

Part-B (Information for Current Academic Year (CAY) July 2019 to June 2020)

CRITERION I – CURRICULAR ASPECTS		
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 focussed on employability/ entrepreneurship/ skill development during the CAY			
Programme with Code	Date of Introduction	Course with Code	Date of Introduction
		Bionanotechnology(1BTPE1)	03-05-2019
		Plant biotechnology and molecular pharming (2BT05)	03-05-2019
		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
		Research Methodology & IPR	03.09.2019
		English for Research Paper Writing	03.09.2019
		Disaster Management	03-02-2020
M.Tech		Instrumental Methods of Analysis	03-09-2019

(Environmental Management) 31D31			
		Research Methodology and IPR	03-09-2019
		Skill development	30-Aug-19 to 31-Aug-19
		Technical English Writing	03-09-2019
		Environmental Geo Statistics	03-09-2019
		Bioremediation Technologies	03-02-2020
		Contaminant Transport in Environmental Systems	03-02-2020
M.Tech (Environmental Geomatics) 31D60			
		Research Methodology and IPR	03-09-2019
		Skill development	30-Aug-19 to 31-Aug-19
		Technical English Writing	03-09-2019
		Surveying & Photogrammetric Engineering	03-09-2019
		GNSS and UAV Technologies	03-09-2019
		Smart Cities and GIS	03-09-2019
		Advanced Photogrammetry	03-09-2019
		GNSS and UAV Lab	03-09-2019
		Spatial Data Analysis & Modeling	03-02-2020
		Microwave Remote Sensing	03-02-2020
		Geo Visualization & Web Mapping	03-02-2020
		Satellites and Sensors	03-02-2020
M.Tech (Nanotechnology)		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(Water and 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
<p>M.Tech (Biotechnology)</p> <ol style="list-style-type: none"> 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) 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) <p>Waste to energy (3BTOE)</p>	03-05-2019
<p><i>M.TECH(Chemical Technology)</i></p> <ol style="list-style-type: none"> 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) 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 	03-05-2019
<p>M Tech Environmental Management</p> <ol style="list-style-type: none"> 1.Solid and Hazardous Waste Management (1EMTPE01) 2.Instrumental Methods of Analysis (1EMTPE01) 3.Ecology and natural resources (1EMTPE01) 4.Environmental Geomatics (1EMTPE02) 5.Geomatics for Disaster Risk Reduction & Management (1EMTPE02) 6. Geomatics for Climate Change and Sustainable Development (1EMTPE02) 7. Bioremediation Technologies (2EMTPE03) 8. Contaminant Transport in Environmental Systems (2EMTPE03) 9. Higher numerical analysis (2EMTPE03) 10. Environmental Impact Assessment (2EMTPE04) 11. Environmental Geo Statistics (2EMTPE04) 12. Prokaryotic Diversity and Bio-Prospecting(Tiny Earth course of USA) (2EMTPE04) 	

<p>M Tech Environmental Geomatics</p> <ol style="list-style-type: none"> 1. Digital Image Processing (1EGMPE01) 2. GNSS and UAV Technologies (1EGMPE01) 3. DBMS and Programming Language (1EGMPE01) 4. Geomatics for Climate Change & Sustainable Development (1EGMPE02) 5. Smart Cities and GIS (1EGMPE02) 6. Advanced Photogrammetry (1EGMPE02) 7. Microwave Remote Sensing (2EGMPE03) 8. Geo Statistics (2EGMPE03) 9. Applied Geomatics (2EGMPE03) 10. Environmental Impact Assessment (2EGMPE04) 11. Geo Visualization & Web Mapping (2EGMPE04) 12. Satellites and Sensors (2EGMPE04) 	
<p>M.Tech(Nano Technology)</p> <ol style="list-style-type: none"> 1. Physics And Chemistry Of Materials(1NTPE01) 2. Photonics(quantum confinement of materials(1NTPE01) 3. Statistical Thermodynamics For Nanosystems (1NTPE01) 7. Nano biomedical Applications 8. Nano Bio Technology 9. Bio nanostructures 10. Industrial trends and Applications of Nanotechnology 	<p>03-09-2019 & 03-02-2020</p>
<p>M.Tech(Water and Environmental Technology)</p> <ol style="list-style-type: none"> 1. Water Quality Management and Modeling (1WETPE01) 2. Hydro Power Development (3WETPE) 3. Micro Irrigation Technologies (3WETPE) 4. Business Analytics (3WETOE) 5. Industrial Safety (3WETOE) 6. Operations Research (3WETOE) 7. Cost Management of Engineering Projects (3WETOE) 8. Composite Materials (3WETOE) 9. Waste to Energy (3WETOE) 10. Environmental Statistics (3WETOE) 	<p>03-05-2019</p>

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 adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
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 Technology)	NA	M.Tech	2015	NA	YES
M.Sc (Organic Chemistry)	NA	M.Sc	2015	NA	YES
M.Sc (Analytical Chemistry)	NA	M.Sc	2015	NA	YES
M.Tech (Environmental Management)		M.Tech	2015		YES
M.Tech (Environmental Geomatics)		M.Tech	2015		YES
M.Tech(NanoTechnology)	NA	M.Tech	2015	NA	YES
M.Tech (Water and Environmental Management)	NA	M.Tech	2015	NA	YES
M.Tech (Spatial Information Technology)	NA	M.Tech	2015	NA	YES
If already adopted (mention the year)					

1.3 Curriculum Enrichment		
1.3.1 Value-added courses imparting transferable and life skills offered during the CAY		
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 5. Constitution of India 6. Pedagogy studies 7. Stress management by Yoga 8. Personality Development through life enlightenment skills	03-05-2019	15
1. English for research paper writing 2. Disaster management 3. Sanskrit for technical knowledge 4. Value education 5. Constitution of India	03-05-2019	28 (I & II Sem)

6. Pedagogy studies 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 6. Pedagogy studies 7. Stress management by Yoga 8. Personality Development through life enlightenment skills	03-05-2019	15
Soft Skill Development	20.08.2018	90
Soft Skill Development	20.08.2018	90
Synthesis/Processing and Properties of nanostructures	03-09-2019	12
Materials Characterization Techniques	03-09-2019	12
Photonics(quantum confinement of materials)	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 Industrial and Field Visit Internship projects	2019	51
➤ English for research paper writing Disaster management ➤ Sanskrit for technical knowledge Value education ➤ Constitution of India Pedagogy	To be implemented in Next academic Year	15

<ul style="list-style-type: none"> studies ➤ Stress management by Yoga Research Methodology and IPR Personality Development through life enlightenment skills ➤ Soft Skill Development ➤ Communication soft skills 	2019-20	
<ul style="list-style-type: none"> ➤ Mini Project ➤ Short Assignments Audit Course ➤ Industrial and Field Visit Internship projects Comprehensive Viva-Voce ➤ Project work Review -I ➤ Project work Review II ➤ Project work Review III ➤ Comprehensive Viva-Voce 	20-07-2019	

1.3.2 Field Projects / Internships under taken during the CAY

Project/Programme Title	No. of students enrolled for Field Projects / Internships
M.Sc (Biotechnology)	23
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)	11
Impact of Urbanization on air quality in an around off HMDA	DIDDI SAI VISHAL
The role of micro irrigation for modern agriculture	MAMIDI SRAVYA
Enhancement of energy recovery from sludge	NENAVATH BHARATH
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 Hyderabad. Urban using receptor modelling	VEMULA DEVI SHARADA
Microbial healing of cracks in concrete	VEMULA SMRITHI
Treatment of new landfill leachate from municipal solid waste	VODNALA MANEESHA
Sea water intrusion (modelling) around a costal aquifer	N. AKHILA
Lake modelling (comprehensive monitoring and modelling of a lake in Hyderabad	RACHAMALLU SRINIJA
Ground water modelling of landfill leachate around chloro alkali industry	SYED HASSAN HUSSAINI

M.Tech (Environmental Geomatics)	11
Damage assessment of hud-hud cyclone by using GIS techniques	ALISHYM SANGEETHA
Estimation of electrical distribution and preparation of its network maps in Moinabad town, R.R District using GIS & GPS technology	BUDIDHA SHASHIKANTH
Crop yield model by remote sensing	CHINTAMALA AKHILA
Development of continuous water supply system approach at rajendra nagar area using district metered area concept & GIS	KONDLA MRUDULA
Environmental impact assessment study for “Induction furnace production and rolling mil production	MALLARAPU SHASHI PREETHAM
Impact of road connectivity towards sustainable rural development using Geo spatial technology under PMGSY scheme	NASPOORI SUDHIR
Built- up area density mapping and assessment for tree cover canopy in dense Built-up areas using machine learning and statistical analysis	POODARI VENKATA RAMANA
Development of wheat yield proxy using satellite and ancillary data for Haryana state.	VELPULA SANDHYARANI
Application of GIS and Remote Sensing in monitoring waste water flow into the ISNAPUR LAKE	M.Vamshi Krishna P.Manasa
Aerated Wet Lands : Sustainable Nature Based Solution For Present And Future Socio Environment And Climate Change	V.Sujana -18031d5916

1.4 Feedback System				
1.4.1 Whether structured feedback received from all the stakeholders.				
1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Centre for Biotechnology (CBT)				
Yes	No	Yes (Offline process)	Yes	No
Centre for Chemical Science & Technology (CCST)				
Yes	No	No	Yes (offline)	No (offline)
Centre for Environment (CEN)				
Yes	No	Yes	Yes	Yes
Centre for Nano Science and Technology (CNST)				
Yes	No	No	No	No
Centre for Pharmaceutical Sciences (CPS)				
2019	NA	53	NA	09
Centre for Spatial Information and Technology (CSIT)				
Yes	Yes	No	No	No
Centre for Water Resources (CWR)				
Yes	No	Yes (offline printed document is available)	Yes (offline printed document is available)	Yes (offline printed document is available)
1.4.2 How the feedback obtained is being analysed and utilized for overall development of the institution? (maximum 500 words)				
Centre for Biotechnology (CBT)				
<p>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.</p>				
Centre for Chemical Science & Technology (CCST)				
<p>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</p>				

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 taken during and after every course (total 3 times) in each semester/program.
- The teacher accesses these feedbacks for introspection and improvement.
- Alumni and Employers feedback also collected from the outgoing/passed out students.
- These feedbacks are continuously accessed and critically studied by head of the department/Director.
- All the feedbacks are considered during curriculum revision.

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 -TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 Demand Ratio during the CAY

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
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M.Sc Biotechnology	25(+5 Other category)	70	26
M.Sc Microbiology	25(+5 Other category)	80	28
M.Tech Biotechnology	18	30	15
M.Tech(Chemical Technology)	18	As per GATE/PGECET notification	14
M.Sc(Organic chemistry)	25	As per the notification of TSCPGET	23
M.Sc(Analytical chemistry)	25	As per the notification of TSCPGET	22
M.Tech (Environmental Management) (2019 batch)	18	State level admission As per GATE/PGECET notification	16
M.Tech (Environmental Geomatics) (2019 batch)	18	State level admission As per GATE/PGECET notification	16
M. Tech. (Nanotechnology) 2019-21 batch	18	16	16
M.Pharmacy (Pharmaceutical Analysis)	18	18	17
M.Pharmacy (Pharmaceutics)	18	19	19
M.Pharmacy (Pharmacognosy)	18	18	17
M.Tech (Spatial Information Technology)	18	15	13
M.Tech (Water and Environmental Technology)	18	15	15

2.2 Catering to Student Diversity

2.2.1. Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full-time teachers available in the institution teaching only UG courses	Number of full-time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
Centre for Biotechnology (CBT)					
2019	NIL	68	NIL	9	NIL
Centre for Chemical Science & Technology (CCST)					
2019	--	55	--	10	--
Centre for Environment (CEN)					

M.Tech (EMT) 2018		15		6	
M.Tech (EGM) 2018		17			
M.Tech (EMT) 2019		16		6	
M.Tech (EGM) 2019		16			
Centre for Nano Science and Technology (CNST)					
2019-20	NA	16	NA	03	NA
Centre for Spatial Information and Technology (CSIT)					
2019	-	53	-	09	09
CSIT					
2019	N/A	15		03	01
Centre for Water Resources (CWR)					
2019	NA	15	NA	4	4(PG)
2.3 Teaching - Learning Process					
2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)					
Number of teachers on roll	Number of teachers using ICT (<i>LMS, e-Resources</i>)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
Centre for Biotechnology (CBT)					
9	9	Smart Boards	3	3	E-text, E-assignments Powerpoints Animated vedios
Centre for Chemical Science & Technology (CCST)					
9	9	Yes	4	4	Powerpoints Animated vedios, Projectors, E-Library
Centre for Environment (CEN)					

6	6	Smart Board, LCD projector, Computer/lapt op	2	2	NPTEL lectures, you tube videos, powerpoint presentations, Moodle teaching learning platform
Centre for Nano Science and Technology (CNST)					
03	03	LCD Projectors-4, E-classrooms-1 Printers-8 Lan connectivity to all computers Total no of computers 26	E-classrooms-1	NIL	Computers with internet connection, LCD Projectors, Overhead projectors
Centre for Pharmaceutical Sciences (CPS)					
9	9	LCD Projectors-3	E-classrooms-2	2	Computers with internet, LCD Projectors, E- assignments Powerpoints Animated videos, E- Library
Centre for Spatial Information and Technology (CSIT)					
2	3	computers , software, laptops	2	2	E-Library
Centre for Water 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
55	01- Professor (Permanent) 01-Professor(C) 01-Emeritus Professor 01(Associate Professor(c) 05-Assistant Professor(c)	1:6

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

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 institution. 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 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 Quality				
2.4.1 Number of full-time teachers appointed during the CAY				
No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
Centre for Biotechnology (CBT)				
NIL	NIL	NIL	NIL	NIL
Centre for Chemical Science & Technology (CCST)				
NIL	NIL	NIL	NIL	NIL
Centre for Environment (CEN)				
5 regular 2 on contract faculty positions	4 regular and one on contract faculty positions	1 associate professor (regular)	1 Associate professor (on contract)	6 (100%)
Centre for Nano Science and Technology (CNST)				
1(Contract Faculty)	1(Contract Faculty)	0	1(Contract Faculty)	02
Centre for Pharmaceutical Sciences (CPS)				
NIL	NIL	NIL	NIL	NIL
Centre for Spatial Information and Technology (CSIT)				
No	03	01	No	01
Centre for Water Resources (CWR)				
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 award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr.ArchanaGiri	Professor, BOS chair person	Meritorious teacher award
2019	Dr.ArchanaGiri	Professor, BOS chair person	Fellow of the Telangana Academy of Sciences (FTAS) for the year 2019.
2020	Dr.T.VijayaLaksmi	Associate professor & BOS chair person	EC member JNTUH
2018-19	Dr. K. Venkateswara Rao	Professor & Head of the Department	Awarded as NPTEL Certificate of appreciation Instrumental role as SPOC for swayam NPTEL local chapter.
2018-19	Dr. CH. Shilpa Chakra	Assistant Professor	Elected as Associate fellow in Engineering Sciences from 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
2019	PROF.M.V.S.S.GIRIDHAR	PROFESSOR , CWR, IST,JNTUH	WMF AWARD FOR BEST CONTRIBUTION TOWARDS CONSERVATION OF WATER 2019, WATER MANAGEMENT FORUM, A PHERIPHERAL BODY OF THE INSTITUTE OF ENGINEERS (INDIA)
2019	PROF.K.RAMAMOHAN REDDY	PROFESSOR, CWR,IST,JNT	OSD to VC, Director of Audit cell

