

**Name:** DR. C. JYOTSNA  
**Designation:** Professor  
**Department:** Humanities and Sciences  
**Mail.I.D:** jyotsna\_c@vnrvjiet.in  
**Experience (in years): Teaching: 25yrs**



**Research & Industry:06**

## 1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D	2005	Environmental Science and Technology
2	M.Phil	1999	Chemistry
3	M.Sc	1992	Physical Chemistry
4	B.SC	1990	MPC

## 2. Teaching and Learning:

### 2.1 Teaching Interests:

Engineering Chemistry, Environmental Chemistry, Water and Soil Analysis, Instrumental Methods of Analysis, Physical Chemistry, Inorganic Chemistry, Education Technology, Happiness & Wellbeing.

### 2.2 Novel Teaching & Learning Techniques adopted:

- Concept maps
- Mind maps
- KWL charts
- Think-Pair-Share
- Peer Instruction
- Crosswords
- Theme sequencing
- Word Search
- Cheat Sheets
- Match the following
- Word Scramble
- POGIL
- Flipped classroom
- WIT & WIL
- Storyboard
- VNR Lab Protocol
- Each One Teach One

### 2.3 Involvement in curriculum updating / Design:

- BOS Chairman of Chemistry & Environmental Science
- Institute Academic committee member
- Department Academic committee member
- Coordinator for Happiness & Wellbeing
- Results Review Committee member

## 3. Co-curricular and Extra-Curricular Activities

### 3.1. Interests and Hobbies:

- Mentoring and counseling students

- Exploring new Teaching-Learning Methodologies
- Music
- Sports

**3.2. CCA/ECA Organized: ----**

**3.3. CCA/ECA participated: ----**

**3.4. Counseling and Mentoring Activity: --Happiness Station for Students**

**3.5. Committees involved in:**

Department level:

- Academic committee member

**Institute Level:**

- Institute Academic committee member
- Instructional Designer for Happiness & Wellbeing
- VNRVJIET-BOS Chairperson
- NARMY-Coordinator

## **4. Conference / Workshop / Seminar / Guest Lectures:**

### **4.1 Conducted Workshops**

- Conducted a two-day training program on Happiness & Wellbeing for faculty of VNR VJIET during March 28-29<sup>th</sup>, 2023.
- Conducted a two-day Webinar on “The Pivotal role of Chemistry/Chemical engineering in present scenario “during July 20-22<sup>nd</sup>, 2020.
- Conducted a review on effectiveness of workshop on Instructional Design & Delivery Systems, during February-March 2018 across all the departments of VNR VJIET.
- Conducted one day workshop on “New trends in Education Technology” and gave training on the topic “E & ET Mantra for 21<sup>st</sup> Century Gurus” on March 12<sup>th</sup>, 2016, at Vignana Jyothi Public School, Madhuranagar, Hyderabad.
- 3-day workshop on “Engineering the Education Scenario towards a Learner Centric Environment” from 4<sup>th</sup> to 6<sup>th</sup> August in 2014 at VNRVJIET.
- One day workshop on “INTRO TO POGIL” on June 28<sup>th</sup>, 2013, at Holy Cross College for Women, BHEL, Hyderabad.
- Organized about 10 POGIL sessions from March to June 2013 at VNRVJIET.  
Organized One day workshop on INTRO TO POGIL on April 17<sup>th</sup>, 2013, at VJIM.  
Organized One day workshop on INTRO TO POGIL on February 16<sup>th</sup>, 2013, at VNRVJIET.
- A one-day lecture on “Nano Technology – The Present and Future aspects” on 5<sup>th</sup> April 2010.
- A Two-day Workshop on “Faculty Orientation in Engineering Chemistry” during 24<sup>th</sup> – 25<sup>th</sup> September, 2010, at VNR Vignana Jyothi Institute of Engineering and Technology.
- A Two-day Workshop on “Polymer Waste Management” during 18<sup>th</sup> -19<sup>th</sup> December 2009 in collaboration with JNT University.
- Two-day short-term intensive course on “Environmental studies” for the faculty of engineering colleges, during 7<sup>th</sup> - 8<sup>th</sup> December 2007, at VNR Vignana Jyothi Institute of Engineering and Technology.
- Five-day training program on “Environmental Education and Awareness” (EEA) for schoolteachers, under community services for organized sector, sponsored by technical education quality improvement programme (TEQIP), during 16<sup>th</sup> - 20<sup>th</sup> October 2006 at JNT University.

- One day Seminar on The Tsunami Disaster on 25<sup>th</sup> January 2005 at JNT University.

