering Projects (3WETOE)					
8.Composite Materials (3WETOE)					
9.Waste to Energy (3WETOE)					
10.Environmental Statistics (3WETOE)					
	 				

1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System							
implemented at the University level during the CAY							
Name of Programmes	UG	PG	Date of implementation	UG	PG		
adopting CBCS			of CBCS / Elective				
			Course System				
M.Tech (Biotechnology)	NA	M.Tech	2015	NA	YES		
M.Sc (Biotechnology)	NA	M.Sc	2015	NA	YES		
M.Sc (Microbiology)	NA	M.Sc	2015	NA	YES		
M.Tech (Chemical	NA	M.Tech	2015	NA	YES		
Technology)	L						
M.Sc (Organic Chemistry)	NA	M.Sc	2015	NA	YES		
M.Sc (Analytical	NA	M.Sc	2015	NA	YES		
Chemistry)							
M.Tech(NanoTechnology)	NA	M.Tech	2015	NA	YES		
M.Tech (Water and	NA	M.Tech	2015	NA	YES		
Environmental							
Management)							
M.Tech (Spatial	NA	M.Tech	2015	NA	YES		
Information Technology)							
If already adopted (mention the year)							

1.3 Curriculum Enrichment		
1.3.1 Value-added courses imparting transfer		
Value added courses	Date of introduction	Number of students enrolled
M.Tech (Biotechnology)		
1. English for research paper writing		
2. Disaster management		
3. Sanskrit for technical knowledge		
4. Value education	03-05-2019	15
5. Constitution of India	03 03 2017	
6. Pedagogy studies		
7. Stress management by Yoga		
8. Personality Development through		
life enlightenment skills		
1. English for research paper writing		
2. Disaster management		
3. Sanskrit for technical knowledge		
4. Value education		
5. Constitution of India		
6. Pedagogy studies	03-05-2019	28 (I & II Sem)
7. Stress management by Yoga		
8. Personality Development through		
life enlightenment skills		
9. Research Methodology & Intellectual		
Property Rights		
1. English for research paper writing		
2. Disaster management		
3. Sanskrit for technical knowledge		
4. Value education		
5. Constitution of India	03-05-2019	15
6. Pedagogy studies		
7. Stress management by Yoga		
8. Personality Development through		
life enlightenment skills		
Soft Skill Development	20.08.2018	90
Soft Skill Development	20.08.2018	90
Synthesis/Processing and Properties of	03-09-2019	12
nanostructures		
Materials Characterization Techniques Photonics(quantum confinement of materials)	03-09-2019 03-09-2019	12
Nano biomedical Applications	03-09-2019	12
Synthesis, Fabrication and Characterization Lab	03-09-2019	12
Simulation Lab-I(Argus Lab& MAT lab)	03-09-2019	12
Research Methodology & IPR	03-09-2019	12
English for Research Paper Writing	03-09-2019	12
Disaster Management	03-02-2020	12
Nano Sensors and Devices	03-02-2020	12

Industrial trends and Applications of					
Nanotechnology	03-02-2020	12			
Nanotechnology For Energy Systems	03-02-2020	12			
Lithographic Techniques	03-02-2020	12			
Nanostructured Material Application Lab	03-02-2020	12			
Simulation Lab-II	03-02-2020	12			
Mini Project with Seminar	03-02-2020	12			
Comprehensive Viva-Voce(External)	22-07-2019	12			
Project work Review II	22-07-2019	12			
Project work Review III	23-12-2019	12			
Mini Project					
Short Assignments					
Audit Course	2010	5.1			
Industrial and Field Visit	2019	51			
Internship projects					
English for research paper writing					
Disaster management					
 Sanskrit for technical knowledge 					
Value education					
Constitution of India Pedagogy					
2 23					
studies	To be implemented in				
Stress management by Yoga	Next academic Year	1.5			
Research Methodology and IPR	2019-20	15			
Personality Development through life	2017-20				
enlightenment skills					
Soft Skill Development					
Communication soft skills					
Mini Project					
Short Assignments					
Audit Course					
Industrial and Field Visit					
Internship projects	20.07.2010				
Comprehensive Viva-Voce	20-07-2019				
Project work Review -I					
Project work Review II					
Project work Review III					
Comprehensive Viva-Voce					
1.3.2 Field Projects / Internships under tak	ken during the CAY	1			
Project/Programme Title		or Field Projects / Internships			
M.Sc (Biotechnology)	23	J			
M.Sc (Microbiology)	25				
M.Tech (Biotechnology)	15				
M.Tech(Chemical Technology)	06				
M.Sc(Organic Chemistry)	15				
M.Sc(Analytical Chemistry)	10				
M.Tech (Environmental Management)					
Impact of Urbanization on air quality in an	DIDDI SAI VISHAL				
around off HMDA					
The role of micro irrigation for modern MAMIDI SRAVYA					
agriculture					
	1				

Enhancement of energy recovery from	NENAVATH BHARATH
sludge	DAMIDEDDVC A DI CANTHOCH DEDDV
Studies on the efficiencies of municipal solid waste management in Nandyal town	PAMIREDDYGARI SANTHOSH REDDY
Environmental impact assessment study for "Kakatiya Maga textile park Warangal"	PARALA MAHESH
Environmental impact assessment study for "Green Industrial park, Hyderabad"	PARALA MAHESH
Study on impact an industry on ground water quality	PARALA MAHESH
Sources apportiment of particulate matter in	VEMULA DEVI SHARADA
Hyderabad. Urban using receptor modelling	VEMULA SMRITHI
Microbial healing of cracks in concrete	VEWULA SWRITHI
Treatment of new landfill leachate from municipal solid waste	VODNALA MANEESHA
Sea water intrusion (modelling) around a	N. AKHILA
costal aquifer	
Lake modelling (comprehensive monitoring	RACHAMALLU SRINIJA
and modelling of a lake in Hyderabad Ground water modelling of landfill leachate	SYED HASSAN HUSSAINI
around chloro alkali industry	STED THISSTIN TICSSMINI
M.Tech (Environmental Geomatics)	
Damage assessment of hud-hud cyclone by	ALISHYM SANGEETHA
using GIS techniques	
Estimation of electrical distribution and	BUDIDHA SHASHIKANTH
preparation of its network maps in Moinabad	
town, R.R District using GIS & GPS	
technology	
Crop yield model by remote sensing	CHINTAMALA AKHILA
Development of continuous water supply	KONDLA MRUDULA
system approach at rajendra nagar area using	
district metered area concept & GIS	NAME OF THE OWN OWN
Environmental impact assessment study for	MALLARAPU SHASHI PREETHAM
"Induction furnace production and rolling	I REETHAM
mil production	NASPOORI SUDHIR
Impact of road connectivity towards	NASPOURI SUDIIK
sustainable rural development using Geo	
spatial technology under PMGSY scheme Built- up area density mapping and	POODARI VENKATA RAMANA
assessment for tree cover canopy in dense	1 COSTRET PROGRAMMENT
Built-up areas using machine learning and	
statistical analysis	
Development of wheat yield proxy using	VELPULA SANDHYARANI
sattilite and ancillary data for Haryana state.	
Application of GIS and Remote Sensing in	
monitoring waste water flow into the	M.Vamshi Krishna
ISNAPUR LAKE	P.Manasa
Aerated Wet Lands : Sustainable Nature Based	V.Sujana -18031d5916
Solution For Present And Future Socio	
Environment And Climate Change	

1.4 Feedback S	ystem			
1.4.1 Whether st	ructured feedback rec	eived from all the stakeho	olders.	
1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
		Centre for Biotechnology	(CBT)	,
Yes	No	Yes (Offline process)	Yes	No
	Centre fo	r Chemical Science & Tec	hnology (CCST)	
Yes	No	No	Yes (offline)	No (offline)
		Centre for Environment ((CEN)	
Yes	No	Yes	Yes	Yes
	Centre f	or Nano Science and Tech	nology (CNST)	
Yes	No	No	No	No
	Cent	re for Pharmaceutical Sci	ences (CPS)	
2019	NA	53	NA	09
	Centre for	Spatial Information and T	Sechnology (CSIT)	l
Yes	Yes	No	No	No
	C	entre for Water Resources	s (CWR)	
Yes	No	Yes (offline printed document is available)	Yes (offline printed document is available)	Yes(off line printed document is available)
1.4.2 How the fe (maximum 500 y		ing analysed and utilized	for overall develop	ment of the institution?
		Centre for Biotechnology	(CBT)	
by the students 3	3 times, immediately a	ocess is an online process after commencing the class at survey at the end of the	ss work, before first	mid examination and

Feedback on the teaching-learning process is an online process which includes 1) Course exit survey; given by the students 3 times, immediately after commencing the class work, before first mid examination and the end of the semester, 2) Program exit survey at the end of the program by the students, 3) Alumni survey taken from alumni annually during alumni meeting and 4) Employer survey taken from employer annually, where the student joined. The received feedback is then analyzed and it is also forwarded to the Head of the institution with necessary suggestions based on this feedback. Teachers provide informal as well as formal feedback to the head of the institution on different academic, administrative and other affairs related to the college. Grievances (if any) and necessary suggestions can be registered to the Grievance Redressal cell of the institution.

Centre for Chemical Science & Technology (CCST)

Student's feedback is taken by Online. Online link will be sent to their individual mails. 3 feedbacks will be taken by the students 1st feedback after MID-I, Second feedback before 2nd MID and third Feedback after MID-II. Overall performance of the faculty can be rated out of 5 based on different questionnaire. Employers Alumni, Parents feedback on the effectiveness of the system is obtained through specially designed feedback forms. The faculty of the college attends seminars and conferences in order to acquaint

themselves with the latest development in their field. The knowledge is imparted to the students in the lecture and communicated to the university by suggesting curriculum changes in the meeting of Board of Studies.

Centre for Environment (CEN)

- The student feedbacks are collected after completion of every course in each semester/program.
- Alumni and Employers feedback also collected from the outgoing/passed out students.
- These feedbacks are continuously evaluated by head of the department/Director.
- According to the feedbacks/suggestions from the students the head or director will take the sensory action, modifications and implementation

Centre for Nano Science and Technology (CNST)

Feed back in a semester three times will be discussed as we are taking online feedbacks from the students and the same is informed to the faculty for introspection and improvement

Centre for Pharmaceutical Sciences (CPS)

The feedback obtained from the students was analyzed for their problems. Most of the students were seeking for study materials for different subjects and the materials were collected by concerned faculty members in the form of hard or soft copies and given to them. Based on the revised syllabus the chemicals, instruments, etc., were procured to improve the laboratory work. The feedback from Alumni students helped the current students how to get hired by reputed companies and skills required by students to survive in competitive world and to improve their personality special classes were introduced on communication skills to mould the students to face the interviews effectively.

Centre for Spatial Information Technology (CSIT)

- > Feed back in a semester three times will be discussed as we are taking online feedbacks from the students and the same is informed to the faculty for introspection and improvement
- Feedback on the teaching-learning process is an online process which includes
- ➤ Course exit survey; given by the students 3 times, immediately after commencing the class work, before first mid examination and the end of the semester,

Program exit survey at the end of the program by the students

Centre for Water Resources (CWR)

- Feed back in a semester three times will be discussed as we are taking online feedbacks from the students and the same is informed to the faculty for introspection and improvement
- > Feedback on the teaching-learning process is an online process which includes
- ➤ Course exit survey; given by the students 3 times, immediately after commencing the class work, before first mid examination and the end of the semester,
- Program exit survey at the end of the program by the students,
- Alumni survey taken from alumni annually during alumni meeting and
- Employer survey taken from employer annually, where the student joined. The received feedback is then analysed and it is also forwarded to the Head of the institution with necessary suggestions based on this feedback. Teachers provide informal as well as formal feedback to the head of the institution on different academic, administrative and other affairs related to the college. Grievances (if any) and necessary suggestions can be registered to the Grievance Redressal cell of the institution.

CRITERION II - 2.1 Student En			CARNING AND EVA	LUATION				
2.1.1 Demand								
Name of the			mber of seats	Number of app	lications	Stude	nts Enrolled	
Programme		114	available	received		Stude	into Elinonea	
M.Sc Biotechno		25(+5	Other category)	70	·•		26	
M.Sc Microbio			Other category)	80			28	
M.Tech	riogy	23(13	other eategory)	00			20	
Biotechnolog	αV		18	30			15	
M.Tech(Chemi			10	As per GATE/PG	ECET		13	
Technology)			18	notification	ILCLI		14	
			10	As per the notifi	ication		11	
M.Sc(Organic chemistry)	С		25	of TSCPGET	cution		23	
M.Sc(Analytica	1			As per the noti	fication		23	
chemistry)	t1		25	of TSCPG		•	22	
M.Tech			23	01 1501 0	121		22	
(Environmental				Ag non CATE/D	CECET			
`			24	As per GATE/P notification			16	
Management) (2019				Ш			
batch)								
M.Tech				. ~	AF 2==			
(Environmental			24	As per GATE/P			16	
Geomatics) (20	19			notification	on		10	
batch)								
M. Tech.								
(Nanotechnolog	gy)							
2019-21 batch			18	16			16	
M.Pharmacy								
(Pharmaceutica	1							
Analysis)			18	18			17	
M.Pharmacy								
(Pharmaceutics))		18	19			19	
M.Pharmacy	,							
(Pharmacognos	v)		18	18			17	
M.Tech (Spatia	•			13			• •	
Information	-							
Technology)			18	15			13	
M.Tech (Water	and		10	13			1.5	
Environemental								
Technology)	1		18	15			15	
	Ctud-	nt D:		13			13	
2.2 Catering to 2.2.1. Student			cher ratio (curre	nt year data)				
3 7		•	N. 1 C	NT 1 00	11 7	T 1 0033	NT 1 C	
Year	Numb		Number of	Number of fu		lumber of full-	Number of	
	studer		students enrolled			me teachers	teachers	
	enroll	ed in	in the institution			vailable in the	teaching both	
	the		(PG)	institution		stitution	UG and PG	
	institu	ıtion		teaching only		eaching only	courses	
	(UG)			UG courses		G courses		
			Centre for	· Biotechnology (C	CBT)			
2019	N	IL	68	NIL		9	NIL	

	C	entre f	or Chemical Sci	ence & Technol	logy (CCST)	
2019		55	-		1	0	
			Centre for Env	vironment (CE	N)		
M.Tech (EMT) 2018		15			6		
M.Tech (EGM) 2018		17			Ü		
M.Tech (EMT) 2019		16			6		
M.Tech (EGM) 2019		16			O		
		Centre	for Nano Scienc	e and Technolo	ogy (C	(NST)	
2019-20	NA		16	NA		03	NA
	Ce	ntre foi	Spatial Informa	ation and Tech	nology	y (CSIT)	
2019	-	53	-	-	0	9	09
		1	C	SIT	I		1
2019	N/A	15			0)3	01
		(Centre for Water	Resources (C	WR)		
2019	NA	15		NA	4		4(PG)
2.3 Teaching -	Learning Pro	cess	·		"		•
2.3.1 Percentage (LMS), E-learn		_		-	Learni	ng Managemer	nt Systems
Number of	Number of		ICT tools and	Number of	f ICT	Number of	E-resources
teachers on roll	teachers usin ICT (<i>LMS</i> , e <i>Resources</i>)	_	resources available	enabled classrooms	S	smart classrooms	and techniques used
			Centre for Biot	echnology (CB	BT)		
9	9		Smart Boards	3		3	E-text, E-assignments Powerpoints Animated vedios
	(entre f	or Chemical Sci	ence & Technol	logy (CCST)	
9	9		Yes	4		4	Powerpoints Animated

					vedios, Projectors,E- Library
		Centre for Envir	ronment (CEN)		
6	Yes	Yes	2	2	Yes
	Ce	entre for Nano Science	and Technology (C	NST)	
03	03	LCD Projectors-4, E-classrooms-1 Printers-8 Lan connectivity to all computers Total no of computers 26 Centre for Pharmaceu	E-classrooms-1	NIL S)	Computers with internet connection, LCD Projectors, Overhead projectors
9	9	LCD Projectors-3	E-classrooms-2	2	Computers with internet, LCD Projectors, E- assignments Powerpoints Animated videos, E- Library
	Cent	re for Spatial Informati	on and Technology	(CSIT)	1 -
2	3	computers, software, laptops	2	2	E-Library
		Centre for Water I	Resources (CWR)		
4	YES	YES	1	1	YES

2.3.2 Students mentoring system available in the institution? Give details. (Maximum 500 words) **Centre for Biotechnology (CBT)** Mentoring of students is based on the following objectives: ☐ To increase the teacher-student contact hours ☐ To identify and address the problems faced by slow learners ☐ To decrease the student drop-out rates ☐ To prepare students for the competitive world Every year, department and the individually organize orientation sessions on the class commencement day for students of first semesters and explain the designing and implementation of the mentoring system of the department. 3 sessions of personal counseling by allotting ~ten students / Faculty on Behavioral issues, career opportunities etc., • Students are given mentoring for NET / SET • Placement cell, grievance redressal cell, anti- ragging cell Student scholarships (SC, ST, BC, EBC, Minority) • Students are encouraged to: Attend seminars/conferences Participate in sports and cultural activities Attend lectures on soft and communicative skills and stress management Outcomes-The students pass percentage in the examinations is quiet encouraging After completion of PG Courses, our students are equipped to qualify in CSIR/UGC-NET, SET, GATE, ICMR and other competitive examinations ➤ Based on the Employer feed back, the students placed in the industries are performing well

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
68	9	1:7.5

Centre for Chemical Science & Technology (CCST)

Yes

Student Mentoring System is available in the centre. Each faculty is the mentor of a group of 6 students. First year students have mentors from the department 2nd year students have mentors from the parent department. Departmental faculties will continue to be mentors for the same group of students till their Masters. Every Friday there is one slot for interaction with students. In this meeting mentor communicates personally with each student to understand the academic problems or personal issues of students. If the problem is within her/his scope he/she her; Otherwise it is forwarded to the higher authority and medical counsellor.

Responsibilities:

- Mentors are assigned to monitor and guide students all through the two years.
- Mentors coordinate with the parents regarding the progress of the students.
- Mentors also keep track of the mentees' performance during the summer internship by continuous interaction with the industry guide designated to the student by the company.
- Mentors communicate with fellow faculty and promote mentees at the time of difficulty / opportunity to help them develop further in their areas of interest.

The HODs (Head of the Department)

- Meet all the mentor of his/her course twice in a month to review proper implementation of the system.
- Advice mentors wherever necessary.
- Initiate administrative action on student when necessary.

Keep the head of the institute informed.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
	01- Professor (Permanent)	
	01-Professor(C)	
	01-Emeritus Professor	
	01(Associate Professor(c)	
	05-Assistant Professor(c)	1:6
55		

Centre for Environment (CEN)

YES:

In every semester Five to six number of students are allotted to each teacher for mentoring

• The mentors will be monitored continuously about student regularly and the records are mentioned in the department

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
64	6	10.66

Centre for Nano Science and Technology (CNST)

Yes. Students are mentored for seminars and student related problems. Mentoring is based on semester wise. Mentoring includes questions asked to students related to improvement in subjects, course and career. Mentoring books are provided by the TEQIP-III, IST, JNTUH, which consist of students information, semester wise details and day to day counselling details. Each faculty Advisor will be having 4 to 5 students. Problem related to students will also be discussed with mentoring solutions will also be discussed.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
16	03	03:16

Centre for Pharmaceutical Sciences (CPS)

Yes. There is a good student mentoring system in the department which enables the students to get improvement not only in the studies but also in their personality development. The students are divided into batches each faculty is assigned with one batch to look over their performance in the exams and lab work. Based on their performance the students are further trained to overcome their drawbacks by conducting remedial classes, assignments, etc., by which the students under their respective mentor are moulded into a perfect learner.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
53	9	1:6
	A TOTAL A COCKED	

Centre for Spatial Information and Technology (CSIT)

- Mentors are assigned to monitor and guide students all through the two years.
- Mentors coordinate with the parents regarding the progress of the students.
- Mentors also keep track of the mentees' performance during the Summer internship by continuous interaction with the industry guide designated to the student by the company.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio		
15	02	03		
Centre for Water	Resources (CWR)			
Mentoring of students is conducted by the departments of the in	nstitution. Mentoring of students is ba	ased on the following		
objectives:				
☐ To increase the teacher-student contact hours				
☐ To identify and address the problems faced by slow learners				
☐ To decrease the student drop-out rates				
☐ To prepare students for the competitive world				
Every year, department and the individually organize orientation		-		
semesters and explain the designing and implementation of the	mentoring system of the department			
 3 sessions of personal counseling by allotting 	~ten students / Faculty on Behaviora	al issues, career opportunities		
etc.,				
Students are given mentoring for NET / SET				
 Placement cell, grievance redressal cell, anti- 	ragging cell			
 Student scholarships (SC, ST,BC,EBC, Mino 	rity)			
Students are encouraged to:				
 Attend seminars/conference 	es			
 Participate in sports and cu 	ltural activities			
 Attend lectures on soft and 	communicative skills and stress man	agement		
Outcomes-				
The students pass percentage in the examinations is qu	> The students pass percentage in the examinations is quiet encouraging			
After completion of PG Courses, our students are equipment.	pped to qualify in CSIR/UGC-NET,	SET, GATE, ICMR and		
other competitive examinations				
➤ Based on the Employer feedback, the students placed in the industries are performing well				
Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio		
15	04	1:5		

2.4 Teacher Profile and Qualit	y			
2.4.1 Number of full-time teachers appointed during the CAY				
No. of sanctioned positions	No. of fille positions	ed Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
Centre for Biotechnology (CBT)		·		
NIL	NIL	NIL	NIL	NIL
Ce	ntre for Chemi	cal Science & Techr	nology (CCST)	1
NIL	NIL	NIL	NIL	NIL
	Centre	for Environment (C	CEN)	
5	4	01	0	4
(Centre for Nano	Science and Techno	ology (CNST)	
1(Contract Faculty)	1(Contraction Faculty)		1(Contract Faculty)	02
	Centre for P	harmaceutical Scien	ices (CPS)	
NIL	NIL	NIL	NIL	NIL
Centre for Spatial Information and Technology (CSIT)				
No	03	01	No	01
Centre for Water Resources (CWR))	- 1	•	•
NIL	NIL	NIL	NIL	NIL

2.4.2 Honours and recognitions received by teachers (received awards, recognition, fellowships at State/National/International level from Government, recognised bodies during the CAY) Year of Name of full time teachers receiving Designation Name of the award, fellowship, award awards from state level, national level, received from Government or international level recognized bodies 2019 Dr.ArchanaGiri Professor, Meritorious teacher award **BOS** chair person Dr.ArchanaGiri Fellow of the Telangana 2019 Professor. Academy of Sciences (FTAS) BOS chair for the year 2019. person EC member JNTUH 2020 Dr.T.VijayaLaksmi Associate professor & BOS chair person 2018-19 Dr. K. Venkateswara Rao Professor & Awarded as NPTEL Certificate of appreciation Instrumental role as Head of the SPOC for swayam NPTEL local Department chapter. 2018-19 Dr. CH. Shilpa Chakra Elected as Associate fellow in Assistant Engineering Sciences from Professor Telangana Academy of **Engineering Sciences** Elected as Associate Fellow in Engineering Sciences from Andhra Pradesh Academy of Sciences Rastriya pratiba award (for talented personality in India) by Indo socio Development Association PROF.M.V.S.S.GIRIDHAR PROFESSOR 2019 WMF AWARD FOR BEST , CWR, **CONTRIBUTION TOWARDS** IST, JNTUH CONSERVATION OF WATER 2019, WATER MANAGEMENT FORUM, A PHERIPHERAL BODY OF THE INSTITUTE OF ENGINEERS (INDIA) 2019 PROF.K.RAMAMOHAN REDDY PROFESSOR, OSD to VC, Director of Audit cell CWR,IST,JNT

		UH	
2019	PROF.K.RAMAMOHAN REDDY	PROFESSOR , CWR, IST,JNTUH	CO-ORDINATOR FOR THE TRAINING PROGRAM GIVEN TO EMPLOYEES OF INFOSYS COMPANY, HYDERABAD ON "INTERMEDIATE CONCEPTS OF GIS" DURING MARCH –APRIL 2019.
2019	PROF. B.VENKATESWARA RAO	PROFESSOR , CWR, IST,JNTUH	VICE PRESIDENT INDIAN METEOROLOGICAL SOCIETY (IMS) Hyderabad
2016-2019	PROF. B.VENKATESWARA RAO	PROFESSOR, CWR, IST, JNTUH.	ELECTED AS PRESIDENT FOR ASSOCIATION OF GLOBAL GROUNDWATER SCIENTISTS (AGGS) FOR THE TERM 2016-19 AND FELLOW FROM THE YEAR 2019.

2.5 Evaluation Prod	2.5 Evaluation Process and Reforms			
2.5.1 Number of day	2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results			
during the CAY				
Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
M.Sc.	M.Sc (BT)	2 nd Semester-2019	July 2019	18 th September 2019
Biotechnology (2018-20)				
M.Sc.	M.Sc (MB)	2 nd Semester-2019	July 2019	18 th September 2019
Microbiology (2018-20)				
M.Tech. Biotechnology (2018-20)	M.Tech (BT)	2 nd Semester-2019	July 2019	18 th December 2019
M.Sc. Biotechnology (2018-20)	M.Sc (BT)	3 rd Semester2019	December 2019	20 th May 2020
M.Sc. Microbiology (2018-20)	M.Sc (MB)	3 rd Semester-2019	December 2019	20 th May 2020
M.Sc	Organic Chemistry	III/2018	28.12.2019	June /2020
M.Sc	Analytical Chemistry	III/2018	28.12.2019	June/2020
M.Sc	Analytical Chemistry	I/2019	05.02.2020	June/2020

M.Sc	Organic Chemistry	I/2019	05.02.2020	June/2020
M.Tech	Chemical Technology	I/2019	29.01.2020	June/2020
M.Tech	031D31	I semester 2019 batch	20-01-2020 (I-	
(Environmental			semester 2019	
Management)			batch))	
M.Tech	031D60	I semester 2019 batch	20-01-2020 (I-	
(Environmental			semester 2019	
Geomatics)			batch))	
M.Tech	NT	III semester/2019	13-12-2019	17-06-2020
(Nano Technology)				
2018-20 Batch				
M. Pharmacy	S04	II/I	April2020	July 2020
Pharmaceutical				
Analysis	002	II/I	A :- :::12020	I1 2020
M. Pharmacy Pharmaceutics	S03	11/1	April2020	July 2020
M. Pharmacy	S07	II/I	April2020	July 2020
Pharmacognosy	507	11/1	Aprii2020	July 2020
M.Tech (Spatial	32	I/I	20-01-2020	July /2020
Information		-, -	(I- semester 2019	· · · · · · · · · · · · · · · · · · ·
Technology)			batch))	
M.Tech (Water and	59	I SEMESTER /2019	01-02-2020	June 2020
Environmental				
Technology)				
M.Tech (Water and	59	II SEMESTER	24-08-2020	June 2020
Environmental		/2020		
Technology)				

2.5.2 Average percentage of Student complaints/grievances about evaluation against total number		
appeared in the examinations during the CAY		
*Do not include re-evaluation/re-totalling		
Number of complaints or grievances	Total number of students	Percentage
about evaluation	appeared in the examination	
Centre for Spatial Information and Techn	nology (CSIT)	
NIL	NIL	NIL
Centre for Biotechnology (CBT) NIL	NIL	NIL
Centre for Chemical Science & Technology (CCST)		
NIL	NIL	NIL
Centre for Pharmaceutical Sciences (CPS)		
NIL	NIL	NIL
Centre for Nano Science and Technology (CNST)		

NIL	NIL	NIL
Centre for Environment (CEN) Centre for Nano Science and Technology (CNST) Centre for Water Resources (CWR)		
NIL	NIL	NIL

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

http://jntuhist.ac.in

Centre for Water Resources (CWR)

Program Outcomes

PO1: An ability to independently carry out research /investigation and development work to solve practical problems

PO2: An ability to write and present a substantial technical report/document

PO3: Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program.

PO4: Students should be able to cope with changing technological environment to meet the challenges emanating out of Climate change and Environment.

S.N	Course Code/Course Title	Course Outcomes
0		
1.	WET -01	The student is expected
	Surface Water Hydrology	CO2: To learn about precipitation and its measurement, analysis and interpretation.
		CO2: Know about abstractions to rainfall, infiltration, evaporation and transpiration along with their estimation and derivation of unit hydrograph from hydrograph.
		CO3: Gain Knowledge about floods, its estimation, combat floods and flood routing.
		CO4: Familiarize with surface water pollution, causes, effects and remedial measures.
		CO5: Acquire knowledge about disasters and its management, conservation of water and climate change and its impact on water resources.
2	WET- 02	CO1: To understanding the fundamentals concepts of groundwater for its storage
	Ground Water Hydrology	movement governing laws with field and laboratory estimation of hydraulic properties.
		CO2: Derivation of flow of Water through porous media its governing equations and estimation of aquifer parameters with various types of pumping tests in
		tube wells and open wells.
		CO3: Application of ground water exploration techniques by using geophysical methods such as electrical resistivity methods and seismic refraction method to explore groundwater.
		CO4: Practicing various groundwater management techniques such as artificial recharge, conjunctive use basin management and control of sea water intrusion.
		CO5: To understand the groundwater pollution, remediation and modeling of the aquifer with respect to flow model and transport model.
3	WET -03	The Student is expected to
	Advanced Fluid Mechanics	CO1: Inculcate knowledge on description of fluid motion, stream and velocity potential, their properties and applications.
		CO2: Develop understanding on the dynamics of Ideal fluids, applications to one dimension problems and evaluate the problems on pipe bend, venturimeter and orifice meter.