		UH	
2019	PROF.K.RAMAMOCHAN 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 Process and Reforms

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. Biotechnology (2018-20)	M.Sc (BT)	2 nd Semester-2019	July 2019	18 th September 2019
M.Sc. Microbiology (2018-20)	M.Sc (MB)	2 nd Semester-2019	July 2019	18 th September 2019
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 Semester--2019	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 (Environmental Management)	031D31	I semester 2019 batch	20-01-2020 (I-semester 2019 batch))	
M.Tech (Environmental Geomatics)	031D60	I semester 2019 batch	20-01-2020 (I-semester 2019 batch))	
M.Tech (Nano Technology) 2018-20 Batch	NT	III semester/2019	13-12-2019	17-06-2020
M. Pharmacy Pharmaceutical Analysis	S04	II/I	April2020	July 2020
M. Pharmacy Pharmaceutics	S03	II/I	April2020	July 2020
M. Pharmacy Pharmacognosy	S07	II/I	April2020	July 2020
M.Tech (Spatial Information)	32	I/I	20-01-2020 (I- semester	July /2020

Technology)			2019 batch))	
M.Tech (Water and Environmental Technology)	59	I SEMESTER /2019	01-02-2020	June 2020
M.Tech (Water and Environmental Technology)	59	II SEMESTER /2020	24-08-2020	June 2020

2.5.2 Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the CAY <i>*Do not include re-evaluation/ re-totalling</i>		
Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Centre for Spatial Information and Technology (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)		
Nil	Nil	Nil
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.	Course Code/Course Title	Course Outcomes

No		
1.	WET -01 Surface Water Hydrology	The student is expected CO1: 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 Ground Water Hydrology	CO1: To understanding the fundamentals concepts of groundwater for its storage 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 Advanced Fluid Mechanics	The Student is expected to 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 Applied Statistical Methods	The students should be able 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 Geo-Physical Exploration and Watershed Management	CO1: Understanding the hydro geological concepts and occurrence of groundwater in various rock formations application of hydrological methods to groundwater exploration.
		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: To understand 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 Environmental Laboratory	Students will be able to
		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 Groundwater laboratory	CO1: Exploring the ground water using electrical resistivity methods.
		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 logging 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 Irrigation Management	CO1: Understanding irrigation development in India and soil water plant 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 Advanced Wastewater Treatment Technologies	The student is expected CO1: To know about sewerage systems, design and appurtenances.
		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, constructed wetlands, recycle and reuse of treated wastewater.
16	WET-12 Fluvial Hydraulics	The student is expected CO1: To learn about types of flows and flow profiles, varied flow analysis and computation.
		CO2: Understand dam break analysis, formation of jump on sloping channels, surges and its types.
		CO3: Know about different methods of dimensional analysis and its applications.
		CO4: Gain knowledge about different dimensionless members and their model laws and flow fields in which they are applicable, kinds of similarity and types of models and scale effect.
		CO5: Be thorough with design of alluvial channels, different theories and their relative merits and demerits.

17	WET -12 Solid and Hazardous Waste Management	The student is expected CO1: To know about solid and hazardous waste transportation, environmental laws and analysis of hazardous waste.
		CO2: Learn waste recovery processes, cradle to grave concept of handling hazardous waste.
		CO3: Understand disposal of hazardous waste both on surface and underground and waste minimization and hazardous waste remediation technologies.
		CO4: Be familiar with collection transportation treatment and safe disposal of both biological and electronic waste and be conversant with reuse and recycling of wastes, recovery of by products and energy audit.
		CO5: Gain knowledge about waste land characteristics and its remediation, different kinds of pollution of soils, remediation methods.
18	WET-12 Urban Hydrology	The student is expected CO1: To know about impact of urbanization on urban runoff urban water sub systems, urban hydrologic cycle.
		CO2: Learn modeling of storm water, probabilistic and statistical approaches of analysis of storm water data.
		CO3: Understand urban drainage systems, sewers, components, design considerations, infiltration and exfiltration in sewers, field investigations and control measures.
		CO4: Be well acquainted with storm water management, monitoring run off, quantity and quality, measures to mitigate damaging effects of urban storm runoff.
		CO5: Be familiar with maintenance of urban drainage systems, pump stations, illicit connections, limitations and regulations.
19	WET-12 Water Resources System Analysis	The Student is expected to CO1: To develop objective function and constraints for various water resources optimization problems.
		CO2: To develop linear programming models for water resources problems by 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 dynamic programming models.
		CO4: To understand optimization and simulation concepts and modeling and also apply simulation techniques in water resources problems.
		CO5: To understand the fundamentals of economic theory as applied to water resources.
20	WET-13 Sustainable Water Resources Development	The student is expected to CO1: To Know about frame work for sustainable development of water Resources keeping global water crises in view.
		CO2: To learn virtual water, national water policy, national water mission along with the challenges in the development of sustainable development of water 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 Environmental Impact Assessment	The Student is expected to CO1: Understand the basic concept of EIA, important steps in EIA and systematic 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 the field visit to industries.
22	WET -13 Hydropower Development	The student is expected 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 Water Resources Simulation and Modeling Lab	The Student is expected to CO1: Identify and Generate different types of maps using remote sensing and GIS 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.
		CO5: Identify harvesting structures in given area.
24	WET-15 Image Processing Laboratory	The students will have hands - on experience in 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.

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 (Environmental Management) 2017	16	12	75%
31D60	M.Tech (Environmental 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	14	12	86%

	Technology)			
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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

3.1.1 Teachers awarded National/International fellowship for advanced studies/ research during the year

	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
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

3.1.2 Number of JRFs, SRFs, Post-Doctoral 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
Centre for Biotechnology (CBT)		
TEQIP JRF (2)	2 YEARS	TEQIP
Centre for Environment (CEN)		
Research Assistantship (5)	2018-2020 (1) 2019-2020 (4)	TEQIP-III
UGC-PDF (1)	2017-2022	UGC
UGC Kothari-PDF (3)	2017-2020 (1) 2018-2021 (2)	UGC
DBT-RA (1)	2018-2020	DBT
Centre for Nano Science and Technology (CNST)		
T. Rakesh Kumar (JRF DST SERB CORE Project)	2 years	DST, Govt of India
K. Shireesha (JRF DST SEED Project)	2 years	DST, Govt of India
Centre for Water Resources (CWR)		
Mr. V. Narasaiah (RA)	2018-2020	TEQIP-III
Mrs. G. Hepsa 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
Centre for Spatial Information and Technology (CSIT)		
NIL	NIL	NIL
Centre for Pharmaceutical Sciences		
NIL	NIL	NIL

3.2 Resource Mobilization for Research				
3.2.1 Research funds sanctioned and received from various agencies, industry and other organizations				
Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Centre for Biotechnology (CBT)				
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	NILL			
Students Research Projects <i>(other than compulsory by the University)</i>				
International Projects				
Any other(Specify)				
Total			108 .39 Crore	30.69 Lakh
Centre for Chemical Science & Technology (CCST)				

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received 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 (<i>other than compulsory by the University</i>)	NIL			
International Projects	NIL			
Any other(Specify)	NIL			
Total			23 Lakhs	

Centre for Environment (CEN)

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects				
Carbon sequestration using anoxygenic photoautotrophic bacteria: Potential exploitation for Climate Change 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	2018-2020	UGC (midcareer award grant)	10.0lakhs	5.0 lakhs

the wastewater treatment (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				
Microbially induced calcite precipitation for crack remediation in concrete structure (in collaboration with GRIET, Hyderabad and VJIT, Hyderabad)	2019-2020	TEQIP-III JNTUH	2,99,000	2,00,000
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	6.8 lakhs

	PDF kothari (UGC)	2017-2020	6.8 lakhs/year	6.8 lakhs
	DBT RA	2018-2020	6.11 lakhs/year	6.11 lakhs
	PDF UGC (SC/ST)	2017-2022	6.5 lakhs/year	6.5 lakhs
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
bioaugmentation for composting of organic waste (monicaMTech project)	One year	TEQIP-III	10,000.00	10,000.00
extraction of microalgal polyhydroxyalkanoates (aksharaMTech project)	One year	TEQIP-III	20,000.00	10,000.00
Studies on Bio-Struvite formation for nutrient recovery from wastewater (HarshavardhanreddyMTech project)	One year	TEQIP-III	10,000.00	10,000.00
Environmental impact assessment of ground water pollution of medical using RS and GIS. (Pranod KumarMTech project)	One year	TEQIP-III	10,000.00	10,000.00
Cost effective treatment of pesticide	One year	TEQIP-III	10,000.00	10,000.00

intermediate 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 Eco-friendly 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				
Centre for Nano Science and Technology (CNST)				

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received 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	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
Interdisciplinary Projects	-	-	-	-
Industry sponsored Projects	2018-19	Academic & Industrial Collaborative Project Agastya Agro Limited	14.2 Lakhs	14.2 Lakhs
Projects sponsored by the University	-	-	-	-
Students Research Projects (<i>other than compulsory by the University</i>)	-	-	-	-
International Projects	-	-	-	-
Any other(Specify)	-	-	-	-
Total			133.11 Lakhs	133.11 Lakhs

Centre for Pharmaceutical Sciences (CPS)

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects		Nil		
Minor Projects		Nil		
Interdisciplinary Projects		Nil		
Industry sponsored Projects		Nil		
Projects sponsored by the University		Nil		
Students Research Projects (<i>other than compulsory by the University</i>)		Nil		
International Projects		Nil		
Any other(Specify)		Nil		
Total				

Centre for Spatial Information and Technology (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 <i>(other than compulsory by the University)</i>				
International Projects				
Any other(Specify)				
Total				

Centre for Water Resources (CWR)

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 <i>(other than compulsory by the University)</i>				
International Projects				
Any other(Specify)				
Total				

3.3 Innovation Ecosystem		
3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the CAY		
Title of Workshop/Seminar	Name of the Dept.	Date(s)
Centre for Chemical Science & Technology (CCST)		
Advances in Chemical Reactor Technologies	Centre for Chemical Sciences & Technology, IST, JNTUH	06th December, 2019
Centre for Environment (CEN)		
Two weeks training programme on geospatial technologies and field visit	centre for environment	10th - 23rd June 2019
one week training programme on EIA	centre for environment	19th-25th August 2019
Centre for Pharmaceutical Sciences (CPS)		
Pharmaceutical Regulatory affairs and Intellectual Property rights	Centre for Pharmaceutical sciences	1-08-2019 to 14-08-2019
Centre for Spatial Information and Technology (CSIT)		
Webinar on Advances in Geo-spatial Technologies	CSIT, IST, JNTUH	05-06-2020
Centre for Biotechnology (CBT)		
Centre for Nano Science and Technology (CNST)		
Centre for Water Resources (CWR)		
NIL		

3.3.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year				
Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
Centre for Environment (CEN)				
Best Researcher award – 2019	Dr.A.Vamshi Krishna Reddy	Allinov Research & Development Pvt. Ltd., (India)	2019	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	Research
Research excellence award	G. Shankaraiah	Institute of scholars	March 2020	Research
Centre for Biotechnology (CBT) Centre for Chemical Science & Technology (CCST) Centre for Nano Science and Technology (CNST) Centre for Pharmaceutical Sciences (CPS) Centre for Spatial Information and Technology (CSIT) Centre for Water Resources (CWR)				
NIL	NIL	NIL	NIL	NIL
3.3.3 No. of Incubation centre created/start-ups incubated on campus during the CAY				
Incubation Centre	Name	Sponsored by		
Centre for Chemical Science & Technology (CCST)				
Advanced synthesis lab	Advanced synthesis laboratory	Group of laboratories(PS3 laboratory, Dr. Reddys Laboratories, Mylan Laboratories, Hetero Drugs, MSN Labs, Aurobindo Pharma Industry)		
Centre for Biotechnology (CBT) Centre for Environment (CEN) Centre for Nano Science and Technology (CNST) Centre for Pharmaceutical Sciences (CPS) Centre for Spatial Information and Technology (CSIT) Centre for Water Resources (CWR)				
NIL	NIL	NIL		

Name of the Start-up	Nature of Start-up	Date of commencement	
Centre for Chemical Science & Technology (CCST)			
Ps3 laboratories	Organic synthesis	November 2017	
Centre for Environment (CEN)			
MSME	Treatment of wastewater using movable electrochemical reactor	2018-2019	
3.4 Research Publications and Awards			
3.4.1 Ph. Ds awarded during the CAY			
Name of the Department		No. of Ph. Ds Awarded	
Centre for Biotechnology		22	
Centre for Chemical Science & Technology		15	
Centre for Environment		6	
Centre for Pharmaceutical sciences		44	
Centre for Water Resources		01	
3.4.2 Research Publications in the Journals notified on UGC website during the CAY			
	Department	No. of Publications	Average Impact Factor, if any
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	
International	Centre for Water Resources	6	5.045

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

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 Biotechnology						
Title of the paper	Name of the author	Title of the journal	Year of publication	Citation 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,	Lathewdei por 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 <i>Salacia Oblonga</i> 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	Sukanya M S and Archana Giri	British Journal of Pharmaceutical and Medical Research	2019	0	JNTUH	0

for enhanced production of the therapeutically important secondary metabolite – withaferin a.						
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 venkatesh wareddy	Asian journal of microbiology and biotechnology	2019	0	JNTUH	0
Composting of Sweet Sorghum Bagasse and its Impact on Plant Growth Promotion;	Subramani am Gopalakrishnan, Vadlamudi Srinivas, Ashok Kumar, Akula V. Umakanth, Uma Addepally, Pinnamane ni 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. Maddid, Subhabrata Sen;	European Journal of Medicinal Chemistry	2020	0	JNTUH	0
Evaluation of ethanol fermentation efficiency of sweet sorghum syrups produced by integrated 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
<u>In vitro biological evaluation of half-sandwich platinum-group metal complexes containing benzothiazole moiety.</u>	Lathewdeipor Shadap, Venkanna Banothu, Emma Pinder, Roger M Phillips, Werner Kaminsky & Mohan Rao Kollipara.	Journal of Coordination Chemistry	2020	0	JNTUH	0

<p><u>Assembly of benzothiazine and triazole in a single molecular entity: Synthesis of -oxicam derived novel molecules as potential antibacterial / anti-cancer agents.</u></p>	<p><u>P. Neeraja, S Srinivas, Venkanna Banothu, B. Sridhar, K Mukkanti, Pramod Kumar Dubey & Sarbani Pal.</u></p>	<p>Mini-Reviews in Medicinal Chemistry</p>	<p>2020</p>	<p>1</p>	<p>JNTUH</p>	<p>1</p>
<p>Synthesis of half sandwich platinum group metal complexes containing pyridyl benzothiazole hydrazones: Study of bonding modes and antimicrobial activity.</p>	<p>Lincoln Dkhar, Venkanna Banothu, Werner Kaminsky & Mohan Rao Kollipara.</p>	<p>Journal of Organometallic Chemistry</p>	<p>2020</p>	<p>1</p>	<p>JNTUH</p>	<p>1</p>
<p>Fluorenone Schiff base derivative complexes of ruthenium, rhodium and iridium exhibiting efficient antibacterial activity and DNA-binding affinity.</p>	<p>Mohan Rao Kollipara, Latewdeip or Shadap, Venkanna Banothu, Nipanshu Agarwal & Krishna Mohan Poluri.</p>	<p>Journal of Organometallic Chemistry</p>	<p>2020</p>	<p>0</p>	<p>JNTUH</p>	<p>0</p>
<p><u>Design and synthesis of oxaprozin-1,3,4-oxadiazole hybrids as potential anticancer and antibacterial agents.</u></p>	<p>Parsharam ulu Rayam, Naveen Polkam, Naveen Kuntala,</p>	<p>Journal of Heterocyclic Chemistry</p>	<p>2020</p>	<p>0</p>	<p>JNTUH</p>	<p>0</p>