#### **4.2 Attended:**

- Webinar on NEP-2020 Implementation Plan: Equity and Inclusion, organized by University Grants Commission, Human Resource Development Centre (HRDC), JNTU, Hyderabad held on 13<sup>th</sup> July 2022.
- Webinar on NEP-2020 Implementation Plan: Academic Integrity in the context of NEP-2020, organized by University Grants Commission, Human Resource Development Centre (HRDC), JNTU, Hyderabad held on 30<sup>th</sup> June 2022.
- Webinar on NEP-2020 Implementation Plan: Multidisciplinary & Holistic Education, organized by University Grants Commission, Human Resource Development Centre (HRDC), JNTU, Hyderabad held on 18<sup>th</sup> June 2022.
- 9<sup>th</sup> International conference on Transformations in Engineering Education (ICTIEE-2022), organized by Indo Universal Collaboration for Engineering Education (IUCEE), during 7<sup>th</sup>-9<sup>th</sup> January 2022.
- AICTE-UKIERI - 3 Day Online Workshop-2 on “Leadership and Management” Training @ University of Hyderabad, Gachibowli, Hyderabad, from 21<sup>st</sup> to 23<sup>rd</sup> March 2022.
- AICTE-UKIERI - 4 Day Online Workshop-2 on “Leadership and Management” Training @ University of Hyderabad, Gachibowli, Hyderabad, from 18<sup>th</sup> to 21<sup>st</sup> January 2022.
- AICTE-UKIERI - 4 Day Offline Workshop-1 on “Leadership and Management” Training from @ University of Hyderabad, Gachibowli, Hyderabad, 23<sup>rd</sup> to 26<sup>th</sup> November 2021.
- Online one-week Short Term Course on "Soft Skills and Professional Ethics" conducted by UGC- Human Resource Development Centre, JNTUH during 25<sup>th</sup>-30<sup>th</sup> October 2021.
- International Web Conference on “Emerging Fields in Chemistry: Advances & Applications” organized by the Department of Chemistry, Government Kamala Devi Rathi Girls Postgraduate College, Rajnandgaon during 10-11<sup>th</sup> August 2021.
- National Webinar on “Recent Advances in Chemistry” organized by the Department of Chemistry & IQAC, Government G.N.A.PG College, Bhatapara on 26<sup>th</sup> July 2021.
- 3-day Online International Conference on “Conventional and Digital methods in Chemical Education”, organized by the Department of Chemistry, National Institute of Technology, Warangal during 29<sup>th</sup>-31<sup>st</sup> July 2021.
- 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 31<sup>st</sup> May 2021 to 4 June 2021.
- AMPLE (Amrita Multiplatform for Personalized Learning & Evaluation)-Live Learn Workshop, organized by Amrita Vishwa Vidyapeetham on January 20<sup>th</sup>, 2021.
- 4-Day FDP on “Effective Utilization of Digital Platforms for Content Development and Delivery” on 13<sup>th</sup>-15<sup>th</sup> and 20<sup>th</sup> July 2020, Organized by VNR VJIET in collaboration with ET Mantra eLearning Solution Pvt. Ltd.

- The Bodhi Tree and SAFE Tools for “Effective Online Teaching: A Hands-On Workshop on 20<sup>th</sup> June 2020 organized by IIT Bombay.
- Attended an online conference on “Ahmedabad Learning Dialogues-A Teaching Learning Conference” organized by Ahmedabad University, on 14-15<sup>th</sup> May 2021.
- Attended a Webinar & Panel Discussion on “NEP 2020: A Paradigm Shift in Content and Intent”-A Look into Higher Education, Organized by Centre for Education Technology, VNR VJIET on 21<sup>st</sup> November 2020.
- Attended a Webinar & Panel Discussion on “NEP 2020: A Paradigm Shift in Content and Intent”-A Look into Primary Education, Organized by Centre for Education Technology, VNR VJIET on 9<sup>th</sup> October 2020.
- Attended an online workshop on “Fabrication of Nanocomposites” organized by Department of Mechanical Engineering, VNR VJIET, Hyderabad, on 18<sup>th</sup> September 2020.
- Attended a Webinar on “Environmental Issues & Challenges” organized by Department of Civil Engineering and Department of Sciences & Humanities of Matrusri Engineering College, Saidabad, Hyderabad on 15<sup>th</sup> September 2020.
- Attended a National Webinar on “Role of Chemistry in Designing various Engineering & Technological Applications” organized by Department of Humanities & Sciences of AAR Mahaveer Engineering college, Bandlaguda, Hyderabad on 11<sup>th</sup> September 2020.
- Attended a National Webinar on “ICT Tools to teach Chemistry Online with Simulation Chemistry Labs organized by Department of Chemistry, Parvathaneni Rahmaya Siddhartha College of Arts & Science, Vijayawada, on 27<sup>th</sup> July 2020.
- Attended an Online Workshop on “Evidence Based Teaching Learning Strategies” organized by CREATES, IISEAR Bhopal under PMMMNTT Scheme of MHRD, on July 15<sup>th</sup>, 2020.
- Attended an Online workshop on “Effective Utilization of Digital Platform for Content Development & Delivery” by IIT Bombay & organized by VNR VJIET, Hyderabad on July 20<sup>th</sup>, 2020.
- Attended an FDP on “Academic Quality Assurance through Outcome Based Education”\_Electronics & ICT Academy, National Institute of Technology (NIT), Warangal & G.Narayanamma Institute of Technology & Science, Hyderabad, during July 8-18<sup>th</sup> July 2020.
- Attended a three-day workshop on “VNR Initiatives and Awareness on OBE” (Outcome Based Education), Organized by CSE Dept of VNR VJIET, Hyderabad. during July 7-9<sup>th</sup> 2020.
- Attended a three-day workshop on “Effective Online Teaching using ICT Tools”, Organized by CSE Dept of VNR VJIET, Hyderabad during July 2-4<sup>th</sup> 2020.
- Attended a Webinar on “Soft Skills Strategies at Workplace” organized by Department of Management Studies, PSNA College of Engineering & Technology, Dindigul on 12<sup>th</sup> June 2020.
- Attended an FDP on “Blended Learning” conducted by Telangana Academy for Skill and Knowledge (TASK), during 20<sup>th</sup> - 23<sup>rd</sup> May 2020.
- Attended a hands-on Workshop on “Effective and Efficient Online Teaching in The Age of Corona” organized by the Teaching Learning Centre (ICT) of IIT Bombay on 17<sup>th</sup> May, 2020.
- Attended a National Webinar entitled “Challenges & Opportunities before Indian Higher education due to Covid-19” organized by Guru Angad Dev Teaching Learning Centre SGTB Khalsa College, University of Delhi under the Pandit