		CO3: Imbibe the equations of real fluids like Navier Stokes equation, Stokes flow and Hagen Poiseuille flow.
		CO4: Acquire knowledge on boundary layer flow for various expressions and equation on laminar and turbulent boundary, Integral momentum and boundary layer separation.
		CO5: Grasp the basic idea of turbulence in fluid flow.
4	WET-04 Hydraulic Structures	The student is expected CO1: To learn about gravity dams, its analysis and design, theoretical and practical profile of gravity dam.
		CO2: Understand spillways, types, operation, relative merits and demerits, energy dissipation, types of stilling basins and design specifications.
		CO3: Know about earth dams, its suitability, types, design and analysis, types of failures and remedial measures.
		CO4: Gain knowledge about rock fill dams, types, its suitability and safety measures.
		CO5: Be familiar with classification of arch and buttress dams, stability analysis, relative merits and demerits and design.
5	WET -04	The students should be able
	Applied Statistical Methods	CO1: To solve applied problems using differentiation and integration. CO2: Understand, apply and examine the confidence intervals, tests of hypotheses
		and regression analysis.
		CO3: Gain knowledge on finite difference approximations and to solve practical problems concerned to groundwater.
		CO4: Develop the ability to generate the governing finite element equations for systems governed by partial differential equations.
		CO5: Comprehend the fuzzy logic control and design the fuzzy logic using genetic algorithm.
6	WET -04 Water Supply and Treatment Technologies	The student is expected CO1: To learn about water transmission pipe networks, non-revenue water and wastewater treatment as a part of water conservation.
		CO2: Understand different water treatment units and its stages and design of water treatment plant using CAD.
		CO3: Be acquainted with advanced water treatment methods for the removal of various pollutants including metals.
		CO4: Understand corrosion of pipes, causes, effects and control.
		CO5: Have thorough idea about ecological sanitation and know about grey water management and recycling of nutrients.
7	WET- 04 Environmental Chemistry and Microbiology	The student is expected to CO1: Develop an understanding of structure and formation of an ecosystem.
		CO2: Gain knowledge on energy flow and to understand biogeochemical cycles and their significance in the sustainability ecosystems.
		CO3: Gain competency and understanding of the significance of chemical and biological reactions in environmental problems.
		CO4: Identify domestic waste, household, community waste disposals and also to familiarize with chemistry of pesticides, insecticides, herbicides, detergents, and rodent control chemicals.
		CO5: Acquire knowledge on soil, air, aquatic, domestic water and sewage, foods, milk and industrial microbiology.
8	WET-05	CO1: Understanding the hydro geological concepts and occurrence of groundwater
	Geo-Physical Exploration and Watershed Management	in various rock formations application of hydrological methods to groundwater exploration.
	vi atersited ividilagement	CO2: Application of various geophysical methods for groundwater exploration.
		CO3: Learning the drilling methods and construction of water wells in various rock formations.
		CO4: Learning the design development of water well using well logging and well hydraulic methods.
		CO5: Understanding the planning, surveying and development of watershed management programmes.
9	WET -05 River Basin Management	The student is expected CO1: To learn know about forecast of river flows, routing the flow and river confluences.

		CO2: Tounderstand river confluences and its balance, reservoir routing and
		aggregation of water users. CO3: Be familiar with management of different irrigation structures, water
		conservation and concerned technological innovations.
		CO4: Have thorough understanding of judicious water allocation for various purposes and reservoir operation.
		CO5: Gain knowledge about soil erosion and sedimentation, control measures and catchment treatment.
10	WET -05 Air pollution and Control Technologies	CO1: The student is expected to understand the effects of air pollutants, the metrological aspects, plume behavior and atmospheric dispersion equation.
		CO2: Acquire knowledge on sampling techniques and analyze air quality.
		CO3: Understand and analyze the basic mechanisms involved, working principle and design aspects of various air pollution controlling equipments.
		CO4: Identify the methods to control sulphurdioxide and nitrogen oxide emissions.
		CO5: Gain knowledge on vehicular emissions and auto mobiles pollution control at sources along with legal measures.
11	WET-06	Students will be able to
	Environmental Laboratory	CO1: Perform common environmental experiments relating to water, wastewater and solid waste quality, and know which tests are appropriate for given environmental problems.
		CO2: Statistically analyze and interpret laboratorial results.
		CO3: Understand and use the water, wastewater and solid waste sampling procedures and sample preservations.
		CO4: Demonstrate the ability to write clear technical laboratorial reports.
		CO5: Understand the impact of water, wastewater and solid waste treatment on people and the environment.
12	WET-07	CO1: Exploring the ground water using electrical resistivity methods.
	Groundwater laboratory	
		CO2: Exploring the ground water using seismic methods.
		CO3: Identifying civil utility using Ground Penetrating Radar. CO4: Determination of aquifer characters using pumping tests.
		CO5: Identifying various layers of the subsurface using well lagging techniques.
13	WET- 09 Geospatial Applications to Water Resources	The Student is expected to CO1: Develop the knowledge on basic concepts of remote sensing, elements involved in remote sensing, its energy sources and interaction with earth's surface features and foundations of remote sensing.
		CO2: Comprehend the concepts of Geographical Information System (GIS), components of GIS, types and data structures.
		CO3: Understand how the data sets are acquired and developed, and can carry out the preprocessing of data inputs.
		CO4: Improve the learning on global positioning system (GPS), factors influencing GPS, GPS signal characteristics, mathematical model and GPS applications.
		CO5: Identify the importance of Remote sensing and GIS in various applications like water resources, drought assessment, flood plain zoning etc.,
14	WET-10	CO1: Understanding irrigation development in India and soil water plant
	Irrigation Management	relationships.
		CO2: Estimation of crop water requirements. CO3: Application of various irrigation methods and their design.
		CO4: Determining of land leveling for irrigation and design of surface and
		subsurface field water conveyance. CO5: Understanding salt problems in irrigated lands and designing suitable
		drainage methods.
15	WET-11	The student is expected
	Advanced Wastewater Treatment Technologies	CO1: To know about sewerage systems, design and appurtenances.
	Treatment Technologies	CO2: Learn primary treatment of both domestic and
		industrial waste water along with design of
		waste water treatment using CAD. CO3: Gain knowledge about secondary or biological
		treatment of waste water sludge treatment and
		

disposal, low cost waste treatment systems like oxidation pond and oxidation ditch. CO4: Understand various tertiary treatment systems, desalination and reverse osmosis and be familiar with different case studies on treatment of pharmaceutical and chemical industrial effluents. CO5: Know about wetlands and its role in the treatment of wastewater, construct wetlands, recycle and reuse of treated wastewater. The student is expected CO1: To learn about types of flows and flow profiles, varied flow analysis computation. CO2: Understand dam break analysis, formation of jump on sloping chant surges and its types. CO3: Know about different methods of dimensional analysis and its application CO4: Gain knowledge about different dimensionless members and their methods	
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surges and its types. CO3: Know about different methods of dimensional analysis and its application	els.
CO3: Know about different methods of dimensional analysis and its application	
	3.
CO4. Gain knowledge about different difficults inclined and their inc	
laws and flow fields in which they are applicable, kinds of similarity	ınd
types of models and scale effect.	
CO5: Be thorough with design of alluvial channels, different theories and t	eir
relative merits and demerits.	
The student is expected CO1. To be student is expected	4.1
Solid and Hazardous Waste Management CO1: To know about solid and hazardous waste transportation, environme laws and analysis of hazardous waste.	tai
CO2: Learn waste recovery processes, cradle to grave concept of hand	inα
hazardous waste.	ng
CO3: Understand disposal of hazardous waste both on surface and undergro	nd
and waste minimization and hazardous waste remediation technologies.	
CO4: Be familiar with collection transportation treatment and safe disposal of b	oth
biological and electronic waste and be conversant with reuse and recyc	ng
of wastes, recovery of by products and energy audit.	
CO5:Gain knowledge about waste land characteristics and its remediat	on,
different kinds of pollution of soils, remediation methods.	
WET-12 Urban Hydrology The student is expected CO1: To know about impact of urbanization on urban runoff urban water	nıh
systems, urban hydrologic cycle.	uo
CO2: Learn modeling of storm water, probabilistic and statistical approache	of
analysis of storm water data.	
CO3: Understand urban drainage systems, sewers, components, des	gn
considerations, infiltration and exfiltration in sewers, field investigation	ons
and control measures.	
CO4: Be well acquainted with storm water management, monitoring run	
quantity and quality, measures to mitigate damaging effects of urban st runoff.	rm
CO5: Be familiar with maintenance of urban drainage systems, pump station	ne
illicit connections, limitations and regulations.	113,
19 WET-12 The Student is expected to	
Water CO1: To develop objective function and constraints for various water resour	ces
ResourcesSystemAnalysis optimization problems.	
CO2: To develop linear programming models for water resources problems	
using graphical and simplex and revised simplex techniques, to carry	out
sensitivity analysis and post optimality analysis.	•
CO3: To develop and solve forward and backward recursive dyna	nic
programming models. CO4: To understand optimization and simulation concepts and modeling and	lee
apply simulation techniques in water resources problems.	150
CO5: To understand the fundamentals of economic theory as applied to w	ter
resources.	
20 WET-13 The student is expected to	
Sustainable Water Resources CO1: To Know about frame work for sustainable development of water Resources	ces
Development keeping global water crises in view.	
CO2: To learn virtual water, national water policy, national water mission al	
with the challenges in the development of sustainable development of w	ter

		resources.
		CO3: To be thorough sustainable water resources management in local, regional
		and global perspective including the challenges to achieve sustainable
		water use and management.
		CO4: To gain knowledge regarding water economics, options for water
		conservation and private sector involvement in water resources
		management.
		CO5: To be well versed with water act, government policies on water conservation
		and the measures for sustainable water resources.
21	WET-13	The Student is expected to
	Environmental Impact	CO1: Understand the basic concept of EIA, important steps in EIA and systematic
	Assessment	approach for using EIA as a planning Tool for Major project activities.
		CO2: Identify the EIA methodologies and criteria for selection of EIA
		methodology.
		CO3: Recognize the impact of development activities and land use on soil and
		groundwater resources and assess the impact significance on landfills and
		human habitation.
		CO4: Identify and interpret the projects which create impacts on surface water
		environment, surface water quality, Impact significance on water resources
		project.
		CO5: Understand the concept of environment audit, its objective, different types of
		audit and experience on site activities and gain technical knowledge during
- 22	WEET 12	the field visit to industries.
22	WET -13	The student is expected
	Hydropower Development	CO1: To know about hydropower systems, types, different load studies, pondage
		and storage. CO2: Understand different intake structures, layout of a hydropower plant,
		penstock, design and anchorages.
		CO3: Learn about water hammer, analysis, solution of linearized equations.
		CO4: Be familiar with surge tanks, types, working, computations and stability
		analysis.
		CO5: Be well acquainted with power houses, arrangement, selection of type,
		criteria for fixing dimensions, layout of underground power houses,
		stability and merits.
23	WET-14	The Student is expected to
	Water Resources Simulation	CO1: Identify and Generate different types of maps using remote sensing and GIS
	and Modeling Lab	software.
		CO2: Prepare the maps for the delineated catchment area using GIS and Integrate
		the GIS and remote sensing maps.
		CO3: Apply the concept of geomatics for watershed analysis and rainfall-runoff
		modelling using SWAT.
		CO4: Execute evapotranspiration modeling using CROPWAT.
24	WET 15	CO5: Identify harvesting structures in given area.
24	WET-15	The students will have hands - on experience in
	Image Processing Laboratory	CO1: Importing digital satellite data into image analysis system and extraction of the area of interest (AOI).
		CO2: Carrying out geometric correction of satellite data using ground control points (GCPs), and preparing mosaics of satellite images.
		CO3: Generating Digital Elevation Models (DEM) and NDVI from satellite image
		of AOI.
		CO4: Preparation of Land use/land cover maps using unsupervised and supervised
		classification algorithms.
		CO5: Priority watershed maps, flood maps including inundated areas, Surface
		water body maps, drought maps and their analysis.
		1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

2.6.2 Pass percentage of students					
Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage	
M.Sc (BT)	M .Sc Biotechnology	20	19	95	
M.Sc (MB)	M.Sc Microbiology	23	23	100	
M.Tech (BT)	M.Tech Biotechnology	11	07	64	
M.Sc	Organic Chemistry	23	21	92%	
M.Sc	Analytical Chemistry	18	17	94%	
M.Tech	Chemical Technology	12	10	92%	
31D31	M.Tech (Environmenta 1 Management) 2017	16	12	75%	
31D60	M.Tech (Environmenta 1 Geomatics) 2017	17	15	88%	
NT	M.Tech (Nano Technology) (2017-19 batch)	12	09	75%	
NT	M.Tech (Nano Technology) (2018-20 batch)	12	10	83%	
S04	M. Pharmacy Pharmaceutical Analysis	17	16	94%	
S03	M. Pharmacy Pharmaceutics	18	18	100%	
S07	M. Pharmacy Pharmacognosy	17	16	100%	
M.Tech (SIT) 32	M.Tech (SIT)	13	12	92%	
59	M.Tech.(Water and Environmental Technology)	14	12	86%	

2.7 Student Satisfaction Survey

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

http://jntuhist.ac.in/feedback/

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 Promotion of Research and Facilities

	3.1 Promotion of Research and Facilities				
3.1.1 Teachers awarded National/International fellowship for advanced studies/ research during the year					
	Name of the	Name of the Award	Date of Award	Awarding Agency	
	teacher				
	awarded the				
	fellowship				
National	PROF.M.V.S.S.GI RIDHAR	WMF AWARD FOR BEST CONTRIBUTION TOWARDS CONSERVATION OF WATER 2019, WATER MANAGEMENT FORUM, A PHERIPHERAL BODY OF THE INSTITUTE OF ENGINEERS (INDIA)	2019	WATER MANAGEMENT FORUM, A PHERIPHERAL BODY OF THE INSTITUTE OF ENGINEERS (INDIA)	
	PROF.K.RAMAM OHAN REDDY	CO-ORDINATOR FOR THE TRAINING PROGRAM GIVEN TO EMPLOYEES OF INFOSYS COMPANY, HYDERABAD ON "INTERMEDIATE CONCEPTS OF GIS" DURING MARCH – APRIL 2019.	2019	CO-ORDINATOR FOR THE TRAINING PROGRAM GIVEN TO EMPLOYEES OF INFOSYS COMPANY, HYDERABAD	
	PROF. B.VENKATESW ARA RAO	VICE PRESIDENT INDIAN METEOROLOGICAL SOCIETY (IMS) Hyderabad	2019	INDIAN METEOROLOGICAL SOCIETY (IMS) Hyderabad	
	PROF. B.VENKATESW ARA RAO	ELECTED AS PRESIDENT FOR ASSOCIATION OF GLOBAL GROUNDWATER SCIENTISTS (AGGS) FOR THE TERM 2016-19 AND FELLOW FROM THE YEAR 2019.	2016-2019	ASSOCIATION OF GLOBAL GROUNDWATER SCIENTISTS (AGGS)	
International	NIL	NIL	NIL	NIL	

· · · · · · · · · · · · · · · · · · ·	ctoral Fellows, Research Associates and	other fellows in the	
Institution enrolled during the CAY			
Name of Research fellowship	Duration of fellowship	Funding agency	
Mr. J. Srinivas (RA)	2019-2020	TEQIP-III	
Mrs. K. Mounika (RA)	2019-2020	TEQIP-III	
	entre for Biotechnology (CBT)		
TEQIP JRF (2)	2 YEARS	TEQIP	
	entre for Environment (CEN)	TEOID III	
P. Kiran Kumar (RA)	2019-2020	TEQIP-III	
S. Shiva Kumar (RA)	2019-2020	TEQIP-III	
M. Abhilash(RA)	2019-2020	TEQIP-III	
L.Sushma (RA)	2019-2020	TEQIP-III	
JagadeeshwariUppada (RA)	2018-2020	TEQIP-III	
Dr.D.Bhagawan (UGC-PDF)	2017-2022	UGC	
Dr.Lakshmankumar	2018-2021	UGC	
(Kothari-PDF)			
Dr.Kavitha Varma (DBT-RA)	2018-2020	DBT	
Dr.B.Naiadu (kothari PDF)	2017-2020	UGC	
T. Rakesh Kumar	Nano Science and Technology (CNST)		
(JRF DST SERB CORE Project)	2 years	DST,Govt of India	
K.Shireesha (JRF DST SEED Project)	2 years	DST,Govt of India	
Cen	tre for Water Resources (CWR)		
Mr.V.Narasaiah (RA)	2018-2020	TEQIP-III	
Mrs.G.Hepsi Swaroopa Rani (RA)	2018-2020	TEQIP-III	
Ms.Shyama Mohan (RA)	2019-2020	TEQIP-III	
Mrs.P.Sowmya (RA)	2019-2020	TEQIP-III	
Ms.M.Ramya (RA)	2019-2020	TEQIP-III	
Mr.D.Ajay Kumar (RA)	2019-2020	TEQIP-III	
	patial Information and Technology (CSI	`	
NIL NI		NIL	
Cen	tre for Pharmaceutical Sciences		
NIL	NIL	NIL	

3.2 Resource Mobiliza	ation for Reseau	ch		
3.2.1 Research funds sa	anctioned and re	ceived from various agencie	es, industry and oth	er organizations
Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
		Centre for Biotechnology (Cl	BT)	
Major projects	2017- 2022	DST-FIST	59 Lakh	0
	2019-2020	HPCL	27.39	8.79
Minor Projects	2019-2022	AICTE –RPS	10 Lakh	10 lakh
	2019-2020	TEQIP-III	2 Lakh	2 Lakh
	2019-2020	TEQIP-III	2 Lakh	2 Lakh
	2019-2020	TEQIP-III	2 Lakh	2 Lakh
	2019-2020	TEQIP-III	2 Lakh	2 Lakh
	2019-2020	TEQIP-III	2 Lakh	1.9 Lakh
	2019-2020	TEQIP-III	2 Lakh	0
Interdisciplinary				
Projects Industry sponsored Projects				
Projects sponsored by the University	NIL			
Students Research Projects (other than compulsory by the University)				
International Projects				
Any other(Specify)			100, 20, 5	20.001.11
Total	Centre for	 	108 .39 Crore logy (CCST)	30.69 Lakh
				1
Nature of the Project	Duration	Name of the	Total grant	Amount received

		funding Agency	sanctioned	during the year
Major projects	2019-20	TEQIP-III	2.0 Lakhs	2.0 Lakhs
	2019-20	TEQIP-III	2.0 Lakhs	2.0 Lakhs
	2019-20	TEQIP-III	2.0 Lakhs	2.0 Lakhs
	2019-20	TEQIP-III	2.0 Lakhs	2.0 Lakhs
Minor Projects	NIL			
Interdisciplinary Projects	NIL			
Industry sponsored Projects	2017-20	Industrial R & D project	15.00 lakhs	15.00 Lakhs
Projects sponsored by the University	NIL			
Students Research Projects (other than compulsory by the University)	NIL			
International Projects	NIL			
Any other(Specify)	NIL			
Total			23 Lakhs	
	(Centre for Environment (CEN		
Nature of the Project	Duration	Name of the	Total grant	Amount received
rature of the Froject	Burution	funding Agency	sanctioned	during the year
Major projects				
Carbon sequestration using anoxygenicphotoautot rphic bacteria: Potential exploitation for Climate Chenge Mitigation (Dr.Ch.Sasikala)	2019-2021	AICTE	10.0lakhs	
Studies on Microbial ecology, diversity and their Bioprospecting for Environmental Management	2019-2021	AICTE (Research Promotion Scheme)	10.0 lakhs	
Biodegradation of Pharmaceuticals and Personal Care Products (PPCPs): PPCP degrading bacterial diversity and their potential application in the wastewater treatment	2018-2020	UGC (midcareer award grant)	10.0lakhs	5.0 lakhs

(Dr.Ch.Sasikala)				
Minor Projects				
Monitoring Of Air Pollution And Studies On Speciation, Source Apportionment In Hyderabad Urban Environment (Dr.V.Himabindu)	2018-2020	TEQIP-III	4.0 lakhs	4.0 lakhs
Impact study on mission kakatiya of Telangana state-A case study of maryala water shed using geospatial technology (Dr.M.Anjireddy)	2018-2020	TEQIP-III	4.0 lakhs	4.0 lakhs
Anoxygenic phototrophic bacterial diversity of marine habitats of India (Dr.Ch.Sasikala)	2018-2020	TEQIP-III	4.0 lakhs	4.0 lakhs
Surveying and mapping of agriculture and land utilization (Dr. T. Vijayalakshmi)	2018-2020	TEQIP-III	4.0 lakhs	4.0 lakhs
Interdisciplinary Projects Industry sponsored				
Projects				
Projects sponsored by the University				
Students Research Projects (other than compulsory by the University)				
,	PDF kothari (UGC)	2018-2021	6.8 lakhs/year	
	PDF kothari (UGC)	2018-2021	6.8 lakhs/year	
	PDF kothari (UGC)	2017-2020	6.8 lakhs/year	
	DBT RA	2018-2020	6.11 lakhs/year	

	PDF UGC		6.5 lakhs/year	
		2017-2022	0.5 laklis/yeal	
	(SC/ST)	2017-2022		
Treatment of wastewater using movable electrochemical reactor (Dr.D.Bhagawan)	One year	MSME	4.0 lakhs	0.6 lakhs
design of laboratory scale constructed wet lands (Sai charanMTech project)	One year	TEQIP-III	10,000.00	10,000.00
A.Pilot study on ammonical degradation of probiotic wastewater(N.Ashokk umaMTech project)	One year	TEQIP-III	10,000.00	10,000.00
treatment of industrial effluents by advanced oxidation process (PranayashriMTech project)	One year	TEQIP-III	10,000.00	10,000.00
bioagumentatiomn for composting of organic waste (monicaMTech project)	One year	TEQIP-III	10,000.00	10,000.00
extraction of microalgalpoyhydrox yalkanates (aksharaMTech project)	One year	TEQIP-III	20,000.00	10,000.00
Studies on Bio-Struvite formation for nutrient recovery from wastewater (HarshavardhanreddyM Tech project)	One year	TEQIP-III	10,000.00	10,000.00
Environmental impact assessment of ground water pollution of medichal using RS and GIS. (Pramod KumarMTech project)	One year	TEQIP-III	10,000.00	10,000.00
Cost effective treatment of pesticide intermediate	One year	TEQIP-III	10,000.00	10,000.00

industrial waste water and MEE distillate using fenton and distillation process (A.SinduMTech project)				
Isolation of ureolyticalkaliphilic bacteria and its application in bioconcrete (Manchukonda RakeshMTech project)	One year	TEQIP-III	10,000.00	10,000.00
Estimation and design concepts of MEP(Mechanical, Electrical and plumbing) in Ecofriendly commercial structures. (M.A.Rauf KhanMTech project)	One year	TEQIP-III	10,000.00	10,000.00
Ultrasonic flow meter and IOT (S.TanujaMTech project)	One year	TEQIP-III	10,000.00	10,000.00
Treatment of new leachate from municipal solid waste by using biological methods (V.ManeeshaM.Tech project)	One year	TEQIP-III	20,000.00	20,000.00
Enhancement of Energy recovery from sewage sludge (N.BharathM.Tech project)	One year	TEQIP-III	20,000.00	20,000.00
Impact of urbanization on ambient air quality of HMDA (P.HarishM.Tech Project)	One year	TEQIP-III	20,000.00	20,000.00
International Projects				
Any other(Specify)				
Total				
		Nano Science and Technolo		
Nature of the Project	Duration	Name of the	Total grant	Amount received

		funding Agency	sanctioned	during the year
Major project	2019-20	AICTE-TEQIP-III	4.5 Lakhs	4.5 Lakhs
Major project	2019-20	AICTE-TEQIP-III	6 Lakhs	6 Lakhs
Major project	2019-20	DST SERB Core Funded	41.84 Lakhs	41.84 Lakhs
Major project	2019-20	DST-SEED	44.07 Lakhs	44.07 Lakhs
Major project Major project	2019-20	AICTE MODROBS	10 Lakhs	10 Lakhs
Minor Project	2018-19	TEQIP-III	2 Lakhs	2 Lakhs
Minor Project	2019-20	TEQIP-III	2 Lakhs	2 Lakhs
Minor Project	2019-20	TEQIP-III	2 Lakhs	2 Lakhs
Minor Project	2018-19	TEQIP-III	2 Lakhs	2 Lakhs
Minor Project	2019-20	TEQIP-III	2 Lakhs	2 Lakhs
Minor Project	2019-20	TEQIP-III	2.5 Lakhs	2.5 Lakhs
ž.	2019-20	TEQIF-III	2.3 Lakiis	2.3 Lakiis
Interdisciplinary Projects	-	-	-	-
Industry sponsored	2018-19	Academic & Industrial	14.2 Lakhs	14.2 Lakhs
Projects	2018-19	Collaborative Project	14.2 Lakiis	14.2 Lakiis
Projects sponsored by		Agastya Agro Limited		
the University	-	-		
Students Research				
Projects				
(other than	-	-	-	-
compulsory by the				
University)				
International Projects	-	_	_	_
incinational injects				
Any other(Specify)	-	-	-	-
ě	-	-	- 133.11 Lakhs	- 133.11 Lakhs
Any other(Specify)	-	-		- 133.11 Lakhs
Any other(Specify)	- Centre	for Pharmaceutical Sciences		- 133.11 Lakhs
Any other(Specify)	- Centre	for Pharmaceutical Sciences Name of the		- 133.11 Lakhs Amount received
Any other(Specify) Total		Name of the	(CPS)	
Any other(Specify) Total		,	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects		Name of the funding Agency	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects Minor Projects		Name of the funding Agency Nil Nil	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects		Name of the funding Agency Nil	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects Minor Projects Interdisciplinary Projects Industry sponsored		Name of the funding Agency Nil Nil	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects Minor Projects Interdisciplinary Projects Industry sponsored Projects		Name of the funding Agency Nil Nil Nil Nil	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects Minor Projects Interdisciplinary Projects Industry sponsored Projects Projects sponsored by		Name of the funding Agency Nil Nil Nil	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects Minor Projects Interdisciplinary Projects Industry sponsored Projects Projects sponsored by the University		Name of the funding Agency Nil Nil Nil Nil Nil Nil	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects Minor Projects Interdisciplinary Projects Industry sponsored Projects Projects sponsored by the University Students Research		Name of the funding Agency Nil Nil Nil Nil	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects Minor Projects Interdisciplinary Projects Industry sponsored Projects Projects sponsored by the University Students Research Projects		Name of the funding Agency Nil Nil Nil Nil Nil Nil	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects Minor Projects Interdisciplinary Projects Industry sponsored Projects Projects sponsored by the University Students Research Projects (other than		Name of the funding Agency Nil Nil Nil Nil Nil Nil	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects Minor Projects Interdisciplinary Projects Industry sponsored Projects Projects sponsored by the University Students Research Projects (other than compulsory by the		Name of the funding Agency Nil Nil Nil Nil Nil Nil	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects Minor Projects Interdisciplinary Projects Industry sponsored Projects Projects sponsored by the University Students Research Projects (other than		Name of the funding Agency Nil Nil Nil Nil Nil Nil	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects Minor Projects Interdisciplinary Projects Industry sponsored Projects Projects sponsored by the University Students Research Projects (other than compulsory by the University)		Name of the funding Agency Nil Nil Nil Nil Nil Nil Nil Nil	(CPS) Total grant	Amount received
Any other(Specify) Total Nature of the Project Major projects Minor Projects Interdisciplinary Projects Industry sponsored Projects Projects sponsored by the University Students Research Projects (other than compulsory by the University) International Projects		Name of the funding Agency Nil	(CPS) Total grant	Amount received

	Centre for S	patial Information and Techno	logy (CSIT)	
Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects				
Minor Projects	02 years	TEQIP-III	Two lakhs	01 lakh
Interdisciplinary				
Projects				
Industry sponsored Projects				
Projects sponsored by the University				
Students Research Projects				
(other than				
compulsory by the				
University)				
International Projects				
Any other(Specify)				
Total				
<u> </u>	Ce	entre for Water Resources (CW)	R)	
Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects	2 Years	Earth Watch Institute India	39.9 Lakhs	17 lakhs
Minor Projects	2 Years	Eco-Wash	6.65 Lakhs	-
Minor Projects	2 Years	TEQIP-III	2.0 Lakhs	-
Minor Projects	2 Years	TEQIP-III	2.0 Lakhs	-
Minor Projects	2 Years	TEQIP-III	2.0 Lakhs	-
Minor Projects	2 Years	TEQIP-III	2.3 Lakhs	-
Interdisciplinary				
Projects				
Industry sponsored				
Projects				
Projects sponsored by				
the University				
Students Research				
Projects				
(other than				
compulsory by the				
University)				
International Projects				
Any other(Specify) Total				