	Venkanna Banothu, Hasitha Shilpa Anantaraju, Yogeeswari Perumal, Sridhar Balasubramanian & Jaya Shree Anireddy.					
<u>Enhanced photocatalytic and antibacterial activity of ZnO/Ag nanostructure synthesized by Tamarindus indica pulp extract.</u>	Dayakar Thatikayala, Venkanna Banothu, Jisoo Kim, Dong Su Shin, S Vijayalakshmi & 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	Agreda 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, Lbaniewk or L. Mawnai, Venkanna Banothu, Werner Kaminsky & Mohan Rao Kollipara.	Journal of Organometallic Chemistry	2020	0	JNTUH	0
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Centre for Chemical Science & Technology

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Cross-dehydrogenative C(sp ³)-C(sp ³) 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 Anti-fungal agents	Prof. A. Jaya Shree	Chemistry. Biology Letter.	2019		Centre for Chemical Sciences & Technology , Institute of Science and Technology , JNTUH.	
<u>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</u>	Prof. A. Jaya Shree	Bioorganic Chemistry, 103558	2019		Centre for Chemical Sciences & Technology , Institute of Science and Technology , JNTUH.	
<u>QbD-based development of an extraction procedure for simultaneous quantification</u>	Prof. A. Jaya Shree	Biomedical Chromatography	2019		Centre for Chemical Sciences	

<u>of telmisartan, amlodipine besylate and chlorthalidone in combination complex matrix formulation</u>					&Technology, Institute of Science and Technology, JNTUH.	
<u>Development of a Novel and Scalable Process for the Synthesis of a Key Cangrelor Intermediate</u>	Prof. A. Jaya Shree	Organic Preparations and Procedures International 51 (6), 530-536	2019		Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.	
Design and synthesis of oxaprozin-1,3,4-oxadiazole hybrids as potential anticancer and antibacterial agents	Prof. A. Jaya Shree	Journal of Heterocyclic Chemistry 2019 DOI: 10.1002/jhet.3842	2019		Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.	
<u>Stereoselective Synthesis for Potential Isomers of Ticagrelor Key Starting Material</u>	Prof. A. Jaya Shree	Journal of Heterocyclic Chemistry 56 (10), 2866-2872	2019		Centre for Chemical Sciences & Technology, Institute of Science and Technology, JNTUH.	
<u>ZnO Nanocatalyst Mediated Convergent Synthesis of Highly Substituted Imidazole and Imidazole-derived Bi-heterocyclic Scaffolds as Potential Antibacterial Agents</u>	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.	

<u>A study on structural characterization of degradation products of cangrelor using LC/QTOF/MS/MS and NMR</u>	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 & Discovery,	2019		Centre for Chemical Sciences & Technology , Institute of Science and Technology , JNTUH.	
<u>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</u>	Prof. A. Jaya Shree	Chemical Data Collections	2019		Centre for Chemical Sciences & Technology , Institute of Science and Technology , JNTUH.	
<u>Design, Synthesis, and Antimicrobial Activity of Novel 6-Oxopyrimidin-1(6H)-yl Benzamide Derivatives</u>	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	
<u>Synthesis, Docking, and Bioavailability of 2' - Oxo - 3 - phenylspiro[cyclopropane-1,3'-indoline]-2,2-dicarbonitriles as Antibacterial Agents In</u>	Prof. A. Jaya Shree	Journal of Heterocyclic Chemistry 56, 209-217.	2019		Centre for Chemical Sciences & Technology , Institute of Science and	

<u>Silico</u>					Technology , JNTUH.	
<u>Synthesis and Biological Evaluation of New Ibuprofen-1, 3, 4-oxadiazole-1, 2, 3-triazole Hybrids</u>	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 ,	
<u>Cross-dehydrogenative C (sp³)-C (sp³) coupling via CH activation using magnetically retrievable ruthenium-based photoredox nanocatalyst under aerobic conditions</u>	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-dihydro-1H-inden-1-yl)-3-aryl urea/thiourea derivatives as potent antioxidants and 2HCK enzyme growth 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	

fungal agents					, Institute of Science and Technology , JNTUH	
A study on structural characterization of degradation products 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 Bioavailability 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	

Centre for Environment (CEN)

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation 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.Himabin du	water, air and soil pollution (accepted May 2020) ISSN: 1573-2932	2020 (IF1.79)	0		0
<i>Gimesiachilikensis</i> sp. nov., a haloalkalitolerantplanctomycetes isolated from Chilika lagoon and emended description of the genus Gimesia	Dhanesh Kumar; Kumar Gaurav; Sreya PK; Shabbir A; Jagadeeshwari U; SasikalaCh and RamanaC	Int. J. Syst. Evol. Microbiol. (in press)	2020 [IF=2.166]	0		0

	h.V.					
<i>Roseimaritimasediminicola</i> 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. Microbiol. (in press)	2020 [IF=2.166]	0		0
<i>Paracoccusaeridae</i> sp. nov., an indole producing bacterium isolated from the rhizosphere of an orchid, <i>Aeridesmaculosa</i>	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.0.003962)	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/fmicb.2019.02480	2020 (IF=4.259)	4		4
<u><i>Rhodobactersediminicola</i> sp. nov., isolated from a fresh water pond of Gujarat</u>	G Suresh, Dhanesh Kumar, A Krishnaiah, SasikalaCh	International Journal of Systematic and Evolutionary Microbiology 70(2):1294-1299 ISSN: 14665026,	2020 (IF:2.166)			
<u><i>Rhodomicrobium lacus</i> sp. nov., an alkalitolerent bacterium isolated from Umiam lake, Shillong, India</u>	G Suresh, Dhanesh Kumar, JagadeeshwariUppada, SasikalaCh	International Journal of Systematic and Evolutionary Microbiology 70(1):662-667 ISSN: 14665026,	2020 (IF:2.166)			

<i>Afifellaestuarii</i> , sp. nov., a novel phototrophic bacterium isolated from rhizosphere soil of a xerophytes.	SailajaBudhi, G Suresh, Deepshikha Gupta, SasikalaCh	Int. J. Syst. Evol. Microbiol. (In Press; doi:10.1099/ijsem.0.003756)	2019 [IF=2.166]	0		0
<u><i>Chryseobacteriumcandidae</i> sp. nov., isolated from a yeast (<i>Candida tropicalis</i>)</u>	B Indu, G Kumar, N Smita, A Shabbir, SasikalaCh	Int. J. Syst. Evol. Microbiol. (In Press; doi:10.1099/ijsem.0.003716)	2020 [IF=2.166].	0		0
Geospatial Technology for mapping and analysis of social and infrastructural facilities at village level: a case study of Chinnapendyala village	M.Abhilash, T.Vijayalakshmi	Modeling Earth Systems and Environment (accepted April 2020) ISSN: 2363-6211	2020 (IF:0.83)	0		0
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.2019.03.002	2019	69		69
Emerging contaminant (Triclosan) identification and its treatment - A Review,	ShrutiJagini, Srilathakonda, 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
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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.org/10.1007/s40899-019-00336-z	2019			
Boron-doped carbon nanoparticles supported palladium as an efficient	S.Shiva Kumar, V.Himabin	Renewable Energy, 146, 2281-2290	2019 (IF:5.439)	3		3

hydrogen evolution electrode in PEM water electrolysis	du,	ISSN: 0960-1481 https://doi.org/10.1016/j.renene.2019.08.068				
<u>Assessment of Natural Radioactivity in Soils around the Proposed Uranium Mining Site of Lambapur–Peddagattu and Seripally, India</u>	T Raghavendra, K Vishwaprasad, G Kalyani, T Vijayalakshmi, V Himabindu, J Arunachalam, P Padmasavithri, Vinod Kumar, RM Tripathi	Journal of the Geological Society of India	2019	1		1
<u>Risk assessment due to intake of trace metals through the ingestion of groundwater around proposed uranium mining areas of Nalgonda district, Telangana, India</u>	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)			
<u>Pyrolysis of Garden Waste: Comparative Study of <i>Leucaenaleucocephala</i> (Subabul Leaves) and <i>Azadirachta indica</i> (Neem Leaves) Wastes</u>	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)			
<u>Precursor-feeding and altered-growth conditions reveal novel blue pigment production by <i>Rubrivivaxbenzoatilyticus</i> JA2</u>	Lakshmi PrasunaMeekala, Mujahid Mohammed, SasikalaChintalapati,	Biotechnology letters 41:813–822	2019 (IF: 1.846)			

	VenkataRamaChintalapati					
<u>Phylogenetic diversity of sulfate-reducing bacteria of sediments of Chilika Lake, India, determined through analysis of the dissimilatory sulfite reductase (<i>dsr AB</i>) gene</u>	Sri SasiJyothsnaTadinada, Rahul Kamidi, Saikat Dutta, SasikalaChintalapati, VenkataRamaChintalapati	3 Biotech, 9:134, https://doi.org/10.1007/s13205-019-1655-2	2019 (IF: 2.351)			
<u>Transcriptome analysis of hopanoiddeficient mutant of Rhodopseudomonaspalustris TIE-1</u>	Tushar D Lodha, B Indu, SasikalaCh	Microbiological research, 218, 108-117 https://doi.org/10.1016/j.micres.2018.10.009	2019 (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 Materials3 85121571 Epub 2019 Nov 3. (In Press DOI : 10.1016/j.jhazmat.2019.121571)	2019 (IF:7.650)	1		1
<u>Emerging Concepts in Bacterial Taxonomy</u>	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: 10.1007/978-981-13-8315-1_1	2019			
<u>iTRAQ-based quantitative proteomics reveals insights into metabolic and molecular responses of glucose-grown cells of</u>	Deepshikha Gupta, Mujahid Mohammed, Lakshmi	Journal of proteomics 194:49-59. doi:	2019 (IF:3.53)			

<u>Rubrivivaxbenzoatilyticus JA2</u>	PrasunaMe kala, SasikalaCh intalapati, VenkataRa manaChint alapati	10.1016/j.jprot.2018 .12.027 DOI: 10.1016/j.jprot .2018.12.027				
<u>Pyomelanin production: Insights into the incomplete aerobic l-phenylalanine catabolism of a photosynthetic bacterium, Rubrivivaxbenzoatilyticus JA2</u>	VenkataRa manaChint halapatia Lakshmi PrasunaMe kalaa, MujahidM oammeda, SasikalaCh inthalapati	International Journal of Biological Macromolecules 126:755-764. doi: 10.1016/j.ijbiomac.2018.12.142.	2019 (IF:4.78)			

Centre for Nano Science and Technology (CNST)

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
<u>Effects of deposition temperatures and substrates on microstructure and optical properties of sputtered CCTO thin film</u>	Mohsen Ahmadipur, Wei KianCheah, MohdFadzil Ain, Kalagadda Venkateswara Rao, ZainalArifin Ahmad	Materials Letters	2018	16	School of Materials and Mineral Resources Engineering, Universiti Sains Malaysia, Engineering Campus, 14300 NibongTebal, Penang, Malaysia Center for Nanoscience and Technology, Institute	-

					of Science and Technology, Jawaharlal Nehru Technological University Hyderabad, Telangana 500085, India	
<u>Effect of Few-Layered Graphene-Based CdONanocomposite-Enhanced Power Conversion Efficiency of Dye-Sensitized Solar Cell</u>	SatishBykam, Bikshalu Kalagadda, Venkateswara Rao Kalagadda, Mohsen Ahmadipour, Ch Shilpa Chakra, V Rajendar	Journal of Electronic Materials	2018	2	Nano Electronic Laboratory, Centre for Nanoscience and Technology, Institute of Science and Technology, Jawaharlal Nehru Technological University, Hyderabad, Telangana State 500085, India. Department of Electronics &Comunication	-

					<p>Engineering, Kakatiya University , Warangal 506009, India. School of Medicine, Radiology Department, Johns Hopkins University , Baltimore, MD, USA.</p>	
<p><u>Nanostructured conducting polyaniline (NSPANI)/CeO₂ nanocomposites for humidity sensors application</u></p>	<p>B Geeta, K Bikshalu, V Rajendar, K Venkates wara Rao</p>	<p>Journal of Materials Science: Materials in Electronics</p>	<p>2018</p>	<p>8</p>	<p>Center for Nanosc ience and Techn ology, Institute of Science and Techn ology, Jawaharlal Nehru Technolog ical University Hyderabad , Hyderabad , Telangana 500085, India 2 Departmen t of Electro nics & Communic ation Engineerin</p>	<p>-</p>

					g, Kakatiya University , Warangal, Telangana 506009, India	
<u>Room temperature LPG resistive sensor based on the use of a few-layer graphene/SnO₂ nanocomposite</u>	SolletiGo utham, SatishByk kam, Kishor Kumar Sadasivun i, DevaraiSa nthosh Kumar, Mohsen Ahmadipo ur, ZainalArif in Ahmad, Kalagadd a Venkates wara Rao	MicrochimicaActa	2018	8	Nano Electronic s Laboratory , Centre for Nano Science and Technolog y, JNT University Hyderabad , Kukatpally , Hyderabad , Telangana 500085, India 2 Department of Mechanica l and Industrial Engineerin g, Qatar University , P.O. Box 2713, Doha, Qata	-
<u>Flexible ultra-sensitive and resistive NO₂ gas sensor based on nanostructured Zn (x) Fe</u>	SolletiGo utham, Kishor Kumar	RSC advances	2018	4	Nano Electronic s Laboratory	-

<u>(1-x) 204</u>	Sadasivuni, DevaraiSanthosh Kumar, Kalagadda Venkateswara Rao				, Centre for Nano Science and Technology, JNT University Hyderabad, Kukatpally, Hyderabad -500085, Telangana State, India. E-mail: kalgadda2003@jntuh.ac.in ; Tel: +91 9440858664 ^b Center for Advanced Materials, Qatar University, P. O. Box 2713, Doha, Qatar ^c Department of Chemical Engineering, IIT – Hyderabad, Kandi-502285, Telangana, India	
<u>Biogenic synthesis, characterization, acute oral toxicity studies of</u>	N Jayarambabu, K	Materials Letters	2018	10	Centre for Nanoscience and	-

<p><u>synthesized Ag and ZnO nanoparticles using aqueous extract of Lawsonia inermis</u></p>	<p>Venkateswara Rao, V Rajendar</p>			<p>Technology, Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad, Telangana State, 500085, India. Department of Physics, B.V. Raju Institute of Technology, Narsapur, Medak, Telangana state, 502313, India. Department of Electronic Engineering, Yeungnam University, Gyeongsan-si, Gyeongsangbuk-do, 38541, Republic of Korea.</p>	
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<p><u>Non-enzymatic sensing of glucose using screen-printed electrode modified with novel synthesized CeO₂@CuO core shell nanostructure</u></p>	<p>dayakar T venkatesw araraokala gadda</p>	<p>Biosensors and Bioelectronics</p>	<p>2018</p>	<p>24</p>	<p>Center for Nanoscience and Technology, Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad, Telangana State, 500085, India Department of Electronics & Communication Engineering, Kakatiya University, Warangal, Telangana State, 506009, India Department of Science & technology, Vignan foundation for Science, Technology</p>	<p>-</p>
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					&Research , Guntur, Andhra Pradesh- 522213, India	
<u>Novel synthesis and characterization of Ag@TiO2 core shell nanostructure for non-enzymatic glucose sensor</u>	T Dayakar, M Vinodku mar, K Bikshalu, B Chakradh ar	Applied Surface Science	2018	10	Center for Nanoscienc e and Technolog y, Institute of Science and Technolog y, Jawaharlal Nehru Technolog ical University Hyderabad , Telangana State, 500085, India. bDepartme nt of Electronic s & Communic ation Engineerin g, Kakatiya University , Warangal, Telangana State, 506009, India. CCrystal Growth and Nano-	-