Madan Mohan Malaviya National Mission on Teachers and Teaching of MHRD held on May 2<sup>nd</sup>, 2020.

- Attended a two-week Online Certification course on “Digital Transformation in Teaching Learning Process”, organized by National Project Implementation Unit (NPIU) and IIT Bombay, SWAYAM under TEQIP-3 during 16<sup>th</sup> – 30<sup>th</sup> March 2020.
- Attended a two-day workshop on “Know Your Student” (Adolescent Problems & Solutions) organized by University Health Center (Counseling Center), Jawaharlal Nehru Technological University on January 9-10<sup>th</sup> 2020.
- Attended a three-day Boot Camp on “Delivering Happiness” organized by Delivering Happiness and Happiitude at Hotel Radisson, Mumbai during December 12-14<sup>th</sup> 2020.
- Attended a two-day workshop on “Business Opportunities in Waste Management (BOWM)” organized by Department of Civil Engineering, VNR VJIET, Hyderabad, on October 3<sup>rd</sup> - 4<sup>th</sup> 2019.
- Attended a two-day workshop on “Evaluation Reforms in Higher Education” organized by University Grants Commission, Southeastern Regional Office, Hyderabad at University of Hyderabad, Gachibowli, on July 18<sup>th</sup>-19<sup>th</sup> 2019.
- Attended a two-day workshop on “Technical Writing” organized by H & S department at VNRVJIET on June 28<sup>th</sup> – 29<sup>th</sup> 2019.
- Attended a three-day workshop on “Outcome Based Teaching, Learning & Assessment Strategies”, by Prof. B.V.Appa Rao, National Institute of Technology, Warangal, organized by H & S department at VNRVJIET on June 25<sup>th</sup> – 27<sup>th</sup> 2019.
- Attended a guest lecture on “Nanomaterials for Energy Harvesting” by Dr. R.Rakesh Kumar, Department of Physics, NIT Warangal, on March 15<sup>th</sup> 2018.
- Attended a guest lecture on “Role of Materials in Mechanical Engineering” by K.Radha Krishna Sastry, Manager (Training & Development), Avionics Division, HAL, Hyderabad, organized by H & S department at VNRVJIET on February 27<sup>th</sup> 2018.
- Attended a FDP on “Instructional Design & Delivery Systems” organized by National Institute of Technical Teacher’s Training and Research, Chennai, during 11<sup>th</sup>-16<sup>th</sup> December 2017, at VNR VJIET, Hyderabad.
- Attended an Orientation workshop for top 253 participants of “Use of ICT in Education for Online and Blended Learning” conducted by IIT Bombay during 25<sup>th</sup> - 26<sup>th</sup> March and 2017.
- Attended a guest lecture conducted by Department of Humanities & Sciences on “Spoken Tutorials” by Shyma Iyer, National Co-ordinator IIT Bombay and “MOOCs” by Dr. GRK Murthy, Principal Scientist NARM on 27<sup>th</sup> March 2017.
- Attended a workshop conducted by Department of Humanities & Sciences on “Understanding, Creating and Sharing Open Education Resources” by Dr. Indira Koneru, Faculty member IBS, ICFAI group on 19<sup>th</sup> January 2017.
- Attended a one-day workshop conducted by Department of Mechanical Engineering on “Advanced Engineering Materials and Applications” by DRDO scientists on 31<sup>st</sup> January 2017.
- Attended a one-day workshop on IOT of things by R.R Rout, NIT Warangal, conducted by Department of ECE, under 7<sup>th</sup> IEEE International Advanced Computing Conference on 5<sup>th</sup> of January 2017.