3.3 Innovation Ecosystem		
3.3.1 Workshops/Seminars Conducted on Intellectual Property I	Rights (IPR) an	d Industry-Academia
Innovative practices during the CAY	Name of	
Title of Workshop/Seminar	the Dept.	Date(s)
Centre for Chemical Science & Tech		
	Centre for	
	Chemical	
Aller Charles I December 10 Inches	Sciences &	ooth Day 1 - 2010
Advances in Chemical Reactor Technologies	Technolog	06 th December,2019
	y, IST, JNTUH	
Centre for Environment (
Two weeks training programme on geospatial technologies and field	centre for	
visit	environme	10 th - 23 rd june 2019
	nt	,
one week training programme on EIA	centre for	19th-25th august 2019
one week training programme on ETA	environme	
Centre for Pharmaceutical Scie	nces (CPS)	
	()	
	Centre for	
Pharmaceutical Regulatory affairs and Intellectual Property	Pharmaceut	1-08-2019 to 14-08-2019
rights	ical	1 00 2017 to 11 00 2017
	sciences	
Centre for Spatial Information and Te	echnology (CST)	()
Wahinga an Adaman in Control 177 1 1 1	CSIT, IST,	05.06.2020
Webinar on Advances in Geo-spatial Technologies	JNTUH	05-06-2020
Centre for Biotechnology ((CBT)	
Centre for Nano Science and Techn	nology (CNST)	
Centre for Water Resources	(CWR)	
NIL		

	minovation won by i	nstitution/Teachers/Resea	ırch scholars/Stude	ents during the year
Title of the	Name of the	Awarding Agency	Date of Award	Category
innovation	Awardee			
	_	Centre for Environment (CEN)	
	Dr.A.Vamshi	Allinov Research &		
Best Researcher	Krishna Reddy	Development Pvt. Ltd.,	2019	
award - 2019	Krisima Reddy	(India)		Research
Dr.Rajendra Prasad Memorial Prize "Investigation into the Propensity of Coal for Spontaneous Heating in Stockpiles" Presented by The Institute of Engineers (India)	Dr. R. Ravi Varma,	The Institute of Engineers (India)T	Jan 2020	
Reasearch excellence award	G. Shankaraiah	Institute of scholars	March 2020	Academic Research
		Centre for Biotechnology	(CDI)	
	Centre for Centre for Centre Centre for S	r Chemical Science & Techor Nano Science and Techor Pharmaceutical Science and Techor Pharmaceutical Science Spatial Information and Techor Pharmaceutical Science Pharmaceutical Science Pharmaceutical Science Pharmaceutical Science Pharmaceutical	nnology (CCST) nology (CNST) ences (CPS) echnology (CSIT)	
NH	Centre for Centre for Centre for S	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te entre for Water Resources	mology (CCST) mology (CNST) ences (CPS) echnology (CSIT) (CWR)	NH
NIL	Centre for Centre for Centre Centre for S	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te	nnology (CCST) nology (CNST) ences (CPS) echnology (CSIT)	NIL
NIL	Centre for Centre for Centre for S	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te entre for Water Resources	mology (CCST) mology (CNST) ences (CPS) echnology (CSIT) (CWR)	NIL
	Centre for Centre for S	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te entre for Water Resources	nnology (CCST) nology (CNST) ences (CPS) echnology (CSIT) (CWR)	
3.3.3 No. of Incub	Centre for Centre for Centre for S	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te entre for Water Resources NIL /start-ups incubated on ca	ampus during the C	AY
	Centre for Centre for Sentre for Sentre for Sentre for Sentre centre created.	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te entre for Water Resources	ampus during the C	
3.3.3 No. of Incub	Centre for Centre for Sentre for Sentre for Sentre for Sentre centre created.	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te entre for Water Resources NIL	ampus during the C	AY
3.3.3 No. of Incub	Centre for Centre for Centre for Sentre for Sentre for Sentre created centre centre centre centre for Sentre f	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te entre for Water Resources NIL	mology (CCST) mology (CNST) ences (CPS) echnology (CSIT) (CWR) NIL mpus during the Composition of lab Dr. Reddy Laboratori	AY
3.3.3 No. of Incubation C	Centre for Centre for Sentre for Sentre for Sentre for Sentre created. Centre Centre Centre Centre Centre for Sentre for	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te entre for Water Resources NIL //start-ups incubated on ca Name r Chemical Science & Tech ed synthesis laboratory Centre for Biotechnology	mology (CCST) mology (CNST) ences (CPS) echnology (CSIT) (CWR) NIL mpus during the Composite of the Compos	Sponsored by oratories(PS3 laboratory, ys Laboratories, Mylan es, Hetero Drugs, MSN
3.3.3 No. of Incubation C	Centre for Centre for Sentre for Sentre for Sentre for Sentre created. Centre Centre created. Centre for Sentre for Sen	r Chemical Science & Tech or Nano Science and Tech or Pharmaceutical Scie Spatial Information and Te entre for Water Resources NIL /start-ups incubated on ca Name r Chemical Science & Tech ed synthesis laboratory Centre for Biotechnology (Centre for Environment (mology (CCST) mology (CNST) ences (CPS) echnology (CSIT) (CWR) NIL mpus during the Composite of the compos	Sponsored by oratories(PS3 laboratory, ys Laboratories, Mylan es, Hetero Drugs, MSN
3.3.3 No. of Incubation C	Centre for Centre for Centre for Section Centre created Centre Centre Centre Centre Centre Centre for Centre	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te entre for Water Resources NIL /start-ups incubated on ca Name r Chemical Science & Tech ed synthesis laboratory Centre for Biotechnology Centre for Environment (or Nano Science and Tech	mology (CCST) mology (CNST) ences (CPS) echnology (CSIT) (CWR) NIL mpus during the Composition of laboratoric Labs, Auro (CBT) mology (CNST)	Sponsored by oratories(PS3 laboratory, ys Laboratories, Mylan es, Hetero Drugs, MSN
3.3.3 No. of Incubation C	Centre for Centre for Sentre for Sentre for Sentre for Sentre Centre Centre Centre Centre Centre Centre Centre for Sentre for Sentre for Sentre for Sentre for Centre	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te entre for Water Resources NIL //start-ups incubated on ca Name r Chemical Science & Tech ed synthesis laboratory Centre for Biotechnology (Centre for Environment (or Nano Science and Tech re for Pharmaceutical Science Scienc	mology (CCST) mology (CNST) ences (CPS) echnology (CSIT) (CWR) NIL mpus during the Composition of laboratoric Labs, Auro (CBT) CEN) mology (CNST) ences (CPS)	Sponsored by oratories(PS3 laboratory, ys Laboratories, Mylan es, Hetero Drugs, MSN
3.3.3 No. of Incubation C	Centre for Centre for Sentre for	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te entre for Water Resources NIL //start-ups incubated on ca Name r Chemical Science & Tech ed synthesis laboratory Centre for Biotechnology (or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Tech spatial Information and Tech	mology (CCST) mology (CNST) ences (CPS) echnology (CSIT) (CWR) NIL mpus during the Composition of laboratoric Laboratoric Laboratoric Laboratoric CEN) mology (CNST) ences (CPS) echnology (CSIT)	Sponsored by oratories(PS3 laboratory, ys Laboratories, Mylan es, Hetero Drugs, MSN
3.3.3 No. of Incubation C	Centre for Centre for Sentre for	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te entre for Water Resources NIL //start-ups incubated on ca Name r Chemical Science & Tech ed synthesis laboratory Centre for Biotechnology (Centre for Environment (or Nano Science and Tech re for Pharmaceutical Science Scienc	mology (CCST) mology (CNST) ences (CPS) echnology (CSIT) (CWR) NIL mpus during the Composition of laboratoric Laboratoric Laboratoric Laboratoric CEN) mology (CNST) ences (CPS) echnology (CSIT)	Sponsored by oratories(PS3 laboratory, ys Laboratories, Mylan es, Hetero Drugs, MSN
3.3.3 No. of Incubation C	Centre for Centre for Centre for Service Centre for Service Centre for Centre for Centre for Centre for Centre for Service Cent	r Chemical Science & Tech or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Te entre for Water Resources NIL //start-ups incubated on ca Name r Chemical Science & Tech ed synthesis laboratory Centre for Biotechnology (or Nano Science and Tech re for Pharmaceutical Scie Spatial Information and Tech spatial Information and Tech	mology (CCST) mology (CNST) mology (CNST) mology (CSIT) mology (CSIT) mology (CCST) Group of lab Dr. Reddy Laboratori Labs, Auro (CBT) CEN) mology (CNST) mology (CNST) mology (CSIT) (CWR) NIL	Sponsored by oratories(PS3 laboratory, ys Laboratories, Mylan es, Hetero Drugs, MSN

	Centre for Chemical Sc	rience & Technolog	y (CCST)
Ps3 laboratories	Organic synt	hesis	November 2017
	Centre for E	nvironment (CEN)	
MSME		Treatment of wastewater using movable electrochemical reactor 2018-2019	
3.4 Research Publicati	one and Awards		
3.4.1 Ph. Ds awarded du			
	ne of the Department		No. of Ph. Ds Awarded
	re for Biotechnology		22
	nemical Science & Technology	y	15
	tre for Environment		6
	r Pharmaceutical sciences		44
Centro	e for Water Resources		01
3.4.2 Research Publicat	ions in the Journals notified	on UGC website	during the CAY
1000000000000000000000000000000000			Average Impact Factor, if
	Department	No. of Publicat	
International	Centre for Biotechnology	19	2
International	Centre for Chemical Science & Technology	22	4.2
International	Centre for Environment	28	2.66
International	Centre for Nano science and Technology	15	2.0178
National	Centre for Pharmaceutical sciences	02	
International	Centre for Pharmaceutical sciences	35	_
National	Centre for Spatial Information and Technology	01	2.05
National	Centre for Water Resources	1	
	~ ^ ~ ~ ~	i e	1

6

5.045

Centre for Water

Resources

International

3.4.3 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the CAY

Department	No. of publication
CENTRE FOR BIOTECHNOLOGY	1 (Book chapter)
Centre for Chemical Science & Technology	02 (Books)
Centre for environment	International conference publications 4
Centre for Nanoscience and Technology	03
Centre for Water resources	National-21 International-5

3.4.4 Patents published/awarded during the CAY

	Patent status	Patent	
Patent Details	Published/Filed	Number	Date of Award
Centre for Biotechnology (CBT) Ch.Sathvika and	Published/ PCT International Search report declared that the	PCT/IN2020 /050142	01-06-2020
Dr.M.Lakshmi Narasu Isolation and characterization of anticancer compound from Sesuvium portulacastrum (L.) L.201941007336 (IN)	invention is new, it involves an inventive step and is capable for industrial application		

3.4.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/Web of Science or PubMed/ Indian Citation Index

		Centre for Biotech	nology			
Title of the paper	Name of the author	Title of the journal	Year of publication	Citati on Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Synthesis, structural and antimicrobial studies of half-sandwich ruthenium, rhodium and iridium complexes containing nitrogen donor Schiff-	Agreeda Lapasam, Venkanna Banothu, Uma Addepally, Mohan Rao Kollipara	Journal of Molecular Structure,	Sep 2019	0		0
Surface modification and non-covalent functionalization of single- walled carbon nanotubes and their characterization (IF- 1.81)	K. Naga Lalitha , G. Krishna Mohan and A. Uma,	International Journal of Pharmaceutical Sciences and Research	aug 2019	0		0
Variable structural bonding modes and antibacterial studies of thio semi carbazone ligands of ruthenium, rhodium, and iridium metal complexes,	Lathewdeipor Shadap, Venkanna Banothu, Uma Adepally, Sanjay Adhikari, Mohan Rao Kollipara	Journal of Coordination Chemistry	2019	0		0
Investigation of Mode of Action of Anti Bacterial Activity of Salacia Oblonga Extract Against Drug Resistant Pathogen	Anjaneyulu Musini and Archana Giri	Brazilian Archives of Biology and Technology	2019	0	JNTUH	0
Response surface optimization of in vitro culture medium for enhanced production of the therapeutically important secondary metabolite — withaferin a.	Sukanya M S and Archana Giri	British Journal of Pharmaceutical and Medical Research	2019	0	JNTUH	0

Production of Therapeutically Valuable Withaferin A From In Vitro Propagated Withania Somnifera (L.) Dunal		International Journal of Scientific Research in Biological Sciences	2020	0	JNTUH	0
Influence of paper industry effluents on soil cellulose and amylase activity	Lavuida Saida ans K venkateshwa reddy	Asian journal of microbiology and biotechnology	2019	0	JNTUH	0
Composting of Sweet Sorghum Bagasse and its Impact on Plant Growth Promotion.	Subramaniam Gopalakrishna n, Vadlamudi Srinivas, Ashok Kumar, Akula V. Umakanth, Uma Addepally, Pinnamaneni Srinivasa Rao,	Sugar Tech	Jan-Feb 2020	0		0
Development of transgenic cotton (Narasimha) using triple gene Cry2Ab-Cry1F-Cry1Ac construct conferring resistance to lepidopteran pest	Sumalatha katta, Ashwini talakayala, Malireddy k reddy, Uma addepally, Mallikarjuna garladinne;	Journal of bioscience	2020	0	JNTUH	0
Discovery of novel pyrido-pyrrolidine hybrid compounds as alphaglucosidase inhibitors and alternative agent for control of type 1 Diabetes;	Tania Luthra, Venkanna Banothu, Uma Adepally, Krishna Kumar, Swathi M, Saikat Chakrabarti, Srinivas R. Maddi d, Subhabrata Sen;	European Journal of Medicinal Chemistry	2020	0	JNTUH	0

Evaluation of ethanol fermentation efficiency of sweet sorghum syrups produced by integrate d dual-membrane system	Yerra Kanakaraju, Addepally Uma, Vani Gandham, Kiran Kumari Palety, S. Sridhar, A. V. Umakanth;	Bioprocess and Biosystems Engineering	2020	0	JNTUH	0
In vitro biological evaluation of half-sandwich platinum-group metal complexes containing benzothiazole moiety.	Lathewdeipo r Shadap, Venkanna Banothu, Emma Pinder, Roger M Phillips, Werner Kaminsky & Mohan Rao Kollipara.	Journal of Coordination Chemistry	2020	0	JNTUH	0
Assembly of benzothiazine and triazole in a single molecular entity: Synthesis of -oxicam derived novel molecules as potential antibacterial / anti-cancer agents.	P. Neeraja, S. Srinivas, Ven kanna Banothu, B. Sridhar, K. Mukkanti, Pr amod Kumar Dubey& Sarbani Pal.	Mini-Reviews in Medicinal Chemistry	2020	1	JNTUH	1
Synthesis of half sandwich platinum group metal complexes containing pyridyl benzothiazole hydrazones: Study of bonding modes and antimicrobial activity.	Lincoln Dkhar, Venkanna Banothu, Werner Kaminsky & Mohan Rao Kollipara.	Journal of Organometallic Chemistry	2020	1	JNTUH	1
Fluorenone Schiff base derivative complexes of ruthenium, rhodium and iridium exhibiting efficient antibacterial	Mohan Rao Kollipara, Latewdeipor Shadap, Venkanna	Journal of Organometallic Chemistry	2020	0	JNTUH	0

activity and DNA-binding affinity.	Banothu, Nipanshu Agarwal & Krishna Mohan Poluri.					
Design and synthesis of oxaprozin-1,3,4-oxadiaz ole hybrids as potential anticancer and antibacterial agents.	Parsharamul u Rayam, Naveen Polkam, Naveen Kuntala, Venkanna Banothu, Hasitha Shilpa Anantaraju, Yogeeswari Perumal, Sridhar Balasubrama nian & Jaya Shree Anireddy.	Journal of Heterocyclic Chemistry	2020	0	JNTUH	0
Enhanced photocatalytic and antibacterial activity of ZnO/Ag nanostructure synthesized by Tamarindus indica pulp extract.	Dayakar Thatikayala, Venkanna Banothu, Jisoo Kim, Dong Su Shin, S Vijayalaksh mi & Jinsub Park.	Journal of Materials Science: Materials in Electronics.		0	JNTUH	0
Half-sandwich arene ruthenium, rhodium and iridium thiosemicarbazone complexes: synthesis, characterization and biological evaluation	Agreeda Lapasam, Venkanna Banothu, Uma Addepally & Mohan Rao Kollipara.	Journal of Chemical Science	2020	1	JNTUH	1

Ruthenium, rhodium and iridium complexes containing pyrimidine based thienyl pyrazoles: Synthesis and antibacterial studies.	Agreeda Lapasam, Lbaniewkor L. Mawnai, Venkanna Banothu, Werner Kaminsky & Mohan Rao Kollipara.	Journal of Organometallic Chemistry	2020	0	JNTUH	0
	Centre 1	for Chemical Science	ce & Technolog	gy		L
Title of the paper	Name of the author	Title of the journal	Year of publication	Citati on Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Cross-dehydrogenative C(sp3)-C(sp3) coupling via C-H activation using magnetically retrievable ruthenium-based photoredox nanocatalyst under aerobic conditions	Prof. A. Jaya Shree	Chemistry Communications (Camb) 2019 20;55 (51):7402-7405.	2019		Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.	
Design synthesis and evaluation of 4H-Chromene-4-one analogues as potential Anti-bacterial and Antifungal agents	Prof. A. Jaya Shree	Chemistry. Biology Letter.	2019		Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.	
Hunig's base catalyzed synthesis of new 1-(2, 3-dihydro-1H-inden-1-yl)-3-aryl urea/thiourea derivatives as potent antioxidants and 2HCK enzyme growth inhibitors	Prof. A. Jaya Shree	Bioorganic Chemistry, 103558	2019		Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.	
QbD-based development of an extraction procedure for simultaneous quantification of telmisartan, amlodipine	Prof. A. Jaya Shree	Biomedical Chromatography	2019		Centre for Chemical Sciences &Technology, Institute of	

besylate and chlorthalidone in combination complex matrix formulation Development of a Novel and Scalable Process for the Synthesis of a Key Cangrelor Intermediate	Prof. A. Jaya Shree	Organic Preparations and Procedures International 51 (6), 530-536	2019	Science and Technology, JNTUH. Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.
Design and synthesis of oxaprozin-1,3,4-oxadiazole hybridsas potential anticancer and antibacterial agents	Prof. A. Jaya Shree	Journal of Heterocyclic Chemistry2019 DOI: 10.1002/jhet.384 2	2019	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.
Stereoselective Synthesis for Potential Isomers of Ticagrelor Key Starting Material	Prof. A. Jaya Shree	Journal of Heterocyclic Chemistry 56 (10), 2866-2872	2019	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.
ZnO Nanocatalyst Mediated Convergent Synthesis of Highly Substituted Imidazole and Imidazole-derived Bi-heterocyclic Scaffolds as Potential Antibacterial Agents	Prof. A. Jaya Shree	Journal of Heterocyclic Chemistry 56 (9), 2398-2410	2019	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.
Novel 7-substituted Fluoroquinolone Citrate Conjugates as Powerful Antibacterial and Anticancer Agents:	Prof. A. Jaya Shree	Current Organic Chemistry 23 (18), 1992-2003	2019	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.

A . 1	D C A T	T 1.0	2010	
A study on structural characterization of degradation products of cangrelor using LC/QTOF/MS/MS and NMR	Prof. A. Jaya Shree	Journal of pharmaceutical and biomedical analysis	2019	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.
Synthesis of new heteroaryl substituted morpholinetagged triazines and evaluation of their cytotoxic activity,	Prof. A. Jaya Shree	Letters in Drug Design & Design & Discovery,	2019	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.
Synthesis, X-ray crystal structure, Hirshfeld surface analysis, DFT, MESP and molecular docking studies of 2-(4-bromophenyl)-1-(3-fluoro-4-methylphenyl)-4, 5-diphenyl-1H-imidazole	Prof. A. Jaya Shree	Chemical Data Collections	2019	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.
Design, Synthesis, and Antimicrobial Activity of Novel 6-Oxopyrimidin- 1(6H)-yl Benzamide Derivatives	Prof. A. Jaya Shree	Russian Journal of General Chemistry	2019	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.
Development of a Simple, Highly Selective RP-LC Method for the Quantification of Diastereomers and Other Related Substances of Ezetimibe Using Multivariate Analysis	Prof. A. Jaya Shree	Journal of Chromatographic Science 57(1), 71– 80	2019	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH
Synthesis, Docking, and Bioavailability of 2' - Oxo - 3 - phenylspiro[cyclopropane-1,3 '-indoline]-2,2-dicarbonitriles as Antibacterial Agents In	Prof. A. Jaya Shree	Journal of Heterocyclic Chemistry 56, 209- 217.	2019	Centre for Chemical Sciences & Technology, Institute of Science and

Silico				Technology, JNTUH.
Synthesis and Biological Evaluation of New Ibuprofen-1, 3, 4-oxadiazole-1, 2, 3-triazole Hybrids	Prof. A. Jaya Shree	Journal of Heterocyclic Chemistry 56, 296- 305.	2019	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.
Synthesis of Novel Diaziridinyl Quinone Isoxazole Hybrids and Evaluation of Their Anti- Cancer Activity as Potential Tubulin- Targeting Agents	Prof. A. Jaya Shree	Drug Res (Stuttg), 69(07), 406-414	2019	Centre for Chemical Sciences & Technology, Institute of Science and Technology,
Cross-dehydrogenative C (sp3)-C (sp3) coupling via CH activation using magnetically retrievable ruthenium-based photoredox nanocatalyst under aerobic conditions	Prof. A. Jaya Shree	Chemical Communications	2019	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.
Design synthesis and evaluation of 4H Chromene- 4-one analogues as potential Anti-bacterial and Anti- fungal agents	Prof. A. Jaya Shree	Chemical Biology Letters	2020	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.
Hunigs base catalyzed synthesis of new 1-(2,3-dihyro-1H-inden-1-yl)-3-aryl urea/thioureaderivaties as potent antioxidants and 2HCK enzyme groth inhibitors	Prof. A. Jaya Shree	Bioorganic Chemistry	2020	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH
Design, synthesis and evaluation of 4H-Chromene- 4-one analogues as potential Anti-bacterial and Anti-	Prof. A. Jaya Shree	Chemical Biology Letters	2020	Centre for Chemical Sciences & Technology, Institute of

fungal agents					Science and Technology, JNTUH	
A study on structural characterization of degradation produts of cangrel or using LC/QTOF/MS/MS and NMR	Prof. A. Jaya Shree	Journal of Pharmaceutical and Biomedical Analysis	2020		Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH	
synthesis Docking and Bioavailabilty of 20-oxo-3- phenylspiro [cyclopropane- 1,30-indoline]-2, dicarbonitrileas antibacterial agents on silico	Prof. A. Jaya Shree	Journal of Heterocyclic Chemistry	2020		Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH	
	Co	entre for Environm	ent (CEN)			
Title of the paper	Name of the author	Title of the journal	Year of publication	Citati on Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Phycoremediation of sewage contaminated lake water using mircoalgae bacteria co-culture	kavithavarma, kirankumar,s. vijayakrishna, V.Himabindu	water, air and soil pollution (accepted May 2020) ISSN: 1573-2932	2020 (IF1.79)	0		0
Gimesiachilikensis sp. nov., a haloalkalitolerantplanctom ycetes isolated from Chilika lagoon and emended description of the genus Gimesia	Dhanesh Kumar; Kumar Gaurav; Sreya PK; Shabbir A; Jagadeeshwari U; SasikalaChand RamanaCh.V	Int. J. Syst. Evol. Microbiol. (in press)	2020 [IF=2.166]	0		0
Roseimaritimasediminicol a sp.nov., a new member in Planctomycetaceae	Dhanesh Kumar., Gaur av, K.,	Int. J. Syst. Evol. Microbiol. (in press)	2020 [IF=2.166]	0		0

isolated from Chilika lagoon. Int J SystEvolMicrobiol. (Under revision)	Deepshikha, K, Jagadeeshwari , U, Sasikala, Ch. And Ramana, Ch.V				
Paracoccusaeridae sp. nov., an indole producing bacterium isolated from the rhizosphere of an orchid, Aeridesmaculosa	Anusha Rai; Smita N; Suresh G; Shabbir A; Deepshikha G; SasikalaCh; RamanaCh.V.	Int. J. Syst. Evol. Microbiol. (in press) (In press doi:10.1099/ijse m.0.003962)	2020 [IF=2.166]	0	0
Taxogenomics resolved the conflict of the genus <i>Rhodobacter</i> : A two and half decades pending thought to reclassify the genus <i>Rhodobacter</i>	Indu, Sasikala, Ch and Ramana, Ch. V.	Frontiers in Microbiology 10:2480. doi:10.3389/fmic b.2019.02480	2020 (IF=4.259)	4	4
Rhodobactersediminicola sp. nov., isolated from a fresh water pond of Gujarat	G Suresh, Dhanesh Kumar, A Krishnaiah, SasikalaCh	International Journal of Systematic and Evolutionary Microbiology 70(2):1294-1299 ISSN: 14665026,	2020 (IF:2.166)		
Rhodomicrobium lacus sp. nov., an alkalitolerent bacterium isolated from Umiam lake, Shillong, India	G Suresh, Dhanesh Kumar, Jagadeeshwari Uppada, SasikalaCh	International Journal of Systematic and Evolutionary Microbiology 70(1):662-667 ISSN: 14665026,	2020 (IF:2.166)		
Afifellaaestuarii, sp. nov., a novel phototrophic bacterium isolated from rhizosphere soil of a xerophytes.	SailajaBuddhi, G Suresh, Deepshikha Gupta, SasikalaCh	Int. J. Syst. Evol. Microbiol. (In Press; doi:10.1099/ijse m.0.003756)	2019 [IF=2.166]	0	0

Chryseobacteriumcandidae sp. nov., isolated from a yeast (Candida tropicalis) Geospatial Technology for	B Indu, G Kumar, N Smita, A Shabbir, SasikalaCh	Int. J. Syst. Evol. Microbiol. (In Press; doi:10.1099/ijse m.0.003716) Modeling Earth	2020 [IF=2.166].	0	0
mapping and analysis of social and infrastructural facilities at village level: a case study of Chinnapendyala village	T.Vijayalaksh mi	Systems and Environment (accepted April 2020) ISSN: 2363-6211	(IF:0.83)		
Hydrogen production by PEM water electrolysis- A Review	S. Shiva Kumar, V.Himabindu,	Materials for energy Technologies, 2(3), 442-454, ISSN: 2589-2991 https://doi.org/10 _1016/j.mset.201 9.03.002	2019	69	69
Emerging contaminant (Triclosan) identification and its treatment - A Review,	ShrutiJagini, Srilatha Konda, Bhagawan D, V.Himabindu	SN Applied Sciences, 1:640, ISSN: 2523- 3971. https://doi.org/10 .1007/s42452- 019-0634-x	2019	2	2
Fluoride removal from Groundwater using cylindrical electrocoagulation reactor,	Bhagawan.D, Saritha.P, Shankaraiah.G , Himabindu.V	Journal of Water Chemistry and Technology, Vol. 41, No. 3, pp. 164–169, ISSN: 1934-936X.	2019 (IF.0.504)	1	1
Biomass Production from Microalgae Chlorella grown in Sewage, Kitchen Wastewater using Industrial CO2 emissions: Comparative study.	P.Kiran Kumar, Vijayakrishna S, S.Swaminaidu , Bhagawan D, Kavitaverma, Himabindu V	Carbon Resources Conversion, 2, 126–133, ISSN: 2588-9133	2019	6	6

Enhancement of Biohydrogen production from Distillery Spent Wash Effluent Using Electro-Coagulation Process,	Vijaya Krishna S, Kiran Kumar P, KavitaVerma, Bhagawan D, Himabindu V, Lakshmi Narasu M, Radhika Singh,	Energy, Ecology and Environment, ISSN: 2363- 7692, DOI: 10.1007/s40974- 019-00122-9.	2019		
Effect of biohythane production from distillery spent wash with addition of landfill leachate and sewage wastewater,	Vijaya Krishna Saranga, Kiran Kumar P, KavitaVerma, Bhagawan D, Himabindu.V , Lakshmi Narasu M,	Applied Biochemistry and Biotechnology, ISSN: 0273- 2289.https://doi. org/10.1007/s12 010-019-03087- x.	2019 (IF:2.14)	1	1
Performance evaluation of different advanced processes for treating chloro pesticide intermediate industrial wastewater	Srilatha K, Bhagawan D, Shankaraiah G, Kiran Kumar P, Himabindu V*, Srinivasulu S,	Sustainable Water Resources Management, 5,1833–1846, ISSN: 2363- 5045 https://doi.o rg/10.1007/s4089 9-019-00336-z	2019		
Boron-doped carbon nanoparticles supported palladium as an efficient hydrogen evolution electrode in PEM water electrolysis	S.Shiva Kumar, V.Himabindu,	Renewable Energy, 146, 2281-2290 ISSN: 0960-1481 https://doi.org/10 .1016/j.renene.20 19.08.068	2019 (IF:5.439)	3	3