					Science Research Center, Government College(A), Rajamahendravaram, AP-INDIA	
<u>Synthesis and Study of Ultrasonic Parameters of MgO-Ethylene Glycol Nanofluids</u>	V Kumar, K Venkateswara Rao	Journal of Nanofluids	2018	-	-	-
Non-enzymatic biosensing of glucose based on silver nanoparticles synthesized from Ocimumtenuiflorum leaf extract and silver nitrate	V. Sai kumara Dayakar. T, Venkateswara Rao K, K. Bikshalub, Kishor Kumar Sadasivun ic, Ramachandra Rao. K	Materials Chemistry and Physics	2018	7	-	
<u>A Comparative Study of Chemically and Biologically Synthesized MgO Nanomaterial for Liquefied Petroleum Gas Detection</u>	Rampelly Thirupathi, Goutham Solleti, TirumalaS reekanth, Kishor Kumar Sadasivun i, Kalagadd a Venkates	Journal of Electronic Materials	2018	4	1.Department of Physics, JNTUH College of Engineering Sultanpur, Sultanpur (V), Pulkal (M), Sangareddy, Telangana	-

	wara Rao				502 273, India. 2.— Center for Nano Science and Technolog y, Jawaharlal Nehru Technolog ical University Hyderabad , Kukatpally , Hyderabad , Telangana 50008, India. 3.— Present address: School of Medicine, Radiology Departmen t, Johns Hopkins University , Baltimore, MD, USA. 4.—Center for Advanced Materials, Qatar University ,	
<u>A smart LPG sensor based on chemo-bio synthesized MgO</u>	Sukhpreet Kaur, Jagpreet Singh,	Journal of Materials Science: Materials in	2018	6	1Department of Nanotec hnology,	-

<u>nanostructure</u>	RohitRaw at, Sanjeev Kumar, HarpreetK aur, K Venkates wara Rao, MohitRa wat	Electronics			Sri Guru Granth Sahib World University , Fatehgarh Sahib, Punjab 14 0406, India 2 Departmen t of Mechan ical Engineerin g, National Institute of Technol ogy, Kurukshet ra, Haryana 1 36119, India 3 Departmen t of Physics, Sri Guru Granth Sahib World University , Fatehgarh Sahib, Punjab 14 0406, India 4 Centre of Nanosci ence and Techn ology, Institution of Science	
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					and Technology, JNT University , Hyderabad 500085, India	
<u>Peptide-Based ⁶⁸Ga-PET Radiotracer for Imaging PD-L1 Expression in Cancer</u>	Ravindra A De Silva, Dhiraj Kumar, AlaLisok, SamitChatterjee, Bryan Wharram, Kalagadda Venkateswara Rao, Ronnie Mease, Robert F Dannals, Martin G Pomper, Sridhar Nimmagadda	Molecular pharmaceuticals	2018	18	Russell H. Morgan Department of Radiology and Radiological Science Johns Hopkins University Baltimore, Maryland 21287 (USA)	-
<u>Controlling the sensing performance of rGO filled PVDF nanocomposite with the addition of secondary nanofillers</u>	DeepalekshmiPonnamma, SolletiGoutham, Kishor Kumar Sadasivuni, Kalagadda Venkateswara Rao,	Synthetic Metals	2018	11	a Center for Advanced Materials, Qatar University , P.O. Box 2713, Doha, Qatar b Centre for Nano Science	-

	John Cabi John Cabi bihan, Mariam Al Ali Al- Maadeed				and Technolog y, Jawaharlal Nehru Technolog ical University , Hyderabad , Kukatpally , India c Departmen t of Mechanica l and Industrial Engineerin g, Qatar University , P.O. Box 2713, Doha, Qatar d Materials Science & Technolog y Program (MATS), College of Arts & Sciences, Qatar University , Doha, 2713, Qatar	
Biosynthesis, characterization and acute oral toxicity studies of synthesized iron oxide nanoparticles using ethanolic extract	Shanker K. Lakshmi Pravallika Poka, Krishna Mohan G, Venkates	Materials Letters	2018	9	Centre for Pharmaceu tical Sciences &2Centre for Nano Science	-

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<u>Silver nanoparticle synthesis from carica papaya and virtual screening for anti-dengue activity using molecular docking</u>	Sathiyapriya Renganathan, Vincent Aroulmoji, Gnanendra Shanmugam, GeethaDevarajan, Kalagadda Venkateswara Rao, VangaRajendar, Si-Hyun Park	Materials Research Express	2018	3	Departmen t of Physics, Mahendra Engineerin g College, Mahendhir apuri, Mallasamu dram — 637 503, Namakkal District, Tamil Nadu, India 2 Centre for Research and Developm ent, Mahendra Education al Institution s, Mallasamu dram— 637503, Namakkal District, Tamil Nadu, India 3 Departmen t of Biotechnol ogy, Yeungnam	-

					University , Gyeongsan, Republic Korea 4 Department of Physics, Annamalla i University , Annamalla i Nagar, Chidambar am, Tamilnadu , India 5 Centre for Nano Science and Technolog y, Jawaharlal Nehru Technolog ical University Hyderabad , Telangana, India 6 Departmen t of Electronic s Engineerin g, College of Engineerin g, Yeungnam University ,	
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					Gyeongsan-si, Gyeongsangbuk-do, 38541, Republic of Korea	
<u>Role of laminate fracture energy on ballistic performance of glass composite laminates</u>	P Rama Subba Reddy, T Sreekantha Reddy, K Mogulanna, G Seshagiri Rao, Vemuri Madhu, K Venkateswara Rao	Procedia Structural Integrity	2019	-	Armour Division, Defence Metallurgical Research Laboratory, Hyderabad -58, India Jawaharlal Nehru Technological University, Hyderabad – 72, India	-
<u>Resistive room temperature LPG sensor based on a graphene/CdO nanocomposite</u>	Solleti Gotham, Naradala Jayarambabu, Chintanand, Kishor Kumar Sadasivuni, Devarai Santhosh Kumar, Kalagadda Venkateswara Rao	Microchimica Acta	2019	5	Nano Electronics Laboratory, Centre for Nano Science and Technology, JNT University Hyderabad, Kukatpally, Telangana 500085, India	-

					<p>Department of Mechanical Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana 500043, India 3</p> <p>Department of Mechanical and Industrial Engineering, Qatar University, P.O. Box 2713, Doha, Qatar 4</p> <p>Department of Chemical Engineering, IIT-Hyderabad, Kandi, Hyderabad, Telangana 502285, India</p>	
<p><u>Conductive Polyaniline Nanosheets (CPANINS) for a non-enzymatic glucose</u></p>	<p>Shubham Sharma K.Venkat eswara</p>	<p>Materials Letters</p>	<p>2019</p>	<p>7</p>	<p>1Center for Nanoscience and</p>	<p>-</p>

<u>sensor</u>	Rao Saraswath iKailasaB. GeetaaN, Jayaramb abuR.Kira n Kumar Reddy				Technolog y, Institute of Science and Technolog y, Jawaharlal Nehru Technolog ical University Hyderabad , Telangana State, 500085, India. 2CSIR- Central Leather Research Institute, Regional Centre for Extension and Developm ent, India	
<u>Biosynthesis of Ag@ CuO core–shell nanostructures for non- enzymatic glucose sensing using screen- printed electrode</u>	T Dayakar, K Venkates wara Rao, Jinsub Park, Potharaju Krishna, P Swaroop, YuexingJi	Journal of Materials Science: Materials in Electronics	2019	1	Center for Nanosc ience and Techn ology, Institute of Science and Techn ology, Jawaharlal Nehru Technolog ical University Hyderabad , Hyderabad	-

					<p>, Telangana 500085, India 2 Departmen t of Electro nic Engineerin g, Hanyang University , Seoul 133- 791, South Kor ea 3 Departmen t of Physics, Osmania University , Hyderabad , Telangana 506009, India 4 Departmen t of Life Science, Osmania University , Hyderabad , Telangana 506009, India</p>	
<u>Structural, Antimicrobial and Electrochemical Properties of Cu/TiO₂ Nanocomposite</u>	CH Shilpa Chakra, Srikanth Mateti	CH Shilpa Chakra, SrikanthMateti	2019	1	1Centre for Nano Science and Technolog y, Institute	-

S					of Sci. & Tech., Jawaharlal Nehru Technological University , Hyderabad – 500 085, Telangana, India. 2 Institute for Frontier Materials, Deakin University , Geelong campus at Waurm Ponds, Victoria, 3216, Australia.	
<u>Adsorption Studies And Fluoride Removal From Aqueous Solutions By Graphene Oxide-Zinc Oxide Nanocomposite</u>	CS Chakra, VS Kumar, S Madhuri, P Anusha, TR Kumar,	Digest Journal Of Nanomaterials And Biostructures	2019	-	aCentre for Nano Science and Technology, Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad , Hyderabad 500085, Telangana,	-

					India bDepartment of Physics, Guru Nanak Institute of Technology, Ibrahimpatnam, 501506, Telangana, India	
Centre for Pharmaceutical Sciences (CPS)						
Title of the paper	Name of the author	Title of the journal	Year of publication	Citation 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 <i>Caesalpinia pulcherrima</i> (L.)	Y. Anusha, A. Niranjan Kumar, J. Kotesw Kumar, KVNS. Srinivas, A. Srivani, G. Krishna Mohan	International Journal of Pharmacy and Biological Sciences	2019	702(Overall)	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(Overall)	Centre for Pharmaceutical sciences, IST, JNTUH	397 (Overall)
Design and Synthesis of Indole Pyrimidine Scaffolds as Potential KSP Inhibitors and Anticancer Agents	Radhika Chelamalla , Ajitha Makula	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 PASHIKA NTI1, MAKULA AJITHA2, GOVERD HAN PUCHCH AKAYAL A.	International Journal of Pharmacy and Pharmaceutical Sciences	2019		Centre for Pharmaceuti cal sciences, IST, JNTUH	
STUDY TO FIND THE BEST EXTRACTION SOLVENT FOR USE WITH CUCUMBER PEEL (CUCUMIS SATIVUS) FOR HIGH NEUROPROTECTIVE ACTIVITY IN COGNITIVE IMPAIRED RATS	GirijaPashi kanti 1, MakulaAjit ha 2, Goverdhan Puchchaka yala	Journal of Scientific Research in Pharmacy	2019		Centre for Pharmaceuti cal sciences, IST, JNTUH	
NEUROPROTECTIVE EFFECT OF VARIOUS PHYTOCHEMICALS AND ITS POTENTIAL APPLICATION OF THREE MEDICINAL PLANTS IN NEURODEGENERATIV E DISEASES	GirijaPashi kanti , MakulaAjit ha , Goverdhan Puchchaka yala	Journal of Pharma Research	2019		Centre for Pharmaceuti cal sciences, IST, JNTUH	
Formulation and in Vivo Evaluation of Sulfasalazine Tablets for Colon Targeting Using Design of Experiment	Mohd. Rawoof *1, 2, K. Rajnarayan a1, M. Ajitha	Am. J. PharmTech Res	2019		Centre for Pharmaceuti cal sciences, IST, JNTUH	
Development and In Vivo Evaluation of Mesalazine Colon Targeted Tablets	MD Rawoof 1, 2, K. Rajnarayan	Int J Pharm Sci Nanotech	2019		Centre for Pharmaceuti cal sciences,	

	a1 and M. Ajitha				IST, JNTUH	
Transdermal delivery of fluvastatin loaded nanoemulsion gel: Preparation, characterization and in vivo anti-osteoporosis activity	Ramandee p Kaur, M Ajitha	European Journal of Pharmaceutical Sciences	2019		Centre for Pharmaceuti cal sciences, IST, JNTUH	
Formulation of transdermal nanoemulsion gel drug delivery system of lovastatin and its in vivo characterization in glucocorticoid induced osteoporosis rat model	Ramandee p Kaur, MakulaAjitha	Journal of Drug Delivery Science and Technology	2019		Centre for Pharmaceuti cal sciences, IST, JNTUH	
Effect of lovastatin nano drug delivery system on bone mineral density (BMD) and biomechanical properties of tibia bones of wistar rats	Ramandee p Kaur, MakulaAjitha	International Journal of Pharmacy and Pharmaceutical Sciences	2019		Centre for Pharmaceuti cal sciences, IST, JNTUH	
Method development and validation of vortioxetine hydrobromide by RP-HPLC,	J.Ravali, S.Shobhara ni, P.Venkata Praveen Kumar,	International Journal Of research and analytical Reviews	2019		Centre for Pharmaceuti cal sciences, IST, JNTUH	
Method Development and validation of related substances in felodipine extended release tablets by RP-HPLC	P.KavyaRao, S.Shobhara ni, K.S.L .Harika,	International Journal Of research and analytical Reviews	2019		Centre for Pharmaceuti cal sciences, IST, JNTUH	
Method Development and validation of dissolution of obeticholic acid tablets by RP-HPLC	C. Mounica, S. Shobhara ni, B. Naga Malleshwari	International journal of Pharma and Bio sciences	2019		Centre for Pharmaceuti cal 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 Pharmaceuti cal 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 Pharmaceuti cal 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 Pharmaceuti cal sciences, IST, JNTUH	
Development,In-vitro and exvivo Evaluation of Muco-adhesive Buccal Patches of candesartan cilexetil,	Kumara Swamy Samanthul a,Shobha Rani Satla, Agaiahgou dBairi	Research Journal of Pharma and technology	2019		Centre for Pharmaceuti cal sciences, IST, JNTUH	
A Review on Novel liposomes and its applications	M.Sunitha Reddy, Harika Ramineni	International journal of research and analytical reviews	2019	183(Ov erall)	Centre for Pharmaceuti cal sciences, IST, JNTUH	183(Overall)
Use of natural polymers over synthetic polymers in tablet formulations: A review	M.Sunitha Reddy, T.N.Purni ma,	Journal of emerging technologies and innovative research	2019		Centre for Pharmaceuti cal 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 Pharmaceuti cal sciences, IST, JNTUH	

Formulation development and evaluation of immediate release Bi-layer tablets of Anti-Retroviral drugs	Tammagou ni Anusha, M.Sunitha Reddy	International Journal of research and analytical reviews(IJRAR)	2019		Centre for Pharmaceuti cal sciences, IST, JNTUH	
Formulation development and evaluation of Bi-layer tablets of Anti-Retroviral drugs	MD.ZiaudinK.Anie Vijetha, M.Sunitha Reddy	International Journal of research and analytical reviews(IJRAR)	2019		Centre for Pharmaceuti cal 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 Pharmaceuti cal sciences, IST, JNTUH	
Formulation and evaluation of Methyl Prednisolone Acetate Parenteral Suspension	Phani Kishore, M.Sunitha Reddy	IJRAR	2019		Centre for Pharmaceuti cal sciences, IST, JNTUH	
Formulation and Evaluation of Itraconazole Niosomes Gel	M.Sunitha Reddy, SusmitaAr kala	International Journal of Research and Analytical Reviews	2019		Centre for Pharmaceuti cal 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 Pharmaceuti cal 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 Pharmaceuti cal sciences, IST, JNTUH	
Nasal Drug Delivery Systems: A Review	M.Sunitha Reddy, ManasaTadi	World journal of Pharmaceuticals Research	2019		Centre for Pharmaceuti cal 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 Pharmaceuti cal sciences, IST, JNTUH	
A Review on ‘Synthesis of Silver Nanoparticles by Biological Approach’	M.Sunitha Reddy, Keerthi	International Journal of Pharmaceutical Sciences Review	2020		Centre for Pharmaceuti cal sciences,	