- Attended a guest lecture conducted by Center for Nanoscience and Technology on “Paper based lithium based batteries” by Dr.Mangilal on 30<sup>th</sup> December 2016.
- Attended a seminar conducted by Department of Humanities & Sciences on “Understanding the Global Education Framework and Technology in Education- Indian Perspective” on 26<sup>th</sup> November 2016.
- Attended a seminar conducted by Center for Nanoscience and Technology on “Nanoscience & Technology for sustainable infrastructure” by Dr. Sessa.S. Srinivas from Florida Polytechnic University USA on 6<sup>th</sup> July 2016
- Attended a 2-day workshop on “Innovations in Waste, Water and Energy Technologies for Rural development “, Organized by BITS, Hyderabad during 13<sup>th</sup> - 14<sup>th</sup> July 2015.
- Attended a 2-day workshop on “3D printing” conducted by the department of Mechanical Engineering at VNRVJIET during 19<sup>th</sup> -20<sup>th</sup> March 2015.
- Attended “International Conference on Transformations in Engineering Education" at BMS Engineering College of Engineering-Bengaluru, during January 5<sup>th</sup>- 8<sup>th</sup> January 2015.
- Attended a pre-workshop on “Outcome based Education” as part of Pre-Conference activity of ICTEE 2015, organized by BMS College, Bengaluru of Engineering and Indo-US collaboration for Engineering Education on January 6<sup>th</sup>, 2015, organized by BMS college of Engineering, Bengaluru.
- Attended a pre-workshop on “Automation of Curriculum design and attainment for OBE” conducted by ‘Ion Idea Inc’ on January 5<sup>th</sup> Jan 2015 as part of Pre-Conference activity of ICTEE 2015, organized by BMS college of Engineering, Bengaluru, and Indo-US collaboration for Engineering Education.
- Attended a pre-workshop on “Learning Platform for Better Outcomes” conducted by ‘Ionidea Inc’ on January 5<sup>th</sup> Jan 2015 as part of Pre-Conference activities of ICTEE 2015, organized by BMS College of Engineering, Bengaluru, and Indo-US collaboration for Engineering Education.
- Attended International Conference on “Environment and Energy” and chaired the sessions for paper presentations held from 15<sup>th</sup> - 17<sup>th</sup> December 2014.
- Attended Microsoft women in Technology webinar session on ‘How technology has changed in the last 20 years by Ruhani Arora on 17<sup>th</sup> October 2014 at VNRVJIET.
- Attended a one-day workshop on “The Engaged Classroom Technology for Enhanced Active Learning” organized by Professor Arun Perira at ISB, Gachibowli, Hyderabad.
- Attended a one-day national workshop on “A step to NBA accreditation: On Program Education Objectives and Outcomes” on 19<sup>th</sup> June 2014 organized by CSE and CE departments at VRVJIET.
- Attended a two-day workshop on “Role of Chemistry in Advanced Engineering Materials” during 26<sup>th</sup>- 27<sup>th</sup> July 2013 at Vasavi College of Engineering, Hyderabad
- Attended a 3-week workshop on “Facilitator Training” for POGIL at U.S.A in January 2013.
- Attended a one-day workshop on “Advanced Materials and their applications- 2013”, Organized by H&S Dept VNRVJIET.
- Attended as an observer for COP-11 Biodiversity International Conference, during October 1-19<sup>th</sup> 2012.
- Attended a two-day workshop on “Pedagogy of Technical Writing” organized by Humanities and Sciences Department on 6<sup>th</sup>-7<sup>th</sup> September 2012.
- Attended a lecture on “Excellence in Engineering Education” by Dr P.Raghavendra Rao,Associate Professor, VNR VJIET, Hyderabad on September 28<sup>th</sup> 2012.