Assessment of Natural Radioactivity in Soils around the Proposed Uranium Mining Site of Lambapur—Peddagattu and Seripally, India	T Raghavendra, K Vishwaprasad, G Kalyani, T Vijayalakshmi, V Himabindu, J Arunachalam, P Padmasavithri, Vinod Kumar, RM Tripathi	ournal of the Geological Society of India	2019	1	1
Risk assessment due to intake of trace metals through the ingestion of groundwater around proposed uranium mining areas of Nalgonda district, Telangana, India	T Raghavendra, SUB Ramakrishna, D Srinivasulu, T Vijayalakshmi , V Himabindu, J Arunachalam	Applied Water Science (2020) 10:9 https://doi.org/10 .1007/s13201- 019-1089-3	2019 (IF:0.82)		
Pyrolysis of Garden Waste: Comparative Study of Leucaenaleucocephala (Subabul Leaves) and Azadirachtaindica (Ne em Leaves) Wastes	K Srilatha, D Bhagawan, V Himabindu	Waste Valorisation and Recycling, 293- 306, DOI: 10.1007/978- 981-13-2784- 1_28	2019 (IF:2.358)		
Precursor-feeding and altered-growth conditions reveal novel blue pigment production by Rubrivivaxbenzoatilytic us JA2	Lakshmi PrasunaMekal a, Mujahid Mohammed, SasikalaChint alapati, VenkataRama naChintalapati	Biotechnology letters 41:813–822	2019 (IF: 1.846)		
Phylogenetic diversity of sulfate-reducing bacteria of sediments of Chilika Lake, India, determined	Sri SasiJyothsnaT adinada, Rahul Kamidi,	3 Biotech, 9:134, https://doi.org/10 .1007/s13205-	2019 (IF: 2.351)		

through analysis of the dissimilatory sulfite reductase (dsr AB) gene	Saikat Dutta, SasikalaChint alapati, VenkataRama naChintalapati	019-1655-2			
Transcriptome analysis of hopanoiddeficient mutant of Rhodopseuodomonaspalus tris TIE-1	Tushar D Lodha, B Indu, SasikalaCh	Microbiological research, <u>218</u> , 108-117 https://doi.org/10 _1016/j.micres.20 _18.10.009	(3.701)		
New insights into aniline toxicity: Aniline exposure triggers envelope stress and extracellular polymeric substance formation in Rubrivivaxbenzoatilyticus JA2.	Chintalapati VR Mohammed M, Mekala LP, Chintalapati S	Journal of Hazardous Materials Materia ls385121571 Epu b 2019 Nov 3. (In Press DOI: 10.1016/j.jhazma t.2019.121571)	2019 (IF:7.650)	1	1
Emerging Concepts in Bacterial Taxonomy	Anusha Rai, N Smita, G Deepshikha, K Gaurav, K Dhanesh, G Suresh, ChSasikala, Ch V Ramana	Microbial Diversity in Ecosystem Sustainability and Biotechnological Applications, 3- 22 DOI: 10.1007/97 8-981-13-8315- 1_1	2019		
iTRAQ-based quantitative proteomics reveals insights into metabolic and molecular responses of glucose-grown cells of Rubrivivaxbenzoatilyticus JA2	Deepshikha Gupta, Mujahid Mohammed, Lakshmi PrasunaMekal a, SasikalaChint alapati, VenkataRama naChintalapati	Journal of proteomics 194:49-59. doi: 10.1016/j.jprot.2 018.12.027 DOI: 10.1016/j.j prot.2018.12.027	2019 (IF:3.53)		
Pyomelanin production: Insights into the incomplete aerobic l-	VenkataRama naChinthalapa tia Lakshmi	International Journal of Biological	2019 (IF:4.78)		

phenylalanine catabolism of a photosynthetic bacterium, Rubrivivaxbenzoatilyticus JA2		Macromolecules 126:755-764. doi: 10.1016/j.ijbioma c.2018.12.142. Nano Science and T				
Title of the paper	Name of the author	Title of the journal	Year of publication	Citati on Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Effects of deposition temperatures and substrates on microstructure and optical properties of sputtered CCTO thin film	Mohsen Ahmadipour, Wei KianCheah, MohdFadzil Ain, Kalagadda Venkateswar a Rao, ZainalArifin Ahmad	Materials Letters	2018	16	School of Materials and Mineral Resources Engineering, UniversitiSai ns Malaysia, Engineering Campus, 14300 NibongTebal , Penang, Malaysia Center for Nanoscience and Technology, Institute of Science and Technology, Jawaharlal Nehru Technologica 1 University Hyderabad, Telangana 500085, India	
Effect of Few-Layered Graphene-Based CdONanocomposite- Enhanced Power	SatishBykka m, BikshaluKala gadda,	Journal of Electronic Materials	2018	2	Nano Electronic Laboratory, Centre for	-

Conversion Efficiency	Venkateswar				Nanoscience
of Dye-Sensitized Solar	a Rao				and
Cell	Kalagadda,				Technology,
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Nanostructured	B Geeta, K	Journal of	2018	8	Center -
conducting polyaniline	Bikshalu, V	Materials			for Nanoscie
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Room temperature LPG resistive sensor based on the use of a few-layer graphene/SnO ₂ nanocom posite	SolletiGouth am, SatishBykka m, Kishor Kumar Sadasivuni, DevaraiSanth osh Kumar, Mohsen Ahmadipour, ZainalArifin Ahmad, Kalagadda Venkateswar a Rao	MicrochimicaA cta	2018	∞	Nano Electronics Laboratory, Centre for Nano Science and Technology, JNT University Hyderabad, Kukatpally, Hyderabad, Telangana 500085, India 2 Department of Mechanical and Industrial Engineering, Qatar University, P.O. Box 2713, Doha, Qata	
Flexible ultra-sensitive	SolletiGouth	RSC advances	2018	4	Nano	-
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Biogenic synthesis,		Letters	2018	10	Nanoscience -
characterization, acute	Jayarambabu , K	Letters			and
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Non-enzymatic sensing	dayakar T	Biosensors and	2018	24	Center for	-
of glucose using screen-	venkateswara	Bioelectronics			Nanoscience	
<u>printed electrode</u>	raokalagadda				and	
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Novel synthesis and	T Dayakar,	Applied Surface	2018	10	Center for	-
characterization of Ag@	M	Science			Nanoscience	
TiO2 core shell	Vinodkumar,				and	
nanostructure for non-	K Bikshalu,				Technology,	
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Synthesis and Study of	V Kumar, K	Journal of	2018	-	-	-
<u>Ultrasonic Parameters of</u>	Venkateswar	Nanofluids				
MgO-Ethylene Glycol	a Rao					
<u>Nanofluids</u>						
Non-enzymatic	V. Sai	Materials	2018	7	-	
biosensing of glucose	kumara	Chemistry and				
based on silver	Dayakar. T,	Physics				
nanoparticles	Venkateswar	,				
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extract and silver nitrate	Kishor					
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A smart LPG sensor	SukhpreetKa	Journal of	2018	6	1Department -	
based on chemo-bio	ur, Jagpreet	Materials			of Nanotechn	
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Peptide-Based ⁶⁸ Ga-PET	Ravindra A	Molecular	2018	18	Russell H	
Radiotracer for Imaging	De Silva,	pharmaceutics			Morgan	
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Biosynthesis, characterization and acute oral toxicity studies of synthesized iron oxide nanoparticles using ethanolic extract of Centellaasiatica plant	Shanker K. Lakshmi PravallikaPo ka, Krishna Mohan G, Venkateswar a Rao K	Materials Letters	2018	9	Centre for Pharmaceutic al Sciences &2Centre for Nano Science and Technology, IST, JNTUH, Hyderabad, India
Silver nanoparticle synthesis from carica papaya and virtual screening for anti- dengue activity using molecular docking	Sathiyapriya Renganathan , Vincent Aroulmoji, GnanendraSh anmugam, GeethaDevar ajan, Kalagadda Venkateswar a Rao, VangaRajend ar, Si-Hyun Park	Materials Research Express	2018	3	Department of Physics, Mahendra Engineering College, Mahendhirap uri, Mallasamudr am —637 503, Namakkal District, Tamil Nadu, India 2 Centre for Research and Development , Mahendra Educational Institutions, Mallasamudr am— 637503, Namakkal District, Tamil Nadu, India 3

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Role of laminate fracture	P Rama	Procedia	2019	-	Armour	-
energy on ballistic	Subba	Structural			Division,	
performance of glass	Reddy, T	Integrity			Defence	
composite laminates	Sreekantha				Metallurgical	
•	Reddy, K				Research	
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	G Seshagiri				Hyderabad-	
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Resistive room	SolletiGouth	MicrochimicaA	2019	5	Nano	-
temperature LPG sensor	am,	cta			Electronics	
based on a	NaradalaJaya				Laboratory,	
graphene/CdOnanocomp	rambabu,				Centre for	
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Conductive	Shubham	Materials	2019	7	Engineering, IIT- Hyderabad, Kandi, Hyderabad, Telangana 502285, Ind	_
PolyanilineNanosheets (CPANINS) for a non- enzymatic glucose sensor	Shubham Sharma K.Venkatesw ara Rao SaraswathiK ailasaB.Geet aaN, Jayarambabu R.Kiran Kumar Reddy	Letters	2019		Nanoscience and Technology, Institute of Science and Technology, Jawaharlal Nehru Technologica I University Hyderabad, Telangana State, 500085, India. 2CSIR-Central Leather Research Institute, Regional Centre for Extension and Development , India	

Biosynthesis of Ag@	T Dayakar,	Journal of	2019	1	Center	-
CuO core-shell	K	Materials			for Nanoscie	
nanostructures for non-	Venkateswar	Science:			nce	
enzymatic glucose	a Rao, Jinsub	Materials in			and Technol	
sensing using screen-	Park,	Electronics			ogy, Institute	
printed electrode	Potharaju				of Science	
	Krishna, P				and Technol	
	Swaroopa,				ogy,	
	YuexingJi				Jawaharlal	
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Structural,	CH Shilpa	CH Shilpa	2019	1	1Centre for	-
Antimicrobial and	Chakra,	Chakra,			Nano	
<u>Electrochemical</u>	SrikanthMate	SrikanthMateti			Science and	
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Cu/TiO ₂ Nanocomposite					Institute of	
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Adsorption Studies And	CS Chakra,	Digest Journal	2019	_	aCentre for	_
Fluoride Removal From	VS Kumar, S	Of	2017	_	Nano	_
		Nanomaterials			Science and	
Aqueous Solutions By	Madhuri, P					
Graphene Oxide-Zinc	Anusha, TR	And			Technology,	
Oxide Nanocomposite	Kumar,	Biostructures			Institute of	
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Title of the paper	Name of the author	Title of the journal	Year of publication	Citati on Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
In Vitro Assessment of Antioxidant Activity, Total Phenolic and Flavonoid Content for Various Extracts of Caesalpiniapulcherrima (L.)	Y. Anusha, A. Niranjan Kumar, J. Kotesh Kumar, KVNS. Srinivas, A. Srivani, G. Krishna Mohan	International Journal of Pharmacy and Biological Sciences	2019	702(O verall)	Centre for Pharmaceutical sciences, IST, JNTUH	702(Overall)
Surface modification and non-covalent functionalization of single- walled carbon nanotubes and their characterization	K. Naga Lalitha , G. Krishna Mohan and A. Uma	International Journal of Pharmaceutical Sciences and Research	2019	397(O verall)	Centre for Pharmaceutical sciences, IST, JNTUH	397 (Overall)
Design and Synthesis of Indole Pyrimidine Scaffolds as Potential KSP Inhibitors and Anticancer Agents	Radhika Chelamalla, AjithaMakula	Current Enzyme Inhibition.	2019		Centre for Pharmaceutical sciences, IST, JNTUH	
Neuroprotective Effect Of Citrullus Lanatus Seed Extracts On Cerebral Ischemic Reperfusion Injury Induced Cognitive Impairment And Oxidative Stress	Girija Pashikanti1, Makula Ajitha2, Goverdhan Puchchakayal a.	International Journal of Pharmacy and Pharmaceutical Sciences	2019		Centre for Pharmaceutical sciences, IST, JNTUH	
Study To Find The Best Extraction Solvent For Use	GirijaPashikan ti 1, MakulaAjitha	Journal of Scientific Research in	2019		Centre for Pharmaceutical sciences, IST,	

With Cucumber Peel (Cucumis Sativus) For High Neuroprotective Activity In Cognitive Impaired Rats	2, GoverdhanPuc hchakayala	Pharmacy		JNTUH
Neuroprotective Effect Of Various Phytochemicals And Its Potential Application Of Three Medicinal Plants In Neurodegenerative Diseases	GirijaPashikan ti , MakulaAjitha , GoverdhanPuc hchakayala	Journal of Pharma Research	2019	Centre for Pharmaceutical sciences, IST, JNTUH
Formulation and in Vivo Evaluation of Sulfasalazine Tablets for Colon Targeting Using Design of Experiment	Mohd. Rawoof *1, 2, K. Rajnarayana1, M. Ajitha	Am. J. PharmTech Res	2019	Centre for Pharmaceutical sciences, IST, JNTUH
Development and In Vivo Evaluation of Mesalazine Colon Targeted Tablets	MD Rawoof 1, 2, K. Rajnarayana1 and M. Ajitha	Int J Pharm Sci Nanotech	2019	Centre for Pharmaceutical sciences, IST, JNTUH
Transdermal delivery of fluvastatin loaded nanoemulsion gel: Preparation, characterization and in vivo anti-osteoporosis activity	Ramandeep Kaur, M Ajitha	European Journal of Pharmaceutical Sciences	2019	Centre for Pharmaceutical sciences, IST, JNTUH
Formulation of transdermal nanoemulsion gel drug delivery system of lovastatin and its in vivo characterization in glucocorticoid induced osteoporosis rat model	Ramandeep Kaur, MakulaAjitha	Journal of Drug Delivery Science and Technology	2019	Centre for Pharmaceutical sciences, IST, JNTUH
Effect of lovastatin nano drug delivery system on bone mineral density	Ramandeep Kaur, MakulaAjitha	International Journal of Pharmacy and Pharmaceutical	2019	Centre for Pharmaceutical sciences, IST, JNTUH

(BMD) and		Sciences		
biomechanical properties				
of tibia bones of wistar rats				
Method development and validation of vortioxetine hydrobromide by RP-HPLC,	J.Ravali, S.Shobha rani, P.Venkata Praveen Kumar,	International Journal Of research and analytical Reviews	2019	Centre for Pharmaceutical sciences, IST, JNTUH
Method Development and validation of related substances in felodipine extended release tablets by RP-HPLC	P.KavyaRao,S .ShobhaRani, K.S.L.Harika,	International Journal Of research and analytical Reviews	2019	Centre for Pharmaceutical sciences, IST, JNTUH
Method Development and validation of dissolution of obeticholic acid tablets by RP-HPLC	C. Mounica,S.Sh obhaRani,B. Naga Malleshwari	International journal of Pharma and Bio sciences	2019	Centre for Pharmaceutical sciences, IST, JNTUH
Method development and validation of Quantifying related substances in paracetamol and mefenamic acid GFOS by RP-HPLC	S Shobha Rani	International Journal Of research and analytical Reviews	2019	Centre for Pharmaceutical sciences, IST, JNTUH
Method development and validation for the Quantitative estimation of ivabradine by RP-HPLC in Bulk and marketed formulation with forced degradation studies	S Shobha Rani	International Journal of research	2019	Centre for Pharmaceutical sciences, IST, JNTUH
E.Coli AB 1157 susceptability test, MTT assay on MCF-& and HeLa cell lines of root and leaf fractions of <i>Viburnum</i> species	K Ponnudurai,K Prabhu,S Shobha Rani and M. Srinivasa Murthy	Indian journal of traditional Knowledge	2019	Centre for Pharmaceutical sciences, IST, JNTUH
Development,In-vitro and exvivo Evaluation of	Kumara Swamy Samanthula,S	Research Journal of Pharma and	2019	Centre for Pharmaceutical sciences, IST,

Muco-adhesive Buccal Patches of candesartan cilexetil,	hobha Rani Satla, AgaiahgoudB airi	technology			JNTUH	
A Review on Novel liposomes and its applications	M.Sunitha Reddy, Harika Ramineni	International journal of research and analytical reviews	2019	183(O verall)	Centre for Pharmaceutical sciences, IST, JNTUH	183(Overall)
Use of natural polymers over synthetic polymers in tablet formulations: A review	M.Sunitha Reddy, T.N.Purnima,	Journal of emerging technologies and innovative research	2019		Centre for Pharmaceutical sciences, IST, JNTUH	
Formulation development and evaluation of immediate release film coated tablets of Pazopanib Hydrochloride	Shaik Arif Mohiuddin, M.Sunitha Reddy	International Journal of research and analytical reviews(IJRAR)	2019		Centre for Pharmaceutical sciences, IST, JNTUH	
Formulation development and evaluation of immediate release Bi-layer tablets of Anti-Retroviral drugs	Tammagouni Anusha, M.Sunitha Reddy	International Journal of research and analytical reviews(IJRAR)	2019		Centre for Pharmaceutical sciences, IST, JNTUH	
Formulation development and evaluation of Bi-layer tablets of Anti-Retroviral drugs	MD.Ziauddin K.AnieVijetha , M.Sunitha Reddy	International Journal of research and analytical reviews(IJRAR)	2019		Centre for Pharmaceutical sciences, IST, JNTUH	
Formulation and evaluation of gastroretentiveinsitu floating gels of Olmesartan medoxomilCubosomes	M.Sunitha Reddy, K.Shobha Rani	International Journal of research and analytical reviews(IJRAR)	2019		Centre for Pharmaceutical sciences, IST, JNTUH	
Formulation and evaluation of Methyl Prednisolone Acetate Parenteral Suspension	Phani Kishore, M.Sunitha Reddy	IJRAR	2019		Centre for Pharmaceutical sciences, IST, JNTUH	
Formulation and Evaluation of Itraconazole Niosomes Gel	M.Sunitha Reddy, SusmitaArkala	International Journal of Research and Analytical Reviews	2019		Centre for Pharmaceutical sciences, IST, JNTUH	

Development and In-vitro Evaluation of Delayed release Multi unit particulates of Proton Pump Inhibitors	Mounika Sangishetty, MD Fazal Ul Haq, M.Sunitha Reddy	International Journal of research and analytical reviews(IJRAR)	2019	Centre for Pharmaceutical sciences, IST, JNTUH
Niosomes –Novel Drug delivery system-A Review	M.Sunitha Reddy, Pranaya D	World journal of pharmacy and pharmaceutical sciences	2019	Centre for Pharmaceutical sciences, IST, JNTUH
Nasal Drug Delivery Systems: A Review	M.Sunitha Reddy, ManasaTadi	World journal of Pharmaceuticals Research	2019	Centre for Pharmaceutical sciences, IST, JNTUH
A Review on Classification, Characterization, Synthesis, Application and Toxicity of Nanoparticles	M.Sunitha Reddy, Pallavi Sunduru	European Journal of Biomedical and Pharmaceutical Sciences	2020	Centre for Pharmaceutical sciences, IST, JNTUH
A Review on 'Synthesis of Silver Nanoparticles by Biological Approach"	M.Sunitha Reddy, Keerthi Reddy Sunkari	International Journal of Pharmaceutical Sciences Review and Research	2020	Centre for Pharmaceutical sciences, IST, JNTUH
Bilayer Tablets: A Novel Technology: A Review	Sunitha Reddy M*, Bharath Dubashi	Journal of Global Trends in Pharmaceutical Sciences	2020	Centre for Pharmaceutical sciences, IST, JNTUH
A Review on Proniosomes: Formulation, Characterization and Application	M.Sunitha Reddy, M Sheetal Lakum	American Journal of Pharmacy and Health Research	2020	Centre for Pharmaceutical sciences, IST, JNTUH
Solubility and dissolution enhancement of poorly aqueous soluble drug-Gefitinib by Self Emulsifying Drug Delivery Systems	M.Sunitha Reddy, B. Sindu Vahini	International Journal of Pharmaceutical and research	2020	Centre for Pharmaceutical sciences, IST, JNTUH
Proniosomes - A Novel Drug Delivery Carrier; A Review	Sunitha Reddy M*, Hemantha Lakshmi	Journal of Global Trends in Pharmaceutical Sciences	2020	Centre for Pharmaceutical sciences, IST, JNTUH
A Review on Self Emulsifying Drug	Sunitha Reddy M.* Pallavi Dongre	European Journal of Biomedical and	2020	Centre for Pharmaceutical sciences, IST,

Delivery Systems		Pharmaceutical Sciences			JNTUH	
Self-Emulsifying Drug Delivery System (SEDDS): An Approach To Increase The Solubility Of Lipophilic Drugs	Sunitha Reddy M*, Sowmya V	American Journal of Pharmacy and Health Research	2020		Centre for Pharmaceutical sciences, IST, JNTUH	
	Centre for Spa	atial Information a	nd Technology	(CSIT)		
NIL						
	Cen	tre for Water Reso	urces (CWR			
Sl.No.	Name of the faculty	Designation	Citations	h- index	I10-index	
1	Dr.B.Venkates wara Rao	Prof, CWR, IST, JNTUH	179	7	5	
2	Dr.K.Rama mohan Reddy	Prof, CWR, IST, JNTUH	38	3	1	
3	Dr.C.Sarala	Prof, CWR, IST, JNTUH	75	3	2	
4	Dr.MVSS.Giri dhar	Prof, CWR, IST, JNTUH	144	4	1	
Total			436	17	9	
Title of the paper	Name of the author	Title of the journal	Year of publication	Citati on Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Groundwater flow modeling and prognostics of Kandivalasa river sub- basin, Andhra Pradesh, India	Dr.B.Venkates wara Rao	Environment, Development and Sustainability, Springer Nature	2019		CWR, IST, JNTUH	
Evaluation of the impact of high resolution winds on the coastal waves events	Dr.B.Venkates wara Rao	Journal of Earth System Sciences	2019		CWR, IST, JNTUH	
Role of Kaolinisation in the Khondalitic Aquifers of Eastern Ghats of (India)	Dr.B.Venkates wara Rao	Advances in Sustainable and Environmental Hydrology, Hydrogeology,	2019		CWR, IST, JNTUH	

han Reddy	Springer Nature Applied Sciences	2020	CWR, IST, JNTUH
Dr.C.Sarala	Journal of Emerging Technologies and Innovative Research	2019	CWR, IST, JNTUH
Dr.M.V.S.S. Giridhar	International Journal for Research in Applied Science & Engineering Technology	2019	CWR,IST,JNT UH
Dr.M.V.S.S. Giridhar	Journal of Emerging Technologies and Innovative Research	2019	CWR, IST, JNTUH
	Dr.M.V.S.S. Giridhar Dr.M.V.S.S.	Emerging Technologies and Innovative Research Dr.M.V.S.S. International Journal for Research in Applied Science & Engineering Technology Dr.M.V.S.S. Journal of Emerging Technologies and Innovative	Emerging Technologies and Innovative Research Dr.M.V.S.S. Giridhar Giridhar Dr.M.V.S.S. Giridhar Fesearch International Journal for Research in Applied Science & Engineering Technology Dr.M.V.S.S. Giridhar Femerging Technologies and Innovative

3.4.6 h-Index of the Institutional Publications during the CAY. (based on Scopus/ Web of science)								
Centre for Biotechnology (CBT)								
Title of the paper	Name of the author	Title of the journal	Year of publicatio n	h- index	Number of citations excludin g self-citations	Institutional affiliation as mentioned in the publication		
Synthesis, structural and antimicrobial studies of half-sandwich ruthenium, rhodium and iridium complexes containing nitrogen donor Schiff-base ligands (IF-2.011)	Agreeda Lapasam, Venkanna Banothu, Uma Addepally, Mohan Rao Kollipara	Journal of Molecular Structure,	2020	89	0	JNTUH		
Surface modification and non-covalent functionalization of single- walled carbon nanotubes and their Ocharacterization (IF- 1.81)	K. Naga Lalitha , G. Krishna Mohan and A. Uma,	Internation al Journal of Pharmaceut ical Sciences and Research	2019	4.35	0	JNTUH		
Variable structural bonding modes and antibacterial studies of thio semi carbazone ligands of ruthenium, rhodium, and iridium metal complexes,	Lathewdeipor Shadap, Venkanna Banothu, Uma Adepally, Sanjay Adhikari, Mohan Rao Kollipara	Journal of Coordinatio n Chemistry	2020	45	0	JNTUH		
Composting of Sweet Sorghum Bagasse and its Impact on Plant Growth Promotion;	Subramaniam Gopalakrishnan, Vadlamudi Srinivas, Ashok Kumar, Akula V. Umakanth, Uma Addepally, Pinnamaneni Srinivasa Rao,	Sugar Tech	2020	24	0	JNTUH		

Investigation of Mode of Action of Anti Bacterial Activity of Salacia Oblonga Extract Against Drug Resistant Pathogen	Anjaneyulu Musini and Archana Giri	Brazilian Archives of Biology and Technolog	2019	40	0	JNTU H
Development of transgenic cotton (Narasimha) using triple gene Cry2Ab-Cry1F-Cry1Ac construct conferring resistance to lepidopteran pest;	Sumalatha katta, Ashwini talakayala, Malireddy k reddy, Uma addepally, Mallikarjuna garladinne;	Journal of bioscience	2020	69		JNTUH
Discovery of novel pyrido-pyrrolidine hybrid compounds as alphaglucosidase inhibitors and alternative agent for control of type 1 Diabetes	Tania Luthra, Venkanna Banothu, Uma Adepally, Krishna Kumar, Swathi M, Saikat Chakrabarti, Srinivas R. Maddi d, Subhabrata Sen;	European Journal of Medicinal Chemistry	2020	151		JNTUH
Evaluation of ethanol fermentation efficiency of sweet sorghum syrups produced by integrated dualmembrane system;	Yerra Kanakaraju, Addepally Uma, Vani Gandham, Kiran Kumari Palety, S. Sridhar, A. V. Umakanth;	Bioprocess and Biosystems Engineerin g	2020	59		JNTUH
Synthesis, Chemotherapeutic Screening and Docking Studies of NSAID Inserted Peptide-Triazole Hybrid Molecules.	Suryapeta Srinivas, Papigani Neeraja, Kuntala Naveen, Venkanna Banothu, Pramod K Dubey, Khagga Mukkanti & Sarbani Pal.	Chemistry Select	2020	25	0	JNTUH
In vitro biological evaluation of half- sandwich platinum- group metal	Lathewdeipor Shadap, Venkanna Banothu, Emma Pinder, Roger M Phillips, Werner	Journal of Coordinati on Chemistry	2020	48	0	JNTUH

complexes containing benzothiazole moiety.	Kaminsky & Mohan Rao Kollipara.					
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Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excludin g self-citations	Institutional affiliation as mentioned in the publication
Data given in 3.4.5	Dr. Anireddy Jayashree	Data given in 3.4.5	Data given in 3.4.5	9	412	Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH
	Dr. P S Sai Prasad			46	6855	
•	Dr. Kotaiah Naik			6	92	
	Centre for E	 Environment (CEN)			
Title of the paper	Name of the author	Title of the journal	Year of publicatio n	h- index	Number of citations excludin g self-citations	Institutional affiliation as mentioned in the publication
Phycoremediation of sewage contaminated lake water using mircoalgae bacteria co- culture	kavithavarma, kirankumar,s. vijayakrishna, V.Himabindu	water, air and soil pollution (accepted May 2020) ISSN: 1573-2932	2020 (IF1.79)	0		Phycoremedi ation of sewage contaminate d lake water using mircoalgae bacteria co- culture
Gimesiachilikensis sp. nov., a haloalkalitolerantplanct omycetes isolated from Chilika lagoon and emended description of the genus Gimesia	Dhanesh Kumar; Kumar Gaurav; Sreya PK; Shabbir A; Jagadeeshwari U; SasikalaChand RamanaCh. V.	Int. J. Syst. Evol. Microbiol. (in press)	2020 [IF=2.166]	0		Gimesiachili kensis sp. nov., a haloalkalitol erantplancto mycetes isolated from Chilika lagoon and emended