	Reddy Sunkari	and Research			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 Delivery Systems	Sunitha Reddy M.* Pallavi Dongre	European Journal of Biomedical and Pharmaceutical Sciences	2020		Centre for Pharmaceutical sciences, IST, 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 Spatial Information and Technology (CSIT)						
NIL						
Centre for Water Resources (CWR)						
Sl.No.	Name of the faculty	Designation	Citations	h-index	I10-index	
1	Dr.B.Venkateswara Rao	Prof, CWR, IST, JNTUH	179	7	5	

2	Dr.K.Rama mohan Reddy	Prof, CWR, IST, JNTUH	38	3	1	
3	Dr.C.Saral a	Prof, CWR, IST, JNTUH	75	3	2	
4	Dr.MVSS. Giridhar	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 publicatio n	Citatio n 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.Venk ateswara 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.Venk ateswara Rao	Journal of Earth System Sciences	2019		CWR, IST, JNTUH	
Role of Kaolinisation in the Khondalitic Aquifers of Eastern Ghats of (India)	Dr.B.Venk ateswara Rao	Advances in Sustainable and Environmental Hydrology, Hydrogeology, Hydrochemistry and Water Resources	2019		CWR, IST, JNTUH	
A facile synthesis of implantation of silver nanoparticles on oxygen- functionalized multi-walled carbon nanotubes: structural and antibacterial activity	Dr.K.Rama mohan Reddy	Springer Nature Applied Sciences	2020		CWR, IST, JNTUH	
Design of Water Treatment Plant for Bhainsa Town	Dr.C.Saral a	Journal of Emerging Technologies and Innovative Research	2019		CWR, IST, JNTUH	
Study of Spectral Reflectance Pattern of Red Soils under varying Moisture Conditions	Dr.M.V.S. S. Giridhar	International Journal for Research in Applied Science & Engineering	2019		CWR,IST,J NTUH	

		Technology				
Identifying Land use land cover changes using geo-spatial technologies and their influence on the Eco-system in west zone of Hyderabad	Dr.M.V.S. S. Giridhar	Journal of Emerging Technologies and Innovative Research	2019		CWR, IST, JNTUH	

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 publication	h-index	Number of citations excluding 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)	Agreedda 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,	International Journal of Pharmaceutical 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 Coordination 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 <i>Salacia Oblonga</i> Extract Against Drug Resistant Pathogen	Anjaneyulu Musini and Archana Giri	Brazilian Archives of Biology and Technology	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 alphasglucosidase 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 dual-membrane system;	Yerra Kanakaraju, Addepally Uma, Vani Gandham, Kiran Kumari Palety, S. Sridhar, A. V. Umakanth;	Bioprocess and Biosystems Engineering	2020	59		JNTUH
<u>Synthesis, Chemotherapeutic Screening and Docking Studies of NSAID Inserted Peptide-Triazole Hybrid Molecules.</u>	Suryapeta Srinivas, Papigani Neeraja, Kuntala Naveen, Venkanna Banothu, Pramod K Dubey, Khagga Mukkanti & Sarbani Pal.	Chemistry Select	2020	25	0	JNTUH
<u>In vitro biological evaluation of half-sandwich platinum-</u>	Latheweipor Shadap, Venkanna Banothu, Emma Pinder, Roger M	Journal of Coordination	2020	48	0	JNTUH

<u>group metal complexes containing benzothiazole moiety.</u>	Phillips, Werner Kaminsky & Mohan Rao Kollipara.	Chemistry				
<u>Assembly of benzothiazine and triazole in a single molecular entity: Synthesis of -oxicam derived novel molecules as potential antibacterial / anti-cancer agents.</u>	<u>P. Neeraja, S. Srinivas, Venkanna Banothu, B. Sridhar, K. Mukkanti, Pramod Kumar Dubey & Sarbani Pal.</u>	Mini-Reviews in Medicinal Chemistry	2020	85	1	JNTUH
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	121	1	JNTUH
Fluorenone Schiff base derivative complexes of ruthenium, rhodium and iridium exhibiting efficient antibacterial activity and DNA-binding affinity.	Mohan Rao Kollipara, Latewdeipor Shadap, Venkanna Banothu, Nipanshu Agarwal & Krishna Mohan Poluri.	Journal of Organometallic Chemistry	2020	121	0	JNTUH
<u>Design and synthesis of oxaprozin-1,3,4-oxadiazole hybrids as potential anticancer and antibacterial agents.</u>	Parsharamulu Rayam, Naveen Polkam, Naveen Kuntala, Venkanna Banothu, Hasitha Shilpa Anantaraju, Yogeewari Perumal, Sridhar Balasubramanian & Jaya Shree Anireddy.	Journal of Heterocyclic Chemistry	2020	57	0	JNTUH
<u>Enhanced</u>	Dayakar Thatikayala,	Journal of	2020	67	0	JNTUH

<u>photocatalytic and antibacterial activity of ZnO/Ag nanostructure synthesized by Tamarindus indica pulp extract.</u>	Venkanna Banothu, Jisoo Kim, Dong Su Shin, S Vijayalakshmi & Jinsub Park.	Materials Science: Materials in Electronics.				
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	121	0	JNTUH
Biogenic synthesis of silver nanoparticles mediated by Theobroma cacao extract: Enhanced antibacterial and photocatalytic activities.	Thatikayala, D., Jayarambabu, N., Banothu, V., Ballipalli, C. & Venkateswara Rao, K.	Journal of Materials Science: Materials in Electronics	2019	67	1	JNTUH
Synthesis of New Chiral (R)-BINOL Derivatives under Microwave Irradiation and Evaluation of Their Antibacterial and α -Glucosidase Inhibitory Activity.	Ashok Reddy Ankireddy, <u>Kalyani Paidikondala, Rambabu Gundla, Tuniki Balaraju, Ramakanth Pagadala & Venkanna Banothu.</u>	Chemistry Select	2019	25	0	JNTUH
Half sandwich platinum group metal complexes of thiourea derivative ligands with benzothiazole moiety possessing anti-bacterial activity and colorimetric sensing: Synthesis and	L Shadap, S Diamai, V Banothu, DPS Negi, U Adepally, W Kaminsky & MR Kollipara.	Journal of Organometallic Chemistry	2019	121	7	JNTUH

characterisation.						
Centre for Chemical Science & Technology (CCST)						
Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding 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 Environment (CEN)						
Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding 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		Phycoremediation of sewage contaminated lake water using mircoalgae bacteria co-culture
<i>Gimesiachilikensis</i> sp. nov., a haloalkalitolerantplanctomycetes 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		<i>Gimesiachilikensis</i> sp. nov., a haloalkalitolerantplanctomycetes isolated from

						Chilika lagoon and emended description of the genus <i>Gimesia</i>
<i>Roseimaritimasedimicola</i> 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. Microbiol. (in press)	2020 [IF=2.166]	0		<i>Roseimaritimasedimicola</i> sp. nov., a new member in Planctomycetaceae isolated from Chilika lagoon. Int J SystEvolMicrobiol. (Under revision)
<i>Paracoccus aeridae</i> sp. nov., an indole producing bacterium isolated from the rhizosphere of an orchid, <i>Aerides maculosa</i>	Anusha Rai; Smita N; Suresh G; Shabbir A; Deepshikha G; Sasikala Ch; Ramana Ch.V.	Int. J. Syst. Evol. Microbiol. (in press) (In press doi:10.1099/ijsem.0.003962)	2020 [IF=2.166]	0		<i>Paracoccus aeridae</i> sp. nov., an indole producing bacterium isolated from the rhizosphere of an orchid, <i>Aerides maculosa</i>
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/fmicb.2019.02480	2020 (IF=4.259)	4		Taxogenomics resolved the conflict of the genus <i>Rhodobacter</i> : A two and half

						decades pending thought to reclassify the genus <i>Rhodobacter</i>
<u>Rhodobactersediminicola sp. nov., isolated from a fresh water pond of Gujarat</u>	G Suresh, Dhanesh Kumar, A Krishnaiah, SasikalaCh	International Journal of Systematic and Evolutionary Microbiology 70(2):1294-1299 ISSN: 14665026,	2020 (IF:2.166)			<u>Rhodobactersediminicola sp. nov., isolated from a fresh water pond of Gujarat</u>
<u>Rhodomicrobium lacus sp. nov., an alkalitolerent bacterium isolated from Umiam lake, Shillong, India</u>	G Suresh, Dhanesh Kumar, JagadeeshwariUppada, SasikalaCh	International Journal of Systematic and Evolutionary Microbiology 70(1):662-667 ISSN: 14665026,	2020 (IF:2.166)			<u>Rhodomicrobium lacus sp. nov., an alkalitolerent bacterium isolated from Umiam lake, Shillong, India</u>
<i>Afifellaestuarii</i> , 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/ijsem.0.003756)	2019 [IF=2.166]	0		<i>Afifellaestuarii</i> , sp. nov., a novel phototrophic bacterium isolated from rhizosphere soil of a xerophytes

<u>Chryseobacteriumcandidae sp. nov., isolated from a yeast (Candida tropicalis)</u>	B Indu, G Kumar, N Smita, A Shabbir, SasikalaCh	Int. J. Syst. Evol. Microbiol. (In Press; doi:10.1099 /ijsem.0.003716)	2020 [IF=2.166]	0		<u>Chryseobacteriumcandidae sp. nov., isolated from a yeast (Candida tropicalis)</u>
Geospatial Technology for mapping and analysis of social and infrastructural facilities at village level: a case study of Chinnapendyala village	M.Abhilash, T.Vijayalakshmi	Modeling Earth Systems and Environment (accepted April 2020) ISSN: 2363-6211	2020 (IF:0.83)	0		Geospatial Technology for mapping and analysis of social and infrastructural facilities at village level: a case study of Chinnapendyala village
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.2019.03.002	2019	69		Hydrogen production by PEM water electrolysis - A Review
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/	2019	2		Emerging contaminant (Triclosan) identification and its treatment - A Review,

		s42452-019-0634-x				
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		Fluoride removal from Groundwater using cylindrical electrocoagulation reactor,
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		Biomass Production from Microalgae Chlorella grown in Sewage, Kitchen Wastewater using Industrial CO2 emissions: Comparative study.
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			Enhancement of Biohydrogen production from Distillery Spent Wash Effluent Using Electro-Coagulation Process,
Effect of biohythane production from distillery spent wash with addition of landfill leachate and	Vijaya Krishna Saranga, Kiran Kumar P, KavitaVerma, Bhagawan D, Himabindu.V , Lakshmi Narasu M,	Applied Biochemistry and Biotechnology, ISSN: 0273	2019 (IF:2.14)	1		Effect of biohythane production from distillery spent wash

sewage wastewater,		- 2289. https://doi.org/10.1007/s12010-019-03087-x .				with addition of landfill leachate and sewage wastewater ,
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.org/10.1007/s40899-019-00336-z	2019			Performance evaluation of different advanced processes for treating chloro pesticide intermediate industrial wastewater
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.2019.08.068	2019 (IF:5.439)	3		Boron-doped carbon nanoparticles supported palladium as an efficient hydrogen evolution electrode in PEM water electrolysis
<u>Assessment of Natural Radioactivity in Soils around the Proposed Uranium Mining Site of Lambapur– Peddagattu and Seripally, India</u>	T Raghavendra, K Vishwaprasad, G Kalyani, T Vijayalakshmi, V Himabindu, J Arunachalam, P Padmasavithri, Vinod Kumar, RM Tripathi	Journal of the Geological Society of India	2019	1		<u>Assessment of Natural Radioactivity in Soils around the Proposed Uranium Mining Site of Lambapur –</u>

						<u>Peddagattu and Seripally, India</u>
<u>Risk assessment due to intake of trace metals through the ingestion of groundwater around proposed uranium mining areas of Nalgonda district, Telangana, India</u>	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)			<u>Risk assessment due to intake of trace metals through the ingestion of groundwater around proposed uranium mining areas of Nalgonda district, Telangana, India</u>
<u>Pyrolysis of Garden Waste: Comparative Study of <i>Leucaenaleucocephala</i> (Subabul Leaves) and <i>Azadirachtaindica</i> (Neem Leaves) Wastes</u>	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)			<u>Pyrolysis of Garden Waste: Comparative Study of <i>Leucaenaleucocephala</i> (Subabul Leaves) and <i>Azadirachtaindica</i> (Neem Leaves) Wastes</u>
<u>Precursor-feeding and altered-growth conditions reveal novel blue pigment production by <i>Rubrivivaxbenzoatilyticus</i> JA2</u>	Lakshmi PrasunaMekala, Mujahid Mohammed, SasikalaChintalapati, VenkataRamanaChintalapati	Biotechnology letters 41:813–822	2019 (IF: 1.846)			<u>Precursor-feeding and altered-growth conditions reveal novel blue pigment production by <i>Rubrivivaxbenzoatilyticus</i> JA2</u>

						<u><i>vaxbenzoat ilyticus</i> JA 2</u>
<u>Phylogenetic diversity of sulfate-reducing bacteria of sediments of Chilika Lake, India, determined through analysis of the dissimilatory sulfite reductase (<i>dsr AB</i>) gene</u>	Sri SasiJyothsnaTadinada, Rahul Kamidi, Saikat Dutta, SasikalaChintalapati, VenkataRamanaChintalapati	3 Biotech, 9:134, https://doi.org/10.1007/s13205-019-1655-2	2019 (IF: 2.351)			<u>Phylogenetic diversity of sulfate-reducing bacteria of sediments of Chilika Lake, India, determined through analysis of the dissimilatory sulfite reductase (<i>dsr AB</i>) gene</u>
<u>Transcriptome analysis of hopanoid deficient mutant of <i>Rhodopseudomonas palustris</i> TIE-1</u>	Tushar D Lodha, B Indu, SasikalaCh	Microbiological research, 218, 108-117 https://doi.org/10.1016/j.micres.2018.10.009	2019 (3.701)			<u>Transcriptome analysis of hopanoid deficient mutant of <i>Rhodopseudomonas palustris</i> TIE-1</u>
<u>New insights into aniline toxicity: Aniline exposure triggers envelope stress and extracellular polymeric substance formation in <i>Rubrivivaxbenzoatilyticus</i> JA2.</u>	Chintalapati VR, Mohammed M, Mekala LP, Chintalapati S	Journal of Hazardous Materials 385:121571 Epub 2019 Nov 3. (In Press DOI : 10.1016/j.jhazmat.2019.121571)	2019 (IF:7.650)	1		<u>New insights into aniline toxicity: Aniline exposure triggers envelope stress and extracellular polymeric substance formation in <i>Rubrivivaxbenzoatilyticus</i></u>

						icus JA2.
<u>Emerging Concepts in Bacterial Taxonomy</u>	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: 10.1007/978-981-13-8315-1_1	2019			<u>Emerging Concepts in Bacterial Taxonomy</u>
<u>iTRAQ-based quantitative proteomics reveals insights into metabolic and molecular responses of glucose-grown cells of Rubrivivaxbenzoatilyticus JA2</u>	Deepshikha Gupta, Mujahid Mohammed, Lakshmi PrasunaMekala, SasikalaChintalapati, VenkataRamanaChintalapati	Journal of proteomics 194:49-59. doi: 10.1016/j.jprot.2018.12.027 DOI: 10.1016/j.jprot.2018.12.027	2019 (IF:3.53)			<u>iTRAQ-based quantitative proteomics reveals insights into metabolic and molecular responses of glucose-grown cells of Rubrivivax benzoatilyticus JA2</u>
<u>Pyomelanin production: Insights into the incomplete aerobic l-phenylalanine catabolism of a photosynthetic bacterium, Rubrivivaxbenzoatilyticus JA2</u>	VenkataRamanaChinthalapatia Lakshmi PrasunaMekalaa, MujahidMohammeda, SasikalaChinthalapati	International Journal of Biological Macromolecules 126:755-764. doi: 10.1016/j.ijbiomac.2018.12.142	2019 (IF:4.78)			<u>Pyomelanin production : Insights into the incomplete aerobic l-phenylalanine catabolism of a photosynthetic bacterium,</u>