- Attended a lecture on “Teaching Based Learning Outcomes” by Dr P.G. Shastry on August 11<sup>th</sup>, 2012.
- Attended IEEE International conference on “Technology for Education” (T4E) held on 18-20<sup>th</sup> July 2012 at IIT Hyderabad.
- Attended a one day workshop on POGIL by Dr. Cliff and Technology for Education by Dr.Kinshuk on 23<sup>rd</sup> July 2012 at VNRVJIET.
- One day Workshop organized by National Green Corps Govt of AP on 10<sup>th</sup> March 2012 at the Institution of Engineers AP state center, Visveswaraya Bhavan Khairtabad, Hyderabad.
- Attended a guest lecture on “Material Science” organized by EEE department at VNRVJIET in 2011.
- Attended a guest lecture on “Laboratory Techniques” organized by Civil department at VNRVJIET in 2011.
- Attended a two-day programme on “Genetic Algorithms” at VNR Vignana Jyothi Institute of Engineering & Technology.
- A Two-day Workshop on “Polymer Waste Management” during 18<sup>th</sup> -19<sup>th</sup> December 2009 at JNT University.
- Three-day National Workshop on “Soft Skills Development Strategies- Corporate and Academic Perspectives” during 23<sup>rd</sup> -24<sup>th</sup> July 2009 at VNRVJIET, Hyderabad.
- Attended a two-day workshop on “Applications of Mathematical Techniques in Science & Engineering (AMTSE)” during 27<sup>th</sup>-28<sup>th</sup> April 2007, conducted by Department of Humanities and Sciences at VNR Vignana Jyothi Institute of Engineering & Technology.
- Attended a short-term course on “Teaching Methodology” conducted during 9<sup>th</sup>-11<sup>th</sup> May 2007 at VNR Vignana Jyothi Institute of Engineering & Technology.
- Attended Workshop on “Sensitization of DST Women Scientist Scheme” (WOS-A) during February 9<sup>th</sup> -10<sup>th</sup> 2007, at JNT University.
- Attended International Conference on “Hydrology and Watershed Management”, conducted by Centre for Water Resources, IST, JNT University during 5<sup>th</sup> – 8<sup>th</sup> December 2006.
- Attended a 3-day training program on “Best Industrial Practices in Environment, Health and Safety” at JNTU during 17<sup>th</sup> -19<sup>th</sup> April 2006.
- Attended training program on “Environmental Data Interpretation, Compilation, Analysis, Presentation and Reporting” – Indian Statistical Institute, during January 30<sup>th</sup> - February 3<sup>rd</sup>, 2006, at Delhi.
- Attended International Workshop on “Weather Modification and Cloud Seeding Technologies for Rainwater Enhancement” organized by JNT University and Rain Shadow Areas Development Department, Govt. of A.P. during 27<sup>th</sup> -28<sup>th</sup> January 2005.
- Two-week training program on “Geomatics Engineering (Remote sensing and GIS) in Environmental management, during 15<sup>th</sup> -27<sup>th</sup> March 2004 at JNT University.
- Completed one-month course related to MS-Office at NIIT, 2000 Hyderabad.

## **5. Academic Contribution and Research & Consultancy:**

### **5.1. Invited Lectures:**

- Resource person at IEEE Summer School on Nanotechnology-2022, A four-day training on Fabrication and Characterization of Nanomaterials” held during 16<sup>th</sup>-19<sup>th</sup> November 2022 at VNR VJIET, Hyderabad.

- Resource person at VNR VJIET for a training program on Happiness & Wellbeing during 28<sup>th</sup>-29<sup>th</sup> March 2023.
- Resource person at VNRVJIET for two-day Faculty Induction program on Orientation to WIT & WIL, organized by Centre for Education Technology, during 11<sup>th</sup>-13<sup>th</sup> January 2023.
- Resource person at IEEE WIE International Leadership Summit 2022 on “Work-Life Harmony” held during 26<sup>th</sup>-27<sup>th</sup> August 2022 at Marigold Hotel, Hyderabad.
- Delivered a lecture on “Instructional Design and Delivery Systems” for new faculty on 7<sup>th</sup> October 2021 at VNR VJIET.
- Speaker for a Webinar on "Revisiting our Teaching Philosophies in Online Environs" organized by IEEE Education Society Chapter, Hyderabad Section in collaboration with IEEE WIE-AG on 22<sup>nd</sup> May 2021.
- Plenary speaker at a State Level Seminar on “ICT for Enhanced Teaching & Learning” at Vignana Jyothi Institute of Arts & Sciences, West Marredpally, Hyderabad on 7<sup>th</sup> February 2020.
- Guest lecture on “Back to School-Working mindfully” at Vignana Jyothi Public School, Madhuranagar (Fore-noon session) Hyderabad on 10<sup>th</sup> June 2020.
- Guest lecture/workshop on “POGIL-A new dimension in higher education” at St. Joseph’s Degree & PG College (Fore-noon session), Hyderabad on 3<sup>rd</sup> August 2019.
- Workshop on “WIT & WIL” at Vignana Jyothi Public School, Madhuranagar (Afternoon session) Hyderabad on 3<sup>rd</sup> August 2019.
- Keynote speaker in a 2-day National Workshop on Quality Assurance & Sustainance: Need for Strategic Planning, on “Strategies for Reinforcing Learner Centric Approach in Higher Education” Organized by IQAC during 5<sup>th</sup>-6<sup>th</sup> January 2018 at Central University of Tamilnadu, Thiruvavur.
- Chaired a session at 3<sup>rd</sup> International Conference on Environmental Management with a focal theme on “Science, Policy & Deployment towards Sustainable Development Goals” during 27<sup>th</sup>-30<sup>th</sup> November 2017.
- Keynote Speaker on “Engaging Students in Transforming their own Education” in the Third International Conference on Transformation in Engineering Education, on 10<sup>th</sup> January 2016 held during January 8-12, 2016 at college of Engineering, PUNE.
- Conducted POGIL workshop and gave talk on Teaching and Learning techniques at Vignana Jyothi Institute of Arts and Sciences College on 30<sup>th</sup> JULY 2015.
- A lecture on “Strategies for Classroom Management” delivered in the Orientation programme for Engaging new faculty (OPEN) Humanities and Sciences Department on 29<sup>th</sup> May 2015 at B-block seminar hall.
- A lecture on “A New Dimension in the era of Education” on 21<sup>st</sup> May 2014 in the AICTE Faculty Development Program conducted by ECE department during 11<sup>th</sup> – 23<sup>rd</sup> May 2015 on “Trends in Wireless Communication Technology and Evolution of Simulation Tools”.
- A Lecture on the topic “Exploring Activity Based Learning in Chemistry of Fuels and Engineering materials” in the Faculty Development Program held on August 1<sup>st</sup> 2014 at JNTUH, Hyderabad.
- A Lecture on the topic “Classroom Communication” delivered in the workshop “English Language Proficiency and Personal Effectiveness” organized by Humanities and Sciences Department during 12<sup>th</sup> -17<sup>th</sup> May 2014.