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Roseimaritimasedimini cola sp.nov., a new member in Planctomycetaceae isolated from Chilika lagoon. Int J SystEvolMicrobiol. (Under revision)	Dhanesh Kumar., Gaurav, K., Deepshikha, K, Jagadeeshwari, U, Sasikala, Ch. And Ramana, Ch.V	Int. J. Syst. Evol. Micr obiol . (in press)	2020 [IF=2.166]	0	Roseimariti masediminic ola sp.nov., a new member in Planctomyce taceae isolated from Chilika lagoon. Int J SystEvolMic robiol. (Under revision)
Paracoccusaeridae sp. nov., an indole producing bacterium isolated from the rhizosphere of an orchid, Aeridesmaculos a	Anusha Rai; Smita N; Suresh G; Shabbir A; Deepshikha G; SasikalaCh; RamanaCh.V.	Int. J. Syst. Evol. Microbiol. (in press) (In press doi:10.1099 /ijsem.0.00 3962)	2020 [IF=2.166]	0	Paracoccusa eridae sp. nov., an indole producing bacterium isolated from the rhizosphere of an orchid, Aeri desmaculosa
Taxogenomics resolved the conflict of the genus <i>Rhodobacter</i> : A two and half decades pending thought to reclassify the genus <i>Rhodobacter</i>	Indu, Sasikala, Ch and Ramana, Ch. V.	Frontiers in Microbiolo gy 10:2480. doi:10.3389 /fmicb.201 9.02480	2020 (IF=4.259)	4	Taxogenomi cs resolved the conflict of the genus <i>Rhodo</i> bacter: A two and half decades pending thought to reclassify the genus <i>Rhodo</i> bacter
Rhodobactersediminic ola sp. nov., isolated from a fresh water	G Suresh, Dhanesh Kumar, A Krishnaiah, SasikalaCh	Internation al Journal of Systematic	2020 (IF:2.166)		Rhodobacter sediminicola sp. nov., isolated

pond of Gujarat		and Evolutionar y Microbiolo gy 70(2):1294- 1299 ISSN: 14665026,			from a fresh water pond of Gujarat
Rhodomicrobium lacus sp. nov., an alkalitolerent bacterium isolated from Umiam lake, Shillong, India	G Suresh, Dhanesh Kumar, JagadeeshwariUppada, SasikalaCh	Internation al Journal of Systematic and Evolutionar y Microbiolo gy 70(1):662- 667 ISSN: 14665026,	2020 (IF:2.166)		Rhodomicro bium lacus sp. nov., an alkalitoleren t bacterium isolated from Umiam lake, Shillong, India
Afifellaaestuarii, sp. nov., a novel phototrophic bacterium isolated from rhizosphere soil of a xerophytes.	SailajaBuddhi, G Suresh, Deepshikha Gupta, SasikalaCh	Int. J. Syst. Evol. Micr obiol . (In Press; doi:10.1099 /ijsem.0.00 3756)	2019 [IF=2.166]	0	Afifellaaestu arii, sp. nov., a novel phototrophic bacterium isolated from rhizosphere soil of a xerophytes.
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Precursor-feeding and altered-growth conditions reveal novel blue pigment production by Rubrivivaxbenzoatil yticus JA2	Lakshmi PrasunaMekala, Mujahid Mohammed, SasikalaChintalapati, VenkataRamanaChintalapat i	Biotechnol ogy letters 41:813–822	2019 (IF: 1.846)		Precursor- feeding and altered- growth conditions reveal novel blue pigment production by Rubriviva xbenzoatilyti cus JA2
Phylogenetic diversity of sulfate-reducing bacteria of sediments of Chilika Lake, India, determined through analysis of the dissimilatory sulfite reductase (dsr AB) gene	Sri SasiJyothsnaTadinada, Rahul Kamidi, Saikat Dutta, SasikalaChintalapati, VenkataRamanaChintalapat i	3 Biotech, 9:134, https://doi.o rg/10.1007/ s13205- 019-1655-2	2019 (IF: 2.351)		Phylogenetic diversity of sulfate-reducing bacteria of sediments of Chilika Lake, India, determined through analysis of the dissimilatory sulfite reductase (dsr AB) gene
Transcriptome analysis of hopanoid deficient mutant of Rhodopseuodomonasp alustris TIE-1	Tushar D Lodha, B Indu, SasikalaCh	Microbiolo gical research, 218, 108-117 https://doi.org/10.1016/j.micres.20 18.10.009	2019 (3.701)		Transcripto me analysis of hopanoid deficient mutant of Rhodopseuo domonaspal ustris TIE-1
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and extracellular		5121571 E		exposure
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Bacterial Taxonomy	Deepshikha, K Gaurav, K	Diversity in		Concepts in
	Dhanesh, G Suresh,	Ecosystem		<u>Bacterial</u>
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iTRAQ-based	Deepshikha Gupta, Mujahid	Journal of	2019	<u>iTRAQ-</u>
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molecular responses of	VenkataRamanaChintalapat	doi:		<u>reveals</u>
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Rubrivivaxbenzoatilyti		prot.2018.1		<u>metabolic</u>
cus JA2		2.027		<u>and</u>
				<u>molecular</u>
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		16/j.jprot.2		glucose-
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Pyomelanin	VenkataRamanaChinthalap	Internation	2019	Pyomelanin
production: Insights	atia Lakshmi	al Journal	(IF:4.78)	production:
into the incomplete	PrasunaMekalaa,	of	(2,0)	Insights into
aerobic l-phenylalanine	MujahidMohammeda,	Biological		the
catabolism of a	SasikalaChinthalapati	Macromole		incomplete
photosynthetic	2 domain Chilinianapan	1.14010111010		aerobic l-
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Title of the paper	Name of the author	Title of the	Year of	h-	Number	Institutional
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various Mg (x) Fe	Jeevankumar, N	Science				Nano
(1-x) 2O4 (x= 0.1,	Jayarambabu, A	and				Science and
<u>0.5 and 0.9)</u>	Saineetha, Kishor Kumar	Engineerin				Technology
nanostructures as a	Sadasivuni,	g: B				, JNT
resistive and flexible	SatishBykkam,					University
<u>LPG sensor</u>	Kalagadda Venkateswara					Hyderabad,
	Rao					Kukatpally
						500085,
						Telangana,
						India b
						School of
						Physics,
						University
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Synthesized Metal	K Venkateswara Rao,	Inorganic				of Nanotec
Oxide Nanoparticles	Jagpreet Singh,	and				hnology,
on Seed Germination	MohitRawat	Organome				Sri Guru
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<u>decorated conductive</u>	Geeta Rani, M	Chemistry				Nanoscienc
polyanilinenanosheet	SaiBhargava Reddy, N	and				e and
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glucose biosensor	Munindra, Shubham					, Institute
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						500085, India. 2 School of Nanotechno logy, Institute of Science and Technology , Jawaharlal Nehru Technologi cal University, Kakinada, Andhra Pradesh State, 533003, India. 3CSIR- Central Leather Research Institute, Regional Centre for Extension and
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						Hyderabad 500085, India 2 School of Engineer ingSciences and Techno logy, University of Hyderab ad, Gachibowli ,Hyderabad 500046, India 3 Department of Physics, KoneruLak shmaiah Education Foundation (KLEF), Hyderabad 500075, India
Green synthesis of Cu nanoparticles using Curcuma longa extract and their application in antimicrobial activity	N Jayarambabu, A Akshaykranth, T Venkatappa Rao, K Venkateswara Rao, R Rakesh Kumar	Materials Letters	2020	135	-	1Departme nt of Physics, National Institute of Technology , Warangal- 506004, India 2Centre for NanoScienc e and Technology ,IST,JNTU- Hyderabad, Kukatpally- 500085, India

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Utilization of rapid	Shubham Sharma, Jujhar	Measurem	2020	20	-	1
prototyping	Singh, Harish Kumar,	ent and				Department
technology for the	Abhinav Sharma,	Control				of
fabrication of an	VivekAggarwal, Amoljit					Mechanical
orthopedic shoe	Singh Gill, N Jayarambabu,					Engineerin
inserts for foot pain	SaraswathiKailasa, K					g and RCED,
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Study of band gap engineering in graphene based	K Vagdevi, B Jyothirmai, V Radhika Devi, K Venkateswara Rao	AIP Conferenc e	2019	64	-	GokarajuRa ngaraju Institute of

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Micro-structural, optical and vibrational spectra analysis of Lead sulphide, Cadmium doped PbS and Strontium doped PbS nano-structured thin films synthesized through Successive Ionic Layer Adsorption and Reaction technique for solar cell and infrared detector sensor applications	Shubham Sharma, A VenkataDhanunjaya Reddy, NaradalaJayarambabu, N Vikram Manoj Kumar, A Saineetha, SaraswathiKailasa, K Venkateswara Rao	Materials Today: Proceedin gs	2019	27		a C.S.I.R Central Leather Research Institute, R.C.E.D., Leather Complex, Jalandhar 144021, India b S.R.I.T., Rotarypura m Village, B K Samudram Mandal, Anantapur 515701, India c Centre for Nanoscienc e and Technology , IST, JNTUH, Kukatpally, Hyderabad 500085, India
Ultrasonication assisted thermal exfoliation of graphene-tin oxide nanocomposite material for supercapacitor	Sai Ram Eedulakanti, Anil Kumar Gampala, K Venkateswara Rao, Ch Shilpa Chakra, VenkataramanaGedela, RajenderBoddula	Materials Science for Energy Technolog ies	2019	-	-	a Centre for Nanoscienc e and Technology , IST, JNTUH, India bNanospan India Private Limited, Gachibowli

					Hyderabad, India c CAS Key Laboratory of Nanosyste m and Hierarchica I Fabrication, National Center for Nanoscienc e and Technology , Beijing 100190, PR China
Synthesis and characterization of Titanium dioxide nanopowder for various energy and environmental applications	Shubham Sharma, A VenkataDhanunjaya Reddy, NaradalaJayarambabu, N Vikram Manoj Kumar, A Saineetha, K Venkateswara Rao, SaraswathiKailasa	Materials Today: Proceedin gs	2019	27	a C.S.I.R. Central Leather Research Institute, R.C.E.D., Leather Complex, Jalandhar 144021, India b S.R.I.T., Rotarypura m Village, B K Samudram Mandal, Anantapur 515701, India c Centre for Nanoscienc e and Technology , IST, JNTUH, Kukatpally,

						Hyderabad 500085, India
Hydrothermal approached 1-D molybdenum oxide nanostructures for high-performance supercapacitor application	R Kiran Kumar Reddy, SaraswathiKailasa, B Geetha Rani, N Jayarambabu, Hayashi Yasuhiko, G VenkataRamana, K Venkateswara Rao	SN Applied Sciences	2019			Center for Nano Science and Technology , Institute of Science and Technology , Jawaharlal Nehru Technologi cal University, Hyderabad, India. 2 Graduate School of Natural Sciences and Technology , Okayama University, Okayama University, University, University, Okayama University, Okayama University, Okayama University, Okayama University, University, Okayama, Japan. 3
Comparative gas sensing analysis of green and chemically reduced graphene oxide	Venkateswara Rao Kalagadda4 B Geeta Rani, M SaiBhargava Reddy, KailasaSaraswathi, HassenMaseed, K	Materials Research Express	2019	27	-	aCenter for Nanoscienc e and Technology , Institute of Science

	Bikshalu					and
						Technology
						, JNTU
						Hyderabad,
						India. b
						School of
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						cDepartme nt of ECE,
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						g, KU,
						Telangana,
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Biogenic synthesis of	DayakarThatikayala, N	Journal of	2019	67	-	Department
silver nanoparticles	Jayarambabu,	Materials				of Electroni
mediated	VenkannaBanothu,	Science:				cs
by Theobroma	Chandra BabuBallipalli,	Materials .				and Compu
cacao extract:	Jinsub Park, K Venkateswara Rao	in Electronic				ter
enhanced antibacterial and	venkateswara Rao	Electronic				Engineerin g, College
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			ering,
			Harbin
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						of Technol ogy, Shenzhen 5 18055, China
MgO@CeO ₂ chemire sistive flexible sensor for room temperature LPG detection	M SaiBhargava Reddy, SaraswathiKailasa, B Geeta Rani, N Jayarambabu, K Bikshalu, P Munindra, K Venkateswara Rao	Journal of Materials Science: Materials in Electronic s	2019	67		Center for Nano Science & Technology , Institute of Science & Technology , Jawaharlal Nehru Technologi cal University Hyderabad, Hyderabad, Telangana 500085, India 2 Department of Electroni cs & Communic ation Engineerin g, Kakatiya University, Warangal, Telangana 506009, India
A review on porous polymer composite materials for multifunctional electronic applications	Kishor Kumar Sadasivuni, John-John Cabibihan, KalimDeshmukh, SolletiGoutham, Mohammad KhaleelAbubasha, Jyoti Prasad Gogoi, IgorsKlemenoks, Gita	Polymer- Plastics Technolog y and Materials	2019	-	-	a Center for Advanced Materials, Qatar University, Doha, Qatar; b Mechanical and

Sakale,			Industrial
BhogillaSatyaSekhar, PS			Engineerin
Rama Sreekanth,			g
Kalagadda Venkateswara			Department
Rao, Maris Knite			, Qatar
			University,
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			Qatar; c
			Department
			of Physics,
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			AbdurRah
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			, Chennai
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			of Physics,
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						Riga Technical University, Riga, LV, Latvia; g Faculty of Mechanical Engineerin g, Indian Institute of Information Technology Design and Manufactur ing, Kurnool, Andhra Pradesh, India; h Department of Mechanical Engineerin g, VIT-AP University, Amaravati, Guntur, Andhra Pradesh, India;
Template assisted electro-chemical synthesis and microstructural characterization of copper and copper selenide based polymer thin films as nano ensembles applications	A Saineetha, Shubham Sharma, A VenkataDhanunjaya Reddy, NaradalaJayarambabu, N Vikram Manoj Kumar, K Venkateswara Rao, K Vasantha Kumar	Materials Today: Proceedin gs	2019	27	-	a Centre for Nanoscienc e and Technology , IST, JNTUH, Kukatpally, Hyderabad 500085, India b C.S.I.R. – Central Leather Research Institute,

					R.C.E.D., Leather Complex, Jalandhar 144021, India c S.R.I.T., Rotarypura m Village, B K Samudram Mandal, Anantapur 515701, India
Synthesis of multiferroic BiFeO3 microcrystals for photocatalytic activity and stability performance	BeerelliRajitha, Kalagadda Venkateswara Rao, R Padma Suvarna	Materials Today: Proceedin gs	2019	27	aDepartme nt of Physics, Jawaharlal Nehru Technologi cal University Ananthapur , Ananthapur amu 515002, India b Center for Nanoscienc e and Technology , Institute of Science and Technology , Jawaharlal Nehru Technologi cal University Hyderabad, Telangana State

					500085, India
Study of acoustic and thermodynamic factors of synthesized ZnO-water nanofluid by ultrasonic technique	M SaiBhargava Reddy, N Jayarambabu, R Kiran Kumar Reddy, SaraswathiKailasa, K Venkateswara Rao	Materials Today: Proceedin gs	2019	27	Centre for Nano Science and Technology , Institute of Science and Technology , Jawaharlal Nehru Technologi cal University, Hyderabad 500085, India
Enhancing adsorption capacity of nano-adsorbents via surface modification: A review	M Manyangadze, NHM Chikuruwo, TB Narsaiah, CS Chakra, M Radhakumari, G Danha	South African Journal of Chemical Engineerin g	2020	11	a Chemical and Process Systems Engineerin g Department , Harare Institute of Technology , Harare, Zimbabwe b Industrial and Manufactur ing Engineerin g Department , Harare Institute of Technology , Harare, Zimbabwe of Technology , Harare Institute of Technology , Harare, Zimbabwe c Department of

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			Raju
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						Palapye, Botswana
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Ultrasonication	Sai Ram Eedulakanti,	Materials	2019		-	a Centre for
assisted thermal	Anil Kumar Gampala, K	Science				Nanoscienc
exfoliation of	Venkateswara Rao, Ch	for Energy				e and
graphene-tin oxide	Shilpa Chakra, VenkataramanaGedela,	Technolog				Technology
nanocomposite material for	RajenderBoddula	ies				, IST, JNTUH,
supercapacitor	Rajenderboddula					India
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						Nanoscienc
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						Technology
						, Beijing 100190, PR
						China
Root and Shoot	ShylajaSingam, M.	Internation	2019	-	-	Department
Uptake of	Anand Rao, Ch. Shilpa	al Journal				of
Synthesized Nano Znoond Its Impact on	Chakra	of Innovative				chemistry,
Znoand Its Impact on Differences in Bio-		Innovative				VignanaBh arathi
Differences in Bio-		Technolog				araum

Availability During Exposure In Aqueous Suspension		y and Exploring Engineerin g (IJITEE)			Institute of Technology (VBIT), Hyderabad- 501301, Telangana ,India. Centre for Nano Science and Technology , Institute of Science and Technology , JNTUH, Kukatpally, Hyderabad- 500085 Telangana.
Integrating and introducing CERN and NCBI data science to understand quantum realm computations	Raghavendra Rao Sankaramanchi1, V Kamakshi Prasad2, Kumara Chandra Singarapu2, Tejaswini Thallapalli2, Sandeep Sagar2, Shilpa Chakra Chidurala3, Upender Gaddam4, and Shrawan Kumar5	IOP Conf. Series: Journal of Physics: Conf. Series	2019	70	CSE, JNTUH, Hyderabad, India Hexagon Capability Centre India Pvt.Ltd, Hyderabad, India CNST, IST, JNTUH, Hyderabad, India CSE, Vardhaman College of Engineerin

						g,
						Hyderabad,
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Adsorption Studies	C. S. CHAKRAa* , V. S.	Digest	2019	40		aCentre for
And Fluoride	SAI KUMARb, S.	Journal of	2017			Nano
Removal From	MADHURIa, P.	Nanomate				Science and
Aqueous	ANUSHAa, T. R.	rials and				Technology
Aqueous	KUMARa, D. RAKESH	Biostructu				, Institute
Solutions By	KUWAKA, D. KAKESII					of Science
Graphene Oxide -		res				
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	Centre for Pharm	aceutical Scie	ences (CPS)			
Title of the paper	Name of the author	Title of the	Year of	h-	Number	Institutional
		journal	publicatio	index	of	affiliation as
			n		citations	mentioned in
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Y Y Y Y	**	.	2010	1.4	702/110	C . C
In Vitro Assessment of	Y. Anusha, A. Niranjan	Internation	2019	14	702(i10=	Centre for Pharmaceutic
Antioxidant Activity, Total Phenolic and	Kumar, J. Kotesh Kumar,	al Journal			18)	al sciences,
	I K V/NIC Srinizzog A Crizzoni	of	I			ai sciences,
Flavonoid Content for	KVNS. Srinivas, A. Srivani,					IST. INTUH
Flavonoid Content for Various Extracts of	G. Krishna Mohan	Pharmacy and				IST, JNTUH

a (L.)		Biological Sciences				
Surface modification and non-covalent functionalization of single- walled carbon nanotubes and their characterization	K. Naga Lalitha , G. Krishna Mohan and A. Uma	Internation al Journal of Pharmaceut ical Sciences and Research	2019			Centre for Pharmaceutic al sciences, IST, JNTUH
Design and Synthesis of Indole Pyrimidine Scaffolds as Potential KSP Inhibitors and Anticancer Agents	Radhika Chelamalla, AjithaMakula	Current Enzyme Inhibition.	2019	9	397 (i10+9)	Centre for Pharmaceutic al sciences, IST, JNTUH
NEUROPROTECTIV E EFFECT OF CITRULLUS LANATUS SEED EXTRACTS ON CEREBRAL ISCHEMIC REPERFUSION INJURY INDUCED COGNITIVE IMPAIRMENT AND OXIDATIVE STRESS	GIRIJA PASHIKANTI1, MAKULA AJITHA2, GOVERDHAN PUCHCHAKAYALA.	Internation al Journal of Pharmacy and Pharmaceut ical Sciences	2019			Centre for Pharmaceutic al sciences, IST, JNTUH
STUDY TO FIND THE BEST EXTRACTION SOLVENT FOR USE WITH CUCUMBER PEEL (CUCUMIS SATIVUS) FOR HIGH NEUROPROTECTIV E ACTIVITY IN COGNITIVE IMPAIRED RATS	GirijaPashikanti 1, MakulaAjitha 2, GoverdhanPuchchakayala	Journal of Scientific Research in Pharmacy	2019			Centre for Pharmaceutic al sciences, IST, JNTUH
NEUROPROTECTIV E EFFECT OF VARIOUS PHYTOCHEMICALS AND ITS POTENTIAL APPLICATION OF THREE MEDICINAL PLANTS IN NEURODEGENERAT IVE DISEASES	GirijaPashikanti , MakulaAjitha , GoverdhanPuchchakayala	Journal of Pharma Research	2019			Centre for Pharmaceutic al sciences, IST, JNTUH

Formulation and in Vivo Evaluation of Sulfasalazine Tablets for Colon Targeting Using Design of Experiment Development and In Vivo Evaluation of	Mohd. Rawoof *1, 2, K. Rajnarayana1, M. Ajitha MD Rawoof 1, 2, K. Rajnarayana1 and M. Ajitha	Am. J. PharmTech Res Int J Pharm Sci Nanotech	2019	Centre for Pharmaceutic al sciences, IST, JNTUH Centre for Pharmaceutic al sciences,
Mesalazine Colon Targeted Tablets Transdermal delivery of fluvastatin loaded nanoemulsion gel: Preparation, characterization and in vivo anti-osteoporosis	Ramandeep Kaur, M Ajitha	European Journal of Pharmaceut ical Sciences	2019	Centre for Pharmaceutic al sciences, IST, JNTUH
activity Formulation of transdermal nanoemulsion gel drug delivery system of lovastatin and its in vivo characterization in glucocorticoid induced	Ramandeep Kaur, MakulaAjitha	Journal of Drug Delivery Science and Technology	2019	Centre for Pharmaceutic al sciences, IST, JNTUH
osteoporosis rat model Effect of lovastatin nano drug delivery system on bone mineral density (BMD) and biomechanical properties of tibia bones of wistar rats	Ramandeep Kaur, MakulaAjitha	Internation al Journal of Pharmacy and Pharmaceut ical Sciences	2019	Centre for Pharmaceutic al sciences, IST, JNTUH
Method development and validation of vortioxetine hydrobromide by RP- HPLC,	J.Ravali, S.Shobha rani, P.Venkata Praveen Kumar,	Internation al Journal Of research and analytical Reviews	2019	Centre for Pharmaceutic al sciences, IST, JNTUH

Method Development and validation of related substances in felodipine extended release tablets by RP- HPLC	P.KavyaRao,S.ShobhaRani, K.S.L.Harika,	Internation al Journal Of research and analytical Reviews	2019	Centre for Pharmaceutic al sciences, IST, JNTUH
Method Development and validation of dissolution of obeticholic acid tablets by RP-HPLC	C. Mounica,S.ShobhaRani,B. Naga Malleshwari	Internation al journal of Pharma and Bio sciences	2019	Centre for Pharmaceutic al sciences, IST, JNTUH
Method development and validation of Quantifying related substances in paracetamol and mefenamic acid GFOS by RP-HPLC	S Shobha Rani	Internation al Journal Of research and analytical Reviews	2019	Centre for Pharmaceutic al sciences, IST, JNTUH
Method development and validation for the Quantitative estimation of ivabradine by RP-HPLC in Bulk and marketed formulation with forced degradation studies	S Shobha Rani	Internation al Journal of research	2019	Centre for Pharmaceutic al sciences, IST, JNTUH
E.Coli AB 1157 susceptability test, MTT assay on MCF-& and HeLa cell lines of root and leaf fractions of <i>Viburnum</i> species	K Ponnudurai,KPrabhu,S Shobha Rani and M. Srinivasa Murthy	Indian journal of traditional Knowledge	2019	Centre for Pharmaceutic al sciences, IST, JNTUH
Development,In-vitro and exvivo Evaluation of Muco-adhesive Buccal Patches of candesartan cilexetil,	Kumara Swamy Samanthula,Shobha Rani Satla, AgaiahgoudBairi	Research Journal of Pharma and technology	2019	Centre for Pharmaceutic al sciences, IST, JNTUH

A Review on Novel liposomes and its applications	M.Sunitha Reddy, Harika Ramineni	Internation al journal of research and analytical reviews	2019	7	187(i10= 7)	Centre for Pharmaceutic al sciences, IST, JNTUH
Use of natural polymers over synthetic polymers in tablet formulations: A review	M.Sunitha Reddy, T.N.Purnima,	Journal of emerging technologie s and innovative research	2019			Centre for Pharmaceutic al sciences, IST, JNTUH
Formulation development and evaluation of immediate release film coated tablets of Pazopanib Hydrochloride	Shaik Arif Mohiuddin, M.Sunitha Reddy	Internation al Journal of research and analytical reviews(IJ RAR)	2019			Centre for Pharmaceutic al sciences, IST, JNTUH
Formulation development and evaluation of immediate release Bi- layer tablets of Anti- Retroviral drugs	Tammagouni Anusha, M.Sunitha Reddy	Internation al Journal of research and analytical reviews(IJ RAR)	2019			Centre for Pharmaceutic al sciences, IST, JNTUH
Formulation development and evaluation of Bi-layer tablets of Anti- Retroviral drugs	MD.ZiauddinK.AnieVijetha , M.Sunitha Reddy	Internation al Journal of research and analytical reviews(IJ RAR)	2019			Centre for Pharmaceutic al sciences, IST, JNTUH
Formulation and evaluation of gastroretentiveinsitu floating gels of Olmesartan medoxomilCubosomes	M.Sunitha Reddy, K.Shobha Rani	Internation al Journal of research and analytical reviews(IJ RAR)	2019			Centre for Pharmaceutic al sciences, IST, JNTUH
Formulation and evaluation of Methyl Prednisolone Acetate Parenteral Suspension	Phani Kishore, M.Sunitha Reddy	IJRAR	2019			Centre for Pharmaceutic al sciences, IST, JNTUH

Formulation and Evaluation of Itraconazole Niosomes Gel	M.Sunitha Reddy, SusmitaArkala	Internation al Journal of Research and Analytical Reviews	2019	Centre for Pharmaceutic al sciences, IST, JNTUH
Development and Invitro Evaluation of Delayed release Multi unit particulates of Proton Pump Inhibitors	Mounika Sangishetty, MD Fazal Ul Haq, M.Sunitha Reddy	Internation al Journal of research and analytical reviews(IJ RAR)	2019	Centre for Pharmaceutic al sciences, IST, JNTUH
Niosomes —Novel Drug delivery system- A Review	M.Sunitha Reddy, Pranaya D	World journal of pharmacy and pharmaceut ical sciences	2019	Centre for Pharmaceutic al sciences, IST, JNTUH
Nasal Drug Delivery Systems: A Review	M.Sunitha Reddy, ManasaTadi	World journal of Pharmaceut icals Research	2019	Centre for Pharmaceutic al sciences, IST, JNTUH
A Review on Classification, Characterization, Synthesis, Application and Toxicity of Nanoparticles	M.Sunitha Reddy, Pallavi Sunduru	European Journal of Biomedical and Pharmaceut ical Sciences	2020	Centre for Pharmaceutic al sciences, IST, JNTUH
A Review on 'Synthesis of Silver Nanoparticles by Biological Approach"	M.Sunitha Reddy, Keerthi Reddy Sunkari	Internation al Journal of Pharmaceut ical Sciences Review and Research	2020	Centre for Pharmaceutic al sciences, IST, JNTUH
Bilayer Tablets: A Novel Technology: A Review	Sunitha Reddy M*, Bharath Dubashi	Journal of Global Trends in Pharmaceut ical	2020	Centre for Pharmaceutic al sciences, IST, JNTUH

		Sciences				
A Review on Proniosomes: Formulation, Characterization and Application	M.Sunitha Reddy, M Sheetal Lakum	American Journal of Pharmacy and Health Research	2020		Centre for Pharmaceutic al sciences, IST, JNTUH	
Solubility and dissolution enhancement of poorly aqueous soluble drug-Gefitinib by Self Emulsifying Drug Delivery Systems	M.Sunitha Reddy, B. Sindu Vahini	Internation al Journal of Pharmaceut ical and research	2020		Centre for Pharmaceutic al sciences, IST, JNTUH	
Proniosomes - A Novel Drug Delivery Carrier; A Review	Sunitha Reddy M*, Hemantha Lakshmi	Journal of Global Trends in Pharmaceut ical Sciences	2020		Centre for Pharmaceutic al sciences, IST, JNTUH	
A Review on Self Emulsifying Drug Delivery Systems	Sunitha Reddy M.* Pallavi Dongre	European Journal of Biomedical and Pharmaceut ical Sciences	2020		Centre for Pharmaceutic al sciences, IST, JNTUH	
Self-Emulsifying Drug Delivery System (SEDDS): An Approach To Increase The Solubility Of Lipophilic Drugs	Sowmya V	American Journal of Pharmacy and Health Research	2020		Centre for Pharmaceutic al sciences, IST, JNTUH	
Centre for Spatial Information and Technology (CSIT)						
NIL						
Centre for Water Resources (CWR)						
NIL						