Centre for Nano Science and Technology (CNST)

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self-citations	Institutional affiliation as mentioned in the publication
<u>Investigation of various Mg (x) Fe (1-x) 2O4 (x= 0.1, 0.5 and 0.9) nanostructures as a resistive and flexible LPG sensor</u>	SolletiGoutham, P Jeevankumar, N Jayarambabu, A Saineetha, Kishor Kumar Sadasivuni, SatishBykkam, Kalagadda Venkateswara Rao	Materials Science and Engineering: B	2020	-	-	a Centre for Nano Science and Technology, JNT University Hyderabad, Kukatpally 500085, Telangana, India b School of Physics, University of Hyderabad, Telangana, India c Center for Advanced Materials, Qatar University, P.O. Box 2713, Doha, Qatar
<u>Impact of Green Synthesized Metal Oxide Nanoparticles</u>	Pooja Rani, GurjotKaur, K Venkateswara Rao, Jagpreet Singh,	Journal of Inorganic and	2020	43	-	Department of Nanote

<u>on Seed Germination and Seedling Growth of <i>Vignaradiata</i> (Mung Bean) and <i>Cajanuscajan</i> (Red Gram)</u>	MohitRawat	Organometallic Polymers and Materials				chnology, Sri Guru Granth Sahib World University , Fatehgarh Sahib, Punjab 140406, India 2 Centre of Nanoscience and Technology, Institution of Science and Technology, Jawaharlal Nehru Technological University , Hyderabad 500085, India
<u>NiO nanoparticles-decorated conductive polyanilinenanosheets for amperometric glucose biosensor</u>	SaraswathiKailasa, B Geeta Rani, M SaiBhargava Reddy, N Jayarambabu, P Munindra, Shubham Sharma, K Venkateswara Rao	Materials Chemistry and Physics	2020	143		1Center for Nanoscience and Technology, Institute of Science and Technology, Jawaharlal Nehru Technological

						University , Hyderaba d, Telangana State, 500085, India. 2 School of Nanotech nology, Institute of Science and Technolo gy, Jawaharla l Nehru Technolo gical University , Kakinada, Andhra Pradesh State, 533003, India. 3CSIR- Central Leather Research Institute, Regional Centre for Extension and Developm ent, India.
<u>High sensitive polyanilinenanosheet s (PANINS)@ rGO as non-enzymatic glucose sensor</u>	SaraswathiKailasa, R Kiran Kumar Reddy, M SaiBhargava Reddy, B Geeta Rani, HussenMaseed, R Sathyavathi, K	Journal of Materials Science: Materials in Electronic	2020	67	-	Center for Nanos cience and Techn ology, Institute

	Venkateswara Rao	s				of Science and Technology, Jawaharlal Nehru Technological University, Telangana State, Hyderabad 500085, India 2 School of Engineering Sciences and Technology, University of Hyderabad, Gachibowli, Hyderabad 500046, India 3 Department of Physics, Koneru Lakshmaiah Education Foundation (KLEF), Hyderabad 500075, India
<u>Green synthesis of Cu nanoparticles using Curcuma longa extract and their application in</u>	N Jayarambabu, A Akshaykranth, T Venkatappa Rao, K Venkateswara Rao, R	Materials Letters	2020	135	-	1Department of Physics, National Institute

<u>antimicrobial activity</u>	Rakesh Kumar					of Technolo gy, Warangal- 506004, India 2Centre for Nano Science and Technolo gy,IST, JNTU- Hyderaba d, Kukatpall y-500085, India
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<p>Utilization of rapid prototyping technology for the fabrication of an orthopedic shoe inserts for foot pain relieve using thermo-softening viscoelastic polymers: A novel experimental approach</p>	<p>Shubham Sharma, Jujhar Singh, Harish Kumar, Abhinav Sharma, Vivek Aggarwal, Amoljit Singh Gill, N Jayarambabu, Saraswathi Kailasa, K Venkateswara Rao</p>	<p>Measurement and Control</p>	<p>2020</p>	<p>20</p>	<p>-</p>	<p>1 Department of Mechanical Engineering and RCED, CSIR-Central Leather Research Institute, Jalandhar, India 2 Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Kapurthala, India 3 Department of Mechanical Engineering, National Institute of Technology Delhi, Delhi, India 4 Centre for Nano Science and Technolo</p>
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						gy, Institute of Science & Technolo gy (IST), Jawaharla l Nehru Technolo gical University Hyderaba d (JNTUH), Hyderaba d, India
<u>A high-performance low-temperature LPG detection by MgFe₂O₄/BiVO₄ chemiresistive sensor</u>	P Munindra, M SaiBhargava Reddy, B Geeta Rani, N Jayarambabu, SaraswathiKailasa, P SrinivasaSubba Rao, K Venkateswara Rao	Journal of Materials Science: Materials in Electronic s	2020	67	-	School of Nanote chnology, Jawaharla l Nehru Technolo gical University Kakinada, Kakinada 533003, India 2 Centre for Nano Science and Techn ology, Jawaharla l Nehru Technolo gical University Hyderaba d, Hyderaba d 500085, India 3 Departme nt

						of Physics , National Institute of Techno logy, Warangal 506004, India
<u>Study of band gap engineering in graphene based electrode materials by density functional calculations: A search for high performance graphene based devices</u>	K Vagdevi, B Jyothirmai, V Radhika Devi, K Venkateswara Rao	AIP Conference Proceedings	2019	64	-	Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad, 500043, India MLRIT, Hyderabad, 500043, India CNSIT, Hyderabad, India
<u>Twisted Polyaniline Nanobelts @ rGO for Room Temperature NO₂ Sensing</u>	Saraswathi Kailasa, M Sai Bhargava Reddy, B Geeta Rani, Hussien Maseed, K Venkateswara Rao	Materials Letters	2019	135		a Center for Nanoscience and Technology, Institute of Science and Technology, Jawaharlal Nehru Technological

						University Hyderaba d, Telangana State 500085, India b School of Engineeri ng Sciences and Technolo gy, University of Hyderaba d, Gachibow li, Hyderaba d 500046, India
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: Proceedings	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., Rotarypur am Village, B K Samudra mMandal, Anantapur 515701, India c

						Centre for Nanoscience 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, Venkataramana Gedela, Rajender Boddula	Materials Science for Energy Technologies	2019	-	-	a Centre for Nanoscience and Technology, IST, JNTUH, India b Nanospa n India Private Limited, Gachibowli, Hyderabad, India c CAS Key Laboratory of Nanosystem and Hierarchical Fabrication, National Center for Nanoscience 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: Proceedings	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., Rotarypuram Village, B K SamudramMandal, Anantapur 515701, India c Centre for Nanoscience 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	-	-	1 Center for Nano Science and Technology, Institute of Science and

						<p>Technology, Jawaharlanehru Technological University , Hyderabad, India. 2</p> <p>Graduate School of Natural Sciences and Technology, Okayama University , Okayama, Japan. 3</p> <p>Nanospan India Pvt. Ltd., Hyderabad, India.</p>
<p><u>Comparative gas sensing analysis of green and chemically reduced graphene oxide</u></p>	<p>Venkateswara Rao Kalagadda4 B Geeta Rani, M SaiBhargava Reddy, KailasaSaraswathi, HassenMaseed, K Bikshalu</p>	<p>Materials Research Express</p>	<p>2019</p>	<p>27</p>	<p>-</p>	<p>aCenter for Nanoscience and Technology, Institute of Science and Technology, JNTU Hyderabad, India. b School of Engineering</p>

						Sciences and Technology, University of Hyderabad, Gachibowli, Hyderabad 500046, India. Department of ECE, University College of Engineering, KU, Telangana, India
<u>Biogenic synthesis of silver nanoparticles mediated by Theobroma cacao extract: enhanced antibacterial and photocatalytic activities</u>	DayakarThatikayala, N Jayarambabu, VenkannaBanothu, Chandra BabuBallipalli, Jinsub Park, K Venkateswara Rao	Journal of Materials Science: Materials in Electronics	2019	67	-	Department of Electronics and Computer Engineering, College of Engineering, Hanyang University, Wangsimniro 222, Seoul 04763, Korea 2 Centre for Nano Science and Technology,

						<p>Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad, Kukatpally, Hyderabad, Telangana 500085, India 3</p> <p>Centre for Biotechnology, Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad, Kukatpally, Hyderabad, Telangana 500085, India 4</p> <p>Shenzhen Key Laboratory of Advanced Materials,</p>
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						School of Material Science and Engineering, Harbin Institute of Technology, Shenzhen 518055, China
<u>MgO@CeO₂ chemiresistive flexible sensor for room temperature LPG detection</u>	M SaiBhargava Reddy, Saraswathi Kailasa, B Geeta Rani, N Jayarambabu, K Bikshalu, P Munindra, K Venkateswara Rao	Journal of Materials Science: Materials in Electronics	2019	67	-	Center for Nano Science & Technology, Institute of Science & Technology, Jawaharlal Nehru Technological University Hyderabad, Hyderabad, Telangana 500085, India 2 Department of Electronics & Communication Engineering, 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 Sakale, BhogillaSatyaSekhar, PS Rama Sreekanth, Kalagadda Venkateswara Rao, Maris Knite	Polymer-Plastics Technology and Materials	2019	-	-	a Center for Advanced Materials, Qatar University , Doha, Qatar; b Mechanical and Industrial Engineering Department, Qatar University , Doha, Qatar; c Department of Physics, B.S. AbdurRahman Crescent Institute of Science and Technology, Chennai TN, India; d Centre for Nano Science and Technology, JNT University Hyderabad,

						<p>Kukatpally, Hyderabad, Telangana State, India; e Department of Physics, The Assam Kaziranga University , Jorhat, India; f Institute of Technical Physics, Faculty of Materials Science and Applied Chemistry , Riga Technical University , Riga, LV, Latvia; g Faculty of Mechanical Engineering, Indian Institute of Information Technology Design and Manufacturing,</p>
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						Kurnool, Andhra Pradesh, India; h Department of Mechanical Engineering, VIT-AP University, Amaravati, Guntur, Andhra Pradesh, India
Template assisted electro-chemical synthesis and micro-structural 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: Proceedings	2019	27	-	a Centre for Nanoscience 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., Rotarypuram Village, B

						K Samudra mMandal, Anantapur 515701, India
Synthesis of multiferroic BiFeO ₃ microcrystals for photocatalytic activity and stability performance	BeerelliRajitha, Kalagadda Venkateswara Rao, R Padma Suvarna	Materials Today: Proceedin gs	2019	27		aDepartm ent of Physics, Jawaharla l Nehru Technolo gical University Ananthap ur, Ananthap uramu 515002, India b Center for Nanoscien ce and Technolo gy, Institute of Science and Technolo gy, Jawaharla l Nehru Technolo gical University Hyderaba d, Telangana State 500085, India
Study of acoustic and thermodynamic factors of	M SaiBhargava Reddy, N Jayarambabu, R Kiran Kumar Reddy,	Materials Today: Proceedin	2019	27		Centre for Nano Science

synthesized ZnO-water nanofluid by ultrasonic technique	Saraswathi Kailasa, K Venkateswara Rao	gs			and Technology, Institute of Science and Technology, Jawaharlal Nehru Technological University, Hyderabad 500085, India
<u>Enhancing adsorption capacity of nano-adsorbents via surface modification: A review</u>	M Manyangadze, NHM Chikuruwo, TB Narsaiah, CS Chakra, M Radhakumari, G Danha	South African Journal of Chemical Engineering	2020	11	a Chemical and Process Systems Engineering Department, Harare Institute of Technology, Harare, Zimbabwe Industrial and Manufacturing Engineering Department, Harare Institute of Technology,

						Harare, Zimbabwe Department of Chemical Engineering, Jawaharlal Nehru Technological University Anantapur, India Centre for Nano Science and Technology, Institute of Science & Technology, Jawaharlal Nehru Technological University Anantapur, India Department of Chemical Engineering, B.V. Raju Institute of Technology, Narsapur, India Department
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						nt of Chemical, Materials & Metallurgi cal Engineeri ng, Botswana Internatio nal University of Science & Technolo gy, Private Bag 16, Palapye, Botswana
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 Technolo gy, IST, JNTUH, India bNanospa n India Private Limited, Gachibow li, Hyderaba d, India c CAS Key Laborator y of Nanosyste m and Hierarchic al

						Fabrication, National Center for Nanoscience and Technology, Beijing 100190, PR China
Root and Shoot Uptake of Synthesized Nano Zn and Its Impact on Differences in Bio-Availability During Exposure In Aqueous Suspension	ShylajaSingam, M. Anand Rao, Ch. Shilpa Chakra	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	-	-	Department of chemistry, VignanaBharathi 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 Sankaramanchi ¹ , V Kamakshi Prasad ² , Kumara Chandra Singarapu ² , Tejaswini Thallapalli ² , Sandeep Sagar ² , Shilpa Chakra Chidurala ³ , Upender Gaddam ⁴ , and Shrawan Kumar ⁵	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 Engineering, Hyderabad, India
Adsorption Studies And Fluoride Removal From Aqueous Solutions By Graphene Oxide - Zinc Oxide Nanocomposite	C. S. CHAKRA ^{a*} , V. S. SAI KUMAR ^b , S. MADHURI ^a , P. ANUSHA ^a , T. R. KUMAR ^a , D. RAKESH	Digest Journal of Nanomaterials and Biostructures	2019	40		^a Centre for Nano Science and Technology, Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad

						d, Hyderaba d 500085, Telangana , India bDepartm ent of Physics,G uru Nanak Institute of Technolo gy, Ibrahimpa tnam, 501506, Telangana , India
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Centre for Pharmaceutical Sciences (CPS)

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self-citations	Institutional affiliation as mentioned in the publication
In Vitro Assessment of Antioxidant Activity, Total Phenolic and Flavonoid Content for Various Extracts of <i>Caesalpinia pulcherrima</i> (L.)	Y. Anusha, A. Niranjan Kumar, J. Kotesk Kumar, KVNS. Srinivas, A. Srivani, G. Krishna Mohan	International Journal of Pharmacy and Biological Sciences	2019	14	702(i10=18)	Centre for Pharmaceutical sciences, IST, JNTUH
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			Centre for Pharmaceutical sciences, IST, JNTUH
Design and Synthesis of Indole Pyrimidine Scaffolds as Potential	Radhika Chelamalla, AjithaMakula	Current Enzyme Inhibition.	2019	9	397 (i10+9)	Centre for Pharmaceutical sciences, IST,