## 5.2. Articles / Chapters published in Books:

1. A Textbook of Engineering Chemistry for Engineering Students of JNTUH, VGS Techno Series, VGS Book Links, 2009.
2. Laboratory Manual of Engineering Chemistry for Engineering Students of JNTUH, VGS Techno Series, VGS Book Links, 2009

### **5.3. Books published as single author or as editor:**

1. Laboratory manuals of Environmental Sciences for Dr.B.R.Ambedkar Open University
  - a) Water Analysis-I
  - b) Water Analysis-II
  - c) Wastewater Analysis and Air Analysis
  - d) Soil Analysis
2. Engineering Chemistry-I, Textbook for Engineering Students of JNTU, Kakinada, VGS Techno Series, VGS Book Links, 2010.
3. Laboratory Manual-I, of Engineering Chemistry for Engineering Students of JNTU, Kakinada, VGS Techno series, VGS Book Links, 2010.
4. Engineering Chemistry-II, Textbook for Engineering Students of JNTU, Kakinada, VGS Techno series, VGS Book Links, 2011.
5. Laboratory Manual-II, of Engineering Chemistry for Engineering Students of JNTU Kakinada, VGS Techno series, VGS Book Links, 2011.

### **5.4. Projects Guided:**

- a) UG: NIL
- b) PG:
  - a) No. of M.Sc, M.Tech & M.Phil Projects Guided--- 07
  1. Water and Soil Quality- A case study of Hyderabad city- G.S. Kusuma Latha 2007.
  2. Prioritization of watershed through use and morphometric analysis – a remote sensing approach- P. Suman Kumar 2006.
  3. Comparative Study of Electrocoagulation and Chemical Coagulation for Efficiency Improvement of Effluent Treatment Plant of Pharmaceutical Industry- Vijaya Bharathi 2006.
  4. A Study on Improving the Effluent Treatment Plant of Pharmaceutical Industry by the application of Electrocoagulation- Rochana Devi 2006.
  5. Drainage Morphology of Selected Watershed through Geo Informatics- a case study. Swapnika, February 2006.
  6. Effect of Tsunami Disaster on Ground Water Quality- a case study of Chirala and Vetapalem Mandals of Prakasam District, A.P. - Elander Reddy, 2005 December.
  7. Water and Soil Quality Modeling using GIS – a case study of Maripeda Mandal, Warangal, Dt. – Vamshi Krishna Reddy, 2005 December.

### **5.5. Research Interests:**

Education Technology, Chemistry, Environmental Chemistry: Water and Wastewater Treatment, Air pollution, Happiness & Wellbeing.

### **5.6. Ph.D students:**

- a) Enrolled: **04**
- b) Submitted: -
- c) Awarded: **04**

### **5.7. Papers published in reviewed Journals:**

<b>S.No</b>	<b>Title of the Paper</b>	<b>Journal Name Vol.No. PP</b>	<b>ISBN/ISSN No.</b>	<b>Impact Factor/ Citation Index</b>	<b>National/ International</b>
1	A comparative study of the efficiency of chemical coagulation and electrocoagulation methods in the treatment of pharmaceutical effluent.	Journal of Water Process Engineering,2020, (34)101153	ISSN:2214-7144	WS 3.465	International
2	Impact of Ash Pond on the Groundwater Quality in the vicinity of a Coal-Based Thermal Power Plant	Chemical Science Review and Letters 2019,8(31),125-131	ISSN:2278-6783	NAAS 5.21	International
3	Assessment of Water Quality of Himayatsagar lake in Hyderabad-A case study	Assessment of Water Quality of Himayatsagar lake in Hyderabad-A case study (IOSR-JESTFT) Volume 11, Issue 1 Ver. I (Jan 2017), PP 18-22	e-ISSN: 2319-2402	AQCJ 3.462	International
4	CuFe <sub>2</sub> O <sub>4</sub> nanoparticles mediated Synthesis of 1,4-Disubstituted 1,2,3-Triazoles	Asian Journal of Chemistry	ISSN: 0970-7077	Scopus 0.6	International
5	Decarboxylative aromatization of Beta-Carbolines by using metal free catalysis and an efficient synthesis of beta-carboline derivatives.	Asian Journal of Chemistry 2015 Vol 27(12) / pp 4701-4702	ISSN: 0970-7077	Scopus 0.6	International
6	Ambient air pollutant levels in the vicinity of Thermal power plant.	IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT), Volume 9, Issue 2, Feb 2015, pp 56-60	ISSN: 2319-2399.	AQCJ 3.462	International
7	Effective Removal of Fluoride from Ground Water Using Electro Coagulation	International Journal of Engineering research and Applications, Vol.4, Issue 2, Version 1,	ISSN :2248-9622	IJERA 5.851	International