3.4.7 Faculty pa	articipation in Seminars/Confe	e for Biotechnology (CBT)	guic CAT.	
	Centro	e for blottechnology (Cb1)		
No. of	T / / 11 1	N 4' 11 1	G 1 1	Local
Faculty	International level	National level	State level	level
Attended				
Seminars/		20		
Workshops				
Presented		<i>E</i>		
papers		5		
Resource				
Persons				
	Centre for Chen	nical Science & Technology (CCST)	
No. of	International level	National level	State level	Local
Faculty	international level	rational level	State level	level
Attended				
Seminars/	04	11	02	05
Workshops				
Presented	03	02		
papers	03	02		
Resource	01			
Persons				
	Centr	e for Environment (CEN)		
No. of				Local
Faculty	International level	National level	State level	level
Attended				IC VCI
Seminars/	1	4	5	4
Workshops	1	7	3	
Presented				
		2	2	4
papers Resource				
Persons			4	4
T CISONS	Centre for Nar	no Science and Technology (C	NST)	
		-		
No. of	International level	National level	State level	Local
Faculty	international level	rational level	State level	level
Attended				
Seminars/	02	03	02	02
Workshops				
Presented	02	02	02	02
papers	02	02	02	02
Resource	02	02	02	02
Persons				02
	Centre for	Pharmaceutical Sciences (CPS	S)	
No. of				Local
Faculty	International level	National level	State level	level
Attended				IC VCI
Seminars/	1	4	12	16
	1	'1	12	10
Workshops				

	Centre for Spatial	Information and Technology (CSI	Γ)	
No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	02	06	01	Seminar 01
	Ce	ntre for Water Resources (CWR)		
No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	1	4		icver
Presented papers	5	21		
3.5 Consulta 3.5.1 Revenue	ncy e generated from Consulta	ncy during the CAY		
	<u> </u>	Centre for Environment (CEN)		
Name of the Consultant(s) department	Name of Consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)	
centre for environment	water analysis	Bhagirata chemicals pvt ltd	0.10 lakhs	
centre for environment	water analysis	Bhagirata chemicals pvt ltd	0.50 lakhs	
centre for environment	water analysis	HMDA-HGCL, Hyderabad	0.50 lakhs	
centre for environment	Air quality, Water quality and ground water quality on JICA Phase-I & Phase-II stretch along ORR Hyderabad.	Bhagirata chemicals pvt ltd	4.38 Lakhs	
	Ce	ntre for Water Resources (CWR)		
Name of the Consultant(s) department	Name of Consultancy project	Consulting/Sponsoring Agency	Revenue generated (an rupees)	nount in
Centre for Water Resources	Identification of water wells points using Resistivity imaging at RR district	Consulting	Rs.50,000/-	
Centre for Water Resources	Identification of water well site at Appareddypally, Rangareddy district	Consulting	B 50 000/	
	Kangareudy district		Rs.50,000/-	

	using Resistivity Imaging survey					
3.5.2 Revenue	generated from Corpora	 te Training by the	e institution during the CA	Y		
	Centre for Spatial Information and Technology (CSIT)					
Name of the Consultant(s) &Department	Title of the Programme	Agency seeking training	Revenue generated (amount in rupees)	Number of trainees		
Infosys	Intermediate GIS concepts	Infosys	Rs.4 lakhs	200(8 batches)		

3.6 Extension Activities

3.6.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non-Government Organisations throughNSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the CAY

	rgamsations throt	iginvos/ivee/ked cross/ routil	Red Closs (TRC) etc		
Title of the	Date of	Organising unit/ agency/	Number of	Number of	Brief
Activities	Activity	collaborating agency	teachers	students	Description
			coordinated in	participated in	
			such activities	such activities	
Health camp-2019		JNTUH-IST	09	100	
Social Responsibilit y	01-02-2020	CNST,IST, JNTUH& S N Arts, D J M Commerce And B N S Science College, Sangamner- 422605(MS) institute working at rural area of Maharashtra	02	50	One day workshop on synthesis, characterizat ion and applications of Nanomateri als on 01-02-2020
Role of NSS in Nation Building – 28/08/19	NSS-IST- JNTUH		03	300	
50 years of NSS In nation building – 25/10/2019	NSS-UHC- JNTUH		03	250	
Mega Blood Camp – 18/12/2019	Red Cross Society- JNTUH		04	550	

3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the CAY

Name of the Ac				Awa	rding bodies		o. of Students nefited	
NSS			Recog	Recognition		ISKON		1
				vities with Gove thh Bharat, Aids				Sovernment c. during the CAY
Name of the scheme	Organising agency/ col agency		Name	of the activity		of teachers ted in such		per of students ipated in such ties
Health camp-	JNTUH-IS	T	Health	n camp	09		100	
NSS	JNTUH-IS	T	Cance	er awareness	09		60	
NSS	JNTUH-IS	T	Swach	nh bharath	09		60	
Equity Action Plan	CNST,IST	, JNTUH	A W "Se Socia Comn Educa A	ty Action Plan Two-Day Torkshop on Insitization of Illy Challenged nunities-Higher ation"7th & 8th ugust 2019 Ier TEQIP-III		02		200
Social Responsibilit y	CNST,IST, JNTUH& S N Arts, D J M Commerce And B N S Science College, Sangamner- 422605(MS) institute working at rural area of Maharashtra		on chara app Nan	day workshop n synthesis, cterization and plications of omaterials on 11-02-2020		02		50
3.7 Collaborati	ions							
		1		research, faculty			hange	
Nature of A	Activity	Partici Centre f	1	Source Source & T		al support (CCST)		Duration
Organic synthesis Ps3 laborate			From the group of pharma laboratoric (Dr.Reddy's, Mylan)		ries	3 years		
			Centr	e for Environme	nt (CEN)			
Nature of A	Activity	Partici	pant	Source of financial support			Duration	
M/s. Jeedimetla reatment plant on their effluen	working	2		TEQIP-III				1 year

M/s.	2	TEQIP-III	1 year
Ramkyenviroenginners			
joint R&D projects			
M/s. Unique biopharma	1	TEQIP-III	1 year
Ltd joint R&D project			
proposed			
CII GBC, Hyderabad	2	CII GBC	1 year
M/s. Global information	1		1 year
technologies			
NIRD Govt of India	1	TEQIP-III	1 year
Hyderabad			

Centre for Nano Science and Technology (CNST)

Nature of Activity	Participant	Source of financial support	Duration
GIAN course on "Cancer	30	MHRD	08-07-2019 to
Theranostics			12-07-2019,
Organized by Centre for Nano Science & Technology, Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad & MHRD			
One day workshop On Energy Storage (ES) Jointly Organized by Centre for Environment,	50	TEQIP-III	29-04-2019
& Centre for Nano Science & Technology Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad,			
Kukatpally, Hyderabad- 500085 (T.S) In collaboration with Dayalbagh Educational Institute (Deemed University) Dayalbagh, Agra - 282 005 (U.P)			
M.Tech Nanotechnology Students had gone for one week hands on training and to carryout joint research project on Nanotechnology Based Rapid Prototyping at Dayalbagh Educational	06	TEQIP-III	15-04-2019 to 20-04-2019

Institute (DEI), Agra.			
A Two-Week AICTE and	100	AICTE-TEQIP-III	04-11-2019 to
TEQIP-III Funded FDP on			16-11-2019
"Synthesis and			
Characterization of			
Nanomaterials"			
A One Week AICTE -	100	AICTE-TEQIP-III	06-07-2020 to
TEQIP-III Funded STTP			12-06-
Programme on			2020(Tentative)
Synthesis, characterization			
and its applications of			
Nanomaterials(Upcoming)			
Three Day Hands on	190	TEQIP-III	03-10-2019 to
Training on "Analaytical			05-10-2019
Instrumentation (ZETA			
SIZER, UV, TG-DTA,			
FTIR, XRD, PARTICLE			
SIZE ANALYZER)"			
Two Day workshop on	300	TEQIP-III	22-11-2019 to
"Women Occupational			23-11-2019
Health and Safety"			
from 22-11-2019.			

3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the CAY

Centre for Biotechnology (CBT)

Nature of	Title of the	Name of the partnering	Duration	participant
linkage	linkage	institution/ industry /research lab with contact details	(From-To)	
Institution	Project work	ICRISAT	6Months	K. SaiHarini 18031G0311
Institution	Project work	IICT	6Months	P. Divya 18031G0319
Institution	Projectwork	University of Hyderabad	6Months	M. Sushmitha 18031G0313
Institution	Projectwork	IICT	6Months	P.Sneha 18031G0320
Institution	Projectwork	IICT	6Months	B. Nandini 18031G0304
Institution	Projectwork	National centre for animal biotechnology (NIAB)	6Months	ThoutamSowmya 18031G0322
Institution and hospital	Projectwork	Institute of Genetics and hospital for genetic disorders	6Months	Sravani.K 18031G0309
Institution	Projectwork	University of Hyderabad	6Months	Naziya Begum 18031G0318

Institution	Projectwork	IICT	6Months	V.B.V.G.Vaibhav 18031G0324
				18031G0324
Institution	Projectwork	IICT	6Months	U.K.Aleta
				18031G0323
Institution	Projectwork	IICT	6Months	G.Apoorva 18031G0306
Institution	Projectwork	ICRISAT	6Months	M.Vineela 18031G0314
Institution	Projectwork	ICRISAT	6Months	D.Chandana 18031G0305
Institution	Projectwork	IICT	6months	M.Dhruthireddy 18031G0315
Institution	Projectwork	NDDB HYDERABAD	1 YEAR	Kavya 18031D301
Institution	Projectwork	NDDB HYDERABAD	1 YEAR	Jhansi 18031D303
Institution	Projectwork	NDDB HYDERABAD	1 YEAR	Sandhya 18031D304
Institution	Projectwork	NDDB HYDERABAD	1 YEAR	Poojita 18031D305
		Centre for Chemical Sci	iences &Technology	
Project Work	Project Work	IICT	1 year (Aug,2019- July2020)	01
Institution	Project work	NGRI	6 Months	
	v			18031 G 2201
Institution	Project work	Symed Research Centre	6 Months	18031 G 2206
Institution	Project work	Symed Research Centre	6 Months	
Institution	Project work	Symed Research Centre	6 Months	18031 G 2208 18031 G 2210
Institution	Project work	Hetero Pharma Ltd	6 months	18031 G 2213
Institution	Project work	Hetero Pharma Ltd	6 Months	18031 G 2214
Institution	Project work	IICT	6 Months	18031 G 2215
Institution	Project work	Symed Research Centre	6 Months	18031 G 2217
Institution	Project work	Hetero Pharma Ltd	6 Months	18031 G 2218
Institution	Project work	IICT	6 Months	18031 G 0802

Institution	Project work	Innovare labs	6 Months	
	J			18031 G 0810
Institution	Project work	IICT	6 Months	18031 G 0811
Institution	Project work	IICT	6 Months	18031 G 0818
Institution	Project work	Virchow Biotech	6 Months	18031 G 0820
	I	Centre for Environ	ment (CEN)	
Nature of	Title of the	Name of the partnering	Duration	norticinant
linkage	linkage	Name of the partnering institution/ industry /research lab with contact details	(From-To)	participant
Project work	Project work	M/s. Mobiterra PVT ltd	One year	2
		M/s.Tricad design consultant pvt ltd	One year	2
		M/s. RSI Hyderabad	One year	2
		CII GBC, hyderabad	One year	2
		M/s. Jeedimetla effluent treatment plant	One year	2
		M/s. Ramkyenviroenginners	One year	2
		M/s. Unique biopharma Ltd	One year	1
		Centre for Nano Science and	l Technology (CNST)	
Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participant
Summer Internship	Synthesis of Silica Nano particles by solgel	Nano Span Pvt. Ltd.	1 st May, 2019 to 2 nd June, 2019	01
		Centre for Pharmaceutic	eal Sciences (CPS)	
Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participant
M. Pharmacy Project	F R&D A R&D BA R&D Natural products chemistry	1. DeawongPvt.ltd (04044668800) 2. Neuheit Pharma Technologies.Pvt.Ltd(091009 48789) 3. CSIR-IICT (04027193234) 4. VRKR Ayurvedic Hospital, Erragadda (040 2381 0236)	22/07/2019 – 23/05/2020	16

		5. RA Chem Pharmaceuticals		
		Centre for Spatial Information a	and Technology (CSIT)	
		Sparan Imor marion	ina reemiologj (e.e.r.)	
Nature of	Title of the	Name of the partnering	Duration	participant
linkage	linkage	institution/ industry	(From-To)	
		/research lab with contact		
		details		
Project	Internship	1.Geosys	(29 th June 2020 to	13
work		2.kreetos	29 th august 2020)	
		Centre for Water Reso	ources (CWR)	
Nature of	Title of the	Name of the partnering	Duration	participant
linkage	linkage	institution/ industry	(From-To)	
		/research lab with contact		
		details		
Project	Aerated Wet	M/s. Blue drop	6 months	V.Sujana
work	Lands:	Environ Ltd		18031d5916
	Sustainable			
	Nature Based			
	Solution For			
	Present And			
	Future Socio			
	Environment			
	And Climate			
	Change			

Organisation	Date of MoU	Purpose and	Number of students/teachers
_	signed	Activities	participated under MoUs
	Centre for Pha	rmaceutical Sciences (CPS)
Neuheit Pharma	18-03-2020	Industrial	Teachers- 09
Technologies		Training &	Students -53
_		visits,	
		Internships and	
		Placements,	
		Research and	
		Development,	
		Students	
		Projects, Skill	
		Development	
		programmes,	
		Guest lectures,	
		Faculty	
		development	
		Programmes	

	ION IV – INFRASTRUCTURE	AND LEARNI	NG RESOUR	RCES		
4.1 Physical						
	allocation, excluding salary for in					
Budget	allocated for infrastructure	Budget ut	ilized for infra	structure development		
	augmentation					
CBT	13.2 laksh	1.75 la				
CCST	NIL		NII	L		
CEN						
CNST	Rs.8,40,164/-(Equipments)]	Rs.8,40,164/-(Equipments)		
CPS						
CSIT						
CWR	Rs.52,92,000/-		Rs.56,05	5,000/-		
4.1.2 Details	of augmentation in infrastructu					
	Centre for 1	Biotechnology (C		1		
Facilities			Existing	Newly added		
Campus area						
Class rooms			04	00		
Laboratories			11	01		
Seminar Hall			01	00		
Classrooms v	with LCD facilities		00	03		
	with Wi-Fi/ LAN		04	00		
Seminar halls	s with ICT facilities		03	01		
Video Centre			03	01		
-	tant equipments purchased (≥ 1-0	lakh) during	13	00		
the current ye		aan (Da in	60.00.257	00		
Lakhs)	equipment purchased during the ye	ear (RS. III	69,99,357	00		
Others			00	00		
Others	Centre for Chemical	Science & Techr		00		
Facilities	002002010202002000	<u> </u>	Existing	Newly added		
Campus area						
Class rooms			04	Nil		
Laboratories			05	01		
Seminar Hall	ls		01	Nil		
	with LCD facilities		04	Nil		
	with Wi-Fi/ LAN		NIL	Nil		
	s with ICT facilities		01	-		
Video Centre			-	-		
No. of impor	tant equipments purchased (≥ 1-0	lakh) during	-	06		
the current ye						
Value of the Lakhs)	equipment purchased during the year	ear (Rs. in	-	Mass Spectrometer-36.0 Digital dual column Gas		
				chromatograph -5 Lakhs Polarimetre – 4.03		
				Parallel synthesizer -		
				4.25		
	Control Pro-	Environment (C	TEN)	TOTAL -49.78 lakhs		
Facilities	Centre for	Environment (C		Newly added		
			Existing	Newly added		
Campus area			02	_		

Class rooms	11	
		-
Laboratories	Nil	<u>-</u>
Seminar Halls	02	-
Classrooms with LCD facilities	02	-
Classrooms with Wi-Fi/ LAN	Nil	-
Seminar halls with ICT facilities	Nil	-
Video Centre		
No. of important equipments purchased (≥ 1 -0 lakh) during the current year.	5 lakhs	36.72 lakhs
Value of the equipment purchased during the year (Rs. in	54 lakhs	40 lakhs
Lakhs)	54 lakiis	TO TAKITS
Centre for Nano Science and Techno	ology (CNST)	
Facilities	Existing	Newly added
Campus area	764 sq.m	-
Class rooms	1	_
Laboratories	7	
Seminar Halls	1	
Classrooms with LCD facilities	1	-
Classrooms with Wi-Fi/ LAN	NIL	
Seminar halls with ICT facilities	1	-
Video Centre		-
	NIL 10	-
No. of important equipments purchased (≥ 1-0 lakh) during the current year.2019-20	10	-
Value of the equipment purchased during the year (Rs. in	2823686/-	-
Lakhs) 2019-20	2023000/-	_
Centre for Pharmaceutical Scien	ces (CPS)	
	(015)	
Facilities	Existing	Newly added
Campus area		y
Class rooms	168sq.mtrs	
Laboratories	475sq.mt	
Seminar Halls	. , e squiis	
Classrooms with LCD facilities	168sqm	
Classrooms with Wi-Fi/ LAN	10054111	
Seminar halls with ICT facilities		
Video Centre		
No. of important equipments purchased (≥ 1-0 lakh) during		
the current year.		
Value of the equipment purchased during the year (Rs. in	1,92,000/-	Computers 06 Nos
Lakhs)	1,72,000/-	Computers of 110s
,	chnology (CSIT)	
Centre for Spatial Information and Te		Newly added
Centre for Spatial Information and Tec Facilities	chnology (CSIT) Existing	Newly added
Centre for Spatial Information and Tea Facilities Campus area		Newly added
Centre for Spatial Information and Tec Facilities Campus area Class rooms	Existing	Newly added
Centre for Spatial Information and Tec Facilities Campus area Class rooms Laboratories	Existing 02	Newly added
Centre for Spatial Information and Tec Facilities Campus area Class rooms Laboratories Seminar Halls	Existing 02 02	Newly added
Centre for Spatial Information and Tec Facilities Campus area Class rooms Laboratories Seminar Halls Classrooms with LCD facilities	02 02 02 02	Newly added
Centre for Spatial Information and Tec Facilities Campus area Class rooms Laboratories Seminar Halls Classrooms with LCD facilities Classrooms with Wi-Fi/ LAN	02 02 02 02 02	Newly added
Centre for Spatial Information and Tec Facilities Campus area Class rooms Laboratories Seminar Halls Classrooms with LCD facilities	02 02 02 02	Newly added

	nents purchased	$(\geq 1-0 \text{ lakh})$	during	N	NIL	
the current year.			.			057.11
Value of the equipment Lakhs)	purchased durin	ng the year (Rs. in			05 Lakhs
,	Centr	re for Water	Resourc	es (CWR)	<u>'</u>	
Facilities				Exi	isting	Newly added
Campus area						•
Class rooms				(01	
Laboratories				-	03	
Seminar Halls				-	01	
Classrooms with LCD fa	acilities			(01	
Classrooms with Wi-Fi/	LAN			(01	
Seminar halls with ICT	facilities			(01	
Video Centre					-	
No. of important equipm	nents purchased	$(\geq 1-0 \text{ lakh})$	during	(03	
the current year.	1	,	C			
Value of the equipment	purchased durin	ng the year (Rs. in	Rs.9	,72,09	30 new computers
Lakhs)	=	- • •			0/-	1
4.2 Library as a Learn	ing Rosauras					
4.2.1 Library is automat		Library Man	agement	System -	-ILMS}	
Name of the ILMS	Nature of auto	mation (full	v or V	ersion		Year of automation
software	partially)					
NIL	NIL		N	Τ.		NIL
						1 1112
4.2.1 Library Services:						TVIL
4.2.1 Library Services:	Cer	ntre for Biote	I			THE
4.2.1 Library Services:	Cer Existi	ntre for Biote	I		ded	Total
4.2.1 Library Services:			I	y (CBT)	ded No.	
4.2.1 Library Services: Text Books	Existi	ng	chnolog	y (CBT) Newly ad		Total
·	Existi No.	ng Value	chnolog No.	y (CBT) Newly ad Value	No.	Total Value
Text Books	Existi No. 230	value 77520	No.	y (CBT) Newly ad Value 0	No.	Total Value 77520
Text Books Reference Books	Existi No. 230 100	rig Value 77520 1,54513	No.	y (CBT) Newly ad Value 0 0	No. 0 0	Total Value 77520 1,54,513
Text Books Reference Books e-Books	Existi No. 230 100 20	rg Value 77520 1,54513 Free	No. 0 0	y (CBT) Newly ad Value 0 0	No. 0 0 0	Total Value 77520 1,54,513 0
Text Books Reference Books e-Books Journals	Existi No. 230 100 20 40	value 77520 1,54513 Free Free	No. 0 0 0 0	y (CBT) Newly ad Value 0 0 0	No. 0 0 0 0 0	Total Value 77520 1,54,513 0 0
Text Books Reference Books e-Books Journals e-Journals	Existi No. 230 100 20 40 20	Value 77520 1,54513 Free Free Free	No. 0 0 0 0 0	y (CBT) Newly ad Value 0 0 0 0	No. 0 0 0 0 0 0 0	Total Value 77520 1,54,513 0 0 0
Text Books Reference Books e-Books Journals e-Journals Digital Database	Existi No. 230 100 20 40 20 0	rg Value 77520 1,54513 Free Free Free 0	No. 0 0 0 0 0 0 0	y (CBT) Newly add Value 0 0 0 0 0 0	No. 0 0 0 0 0 0 0 0 0	Total Value 77520 1,54,513 0 0 0 0
Text Books Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard &	Existi No. 230 100 20 40 20 0	ring Value 77520 1,54513 Free Free Free 0 0	No. 0 0 0 0 0 0 0 0	y (CBT) Newly ad Value 0 0 0 0 0 0 0	No. 0 0 0 0 0 0 0 0 0 0 0	Total Value 77520 1,54,513 0 0 0 0 0
Text Books Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation	Existi No. 230 100 20 40 20 0 0	ring Value 77520 1,54513 Free Free Free 0 0 0	No. 0 0 0 0 0 0 0 0 0 0 0	y (CBT) Newly adv Value 0 0 0 0 0 0 0 0 0 0 0	No. 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Value 77520 1,54,513 0 0 0 0 0 0 0
Text Books Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify)	Existi No. 230 100 20 40 20 0 0 0 0	ring Value 77520 1,54513 Free Free 0 0 0 0 0	No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0	y (CBT) Newly add Value 0 0 0 0 0 0 0 0 0 0 0 0 0	No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Value 77520 1,54,513 0 0 0 0 0 0 0 0
Text Books Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify)	Existi No. 230 100 20 40 20 0 0 0 0 mical Science &	Value 77520 1,54513 Free Free 0 0 0 0 0	No. 0 0 0 0 0 0 0 0 (CCST)	y (CBT) Newly advantage of the second of th	No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Value 77520 1,54,513 0 0 0 0 0 0 0 0 0 0 0
Text Books Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify)	Existi No. 230 100 20 40 20 0 0 0 0 0 Emical Science &	rechnology ng Value 77520 1,54513 Free Free 0 0 0 0 0 Technology	No. 0	y (CBT) Newly added Value 0 0 0 0 0 0 0 0 0 0 y added	No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Value 77520 1,54,513 0 0 0 0 0 0 0 0 0 0 Total
Text Books Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify) Centre for Che	Existi No. 230 100 20 40 20 0 0 0 mical Science & Existi No.	Value	No. 0 0 0 0 0 0	y (CBT) Newly ad Value 0 0 0 0 0 0 0 0 0 0 y added Value	No. 0 0 0 0 0 0 0 0 0 0 0 0 0 No.	Total Value 77520 1,54,513 0 0 0 0 0 0 0 0 0 Total Value
Text Books Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify)	Existi No. 230 100 20 40 20 0 0 0 0 0 Emical Science &	rechnology ng Value 77520 1,54513 Free Free 0 0 0 0 0 Technology	No. 0	y (CBT) Newly added Value 0 0 0 0 0 0 0 0 0 0 y added	No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Value 77520 1,54,513 0 0 0 0 0 0 0 0 0 0 Total
Text Books Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify) Centre for Che	Existi No. 230 100 20 40 20 0 0 0 0 mical Science & Existi No. 430	Value 77520 1,54513 Free Free 0 0 0 0 Technology rg Value 4.00	No. 0 0 0 0 0 0 0	y (CBT) Newly ad Value 0 0 0 0 0 0 0 0 0 0 y added Value 1.00	No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 490	Total Value 77520 1,54,513 0 0 0 0 0 0 0 0 0 Total Value
Text Books Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify) Centre for Che	Existi No. 230 100 20 40 20 0 0 0 mical Science & Existi No.	Value 77520 1,54513 Free Free 0 0 0 0 Technology rg Value 4.00	No. 0 0 0 0 0 0	y (CBT) Newly ad Value 0 0 0 0 0 0 0 0 0 0 y added Value 1.00	No. 0 0 0 0 0 0 0 0 0 0 0 0 0 No.	Total Value 77520 1,54,513 0 0 0 0 0 0 0 0 0 Total Value

e-Journals	_					_
Digital Database	Nil	Nil	Nil	Nil	Nil	Nil
CD & Video	Nil	Nil	Nil	Nil	Nil	Nil
Library automation	Nil	Nil	Nil	Nil	Nil	Nil
Weeding (Hard &	Nil	Nil	Nil	Nil	Nil	Nil
Soft)	1411	1111	1111	1 111	1111	1111
Others (specify)	Nil	Nil	Nil	Nil	Nil	Nil
others (specify)		ntre for Env			1111	1111
				(0211)		
	Existi	ng	Newl	y added		Total
	No.	Value	No.	Value	No.	Value
Text Books	545	12.0	Nil		545	12.0 lakhs
		lakhs				
Reference Books	55	1.65			55	1.65 lakhs
		lakhs				
e-Books						
Journals						
e-Journals						
Digital Database						
CD & Video						
Library automation						
Weeding (Hard &						
Soft)						
Others (specify)						
	Centre for N	Vano Science	and Tec	hnology (C	CNST)	
	Existi	nσ	Marri	111		Total
1		112	Newi	y added		10141
	No.	Value	No.	y added Value	No.	Value
Text Books	No. 13	Value 20,000/-		, , , , , , , , , , , , , , , , , , , ,	No.	r
Reference Books	No. 13 10	Value		, , , , , , , , , , , , , , , , , , , ,	No.	r
	No. 13 10 2500	Value 20,000/-		, , , , , , , , , , , , , , , , , , , ,	No.	r
Reference Books	No. 13 10 2500 500	Value 20,000/- 15,000/-		, , , , , , , , , , , , , , , , , , , ,	No.	r
Reference Books e-Books Journals e-Journals	No. 13 10 2500	Value 20,000/- 15,000/-		, , , , , , , , , , , , , , , , , , , ,	No.	r
Reference Books e-Books Journals e-Journals Digital Database	No. 13 10 2500 500	Value 20,000/- 15,000/-		, , , , , , , , , , , , , , , , , , , ,	No.	r
Reference Books e-Books Journals e-Journals Digital Database CD & Video	No. 13 10 2500 500	Value 20,000/- 15,000/- - -		, , , , , , , , , , , , , , , , , , , ,	No.	r
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation	No. 13 10 2500 500	Value 20,000/- 15,000/- - -		, , , , , , , , , , , , , , , , , , , ,	No.	r
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard &	No. 13 10 2500 500	Value 20,000/- 15,000/- - -		, , , , , , , , , , , , , , , , , , , ,	No.	r
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft)	No. 13 10 2500 500	Value 20,000/- 15,000/- - -		, , , , , , , , , , , , , , , , , , , ,	No.	r
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard &	No. 13 10 2500 500 3000	Value 20,000/- 15,000/	No.	Value		r
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft)	No. 13 10 2500 500 3000	Value 20,000/- 15,000/	No.	Value		
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft)	No. 13 10 2500 500 3000 Centre fo	Value 20,000/- 15,000/	No.	Value Value		Value
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft)	No. 13 10 2500 500 3000 Centre fo	Value 20,000/- 15,000/	No.	Value Ciences (CF y added	PS)	Total
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify)	No. 13 10 2500 500 3000 Centre fo	Value 20,000/- 15,000/	No. Putical So Newl No.	Value Value		Value
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify) Text Books	No. 13 10 2500 500 3000 Centre for Existing No	Value 20,000/- 15,000/	No. No. Newl No.	Value Ciences (CF y added Value	PS) No.	Total Value -
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify) Text Books Reference Books	No. 13 10 2500 500 3000 Centre for Existing No	Value 20,000/- 15,000/	No. Putical So Newl No. -	Value viences (CF y added Value -	No	Total
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify) Text Books Reference Books e-Books	No. 13 10 2500 500 3000 Centre for Existing No	Value 20,000/- 15,000/	No. Peutical So Newl No.	Value ciences (CF y added Value	No	Total Value -
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify) Text Books Reference Books e-Books Journals	No. 13 10 2500 500 3000 Centre for Existing No	Value 20,000/- 15,000/	No. Newl No	Value Ciences (CF y added Value	No	Total Value
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify) Text Books Reference Books e-Books Journals e-Journals	No. 13 10 2500 500 3000 Centre for Existing No	Value 20,000/- 15,000/	No. Peutical So Newl No.	value ciences (CF y added Value	No	Total Value -
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify) Text Books Reference Books e-Books Journals e-Journals Digital Database	No. 13 10 2500 500 3000 Centre for Existing No	Value 20,000/- 15,000/	No. No. Newl No	Value Ciences (CF y added Value	No	Total Value
Reference Books e-Books Journals e-Journals Digital Database CD & Video Library automation Weeding (Hard & Soft) Others (specify) Text Books Reference Books e-Books Journals e-Journals	No. 13 10 2500 500 3000 Centre for Existing No	Value 20,000/- 15,000/	No. Peutical So Newl No.	value ciences (CF y added Value	No	Total Value