KSP Inhibitors and Anticancer Agents					JNTUH
NEUROPROTECTIVE EFFECT OF CITRULLUS LANATUS SEED EXTRACTS ON CEREBRAL ISCHEMIC REPERFUSION INJURY INDUCED COGNITIVE IMPAIRMENT AND OXIDATIVE STRESS	GIRIJA PASHIKANTI1, MAKULA AJITHA2, GOVERDHAN PUCHCHAKAYALA.	International Journal of Pharmacy and Pharmaceutical Sciences	2019		Centre for Pharmaceutical sciences, IST, JNTUH
STUDY TO FIND THE BEST EXTRACTION SOLVENT FOR USE WITH CUCUMBER PEEL (CUCUMIS SATIVUS) FOR HIGH NEUROPROTECTIVE ACTIVITY IN COGNITIVE IMPAIRED RATS	GirijaPashikanti 1, MakulaAjitha 2, GoverdhanPuchchakayala	Journal of Scientific Research in Pharmacy	2019		Centre for Pharmaceutical sciences, IST, JNTUH
NEUROPROTECTIVE EFFECT OF VARIOUS PHYTOCHEMICALS AND ITS POTENTIAL APPLICATION OF THREE MEDICINAL PLANTS IN NEURODEGENERATIVE DISEASES	GirijaPashikanti , MakulaAjitha , GoverdhanPuchchakayala	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 (BMD) and biomechanical properties of tibia bones of wistar rats	Ramandeep Kaur, MakulaAjitha	International Journal of Pharmacy and Pharmaceutical Sciences	2019			Centre for Pharmaceutical sciences, IST, JNTUH
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.ShobhaRani,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 susceptibility 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 Pharmaceutical 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 Pharmaceutical sciences, IST, JNTUH

A Review on Novel liposomes and its applications	M.Sunitha Reddy, Harika Ramineni	International journal of research and analytical reviews	2019	7	187(i10=7)	Centre for Pharmaceutical sciences, IST, JNTUH
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.ZiauddinK.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 UI Haq, M.Sunitha Reddy	International Journal of research and analytical reviews(IJ RAR)	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	2020			Centre for Pharmaceutical 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 Pharmaceuti cal 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 Pharmaceuti cal 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 Pharmaceuti cal 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 Pharmaceuti cal sciences, IST, 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 Pharmaceuti cal sciences, IST, JNTUH
Centre for Spatial Information and Technology (CSIT)						
NIL						
Centre for Water Resources (CWR)						
NIL						

3.4.7 Faculty participation in Seminars/Conferences and Symposia during the CAY:				
Centre for Biotechnology (CBT)				
No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops		20		
Presented papers		5		
Resource Persons				
Centre for Chemical Science & Technology (CCST)				
No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	04	11	02	05
Presented papers	03	02		
Resource Persons	01			
Centre for Environment (CEN)				
No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	1	4	5	4
Presented papers		2	2	4
Resource Persons			4	4
Centre for Nano Science and Technology (CNST)				
No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	02	03	02	02
Presented papers	02	02	02	02
Resource Persons	02	02	02	02
Centre for Pharmaceutical Sciences (CPS)				
No. of Faculty	International level	National level	State level	Local level
Attended Seminars/	1	4	12	16

Workshops				
Centre for Spatial Information and Technology (CSIT)				
No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	02	06	01	Seminar 01
Centre for Water Resources (CWR)				
No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	1	4		
Presented papers	5	21		
3.5 Consultancy				
3.5.1 Revenue generated from Consultancy during the CAY				
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	
Centre for Water Resources (CWR)				
Name of the Consultant(s) department	Name of Consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)	
Centre for Water Resources	Identification of water wells points using Resistivity imaging at RR district	Consulting	Rs.50,000/-	
Centre for Water	Identification of water well site at	Consulting	Rs.50,000/-	

Resources	Appareddypally, Rangareddy district using Resistivity Imaging survey		

3.5.2 Revenue generated from Corporate Training by the institution during the CAY

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 through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the CAY

Title of the Activities	Date of Activity	Organising unit/ agency/ collaborating agency	Number of teachers coordinated in such activities	Number of students participated in such activities	Brief Description
Health camp-2019		JNTUH-IST	09	100	
Social Responsibility	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, characterization and applications of Nanomaterials 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 Activity	Award/recognition	Awarding bodies	No. of Students benefited
NSS	Recognition	ISKON	1

3.6.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the CAY

Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated in such activities	Number of students participated in such activities
Health camp-2019	JNTUH-IST	Health camp	09	100
NSS	JNTUH-IST	Cancer awareness	09	60
NSS	JNTUH-IST	Swachh bharath	09	60
Equity Action Plan	CNST,IST, JNTUH	Equity Action Plan A Two-Day Workshop on “Sensitization of Socially Challenged Communities-Higher Education”7th & 8th August 2019 Under TEQIP-III	02	200
Social Responsibility	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	One day workshop on synthesis, characterization and applications of Nanomaterials on 01-02-2020	02	50

3.7 Collaborations

3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the CAY

Nature of Activity	Participant	Source of financial support	Duration
Centre for Chemical Science & Technology (CCST)			
Organic synthesis	Ps3 laboratories	From the group of pharma laboratories (Dr.Reddy's, Mylan)	3 years
Centre for Environment (CEN)			
Nature of Activity	Participant	Source of financial support	Duration

M/s. Jeedimetla effluent treatment plant working on their effluents	2	TEQIP-III	1 year
M/s. Ramkyenviroenginners joint R&D projects	2	TEQIP-III	1 year
M/s. Unique biopharma Ltd joint R&D project proposed	1	TEQIP-III	1 year
CII GBC, Hyderabad	2	CII GBC	1 year
M/s. Global information technologies	1		1 year
NIRD Govt of India Hyderabad	1	TEQIP-III	1 year
Dayalbagh research institute, Agra	1	TEQIP-III	1 year
GRIET, Hyderabad and VJIT, Hyderabad	1	JNTUH-TEQIP-III	1 year
Centre for Nano Science and Technology (CNST)			
Nature of Activity	Participant	Source of financial support	Duration
GIAN course on "Cancer Theranostics Organized by Centre for Nano Science & Technology, Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad & MHRD	30	MHRD	08-07-2019 to 12-07-2019,
One day workshop On Energy Storage (ES) Jointly Organized by Centre for Environment, & 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)	50	TEQIP-III	29-04-2019
M.Tech Nanotechnology	06	TEQIP-III	15-04-2019 to

Students had gone for one week hands on training and to carryout joint research project on Nanotechnology Based Rapid Prototyping at Dayalbagh Educational Institute (DEI) , Agra.			20-04-2019
A Two-Week AICTE and TEQIP-III Funded FDP on “Synthesis and Characterization of Nanomaterials”	100	AICTE-TEQIP-III	04-11-2019 to 16-11-2019
A One Week AICTE - TEQIP-III Funded STTP Programme on Synthesis,characterization and its applications of Nanomaterials(Upcoming)	100	AICTE-TEQIP-III	06-07-2020 to 12-06-2020(Tentative)
Three Day Hands on Training on "Analaytical Instrumentation (ZETA SIZER, UV, TG-DTA, FTIR, XRD, PARTICLE SIZE ANALYZER)"	190	TEQIP-III	03-10-2019 to 05-10-2019
Two Day workshop on "Women Occupational Health and Safety" from 22-11-2019.	300	TEQIP-III	22-11-2019 to 23-11-2019

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 linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participant
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
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	NDDDB HYDERABAD	1 YEAR	Kavya 18031D301
Institution	Projectwork	NDDDB HYDERABAD	1 YEAR	Jhansi 18031D303
Institution	Projectwork	NDDDB HYDERABAD	1 YEAR	Sandhya 18031D304
Institution	Projectwork	NDDDB HYDERABAD	1 YEAR	Poojita 18031D305
Centre for Chemical Sciences &Technology				
Project Work	Project Work	IICT	1year (Aug,2019- July2020)	01

Institution	Project work	NGRI	6 Months	18031 G 2201
Institution	Project work	Symed Research Centre	6 Months	18031 G 2206
Institution	Project work	Symed Research Centre	6 Months	18031 G 2208
Institution	Project work	Symed Research Centre	6 Months	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	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

Centre for Environment (CEN)

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participant
Research collabortio n	Project work	M/s. Mobiterra PVT ltd	One year	2
Research collabortio n	Project work	M/s.Tricad design consultant pvt ltd	One year	2
Research collabortio n	Project work	M/s. RSI Hyderabad	One year	2
Research collabortio n	Project work	CII GBC, hyderabad	One year	2
Research collabortio	Project work	M/s. Jeedimetla effluent treatment plant	One year	2

n				
Research collabortion	Project work	M/s. Ramkyenviroenginner	One year	2
Research collabortion	Project work	M/s. Unique biopharma Ltd	One year	1
Centre for Nano Science and 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 Pharmaceutical 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(09100948789) 3. CSIR-IICT (04027193234) 4. VRKR Ayurvedic Hospital, Erragadda (0402381 0236) 5. RA Chem Pharmaceuticals	22/07/2019 – 23/05/2020	16
Centre for Spatial Information and Technology (CSIT)				
Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participant
Project work	Internship	1.Geosys 2.kreetos	(29 th June 2020 to 29 th august 2020)	13
Centre for Water Resources (CWR)				
Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participant
Project	Aerated Wet Lands :	M/s. Blue drop Environ Ltd	6 months	V.Sujana 18031d5916

work	Sustainable Nature Based Solution For Present And Future Socio Environment And Climate Change			

3.7.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the CAY

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

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES		
4.1 Physical Facilities		
4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year		
Budget allocated for infrastructure augmentation		Budget utilized for infrastructure development
CBT	13.2 laksh	1.75 lakhs
CCST	NIL	NIL
CEN		
CNST	Rs.8,40,164/-(Equipments)	Rs.8,40,164/-(Equipments)
CPS		
CSIT		
CWR	Rs.52,92,000/-	Rs.56,05,000/-
4.1.2 Details of augmentation in infrastructure facilities during the year		
Centre for Biotechnology (CBT)		
Facilities	Existing	Newly added
Campus area		
Class rooms	04	00
Laboratories	11	01
Seminar Halls	01	00
Classrooms with LCD facilities	00	03
Classrooms with Wi-Fi/ LAN	04	00
Seminar halls with ICT facilities	03	01
Video Centre	03	01
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	13	00
Value of the equipment purchased during the year (Rs. in Lakhs)	69,99,357	00
Others	00	00
Centre for Chemical Science & Technology (CCST)		
Facilities	Existing	Newly added
Campus area		
Class rooms	04	Nil
Laboratories	05	01
Seminar Halls	01	Nil
Classrooms with LCD facilities	04	Nil
Classrooms with Wi-Fi/ LAN	NIL	Nil
Seminar halls with ICT facilities	01	-
Video Centre	-	-
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	-	06
Value of the equipment purchased during the year (Rs. in Lakhs)	-	Mass Spectrometer-36.0 Digital dual column Gas chromatograph -5 Lakhs Polarimetre – 4.03 Parallel synthesizer - 4.25 TOTAL -49.78 lakhs
Centre for Environment (CEN)		
Facilities	Existing	Newly added

Campus area	1122 sq.m	-
Class rooms	2	-
Laboratories	11	-
Seminar Halls	2	-
Classrooms with LCD facilities	02	-
Classrooms with Wi-Fi/ LAN	02	-
Seminar halls with ICT facilities	Nil	-
Video Centre	Nil	
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	5	36.72 lakhs
Value of the equipment purchased during the year (Rs. in Lakhs)	54 lakhs	54 lakhs
Centre for Nano Science and Technology (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	-
No. of important equipments purchased (\geq 1-0 lakh) during the current year.2019-20	10	-
Value of the equipment purchased during the year (Rs. in Lakhs) 2019-20	2823686/-	-
Centre for Pharmaceutical Sciences (CPS)		
Facilities	Existing	Newly added
Campus area		
Class rooms	168sq.mtrs	
Laboratories	475sq.mt	
Seminar Halls		
Classrooms with LCD facilities	168sqm	
Classrooms with Wi-Fi/ LAN		
Seminar halls with ICT facilities		
Video Centre		
No. of important equipments purchased (\geq 1-0 lakh) during the current year.		
Value of the equipment purchased during the year (Rs. in Lakhs)	1,92,000/-	Computers 06 Nos
Centre for Spatial Information and Technology (CSIT)		
Facilities	Existing	Newly added
Campus area		
Class rooms		
Laboratories	02	
Seminar Halls	02	

Classrooms with LCD facilities	02	
Classrooms with Wi-Fi/ LAN	02	
Seminar halls with ICT facilities	01	
Video Centre	01	
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	NIL	
Value of the equipment purchased during the year (Rs. in Lakhs)		05 Lakhs

Centre for Water Resources (CWR)

Facilities	Existing	Newly added
Campus area		
Class rooms	01	
Laboratories	03	
Seminar Halls	01	
Classrooms with LCD facilities	01	
Classrooms with Wi-Fi/ LAN	01	
Seminar halls with ICT facilities	01	
Video Centre	-	
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	03	
Value of the equipment purchased during the year (Rs. in Lakhs)	Rs.9,72,090/-	30 new computers

4.2 Library as a Learning Resource

4.2.1 Library is automated { Integrated Library Management System -ILMS }

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
NIL	NIL	NIL	NIL

4.2.1 Library Services:

Centre for Biotechnology (CBT)

	Existing		Newly added			Total
	No.	Value	No.	Value	No.	Value
Text Books	230	77520	0	0	0	77520
Reference Books	100	1,54,513	0	0	0	1,54,513
e-Books	20	Free	0	0	0	0
Journals	40	Free	0	0	0	0
e-Journals	20	Free	0	0	0	0
Digital Database	0	0	0	0	0	0
CD & Video	0	0	0	0	0	0
Library automation	0	0	0	0	0	0
Weeding (Hard & Soft)	0	0	0	0	0	0
Others (specify)	0	0	0	0	0	0

Centre for Chemical Science & Technology (CCST)

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	430	4.00 Lakhs	60	1.00 lakh	490	5 lakhs

Reference Books	25		20		45	
e-Books	-	-				-
Journals	2	-	-			-
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 & Soft)	Nil	Nil	Nil	Nil	Nil	Nil
Others (specify)	Nil	Nil	Nil	Nil	Nil	Nil

Centre for Environment (CEN)

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	545	12.0 lakhs	Nil		545	12.0 lakhs
Reference Books	55	1.65 lakhs			55	1.65 lakhs
e-Books						
Journals						
e-Journals						
Digital Database						
CD & Video						
Library automation						
Weeding (Hard & Soft)						
Others (specify)						

Centre for Nano Science and Technology (CNST)

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	13	20,000/-				
Reference Books	10	15,000/-				
e-Books	2500	-				
Journals	500	-				
e-Journals	3000	-				
Digital Database	-	-				
CD & Video	-	-				
Library automation	-	-				
Weeding (Hard & Soft)	-	-				
Others (specify)	-	-				

Centre for Pharmaceutical Sciences (CPS)

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	-	-	-	-	-	-
Reference Books	-	-	-	-	-	-
e-Books	-	-	-	-	-	-
Journals	-	-	-	-	-	-

e-Journals	-	-	-	-	-	-
Digital Database	-	-	-	-	-	-
CD & Video	-	-	-	-	-	-
Library automation	-	-	-	-	-	-
Weeding (Hard & Soft)	-	-	-	-	-	-
Others (specify)	-	-	-	-	-	-