		February 2014, pp-439-445			
8	Fluoride removal from Aqueous solution using Industrial grade Alum.	International Journal of Scientific Research, Vol 3(7),2014, pp139-141	ISSN: 2277-8179	SJIF 5.711	International
9	Conventional to Cutting Edge Technologies in Drinking Water Purification - A Review	International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, Issue 2, February 2014, pp-9375-9385.	ISSN: 2319-8753	SJIF 7.512	International
10	Impact of Air Pollution on Crops in the Vicinity of a Power Plant: A Case Study	International Journal of Engineering Research & Technology (IJERT), Vol. 2 Issue 12, December – 2013,pp-3641-3651	ISSN: 2278-0181.	Google Scholar Citations 7.87	International
11	A Mini Review on Minimization of Hazardous Compounds in the Pharmaceutical waste	Chemical Science Review Letters,2013,1(4), pp-224-227	ISSN:2278-6783	NAAS 5.21	International
12	The Study of an Eco-Friendly Electrochemical Technique for wastewater Treatment.	The International Journal of Environmental, Cultural, Economic and Social Sustainability, 2009, Volume 5, Issue2, pp.7-16	ISSN: 1832-2077.	Scopus 0.3	International
13	Design and Development of low cost, simple rapid and safe, modified field kits for the visual detection and determination of arsenic in drinking water samples.	International Journal of Environmental Research and Public Health, (2005), 2(2), pp. 322-327.	ISSN:1660-4601	Scopus 3.0	International
14	Synthesis of 3- [5-Morpholinomethyl piperidinomethyl /Pyrrudinomethyl-1,2,4-oxadiazol-3-yl]-4H-Chromones,	Journal of Indian Chemical Society, 2014. Vol.90,pp-1461-1466	ISSN:0019-4522	Scopus 0.5	National
	Facile Synthesis of 3,5				

15	di-benzylidene [2-morpholin/piperdine-4-yl-1-yl-acetyl] Piperidine-4-Ones] Piperidine -4-ones	Journal of Heterocyclic Letters, Vol. 4: (1), 2014, 125-131	ISSN: 2231 – 3087	SCI 1.628	National
16	Palladium mediated cyclization of 8-allyl-7-hydroxy-2-styrylchromones towards the synthesis of 7, 8-furano-2-styrylchromones	Journal of the Indian Chemical Society, 2012, Vol 89, pp-1283-1287.	ISSN:0019-4522	Scopus 0.5	National
17	Rapid assessment of technologies for arsenic removal from drinking water: a comparative study	Andhra Samachar, A bilingual bimonthly on industry and environment, 5, pp. 21-25.	---	---	National
18	Studies on the Development of Simple and Precise Spectrophotometric Method for the Estimation of Arsenic in Water Samples.	Environmental Geochemistry, 2004, Vol.7. pp. 65-68	---	2.56	National

**5.8. Papers presented at National / International Conferences:**

<b>S.No</b>	<b>Title of the Paper</b>	<b>Names of the Conference/ Seminars</b>	<b>National/ International</b>	<b>Period</b>
1	“POGIL – A New Dimension in Higher Education”	Third International Conference on Transformation in Engineering Education (ICTIEE-2016, Pune)	International	January 8-12 ,2016
2	Creating a Learner Centric Environment Through POGIL	T4E-6 <sup>th</sup> IEEE International Conference on Technology for Education	International	18-20 <sup>th</sup> December - 2014 at Amritha University. Kerala
3	Reviving Chemistry in Engineering Education through Technology.	T4E-5 <sup>th</sup> IEEE International Conference on Technology for Education	International	18- 20 <sup>th</sup> December 2013 at IIT Kharagpur.
4	Removal of Sulfide Interference in Arsenic Estimation using Fenton’s Reagent.	Conference on Environmental Management	International	2005 Jawaharlal Nehru Technological University, Hyderabad
5	Novel Approach for Assessment, Removal and Management of Arsenic Pollutants in Drinking Water-A case Study from Developing Country, India	14 <sup>th</sup> Stockholm Water Symposium	International	15 th September 2004 Sweden