Weeding (Hard &	-	-	-	-	-	-
Soft)						
Others (specify)	-	-	-	-	-	-
	Centre for Spa	tial Informa	tion and	Technology	y (CSIT)	
	Existi	ng	Newl	y added		Total
	No.	Value	No.	Value	No.	Value
Text Books	185		Nil			
Reference Books	Nil					
e-Books	05					
Journals	Nil					
e-Journals	1271					
Digital Database	05					
CD & Video	Nil					
Library automation	Nil					
Weeding (Hard & Soft)	Nil					
Others (specify)	Nil					
	Centi	re for Water	Resourc	es (CWR)		
	Existi	ng	Newl	y added		Total
	No.	Value	No.	Value	No.	Value
Text Books	250					
Reference Books	-					
e-Books	18					
Journals	-					
e-Journals	3000					
Digital Database						
CD & Video						
Library automation						
Weeding (Hard & Soft)						
Others (specify)						

	Infrastru								
4.3.1 Te	chnology	<u>Upgradatio</u>							
	T . 1	Q .		Centre for Bio			<u> </u>	4 '1 11	0.1
	Total Compu ters	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MGBPS)	Others
Existing	15	01	01	01	01	01	01	95	00
Added	00	00	00	00	00	00	00	00	00
Total	15	01	01	01	01	01	01	95	00
	Total	Computer	Internet	Chemical Sc Browsing	Computer	Office	Departments	Available	Others
	Compu ters	Labs	mternet	Centres	Centres	Office	Departments	band width (MBPS/G BPS)	Others
Existing	09	01	90MBPS	01	01	01	01	90MBPS	Nil
Added	01	-	90MBPS	-	-	-	-	90MBPS	NIL
Total	10	01	90MBPS	01	01	01	01	90MBPS	Nil
			(Centre for E	nvironment ((CEN)	L	I.	
	Total Compu ters	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MBPS/G BPS)	Others
Existing	70	1	yes	yes	yes	yes	Cen	50	
Added									
Total	70	1							
				r Nano Scien					
	Total Compu ters	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MBPS/G BPS)	Others
Existing	25	20	LAN	1	1	3	1	100 MBPS	
Added	Added	-	-	-	-	-	-	_	-
Total	Total	30	1	1	1	3	1	100 MBPS	
			Centre	e for Pharma	centical Scie	ences (CPS)			
	Total Compu ters	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MBPS/G BPS)	Others
Existing	10	02	01	02	01	01	03	90MMBS	
Added	08	-	-	02	-	-	-		
Total	18	02	01	04	01	01	03		
	T . 1			patial Inforn				A 11.1.1	0.1
	Total Compu ters	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MBPS/G BPS)	Others
Existing	75	03	75	03	No	02	01	10mbps	

Added	Nil									
Total	75	03	75	03	No					
	, 0					02	01			
				Centre for Wate			_			
	Total Compu ters	Computer Labs	Interne	t Browsing Centres	Compute: Centres		Departme	ban (M	ailable d width BPS/G BPS)	Others
Existing	55	02	01	01	01	01	01		MBPS	00
Added										
Total										
				,		,	1			
4.3.2 Ba	ndwidth	available of	internet	connection in	the Institu	ition (Leased	line)			
	400	MBPS /	GBPS							
4.3.3 Fa	acility for	e-content								
Name of	f the e-co	ntent develo	pment f	acility		the link of th	e videos a	nd media	a centre	and
					recordir	ng facility				
CN	ST	Мо	odle Pla	tform		kalagadda	vrao.mood	llecloud.	com	
CW	/R	NP	TEL S	WAYAM	-					
				rs such as: e-Po						
	*			platform NPTI		CT/any other	Governme	ent initia	tives &	
				System (LMS)		DI (C	1 ' 1	1 1 '	Б.	C
Name of	f the teacl	ner	Nan	ne of the modu	le	Platform on developed	wnich mod	iule is	Date of	or ing e –
						developed			conter	_
		NI	Γ.						Conten	11
		NI								
	. 4	of Campus	Infrast	ructure	I				<u> </u>	
4.4 Mai	ntenance	or Campus						4 C '1'	ties, exc	cluding
				enance of phys	sical facili	ities and acad	emic supp	ort facili		
4.4.1 Ex	penditure		mainte	enance of phys	sical facili	ties and acad	emic supp	ort facili		
4.4.1 Ex salary co	penditure omponent ned budg	e incurred on t, during the et on acaden	mainte year	Expenditure in	curred	Assigned bud	get on F	Expendit	ure incu	
salary co	penditure omponent	e incurred on t, during the et on acaden	mainte year	Expenditure in on maintenan	curred ace of		get on F	Expendit naintena	ure incu	
4.4.1 Ex salary co	penditure omponent ned budg facil	e incurred on t, during the et on acaden ities	mainte year nic	Expenditure in on maintenan academic faci	curred ace of ilities	Assigned bud physical fact	lget on E	Expendit naintena	ure incunce of pacilities	hysica
4.4.1 Ex salary co	penditure omponent ned budg facil	e incurred on t, during the et on acaden ities	mainte year nic	Expenditure in on maintenan academic faci	curred ace of ilities 4000/-	Assigned bud physical fact	get on F	Expendit naintena	ure incunce of pacilities	
4.4.1 Ex salary co Assig	penditure omponent ned budg facil CNS	e incurred on t, during the et on acaden ities ST 11,80, PS 1,20	mainte year nic 000/- 0,000	Expenditure in on maintenan academic faci	curred ace of dilities 44000/- 33000	Assigned bud physical fact 26,4	lget on Filities r	Expendit naintena fa	ure incurse of pacilities 26,4	hysica
4.4.1 Exsalary co Assig	penditure omponent ned budg facil CNS CI rocedure	e incurred on t, during the et on acaden ities ST 11,80, PS 1,20 s and policies	mainte year nic 000/- 0,000 esfor ma	Expenditure in on maintenan academic facing 114	curred ace of dilities 4000/-33000 tilizingph	Assigned bud physical factors 26,4 ysical,acaden	get on Filities r	Expendit naintena fa port faci	ure incurse of pacilities 26,4	ohysica 46,236/
4.4.1 Exsalary consists Assigned 4.4.2 Properties and the second	penditure omponent ned budg facil CNS CI rocedure ry, librar	e incurred on t, during the et on acaden ities ST 11,80, PS 1,20 s and policies	mainte year nic 000/- 0,000 esfor maplex,cor	Expenditure in on maintenan academic facing 114 aintaining and unputers, classro	curred ace of dilities 4000/-33000 tilizingph	Assigned bud physical factors 26,4 ysical,acaden	get on Filities r	Expendit naintena fa port faci	ure incurse of pacilities 26,4	ohysica 46,236/

CRITERION V - STU	DENT SUPPORT AND PR	OGRESSION	
5.1 Student Support			
5.1.1 Scholarships and	Financial Support		
	Name /Title of the scheme	Number of students	Amount in Rupees
	Centre for Biot	echnology (CBT)	
Financial support from	Financial Assistance for		
institution	Project work under	4	80,000
	R&D, TEQIP III		,
		Sciences & Technology	
Financial support from	Financial Assistance for		
institution	Project work under	01	20,000
mstration .	R&D, TEQIP III		20,000
Financial support from o	· · · · · ·		
Tillancial support from (e and Technology (CNST)
	Centre for Nano Science	e and reciniology (CNS1	,
a) National	GATE STIPEND	M.Tech(NT) 2018-20	
.,		batch	1,32,000/-
		(11 Students)	1,32,000/
		M.Tech(NT) 2019-21	
		batch	1 22 000/
		(11 Students)	1,32,000/-
b) International	Financial assistance for	M.Tech(NT) 2018-20	2,00,000/-
-,	project work under R & D	batch	_,;;;;;;
	component of TEQIP III	(10 Students)	
	`	eutical Sciences (CPS)	
	Centre for 1 har mac	cutical sciences (CIS)	
a) National	GPAT & Scholarships	53	2,97,600/- (per student)
u) I (utional	(BC, SC, Minority		_,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
b) International			
b) International	Centre for Spatial Informa	tion and Technology (CS	SIT)
	Centre for Spatial Informa	ation and Teemiology (Ca	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
a) National	GATE	12	1,44,00000
b) International	CINE		
b) International			
5 1 2 Number of senshil	lity enhancement and develor	mant sahamas suah as C	oft skill dayslanmant
	•		•
•	nguage lab, Bridge courses,	loga, Meditation, Perso	nai Counsening and
Mentoring etc.,	P. C	NT 1 C 4 1	
Name of the capabi	· · · · · · · · · · · · · · · · · · ·	Number of studer	nts Agencies involved
enhancement scher	<u> </u>	enrolled	
	Centre for Chemical Scient	ence & Technology (CCS)	Γ)
COET CIVII I C	2019	26	TEOD
SOFT SKILLS		36	TEQIP
Remedial coaching	August 2019	36	TEQIP-III
Mentoring	August 2019	36	TEQIP-III
	Centre for Env	rironment (CEN)	
	2010		
Communication soft skills	August 2019	32	TEQIP-III
CATE agains	A	20	TEOD III
GATE coaching	August 2019	32	TEQIP-III
Remedial coaching	August 2019	32	TEQIP-III
· · · · · · · · · · · · · · · · · · ·	<i>6</i>		

Mentoring		August 2019		32		TEQIF	P-III
	C	Centre for Nano Scienc	e an	d Technology (CNST)		l	
Personal Counselling and Mentoring	d	03-09-2019		M.Tech(Nanotechnolo) 2019-21 batch (12 Students)	gy	TEQIP-III	
Personal Counselling and Mentoring	d	22-07-2019		M.Tech(Nanotechnolo) 2018-20 batch (12 Students)	gy	TEQIP-II	
Soft skill development (Psychometric Test)		14-03-2020		M.Tech(Nanotechnolo) 2019-21 batch (12 Students) M.Tech(Nanotechnolo) 2018-20 batch (12 Students)		CII JNTUH	
GATE Coaching		21-09-2019		M.Tech(Nanotechnolo) 2018-20 batch (08 students)	gy	TEQIP-III	
GATE Coaching		21-09-2019		M.Tech(Nanotechnolo) 2019-20 batch (01 student)	gy	TEQIP-III	
Art of living program	f living program		28-08-2019 to 31-08- 2019		M.Tech(Nanotechnology) 2019-20 batch (12 students)		
Employability Assessme	nt Test	29-08-2019		M.Tech(Nanotechnolo) 2018-20 batch (12 students)	gy	TEQIP-III	
Soft skill Training Progra	amme	05-08-2019 to 07-08- 2019	-	M.Tech(Nanotechnolo) 2018-20 batch (12 students)	gy	TEQIP-III	
	Cen	tre for Spatial Informa	atior	and Technology (CSI	T)		
Soft skills develop	ment	15-09-2019 Centre for Water	r Re	13 sources (CWR)		TEQII	P-III
Remedial coachi	ng,	30th December 201 to 4 th January 2020		14		At Centre for Resources De	
5.1.3 Students benefite institution during the y		dance for competitive	exa	minations and career of	cou	nselling offered	by the
Year Name of the scheme	Numb by Gu	per of benefited students aidance for Competitive ination	stu	umber of benefited dents by Career nunselling activities	stu pa	umber of idents who have ssed in the impetitive exam	Number of students placed
I		Centre for Env	viroi	nment (CEN)	<u>I</u>		I
2019 Student orientation	32		32				

r	orogram					
		Cen	tre for Nano Sc	cience and Technology (CNST)	_
2019-20	GATE E	Exam-	09	09	04	02
	2020 Co					
2019-20	Soft skil developi (Psychon Test)	ment	24	24	02	02
2019-20	019-20 Employability Assessment Test		12	12	06	02
harassmen	t and raggii	ng cases duri	ng the year		ent grievances, Preventio	
Total griev	vances rece	ived	No. of griev	vances redressed	Average number of day grievance redressal	rs for
	СВТ	0	1	01		1 Weel
	CPS	0	2	02		2day:
5.2 Studer	nt Progress	sion				
5.2.1 Detai			during the year	ar	0.00.0	
		campus		N	Off Campus	37 1
Name		Number of		Name of	Number of Students	Number
Organiz Visit		Students Participated	of Students Placed	Organizations Visited	Participated	of Students Placed
			Tacca	CCST		1 lacca
Hetero	Drugs	25	04	Burger Paints	02	01
GVK Labo		25	07	Spandana Laboratories	01	01
			Centre for	Environment (CEN)		
				India post, bhimavaram division		
				Mailid.dobhimavram .ap@indiapost.gov. in	2	1
				AE, TSSPDCL,	5	1
				AEE, RWS &S Govt	6	1

			of Telangana		
			AEE, RWS &S Govt of Telangana	5	1
			Environmental. Engineer, GHMC, Hyderabad	6	1
			Engineer, CII, GBC, Hyderabad	4	1
1	Centro	e for Nano So	cience and Technology (CNST)	
NIL	NIL	NIL	DST SERB CORE Project	01	01
			DST SEED Project Airport Authority of India	01	01
			Indian Railways ITI Limited PSU	02 01	02 01
			(A Govt of India undertaking)		
			Advance systems Laboratory (DRDO)	01	01
			Panchayat and Rural Development Department Govt of Telangana	01	01
L	Ce	ntre for Pha	rmaceutical Sciences (C)	PS)	
Neuheit Pharma Technologies.Pvt.L td	34	02	Aziant Drug Research Solution(P) Ltd	06	04
DeawongPvt.ltd	28	02	GVK Bio Pharma	01	01
			GD Research Centre Private Limited	04	02
			Chantilly BioPharmaPvt,Ltd	02	02
			Aurobindo Pharma Limited	01	01
			Etico Lifesciences PVT. LTd.	01	01
		Centre for V	Vater Resources (CWR)		
NIL		NA		NA	4

	ident progression to higher ed		<u> </u>	T	T
Year	Number of students enrolling	Programme graduated	Department graduated	Name of	Name
	into higher education	from	from	institution joined	of
					Progra
					mme
					admitt
					ed to
2019	4	M.Tech (WET)	Centre for Water	IST,JNTUH	Ph.D
			resources, IST, JNTUH		in
					JNTU
					Н
	2	M.Sc (WES)	Centre for Water	IST,JNTUH	Ph.D
			resources, IST, JNTUH		in
					JNTU
					Н

5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET		
SET		
GMAT		
CAT		
GRE		
TOFEL		
Civil Services		
State Government Services		
Any Other		
SLET		
GATE	Sandhya Enja	BT20S31404022
	Rajesh B	XL2031404078
	Somya thotam	BT20S37413014
	G. Ramakrishna	CE18S81419803
	Dharmendra Kumar	ME19S11402857
	K. Bhavani	CE19S71406370
	V. Rambabu	CE19S81405089
	G. Sai Chandu	CE19S71405275
	M. Vamshi	CE19S71405830
	J. Omprakash	CE19S87132108
	K. Vamshidhar	CE18S87150001
	A.S.Niharika	CE19S81401325
	L. Rakshna Kumar	CE18S81409462
	S. Mahendar	CE17S81402145
	V.KedariSameendar	CE19S73008364
	Raju Ramavath	CE19S81406169
	B. Hari Prakash	CE19S81406512
	M. Swathi	CE19S81401389

M. Jahnavi	CE19S81404407
Ch. Deepthi	CE19S71404163
M. Mahesh	EE19S61401306
K. Karthik Sai	EE19S61407221
N. Jyothsna	CE19S87121003
J. Gopinath	EE19S61408852
V.Devisharada	CE20S87408041
G.Shashank Reddy	CE20S81406983
E Ramani	CE20S71406607
K Srikant	CE20S87416030
V.Vijay	EC20S41401720
E.Mounavi	EE20S51404035
K.Uttej Rao	CE20S81401780
M.Kiran	EE20S51402521
P.Mahesh	CE20S71404460
P.Harish	CE20S81404986
I AIMIDII	ME20S21406302
	ME20S21400302 ME20S21405471
	ME20S21401492
	CE20S71401335
	19031S0701
	19031S0702
	19031S0703
	19031S0704
	19031S0401
	19031S0402
	19031S0403
	19031S0404
	19031S0406
	19031S0407
	19031S0408
	19031S0409
	19031S0410
	19031S0411
	19031S0301
	19031S0302
	19031S0303
	19031S0304
	19031S0305
	19031S0306
	19031S0307
	19031S0308
	19031S0309
	19031S0310
	19031S0311
	19031S0314
Bhukya Rooplal	CE19S77131046
Panchala Mounika	CE19S87120054
Cherupuri Dileep Yadav	CE19S71404127
Vanaparthy Pranay	CE19S71404619
1	

Dade Balakrishna	CE19S71404383
Chiliveru Ajith	CE19S81405686
Kamperla Mounika	CE19S81401342
T. Ashish Reddy	CE19S71405662
Nakkala Suresh Yadav	CE19S77134094
Gaddala Nitin	CE19S71407096
Martha Saikumar	CE19S71405179
Mohammad Shakeer Hussain	CE19S71405192
Thatikondawar Kiran	CE19S81407633

J.Z.+ 5p	orts and cultural activities /	competitions organ	nscu at the	mstitution	ic ver during the	year	
	Activity		Level			Participants	
CEN	Science Quiz - 1 prize	st National			2		
5.3 Stud	dent Participation and Act	ivities			-		
	umber of awards/medals for /international level (award f	U 1					
Year	Name of the award/	National/	Sports	Cultura	Student ID	Name of the	
	medal	International		1	number	student	
2020	Science Quiz - 1st prize	National			19031D3115	SRIRAMOJU	
						MAHENDER	

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

CCST: The centre has active cell of student council. This council consists of student elected class coordinator along with a teaching faculty. This student council actively participates in all activities of the institute with guidance of the teaching faculty coordinator. This council helps the teaching faculties as well as management of the institute both in academic as well as administrative activities as follows: - Coordination of academic activities throughout the semester - Coordination of co curricular and extracurricular activities smoothly - Coordination of industrial visits - Coordination of seminars/workshops by inviting external guests - Presenting the problems of students in front of teaching faculty as well as management - To assists teaching faculties heading various academic as well as administrative committees - Motivating the students to actively participate in various activities initiated by the Centre. Centre also provides the necessary support to student council for organization of any activity. Council helps the teaching faculty coordinators in many of the other committees as library, hostel, mess, grievance etc

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):

YES (JNTUH-IST Alumni Association)

The concept of alumni association evolved for needs from both the ends, i.e. academicians and professionals, in the aim of building a bridge between college life and career life, so that the fresher graduates are made proactive to face the current challenges of competitive professional world. Both the ends shall work hand in hand to help each other for achieving the goal. The idea took shape and formation of Alumni Association turned into reality.

Objectives:- 1. To provide a forum to establish a link between the alumni, staff and students of the Institute. 2. To enable the alumni to participate in activities that would contribute to the general development of the Institute and the Society. 3. To help the alumni with their technical and relocation problems. 4. To try to find employment opportunities to students and fellow alumni members in need. 5. To give institute prizes and scholarships, and render financial aid to needy and deserving students of the Institute. 6. To assist in conduction and organizing academic activities like conferences, workshops, technical symposiums. 7. To

contribute towards the welfare of the alumni. 8. To keep the alumni abreast of scientific and technological developments of national and global importance. 9. To generate funds to give scholarships to meritorious students and awards to toppers of all branches of engineering. 10. To arrange seminars and debates for technical guidance to students for knowledge and career Advancement. 11. To invest and deal with the funds of the Association. 12. To do such other lawful things as are conductive or incidental to the attainment of the above objectives and / or beneficial to the interests of the Institute and its Alumni. 13. To promote Entrepreneurship & Innovation among the students. 14. To help Institute for effective liaison to **Industry**

CPS:

From last two years the Institution has registered Alumni Association and have an overall strength of 50 to 60 members. Out of these members 12 members are from our department (Centre for Pharmaceutical Sciences). Alumni members were invited for various conferences, workshops and seminars to share their experiences with the current batch students how to co-up with the present pharma market. Special Alumni meets were are conducted to discuss regarding the up gradation of curriculum activities, industry – institution collaboration for research work.

- 5.3.2 No. of registered enrolled Alumni: 184
- 5.3.3 Alumni contribution during the year (in Rupees): 92000/- (Rs.500/-Each)
- 5.3.4 Meetings/activities organized by Alumni Association: YES

Institute level, Alumni meeting was organised on Feb 2nd 2019 at IST seminar hall, IST, JNTUH,

CRITERION VI -GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Vision

Imparting technical education that encourages independent thinking develops strong domain of knowledge. hones contemporary skills and positive attitude towards holistic growth of young minds.

Decentralization

The institution has a mechanism of providing operational autonomy to various functionaries in order to ensure a decentralized governance system.

1. Director Level

The Director in consultation with the Teachers' Council nominates different committees for planning and implementation of different academic, student administration and related policies. All academic and operational policies are based on the unanimous decision of the governing body.

2. Faculty level

Every year, the composition of different committees is changed to ensure a uniform	exposure of duties for
academic and professional development of faculty members. Following are the diff	ferent sub-committees
which have been nominated by Teachers' Council:	

Every year, the composition of different committees is changed to ensure a annothin exposure of daties for
academic and professional development of faculty members. Following are the different sub-committees
which have been nominated by Teachers' Council:
☐ UGC PFMS & Seminar Proposal sub-committee
☐ Sub-committee for games and sports
☐ Journal and publication Sub- committee
☐ Cultural sub-committee
Following committees are constituted accordance to government guidelines:
☐ Counseling and Career Guidance and Placement Unit
☐ Grievance Redressal Cell
☐ Website committee
☐ Anti Ragging Committee
☐ Press & Media Sub- Committee

3. Non-teaching staff level

Suggestions of non-teaching staff are considered while framing policies or taking important decisions.

Participative management

The institution promotes the culture of participative management at the strategic level, functional level and operational level.

□ **Strategic level**: The Principal, governing body and Teachers' council are involved in defining policies & procedures, framing guidelines and rules & regulations pertaining to admission, examination, discipline, grievance, support services, finance etc.

☐ **Functional level**: Faculty members share knowledge among themselves, students and staff members while working for a committee. Faculty members are involved in joint research and have published papers.

Operational level: The Principal interacts with government and external agencies & faculty members maintain interactions with the concerned departments of affiliating university. Students and office staff join hands with the Principal and faculty for the execution of different academic, administrative, extension related, co- and extracurricular activities.

6.1.2 Does the institution have a Management Information System (MIS)?

Yes. MIS is used for- Accounts and financial works (e.g. Tally) - Institute accountant used to keep record of all financial on license software Tally which includes fees of students, operational expenses, equipment, furniture, maintenance etc.

• Staff attendance biometric- Staff attendance record is maintain by biometric attendance, registers

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Curriculum Development

Curriculum designing and development is decided by the university. Director and Faculty members interact with the university and provide their views related to curriculum development.

The process involved in designing of the curriculum is as follows:

Initially UGC and AICTE regulations were followed for designing the curriculum based on Blooms taxonomy. Program assessment committee (PAC) collects the feedback about the program from all the stakeholders. The stakeholders include faculty, students, experts from academia, industry and research organizations, administration, alumni, parents and employer. Later the data obtained from regulatory authorities such as evaluation of students, their employability and scope for higher studies are also collected and used for revision of curriculum. This data is analyzed by the DAB in a series of brain storming sessions. Feedback obtained from the stakeholders and the observations made by PAC are submitted to the Department Advisory Board (DAB)/ Board of Studies for further evaluation and developments. The Board of Studies includes Head of the Department, faculty members, research experts, scientists, Industry personnel from different professional streams and also student representative. The Board of studies takes into consideration the vision and Mission of the institute, PEOs, POs and the inputs of DAB for refinement of the program curriculum. The final refinement and approval of the curriculum takes place in the BOS meetings. The approved copy of syllabus is communicated to the Director (IST) for approval in Board of Governors (BOG)/Academic council of IST. In the year 2015 Choice Based Credit System has been

introduced.

The program curriculum is evaluated by evaluation of student performance (Mid-term & End-term examinations, seminars and project work) and feedback obtained from the students directly. The curriculum is also evaluated in terms of opportunities for higher education and employment for the students and also based on alumni and employer survey. The Gaps identified in the curriculum are filled by regular revision of the syllabus and improvement in the instruction and evaluation methods.

***** Teaching and Learning

- 1. Improvement of computer aided methods of teaching and learning. Faculty members have attended the workshop on MOOCs, E-content and open educational resources organized by UGC-HRDC.
- 2. Special lecture organized by Department wise.
- 3. Field tours organized by the Department for PG Students.
- 4. Enrichment of central library and departmental seminar libraries.

***** Examination and Evaluation

Semester examinations are conducted by IST, JNT university. Department conducts internal assessment of students according to the university guidelines. Class tests/surprise tests, student seminars, interactive sessions, practical examinations, debates etc are conducted by departments to evaluate the students. Examination sub-committees and tabulation sub-committees have been formed by the faculty members for effective implementation of the evaluation reforms of the university.

***** Research and Development

Encouraging joint research by faculty members, which has resulted in their national and international joint publications. Encouraging faculty members to undertake major and minor research projects and disbursement of received research funds for purchase of items without delay. Faculty members are presently undertaking major and minor research projects funded by DST, DBT, UGC, INDOUS and others.

❖ Library, ICT and Physical Infrastructure / Instrumentation

As a post-NAAC initiative, the college has encouraged the use of ICT based techniques of study by arts departments. Computers have been allotted for PG students & Research Scholars. The physical infrastructure has also received sincere attention from the college authority. In our Department 3 Classrooms are having Smart Boards (Interactive Panels).

***** Human Resource Management

Students are encouraged to participate in seminars, special lectures, field tours etc to increase their skill and experience. Details can be found in the centre website.

☐ Centre organized,	5 workshop	and 2	Guest	lecturers	to enrich	students	and	staff	in th	ne academic	year
2019-2020.											

	Faculty	members	are	encouraged	to	participate	in	trainings,	workshops	and	staff	development
pro	ogramme	S.										

Different sub-committees are nominated by faculty members to ensure academic and administrative

experience of faculty members.

❖ Industry Interaction / Collaboration

Faculty members have collaborated with national and international eminent academicians andresearchers and published research papers in the current year.

Admission of Students

The admission process was partly online up to third counselling and students had to be physically present during the counselling. Admission of students commenced after declaration of results of degree examinations by different boards and the first merit list was prepared, according to the merit index online. Fully online admission system from application to the counselling process has ensured a transparent process and students have been admitted on the basis of merit.

6.2.2: Implementation of e-governance in areas of operations:

Planning and Development: NA

❖ Administration

□ Notices and circulars are uploaded in the IST website and communicated to different departments through e-mail from the office of the centers.

***** Finance and Accounts

- 1. Salary of faculty members and staff is transferred directly to the bank account.
- 2. Tender is notified as per the government guidelines for purchase of items.
- 4. Payment for the work orders is done through PFMS according to government guidelines.

Student Admission and Support

- o Applications are submitted for admission to different courses through the online admission portal.
- ☐ Online counselling is scheduled based on the merit list of candidates.

E-mail ids and contact numbers of all members of Anti Ragging Committee, Anti Ragging Squad and Internal Complaints Committee have been uploaded to the department website and students can communicate to the members through e-mail.

***** Examination

Examinations are conducted at the end of each semester. Department informs students about the university notices and circulars related to the examinations from time to time through student notice board, departmental notice boards and also verbally by the faculty members of the department. Department will conduct internal assessment of students and students are well informed about these internal examinations well in advance by the department. Internal assessment dates are also provided by the institute in the proposed academic calendar prepared at the beginning of each academic session.