Centre for Spatial Information and Technology (CSIT)

	Existing		Newly 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					

Centre for Water Resources (CWR)

	Existing		Newly 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)						

4.3 IT Infrastructure									
4.3.1 Technology Upgradation (overall)									
Centre for Biotechnology (CBT)									
	Total Computers	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
Centre for Chemical Science & Technology (CCST)									
	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available 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 Environment (CEN)									
	Total Computers	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							
Centre for Nano Science and Technology (CNST)									
	Total Computers	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 for Pharmaceutical Sciences (CPS)									
	Total Computers	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		
Centre for Spatial Information and Technology (CSIT)									
	Total Computers	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	02	01		

Centre for Water Resources (CWR)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MBPS/G BPS)	Others
Existing	55	02	01	01	01	01	01	100 MBPS	00
Added									
Total									

4.3.2 Bandwidth available of internet connection in the Institution (Leased line)

.....400..... MBPS /GBPS

4.3.3 Facility for e-content

Name of the e-content development facility		Provide the link of the videos and media centre and recording facility
CNST	Moodle Platform	kalagaddavrao.moodlecloud.com
CWR	NPTEL SWAYAM	

4.3.4 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e – content
NIL			
NIL			

4.4 Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned budget on academic facilities		Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
CNST	11,80,000/-	1144000/-	26,46,236/-	26,46,236/-
CPS	1,20,000	33000		

4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (*maximum 500 words*) (information to be available in institutional Website, provide link)

<http://jntuhist.ac.in/>

CRITERION V - STUDENT SUPPORT AND PROGRESSION			
5.1 Student Support			
5.1.1 Scholarships and Financial Support			
	Name /Title of the scheme	Number of students	Amount in Rupees
Centre for Biotechnology (CBT)			
Financial support from institution	Financial Assistance for Project work under R&D, TEQIP III	4	80,000
Centr For Chemical Sciences &Technology			
Financial support from institution	Financial Assistance for Project work under R&D, TEQIP III	01	20,000
Financial support from other sources			
Centre for Nano Science and Technology (CNST)			
a) National	GATE STIPEND	M.Tech(NT) 2018-20 batch (11 Students)	1,32,000/-
		M.Tech(NT) 2019-21 batch (11 Students)	1,32,000/-
b) International	Financial assistance for project work under R & D component of TEQIP III	M.Tech(NT) 2018-20 batch (10 Students)	2,00,000/-
Centre for Pharmaceutical Sciences (CPS)			
a) National	GPAT & Scholarships (BC, SC, Minority)	53	2,97,600/- (per student)
b) International			
Centre for Spatial Information and Technology (CSIT)			
a) National	GATE	12	1,44,00000
b) International			
5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,			
Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Centre for Chemical Science & Technology (CCST)			
SOFT SKILLS	2019	36	TEQIP
Remedial coaching	August 2019	36	TEQIP-III
Mentoring	August 2019	36	TEQIP-III
Centre for Environment (CEN)			
Communication soft skills	August 2019	32	TEQIP-III
GATE coaching	August 2019	32	TEQIP-III

Remedial coaching	August 2019	32	TEQIP-III		
Mentoring	August 2019	32	TEQIP-III		
Centre for Nano Science and Technology (CNST)					
Personal Counselling and Mentoring	03-09-2019	M.Tech(Nanotechnology) 2019-21 batch (12 Students)	TEQIP-III		
Personal Counselling and Mentoring	22-07-2019	M.Tech(Nanotechnology) 2018-20 batch (12 Students)	TEQIP-II		
Soft skill development (Psychometric Test)	14-03-2020	M.Tech(Nanotechnology) 2019-21 batch (12 Students) M.Tech(Nanotechnology) 2018-20 batch (12 Students)	CII JNTUH		
GATE Coaching	21-09-2019	M.Tech(Nanotechnology) 2018-20 batch (08 students)	TEQIP-III		
GATE Coaching	21-09-2019	M.Tech(Nanotechnology) 2019-20 batch (01 student)	TEQIP-III		
Art of living program	28-08-2019 to 31-08-2019	M.Tech(Nanotechnology) 2019-20 batch (12 students)	TEQIP-III		
Employability Assessment Test	29-08-2019	M.Tech(Nanotechnology) 2018-20 batch (12 students)	TEQIP-III		
Soft skill Training Programme	05-08-2019 to 07-08-2019	M.Tech(Nanotechnology) 2018-20 batch (12 students)	TEQIP-III		
Centre for Spatial Information and Technology (CSIT)					
Soft skills development	15-09-2019	13	TEQIP-III		
Centre for Water Resources (CWR)					
Remedial coaching,	30th December 2019 to 4 th January 2020	14	At Centre for Water Resources Dept only		
5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year					
Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
Centre for Environment (CEN)					

2019	Student orientation program	32	32		
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Centre for Nano Science and Technology (CNST)

2019-20	GATE Exam-2020 Coaching	09	09	04	02
2019-20	Soft skill development (Psychometric Test)	24	24	02	02
2019-20	Employability Assessment Test	12	12	06	02

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received		No. of grievances redressed		Average number of days for grievance redressal	
CBT	01	01	01	1 Week	
CPS	02	02	02	2days	

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
CCST					
Hetero Drugs	25	04	Burger Paints	02	01
GVK Laboratories	25	07	Spandana Laboratories	01	01

Centre for Environment (CEN)

NIL	NIL	NIL	India post, bhimavaram division Mailid.dobhimavram .ap@indiapost.gov. in	2	1
			AE, TSSPDCL,	5	1

			AEE, RWS &S Govt of Telangana	6	1
			AEE, RWS &S Govt of Telangana	5	1
			Environmental. Engineer, GHMC, Hyderabad	6	1
			Engineer, CII, GBC, Hyderabad	4	1
Centre for Nano Science and Technology (CNST)					
NIL	NIL	NIL	DST SERB CORE Project	01	01
			DST SEED Project	01	01
			Airport Authority of India	01	01
			Indian Railways	02	02
			ITI Limited PSU (A Govt of India undertaking)	01	01
			Advance systems Laboratory (DRDO)	01	01
			Panchayat and Rural Development Department Govt of Telangana	01	01
Centre for Pharmaceutical Sciences (CPS)					
Neuheit Pharma Technologies.Pvt.Ltd	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 Water Resources (CWR)					
NIL		NA		NA	4

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2019	4	M.Tech (WET)	Centre for Water resources, IST,JNTUH	IST,JNTUH	Ph.D in JNTUH
	2	M.Sc (WES)	Centre for Water resources, IST,JNTUH	IST,JNTUH	Ph.D in JNTUH

5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/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
		ME20S21406302
		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
	Vanaparthi Pranay	CE19S71404619
	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

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year			
Activity		Level	Participants
CEN	Science Quiz - 1st prize	National	2

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
2020	Science Quiz - 1st prize	National			19031D3115	SRIRAMOJ U MAHENDE R

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 conducive 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 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 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 the academic year 2019-2020.
- Faculty members are encouraged to participate in trainings, workshops and staff development

programmes.

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 and researchers 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**

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 31 st 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

		Genome Medicine” held at CBT-IST, JNTUH on 29 th and 30 th November 2019.		
2019	Dr. B. Venkanna	Two days Workshop 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. A. Uma	Two day Workshop on “Sustainable packaging- Eco efficient & Value Creation” held at CBT-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 & Bioengineering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. Archana Giri	Natational Conference on Biotechnology & Bioengineering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. L. Saida	Natational Conference on Biotechnology & Bioengineering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. CH. Kalyani	Natational Conference on Biotechnology & Bioengineering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. K. Venkateshwara Reddy	Natational Conference on Biotechnology & Bioengineering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. Suresh Babu	Natational Conference on Biotechnology & Bioengineering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. P. Ranjit	Natational Conference on Biotechnology & Bioengineering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. M. Anjaneyulu	Natational Conference on Biotechnology & Bioengineering Trendsat JNTUH held on 27 th to 29 th February 2020.	NA	TEQIP III
2020	Dr. B. Venkanna	Natational Conference on Biotechnology & Bioengineering 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 a Rao	3 rd World water Summit 2019, New Delhi	TEQIP-III	
2019	Dr.B.Venkateswar a Rao	<i>IGWC -2019, Roorkee</i>	TEQIP-III	
2019	Dr.B.Venkateswar a Rao	1st Indian Near Surface Geophysics Conference & Exhibition, New Delhi	TEQIP-III	
2019	Dr.MVSS.Giridhar	National Conference on Recent Advances in Science & Technology , during May 15-17, 2019 at Assam Science and Technology University, Guwahati	TEQIP-III	

6.3.2 Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2019	Technical Skill Development Programme	IST,JNTUH	9 th July 2019-13 th July ,2019	-	30

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
Genome editing by CRISPR-Cas9 system” at IISC, Bengaluru.	01 (Dr. A. Uma)	18 th – 22 th Nov 2019
Train the Trainers on examination reforms organized by KLE Technological University, Hubballi.	01 (Dr. L. Saida)	17 th – 20 th Feb 2020
Biophysical methods to study structure and functions of proteins and Nucleic acids organized by Centre for continuing education Indian Institute of Science Bengaluru.	01 (Dr. M. Anjaneyulu)	02 - 06 th Dec 2019
Orientation Programme	09	26.08.2019-30.08.2019
International Conference on Ecohealth and Environment Sustainability,	1	24th to 26th February 2020
NPTEL- Environmental Quality and Monitoring Analysis	1	Jan 2020 - March 2020
An overview on funding agencies for Indian research scholars	01	29-04-2019
Two day national workshop on NBA-Outcome based Education and SAR filling	02	24-05-2019 to 25-05-2019
Workshop on MOOCS Programme	01	06-07-2019
Nano Biotech Networking Event TERI At TERI Gram, Gwal Pahari, Gurugram, Haryana	01	07-02-2019 to 07-03-2019
One Week Faculty Development Program on “Nano	01	19- 08-2019 to

Science and Technology At Kurukshetra University, Kurukshetra, Haryana State		20-08-2019
Professional Development Training at IIM Trichy	01	23-9-2019 to 27-9-2019
Professional Development Training at IIM Visakhapatnam	01	09-12-2019 to 13-12-2019
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 Technological University, Hubballi, Karnataka	01	17-02-2020 to 19-02-2020
Workshop on web-based academic MISSPIU Maharashtra	01	08-04-2019
Two days training programme on TEQIP-III procurement management support systemBMS college of Engineering, Bengaluru	01	15-04-2019 to 16-04-2019
Refresher course on Drug discovery and formulation development clinical approach to health careUGC,HRDC,JNTUH	01	20-05-2019 to 01-06-2019
GIAN course on Medical prototyping using 3D printingNIT Warangal	01	15-07-2019 to 19-07-2019
AICTE sponsoredTwo week FDP program on Pharamaceutical Regulatory affairs and Intelluctual property rights, Centre for Pharmaceutical sciences,IST,JNTUH	01	01-08-2019 to 14-08-2019
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 Regulatory affairs and Intellectual Property rights"	30	1/08/2019 TO 14/08/2019
Latex training programme	01 (Sri B.Harish)	April 29 to May 04 2020
Research challenges and innovations in renewable energy systems	01(Sri B.Harish)	May 11to 16 2020 Time:09am to 12pm
ICT TOOLS	01(Sri B.Harish)	May 11to 16 2020 Time: 2PM TO 5PM
ARDUINO	01(Sri B.Harish)	May 12 to 17 th 2020(6pm to 7pm)
Webinar on digital image processing	01 (Sri B.Harish)	12-07-2020
ORIENTATION PROGRAMME	4 N O' S	26-08-2019 TO 31-08-2019 (CLASS WORK COMMENCE D FROM 03- 09-2019)

6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):				
Teaching		Non-teaching		
Permanent	Fulltime	Permanent	Fulltime/temporary	
Nil	01- Full time on contractual basis	Nil	Nil	
6.3.5 Welfare schemes for				
Teaching	FDP(Faculty Development Programme) TEQIP Training Programmes			
Non teaching	TEQIP Training Programmes			
Students	Conferences, Workshops, Seminars			
6.4 Financial Management and Resource Mobilization				
6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each) The Institution is a government institution. Financial audit is conducted by Accountants General (AG), Telangana, Government of Telangana state and the frequency of audit is once in a year.				
6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year (not covered in Criterion III)				
Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose		
NA	NA	NA		
6.4.2 Total corpus fund generated: NA				
6.5 Internal Quality Assurance System				
6.5.1 Whether Academic and Administrative Audit (AAA) has been done?				
Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	yes	AICTE	Yes	TEQIP- III(performance audit)
Administrative	yes	AICTE	yes	TEQIP- III(performance audit)
6.5.2 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)				
NIL				
6.5.3 Activities and support from the Parent – Teacher Association (at least three)				
1. Every year end of the semester parent teacher meet is organised. 2.Their feedback is taken to improve quality of education and other facility				
6.5.4 Development programmes for support staff (at least three)				

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 : (Yes)
- b. Participation in NIRF : (Yes)
- c. ISO Certification : (Yes)
- d. NBA or any other quality audit : (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 participants
	CNST			
2019	1st Meeting of the Internal Quality Assurance Committee (IQAC)	30-01-2020	11.00AM TO 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	
		Female	Male
CNST			
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 under university social responsibility	01-02-2020	12	12
7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:			
Percentage of power requirement of the University met by the renewable energy sources			
<ul style="list-style-type: none"> 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. 			
7.1.3 Differently abled (Divyangjan) friendliness			
Items Facilities	Yes/No	No. of Beneficiaries	
Physical facilities	Yes	All	
Provision for lift	Yes	All	
Ramp/ Rails	Yes	All	
Braille Software/facilities	No	-	
Rest Rooms	Yes	All women staff & students	
Scribes for examination	No	1 or 2 (if necessary)	
Special skill development for differently abled students	No	All	
Any other similar facility			
CWR			
Items Facilities	Yes/No	No. of Beneficiaries	
Physical facilities	Yes	NIL FROM CWR	
Provision for lift	Yes	All the students and staff of IST	
Ramp/ Rails	Yes	All the students and staff of IST	
Braille Software/facilities	Yes	NIL FROM CWR	
Rest Rooms	Yes	All the students and staff of IST	
Scribes for examination	Yes	YES IF SCRIBE IS REQUIRED THEN THEY CAN AVAIL THE FACILITY	
Special skill development for differently abled students	Yes	NA	
Any other similar facility	Yes	Value Added courses has been implemented in academic Year 2019-20	
		ZYM, HEALTH CENTRE AND ETC	
		English for research paper writing Disaster management	
		Sanskrit for technical knowledge Value education	
		Constitution of India Pedagogy studies	
		Stress management by Yoga	
		Research Methodology and IPR	

		Personality Development through life enlightenment skills
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7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the 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 the initiative	Issues 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 (from-----to-----)	Number of participants
TWO DAY WORKSHOP ON WOMEN OCCUPATIONAL 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:

- 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.
- 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:

- Academic Audit:
 - 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=dCwy8IKHpZY&feature=youtu.be>
- Submitted collaborative project proposal under RashtriyaUchcharShikshaAbhiyan (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 RashtriyaUchcharShikshaAbhiyan (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 Devasthanam, 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/>

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 Environmental management program. To give practical 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 the processing of raw imagery through to the creation of geospatial 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 work 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 need 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 machines simultaneously 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 Water Resources (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.

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.

Name _____

Name _____

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

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