**5.9. Sponsored research Projects:**

<b>S.No</b>	<b>Title</b>	<b>Agency</b>	<b>Period</b>	<b>Grant amount</b>	<b>Ongoing/ Completed</b>
1.	“Designing of Electrocoagulation method for Wastewater treatment”	Department of Science & Technology, Govt.of India.	2006-2010	Rs18,24000/-	Completed

**5.10 Consultancy Projects:**

<b>S.No</b>	<b>Title</b>	<b>Agency</b>	<b>Period</b>	<b>Sanctioned Amount</b>	<b>Ongoing / Completed</b>
	NIL				

## 6. Awards / Honors received:

- Adjunct Professor at CR Rao AIMSCS, University of Hyderabad to teach Engineering Chemistry for first year, first semester, B.Tech students during November 2022 to April 2023.
- Faculty Mentor for “Intro to Climate Change & Sustainability” under Indo Universal Collaboration for Engineering Education, during December 2022-February 2023.
- Participation certificate for “Climate Change Concepts for Engineers” under Indo Universal Collaboration for Engineering Education from September 2022 to January 2023.
- Reviewer for Tenth International Conference on Transformations in Engineering Education (ICTIEE 2023) held at Vidyavardhaka College of Engineering, Mysuru, Karnataka during January 5<sup>th</sup>-8<sup>th</sup> 2023.
- Reviewer for peer-reviewed Journal of Engineering Education Transformations, committed to the advancement of theory, research, and practice in the field of engineering education.
- Copyright of the work on “Post-Lockdown Restart Manual: Framework for Prevention and Mitigation of COVID-19”, dated 20.11.2020.
- One of the top performers in the FDP conducted by IIT Bombay on "Use of ICT in Education for Online and Blended Learning" and been awarded a cash prize of Rs.5000/-.
- Received Gold certificate for NPTEL Online Certification course on “Bio-Electrochemistry.”

## 7. Others:

- Completed a course on “A Life of Happiness & Fulfillment” by Indian School of Business, October 2020.
- Completed a course on “AI for Everyone” by deeplearning.ai, August 2020.
- Completed a course on “The Science of Well-Being” by Yale University, September 2020.
- Completed a course on “Nanotechnology & Nanosensors, Part-1” by Technion-Israel Institute of Technology, September 2020.
- Completed “Train the Trainer Course - Mindfulness in Action” designed by Berkeley Institute of Well Being, California and conducted by Happiitude India, during 04<sup>th</sup> - 26<sup>th</sup> May 2020.
- Completed a 4-week NPTEL Online Certification course organized by IIT Bombay on "Innovation by Design" during 24<sup>th</sup> February to 20<sup>th</sup> March 2020.
- Completed “Trainer & Coach Module on Science of Happiness” designed by Berkeley Institute of Well Being, California and conducted by Happiitude India, during 11<sup>th</sup> January- 8<sup>th</sup> February 2020.
- Completed an FDP on Mentoring the Mentors of Education 301x, during May 2018, at IIT Bombay.
- Completed a 4-weeks NPTEL Online Certification course on “Bio-Electrochemistry”, January-April 2018.
- Completed an 8-weeks NPTEL Online Certification course on “Waste to Energy Conversion” January-April 2018.
- Completed an 8-weeks NPTEL Online Certification course on “Processing of Polymers and Polymer Composites, July-September 2017.

- Mentor for AICTE approved FDP on “Foundation Program in ICT for Education” and “Pedagogy for Online and Blended Teaching-Learning Process” conducted by IIT Bombay during August-October 2017.
- Completed a two-month online course of study conducted by IIT BombayX on Educational Technology for Engineering Teachers 2016.
- Completed on-line courses on:
  - a) Implementation and Evaluation of Educational Technology (MITx), September 2016.
  - b) Classroom Strategies for Inquiry Based Learning (MITx), August 2016.
  - c) Publishing & Reviewing papers in Engineering Education during June 7<sup>th</sup> - July 26<sup>th</sup>, 2016, by Indo Universal Collaboration for Engineering Education.
- Chairman-Board of Studies for Chemistry. VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad.
- Board of Studies member - Environmental studies, Jawaharlal Nehru Technological University, Hyderabad, India.
- Board of Studies member for Chemistry and Environmental Science for Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad
- Board of Studies member for Chemistry and Environmental Science for Guru Nanak Institutions Technical Campus, Hyderabad.
- Subject expert for Chemistry in Hyderabad Institute of Technology and Management, Medchal and Institute of Aeronautical Engineering Dundigal, Hyderabad.
- Participated in “Illness to Wellness-Heart Wellness during COVID 19” on 4<sup>th</sup> September 2020 by ASSOCHAM India.
- Participated in “Illness to Wellness-Work Life Balance & Stress Management” on 27<sup>th</sup> September 2020 by ASSOCHAM India.

**8. Motto: *TO TEACH IS TO TOUCH LIFE FOREVER.***