	6.3 Faculty Empowerment Strategies							
	6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year							
Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support				
2019	Dr. A. Uma	Two day hands on workshop on Bioinformatics "National Level Competition for Bioscience Students in Association with Shaastra Fest IIT Madras Event" held at CBT, IST, JNTUHon 29 th and 30 th August 2019.	NA	TEQIP III				
2019	Dr. A. Uma	One day training program on "Hands on Workshop on MATLAB Programming under finishing school on" at CBT, IST, JNTUH on 31st August 2019.	NA	TEQIP III				
2019	Dr. A. Uma	Two daysWorkshop on "Current Research & Future Innovations in Drug Discovery for Genome Medicine" held at CBT-IST, JNTUH on 29 th and 30 th November 2019.	NA	TEQIP III				
2019	Dr. Archana Giri	Two daysWorkshop on "Current Research & Future Innovations in Drug Discovery for Genome Medicine" held at CBT-IST, JNTUH on 29 th and 30 th November 2019.	NA	TEQIP III				
2019	Dr. L.Saida	Two daysWorkshop on "Current Research & Future Innovations in Drug Discovery for Genome Medicine" held at CBT-IST, JNTUH on 29 th and 30 th November 2019.	NA	TEQIP III				
2019	Dr. CH. Kalyani	Two daysWorkshop on "Current Research & Future Innovations in Drug Discovery for Genome Medicine" held at CBT-IST, JNTUH on 29 th and 30 th November 2019.	NA	TEQIP III				
2019	Dr. K. Venkateshwara Reddy	Two daysWorkshop on "Current Research & Future Innovations in Drug Discovery for Genome Medicine" held at CBT-IST, JNTUH on 29 th and 30 th November 2019.	NA	TEQIP III				
2019	Dr. Suresh Babu	Two daysWorkshop on "Current Research & Future Innovations in Drug Discovery for Genome Medicine" held at CBT-IST, JNTUH on 29 th and 30 th November 2019.	NA	TEQIP III				
2019	Dr. P. Ranjit	Two daysWorkshop on "Current Research & Future Innovations in Drug Discovery for Genome Medicine" held at CBT-IST, JNTUH on 29 th and 30 th November 2019.	NA	TEQIP III				
2019	Dr. M. Anjaneyulu	Two daysWorkshop on"Current Research & Future Innovations in Drug Discovery for	NA	TEQIP III				

Future Innovations in Drug Discovery for

		Genome Medicine" held at CBT-IST, JNTUH on 29 th and 30 th November 2019.		
2019	Dr. B. Venkanna Dr. A. Uma	Two daysWorkshop on "Current Research & Future Innovations in Drug Discovery for Genome Medicine" held at CBT-IST, JNTUH on 29 th and 30 th November 2019. Two day Workshop on "Sustainable packaging-Eco efficient & Value Creation" held at CBT-	NA NA	TEQIP III
2019	Dr. A. Uma	IST, JNTUH on 3 rd and 4 th December 2019.	NA	TEQIP III
2019	Dr. Archana Giri	Evaluation of biological activities of <i>Pimpinella Tirupatiensis</i> extracts and transcriptome analysis for mapping of terpenoid pathway, Shanghai University, China, 8 th October 2019.	NA	TEQIP III
2020	Dr. A. Uma	Natational Conference on Biotechnology & Bioengeering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. Archana Giri	Natational Conference on Biotechnology & Bioengeering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. L. Saida	Natational Conference on Biotechnology & Bioengeering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. CH. Kalyani	Natational Conference on Biotechnology & Bioengeering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. K. Venkateshwara Reddy	Natational Conference on Biotechnology & Bioengeering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. Suresh Babu	Natational Conference on Biotechnology & Bioengeering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. P. Ranjit	Natational Conference on Biotechnology & Bioengeering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. M. Anjaneyulu	Natational Conference on Biotechnology & Bioengeering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. B. Venkanna	Natational Conference on Biotechnology & Bioengeering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
	Dr. V. Himabindu	International conference		10000
	Dr. V. Himabindu	International conference		5000
	Dr.Ravivarma	International conference		10000
2019	Dr. M. Sunitha Reddy	Women Occupational Health and Safety	TEQIP	
2020	Sri J.Venkatesh	Webinar - Applications on Geo-Spatial Technology	TEQIP-III	
2020	Sri Ballu Harish	GIS	TEQIP-III	Rs.1100.00

2019	Dr.B.Venkateswar	3 rd World water Summit 2019, New Delhi		
	a Rao			
			TEQIP-III	
2019	Dr.B.Venkateswar			
	a Rao	IGWC -2019, Roorkee		
			TEQIP-III	
2019	Dr.B.Venkateswar	1st Indian Near Surface Geophysics Conference		
	a Rao	& Exhibition, New Delhi		
			TEQIP-III	
2019	Dr.MVSS.Giridhar	National Conference on Recent Advances in	TEQIP-III	
		Science & Technology, during May 15-17,		
		2019 at Assam Science and Technology		
		University, Guwahati		

6.3.2 Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year Title of the administrative Dates (from-No. of Year Title of the No. of participants professional training programme organised particip to) development for non-teaching staff (Teaching ants programme staff) (Nonorganised for teachin teaching staff g staff) 9th July2019-2019 Technical Skill IST,JNTUH 30 13th July Development Programme ,2019

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher

Course, Short Term Course, Faculty Development Programmes during the year

		Date and
	Number of teachers who attended	Duration
Title of the professional development programme		(from – to)
Genome editing by CRISPR-Cas9 system" at IISC,	01 (D. A. II)	18 th – 22 th Nov
Benguluru.	01 (Dr. A. Uma)	2019
Train the Trainers on examination reforms organized	01 (D., I. C.:1-)	17 th – 20 th Feb
by KLE Technological University, Hubbali.	01 (Dr. L. Saida)	2020
Biophysical methods to study structure and functions		
of protiens and Nucleic acids organized by Centre for		02 - 06 th Dec
continuing education Indain Instistute of Science	01 (Dr. M. Anjaneyulu)	2019
Bengaluru.		
Dengaluru.		26.08.2019-
Orientation Programme	09	30.08.2019
International Conference on Ecohealth and Environment	09	24th to 26th
Sustainability,		February 2020
Sustamaonity,	1	redition 2020
		Jan 2020 - March
NPTEL- Environmental Quality and Monitoring Analysis		2020
NFTEL- Environmental Quanty and Monitoring Analysis	1	
A		
An overview on funding agencies for Indian research		
scholars		
	01	29-04-2019
Two day national workshop on NBA-Outcome based	02	24-05-2019 to 25-
Education and SAR filling	<u> </u>	05-2019
Education and 57 IX mining		03 2017
Workshop on MOOCS Programme		
Workshop on Woocs Programme	0.1	06.07.2010
N Di 1 N 1 N 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T	01	06-07-2019
Nano Biotech Networking Event TERI At TERI		
Gram, Gwal Pahari,Gurugram, Haryana		05.02.2012
		07-02-2019 to 07-
	01	03-2019
One Week Faculty Development Program on "Nano		10.00.0010
Science and Technology	01	19- 08-2019 to
At Kurukshetra University, Kurukshetra, Haryana	01	20-08-2019

State		
		23-9-2019 to 27-
Professional Development Training at IIM Trichy	01	9-2019
Professional Development Training at IIM		09-12-2019 to 13-
Visakhapatnam	01	12-2019
Training programme for the experts at Hindustan		
Institute of Technology and Science (Deemed to be		
University), Chennai	01	24-02-2020
Train the Trainers on Examination Reforms' at KLE		17-02-2020 to 19-
Technological University, Hubballi, Karnataka	01	02-2020
Workshop on web-based academic MISSPIU		
Maharashtra	01	08-04-2019
Two days training programme on TEQIP-III		
procurement management support systemBMS		15-04-2019 to 16-
college of Engineering, Bengaluru	01	04-2019
Refresher course on Drug discovery and formulation		
development clinical approach to health		20-05-2019 to 01-
careUGC,HRDC,JNTUH	01	06-2019
GIAN course on Medical prototyping using 3D		15-07-2019 to 19-
printingNIT Warangal	01	07-2019
AICTE sponsporedTwo week FDP program on		
Pharamaceutical Regulatory affairs and Intelluctual		
property rights, Centre for Pharmaceutical		01-08-2019 to 14-
sciences,IST,JNTUH	01	08-2019
One day workshop on Hands on MAT LAB		
programming under finishing school, Centre for		
BioTechnology,IST,JNTUH	01	31-08-2019
Faculty Development program on "Pharmaceutical		1/08/2019 TO
Regulatory affairs and Intellectual Property rights"	30	14/08/2019
		April 29 to May
Latex training programme	01 (Sri B.Harish)	04 2020
		May 11to 16 2020
Research challenges and innovations in renewable		Time:09am to
energy systems	01(Sri B.Harish)	12pm
		May 11to 16 2020
AGT TO OLG	01(0.15.11)	Time: 2PM TO
ICT TOOLS	01(Sri B.Harish)	5PM
		May 12 to 17 th
, pp. m. c	01/2/577	2020(6pm to
ARDUINO	01(Sri B.Harish)	7pm)
Webinar on digital image processing	01 (Sri B.Harish)	12-07-2020
		26-08-2019
	4 NO'S	TO
		31-08-2019
ORIENTATION PROGRAMME		(CLASS
		WORK
		COMMENCE
		D FROM 03-
		09-2019)

	Teachi	ng		No	n-teaching	
Permanent			Fulltime Permaner			Fullti me/te mporar
		01- Full time	e on contractual			
Nil		1	basis	Nil		Nil
6.3.5 Welfare schemes for	or					
Teaching			FDP(Faculty I TEQIP Trainin	Development Program g Programmes	me)	
Non teaching			TEQIP Trainir	ng Programmes		
Students			Conferences, V	Workshops, Seminars		
6.4 Financial Managem	nent and Res	source Mobiliz	zation			
6.4.1 Institution conduct		d external finar	ncial audits regul	arly		
(with in 100 words each						
The Institution is a go	vernment in	stitution. Fina	ncial audit is c	onducted by Acco	untants Ger	neral (AG)
Telangana, Government	of Telangana	a state and the	frequency of aud	it is once in a year.		
6.4.2 Funds / Grants rece	eived from m	anagement, no	on-government be	odies, individuals, p	hilanthropie	es during
the year (not covered in			E	, , , , , ,	1	C
Name of the non govern	nment fundin	g agencies/ inc	lividuals Fu	nds/ Grants receive	d in Rs.	Purpose
	NA			NA		NA
6.4.2 Total corpus fund g						
6.5 Internal Quality As				1 0		
6.5.1 Whether Academic		strative Audit	(AAA) has been		1	
<u> </u>	and Admini	strative Audit External	· · · · · · · · · · · · · · · · · · ·		Internal	41-24-
6.5.1 Whether Academic Audit Type	e and Admini	strative Audit	(AAA) has been Agency	Yes/No	Au	thority
6.5.1 Whether Academic	and Admini	strative Audit External	· · · · · · · · · · · · · · · · · · ·		Au TEQIP- III(perfo	<u> </u>
6.5.1 Whether Academic Audit Type	e and Admini	strative Audit External	Agency	Yes/No	Au TEQIP-	ormance
6.5.1 Whether Academic Audit Type Academic Administrative	yes yes	External es/No	Agency AICTE AICTE	Yes/No Yes yes	TEQIP- III(performation and it) TEQIP- III(performation and it)	ormance ormance
6.5.1 Whether Academic Audit Type Academic Administrative 6.5.2 What efforts are many	yes yes	External es/No	Agency AICTE AICTE	Yes/No Yes yes	TEQIP- III(performation and it) TEQIP- III(performation and it)	ormance ormance
6.5.1 Whether Academic Audit Type Academic Administrative	yes yes	External es/No	Agency AICTE AICTE omote autonomy	Yes/No Yes yes	TEQIP- III(performation and it) TEQIP- III(performation and it)	ormance
6.5.1 Whether Academic Audit Type Academic Administrative 6.5.2 What efforts are many	yes yes	External es/No	Agency AICTE AICTE	Yes/No Yes yes	TEQIP- III(performation and it) TEQIP- III(performation and it)	ormance
6.5.1 Whether Academic Audit Type Academic Administrative 6.5.2 What efforts are many	yes yes ade by the U	External es/No niversity to pro	Agency AICTE AICTE Dimote autonomy NIL	Yes/No Yes yes in the affiliated/con	TEQIP- III(performation and it) TEQIP- III(performation and it)	ormance
6.5.1 Whether Academic Audit Type Academic Administrative 6.5.2 What efforts are many (if applicable)	yes yes yes ade by the U	External es/No niversity to pro	Agency AICTE AICTE Dimote autonomy NIL ner Association (Yes/No Yes yes in the affiliated/con	TEQIP- III(performation and it) TEQIP- III(performation and it)	ormance ormance
6.5.1 Whether Academic Audit Type Academic Administrative 6.5.2 What efforts are management of applicable) 6.5.3 Activities and supp	yes yes yes ade by the U port from the semester par	External External es/No niversity to pro Parent – Teacl ent teacher me	Agency AICTE AICTE Dimote autonomy NIL ner Association (et is organised.	Yes/No Yes yes in the affiliated/con at least three)	TEQIP- III(performation and it) TEQIP- III(performation and it)	ormance

1. Support staffs are motivated to take participation in skill development program like PMKVY. Two staffs are

currently attending courses.

- 2. Insurance of all Non teaching staff.
- 3. Non teaching staff is promoted to attend workshops.

6.5.5 Post Accreditation initiative(s) (mention at least three)

Post-accreditation initiatives based on the examinations mentioned in the Peer team report:

1. ICT should be increased in teaching learning process

Post accreditation initiative: The departments have been provided new computers and printers to increase the use of ICT enabled teaching and learning. Computer-aided methods are now used by majority of the departments to deliver lectures.

2. Faculty should be encouraged to undertake F.I.P.

In the current academic session all faculty members have participated in different faculty improvement programmes.

3. The college should have some more smart classes

Construction of three new smart classrooms (Department of Biotechnology) has been completed and teaching-learning process has started in these three smart classrooms.

Centre organises International/national workshops Conference to improve research culture in the Institute. Students and faculties from institute as well as from outside the institute used to present their Research paper. To enhance employability Industry Institute Interaction is strengthen.

6.5.6

a. Submission of Data for AISHE portal
b. Participation in NIRF
c. ISO Certification
d. NBA or any other quality audit
(Yes)
(Yes)

6.5.7 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from to)	Number of participant s
	CNST			
	1st Meeting of the Internal Quality		11.00AM TO	
2019	Assurance Committee (IQAC)	30-01-2020	01.00 PM	10

CRITERIONVII -INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities NIL

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the CAY)

Title of the programme	Period (from-to)	Participants	
CNST		Female	Male
Equity Action Plan A Two-Day Workshop on "Sensitization of Socially Challenged Communities-Higher Education Under TEQIP-III	07-08-2019 to 08-08-2019	40	60

one day workshop on synthesis, characterization and applications of Nanomaterials on 01-02-2020	01-02-2020	12	12
under university social responsibility			
7.1.2 Environmental Consciousness and Susta	inability/Alternate Energy in	nitiatives such as:	
Percentage of power requirement of the Unive	ersity met by the renewable e	energy sources	
			0 11
• The CWR, IST, JNTUH has taken up large		•	
normal rainfall year. This is first of its from the campus. The constructed rain			
from the campus. The constructed rain	water harvesting structures i	iceu iiiiiiiiiai iiiaiiii	chance.
7.1.3 Differently abled (Divyangjan) friendlin	ess		
Items Facilities	Yes/No	No. of B	eneficiaries
Physical facilities	Yes		All
Provision for lift	Yes		All
Ramp/ Rails	Yes		All
Braille Software/facilities	No		-
Rest Rooms	Yes	All women s	staff & students
Scribes for examination	No		f necessary)
Special skill development for differently abled			<i>J</i> /
students	No		All
Any other similar facility			
	CWR		
Items Facilities	Yes/No	No. of B	eneficiaries
Physical facilities	Yes	NIL FR	OM CWR
Provision for lift	Yes	All the student	s and staff of IST
Ramp/ Rails	Yes	All the student	s and staff of IST
Braille Software/facilities	Yes	NIL FR	OM CWR
Rest Rooms	Yes	All the student	s and staff of IST
		YES IF SCRIB	E IS REQUIRED
		THEN THEY C	CAN AVAIL THE
Scribes for examination	Yes	FAC	CILITY
Special skill development for differently abled			
students	Yes		NA
			courses has been
A (1	V		cademic Year 2019-
Any other similar facility	Yes		20 H CENTRE AND
			ETC
			arch paper writing
			nanagement
			hnical knowledge
			education
			f India Pedagogy
			udies
		Stress manag	gement by Yoga
			odology and IPR
		Personality Devel	opment through life

					er	nlightenmen	nt skills
	on and Situatedness		s locational adva	ntages and	disadvanta	ges during t	he CAY
Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of th initiative		es addressed	Number of participating students and staff

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)

7.1.6 Activities conducted for promotion of universal Values and Ethics NIL

Activity	Duration (fromto)	Number of participants	
TWO DAY WORKSHOP ON WOMEN OCCUPATONAL HEALTH & SAFETY, UNDER TEQIP-III	22nd & 23rd of November 2019	10	

7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)

CBT:

Tree plantation programmes are organized by NSS

CWR:

- The CWR, IST, JNTUH has taken up large scale conservation of rainwater by harvesting 10 crore liters on a normal rainfall year.
- This is first of its kind in the Telangana state maintaining zero discharge of rain water from the campus.
- The constructed rainwater harvesting structures need minimal maintenance.

CCST:

- 1. Rain water harvesting Institute has harvested the rain water flowing as waste through the slopes of open land. This has helped to increase the water level in nearby area.
- 2. Tree Plantation In every year, institute conducts the activity of tree plantation with the help of NSS (National Social Service) cell. This helps to protect the environment as well as to develop the environmental awareness in between the students.

7.2 Best Practices

Describe at least two institutional best practices

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

http://jntuhist.ac.in/

CCST:

- 1. Academic Audit:
- i) Academic audit conducted once in every semester . every faculty member maintains course files for the theory as well as laboratory subjects. Following are placed in course files for audits

- Attendance record
- Internal marks statement
- Copies of test question papers
- Samples of answer papers
- Assignments
- Laboratory manuals.
- 2. Objectives of practices
- -to ensure every faculty member is performing well in teaching and research
- -to give feedback to faculty members on area which need improvement

CNST:

Best practices of the Centre for Nanoscience and Technology:

- ➤ Helping and mentoring for Slow Learners
- > Evaluation & Monitoring of learning Capabilities :
 - ➤ Assignments, Seminar reports, Project reports
 - ➤ Involvement in R&D projects, seminars & conferences
 - ➤ Visits to Industries, R&D laboratories and Field studies
- Encourage Faculty to Carry out Research and Development Projects.
- To Make the Department as a Centre of Excellence in R&D Activities.
- MoUs with Reputed Educational and R&D Institutions in India as well as Abroad.
- > Patenting of innovative works.
- Encourage students towards Entrepreneurship
- ➤ M.Tech. students are encouraged to do projects (Lab curriculum) in the center and publish in a peer reviewed journals

INNOVATIONS USEFUL FOR PEOPLE OR ADMINISTRATORS DURING COVID 19 PANDEMIC

- ➤ Dr. K Venkateswara Rao Professor &Head, CNST, IST, JNTUH made research to eradicate Covid19 Virus with the help of nano materials in collaboration with Diskha mineral company Hyderabad.
- Preparation of Nanosanitizers using Hydrogen peroxide and Nanosilver in collaboration with D Nanotechnologies Hyderabad.
- > Preparation of Environmental sanitizers.
- Source links: https://www.youtube.com/watch?v=kXgeRG0pKPI&feature=youtu.be
 https://www.youtube.com/watch?v=uBky4S4K3I4&feature=youtu.be

- > Dr. CH Shilpa Chakra, Assistant Professor, CNST,IST,JNTUH made efforts for covid-19 by 3D printing PPE kits for doctors and concerned health care workers and Police.
- Submitted DST-SERB short Term project for Covid-19.
- Source link: https://www.youtube.com/watch?v=dCwy8lKHpZY&feature=youtu.be
- Submitted collaborative project proposal under RashtriyaUchchatarShikshaAbhiyan (RUSA 2.0),Ministry of Human Resource Development on "Printable Energy Storage Device for portable devices based on nanomaterials" with Yogi Vemana University.

Submitted collaborative project proposal under RashtriyaUchchatarShikshaAbhiyan (RUSA 2.0), Ministry of Human Resource Development on "3D printing, Design and Development of an efficient Polyethylene Glycol coated Zinc Oxide Nanoweapon to fight against COVID-19" with Yogi Vemana University.

CWR:

- In its efforts towards sustainability, CWR, IST, JNTU Hyderabad has established a robust Rainwater Harvesting Systems in the campus. So far the Institute is able to harvest around 6 crore liters of rainwater. This made IST, JNTUH stand resilient to its water demands in spite of experiencing weak monsoon this year.
- Rainwater Harvesting initiatives by Dr.M.V.S.S.Giridhar of CWR, IST, JNTUH have earned applauds
 from various Universities, administrative bodies, Media and Local Communities. As IST, JNTUH has
 organized various Workshops, Conferences & Awareness programs, these structures served as
 demonstrative models for students, environmentalists, professionals and practitioners.
- In championing the cause of Water Conservation and Awareness, The Institute of Science and Technology has taken up free consultancy projects for rainwater harvesting in Tirumala Tirupathi Devastanam, Sri .Venkateswara University, Tirupathi Municipal Corporation and Local residential Communities of Hyderabad in Pragathi Nagar, Matru shree Colony etc.

7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust Provide the weblink of the institution in not more than 500 words

http://jntuhist.ac.in/

Placements details

Academic Year	No. of 1st year Students intake in the year	No. of 1st year students admitted in the year	Academic Year	No. of students Graduating in minimum stipulated time	No. of student s placed	Midian Salary of Placed Graduates per annum (Amount in Rs.)	Midian Salary of Placed Graduates per annum (Amount in words)	No. of students selected for Higher Studies
	•		CEN	TRE FOR BIOTECH	INOLOGY			•
2016-17	100	45	2017-18	43	21	1.8 Lakhs	One Lakh eighty thousand	8
2017-18	74	57	2018-19	50	4	2.4 Lakhs	Two Lakh fourty thousand	-
2018-19	74	59	2019-20	51	-	-	-	-

		CE	NTRE FOR CH	IEMICAL SCIENCE	S AND TEC	HNOLOGY		
2016-17	75	61	2017-18	34	19	2.9 Lakhs	Two Lakhs Ninety Thousand Per Annum	1
2017-18	68	41	2018-19	53	12	2.4 Lakhs	Two Lakhs Fourty Thousand Per Annum	2
2018-19	68	53	2019-20	56	10	2.2 lakhs	Two Lakhs Twenty Thousand Per Annum	-
		-1	CEI	NTRE FOR ENVIRO	NMENT			
2016-17	48	37	2017-18	28	17	2.5 Lakhs	Two Lakhs Fifty Thousand	4
2017-18	48	38	2018-19	28	15	3.84 Lakhs	Three Lakhs and Eighty Four Thousand Per Annum	-
2018-19	36	32	2019-20	20	6	3.0 lakhs	Three Lakhs per Annum	-
			CENTRE FOR	NANO SCIENCE A	ND TECHN	OLOGY		
2016-17	36	29	2017-18	13	11	3.5 Lakhs per annum	3.5 Lakhs per annum	4
2017-18	18	17	2018-19	9	9	3.5 Lakhs per annum	3.5 Lakhs per annum	1
2018-19	18	14	2019-20	9	6	3.5 Lakhs per annum	3.5 Lakhs per annum	-
	,		CENTRE FO	R PHARMACECU	TICAL SCIE	NCES	T	
2016-17	54	47	2017-18	53	24	1.8 Lakhs	One Lakh Eighty Thousand Per Annum	1
2017-18	54	47	2018-19	47	23	1.6 Lakhs	One Lakh Sixty Thousand Per Annum	1
2018-19	54	51	2019-20	-	-	-	-	-
		CI	NTRE FOR S	PATIAL INFORMA	TION TECH	NOLOGY		
2016-17	36	34	2017-18	15	7	4.0 lakhs	Four Lakhs per Annum	-
2017-18	36	30	2018-19	18	5	4.0 lakhs	Four Lakhs per Annum	-
2018-19	18	17	2019-20	10	5	4.0 lakhs	Four Lakhs per Annum	-

	CENTRE FOR WATER RESOURCES							
							Two lakhs	
2016-17							fifty	-
	18	23	2017-18	-	3	2.5 Lakhs	thousand	
							Five lakhs	
2017-18							fifty	
	17	17	2018-19	-	4	5.5 Lakhs	thousand	-
							Five lakhs	
2018-19							fifty	-
	17	17	2019-20	2	4	5.5 Lakhs	thousand	

Training programmes held for students:

- M/s T.I.M.E (Triumphant Institute of Management Educational Pvt Ltd), Hyderabad as service provider is extending GATE training to the students of IST (Institute of Science and Technology) for the Academic Year 2019-2020 and 2018-2019 in the month of November, December, 2019 and January, 2020.
- VYAKTI VIKAS KENDRA INDIA as service provider is extending Art of Living-SELP (Student Excellence & Learning Program) to the students of IST (Institute of Science and Technology) for the Academic Year 2019-2020 and 2018-2019 during 19th-26th Aug, 2019 & 28th Aug - 5th Sep, 2019.

<u>Transition rate of PG Students(2019 batch):</u>

S.no	Category/Gender	No of Total students	No. of students passed	% of the students passed from total students
1.	SC	18	14	78%
2.	ST	9	5	55.5%
3.	Female	38	34	89.5%

8. Future Plans of action for next academic year (500 words)

Centre for Biotechnology (CBT)

Development of World class laboratory facility w.r.t Molecular biology, Chemical engineering and Microbiology

To generate more Entrepreneurs from the centre to start industries in biotechnology and allied area

Continuing the practice of generating highly skilled human resources to cater to the research and teaching needs of the country

To achieve the goal of self sustenance

Encouraging more participation from the industry for infrastructure and research grants

Supporting centre for Atal incubation centres

Centre for Chemical Science & Technology (CCST)

- 1) Centre has planned to deliver the outcome based education more effectively.
- 2) Centre has planned to sign more number of MOU's with the various industries as well as premium institutes. With the help of this; sharing of expertise and facilities will be focused prominently. This will help both the students as well as faculty to be in touch with new technologies as well as research methodologies.
- 3) Centre has planned to carry out more number of trainings, workshops and submission of funding proposals so as to have overall upliftment of the institute.
- 4) The continuous assessment of the teaching faculty will be carried out with the help of weekly report submitted by individual faculty duly signed by HOD.
- 5) Centre has planned to enhance career guidance to students.
- 6) Centre will maintain student academic and mentoring record.
- 7) Centre is planning to provide infrastructure comparable to international standards.
- 8) Centre has planned to strengthen the cooperation among the Stakeholders like Students, faculty, parents and employers etc.,
- 9) Centre is focusing more on area specific research aimed at meeting national needs.

Centre for Environment (CEN)

- 1. We have introduced environmental modeling course in the M.Tech Environemtnal management program. To give practicel exposure to the students, these softwares like visual modflow and airmod are essential.
- 2. In the present curriculum we have introduced applied Geomatics course in M.Tech EGM and GST for smart city planning and development. This requires advanced laboratory facilities and software to process high resolution images for feature extraction.

- 3. Photogrammetric suite with hardware and software will make students to learn and execute research on application areas of DEM, DTM and DSM. Photogrammetry is generally used for thr processing of raw imagery through to the creation of geospacial data products such as digital terrain models, 3D features, and digital orthophotos.
- 4. Renovation of labs: Water lab and waste water treatment labs needs renovation as all the wrok benches, fume hoods, exhaust fans, curtains and racks were spoiled due to chemicals. Cold room is also necessary for sample preservation.
- 5. All the hardware and computer systems in the department nee to be connected in LAN and with good networking platform. As the teaching and learning is going to be on virtual mode in the coming days, establishment of LAN may facilitate students to log in and work on mechines simultaniusly using teams.

Centre for Nano Science and Technology (CNST)

- 1. To undertake and realize various nano based devices like Nanosensors etc for the benefit of public at large.
- 2. To produce researchers in the field and generate experts in the applications of Nanotechnology for devices.
 - 3. To carry out the basic and applied research in the field of Nanotechnology.
- 4. To establish a central research facilities for Nanotechnology based systems and make it available for Research institutes as well.
- 5. Centre is planning to conduct A One Week AICTE TEQIP-III Funded STTP Programme on Synthesis, characterization and its applications of Nanomaterials in year 2020.

Centre for Pharmaceutical Sciences (CPS)

Future plans of the institute are aiming to procure sophisticated equipments to implement new experiments for regular curriculum. Implementation of new teaching methodologies for the faculty Viz. Flip flop methods and Online teaching methods. Improving the knowledge and skills of the faculty by inducting them to enroll MOOCS courses. The skills of both teaching and Non-teaching staff are refreshed by various training programs and workshops.

Centre for Spatial Information Technology (CSIT)

The Centre is planning to host a set of conferences in the upcoming year. The objective of these research is to serve as inter-disciplinary and multi-disciplinary avenues for exchange of best research practices and research outcomes, for the benefit of the corporate professionals, industry practitioners, academicians and researchers at large.

Centre for Wat er Re sources (CWR)

Future plans of the Centre are primarily aiming at scaling the intellectual environment of the institute. This includes aiming at inducting a better quality of students, faculty and intellectual output. The institution strongly believes that academic research can strongly contribute to corporate decision making and has a well-developed research plan for the upcoming year.

Name	Name
Signature of the Coordinator, IQAC	Signature of the Chairperson, IQAC

The Centre plans to host a set of international conferences in the upcoming year. The objective of these research based forums will be to serve as inter-disciplinary and multi-disciplinary avenues for exchange of best research

practices and research outcomes, for the benefit of the corporate professionals, industry practitioners,

academicians and researchers at large.