

3

**Brief CV of Prof. I. Ajit Kumar Reddy**



Prof. I. Ajit Kumar Reddy has served as a faculty member in the Department of Chemistry, NIT Warangal for 36 years till his retirement in June 2017. He was the founding Coordinator of the Teaching Learning Centre of NIT Warangal which is established in 2015 and also served this Centre for two years in the capacity of Research Fellow (Emeritus) till August 2019.

He has done his graduation and post-graduation in science from Osmania University and obtained his Ph.D degree from the prestigious IIT Kanpur in the year 1980. He has also done PGDHRM (Post- Graduate Diploma in Human Resource Management) from IGNOU. He holds a Master Diploma in Training from Indian Association for Training and Development.

- During his long service at NIT Warangal, he has served in several academic and administrative positions and brought laurels to the positions and the institute. Prominent among these position are, Dean, Student affairs, Head, Department of Chemistry, Prof-in-charge, Centre for Educational Technology, Prof-in-charge of Centre for Continuing Education, Prof-in-charge of Training & Placement.
- His areas of research interest are Catalysis by Mesoporous and Nano-materials, Micelles and Educational Technology. He has guided 6 Ph.D scholars and about 40 M.Sc. projects. He has Published or Presented 76 research papers in National and International Journals and Conferences.
- He has carried out number of MHRD and AICTE sponsored research and development projects in the areas of Physical Chemistry and Educational Technology. He was also a part of the three member team that developed an online



course 'Chemistry -II', for engineering curriculum, a Pedagogy Project executed by IIT Kharagpur under NMEICT scheme of MHRD

- He has been the Coordinator for more than 50 sponsored Short Term Training Programs. He has conducted a GIAN Course, an MHRD scheme namely "Global Initiative of Academic Networks" during May 2016 on "Designing and Developing Flipped Classroom, eLearning Instruction for Engineering and Science Education".
- Prof. IAK Reddy has organized more than 10 National level seminars that include "Strategic Planning for Development of Technical Institutions" and Performance Appraisal and Development System for Engineering Teachers and 7<sup>th</sup> IEEE International Conference on Technology for Education in 2015.
- Prof. IAK Reddy has trained over 6000 faculty members of higher education through induction training and other continuing education programmes for young faculty. He has delivered invited lectures at various premier institutions which include Central University of Rajasthan, National Urdu University, Kakatiya University, Osmania University, GITAM University, NIT Andhra Pradesh, NIT Warangal on New pedagogical methods, Student engagement strategies, Learner centered instruction, Educational psychology, Instructional objectives, Evaluation methods, Presentation skills, Outcome based education, Technology enabled learning, Blended learning, Open educational resources, MOOCs, Chemical education, etc.
- Under his leadership, Teaching–Learning Centre is established at NIT Warangal in the year 2015 with a total outlay of Rs. 9.63 crores. This Centre has emerged as one of the leading providers of good quality Faculty Development Programmes, particularly in enhancing the pedagogical skills among faculty of higher education.
- Prof. IAK Reddy is a life-member of professional bodies like Indian Society for Training & Development, Association of Chemistry Teachers, Indian Society for Technical Education, Indian Council of Chemists and Catalysis Society of India. His contributions to scientific community have earned him the distinction of 'FELLOW' of Telangana Academy of Sciences. He has visited USA, Malaysia, Singapore, Thailand and Hong Kong on professional assignments.
- His current passions include training of teachers of higher education in developing effective teaching skills and developing soft skills and learning skills in students.
- In recognition of his outstanding contributions to the society and to the fraternity of NIT Warangal, he was honored with "Best Science Faculty" for the year 2016 by NIT Warangal.



### **Prof. B.V.APPA RAO- CV IN BRIEF**

B. V. Apparao had done both Masters and Doctoral programmes at Banaras Hindu University in the years 1972 and 1977 respectively. He was a postdoctoral fellow at the Central Electrochemical Research Institute. He had the choice of joining as Scientist or Lecturer. Out of passion for teaching Prof B. V. Appa Rao chose teaching profession as his career. Prof. Appa Rao had 42 years of teaching and research experience. He taught several courses at B.Tech, M.Sc and M.Tech levels. He had consistently excellent feedback from the students in all the courses. His teaching has a very high impact on the learning outcomes of students towards excellence.

Prof. Appa Rao had produced 20 Ph.Ds under his guidance. His Areas of Research include Electrochemistry, Corrosion Science, Nano films for corrosion protection, Lithium ion batteries. He had 125 research publications to his credit. He has been associated with 9 major research projects, which included a **pedagogy research project sponsored by IIT, Kharagpur under NMEICT**. He had won many best paper awards in the field of 'Corrosion Science', and 'Corrosion Awareness Award' by NACE International -India Section in the year 2003. He has been a Life Fellow of the Society for Advancement of Electrochemical Science and Technology, Member of American Chemical Society, International Society of Electrochemistry, **American Society of Engineering Education** and Fellow of Telangana Academy of Sciences.

Prof. Appa Rao had administrative experience of about 20 years in different capacities viz; Dean, Research & Consultancy, Founding Professor-in-charge, Centre for Innovation and Incubation, IPR Cell and MOUs, Head, Department of Biotechnology, Founding Professor-in-charge, Central Instrumentation Facility, Head, Department of Chemistry at NIT Warangal

Prof. Appa Rao was a member of 22 Academic & Administrative Committees constituted by different Institutions across the country. He was associated with the organization of **60 workshops/conferences on various topics and many of them are related to the theme of pedagogy and outcome-based education**. Prof. Appa Rao has trained so far about 3000 faculty members from several colleges and universities across the country. He delivered lectures in FDPs held at IIT, Madras, University of Hyderabad, BHU, NIT Warangal, JNTU Hyderabad, GITAM Hyderabad etc., on the topics, Teaching-Learning Techniques in Outcome-Based Education, Student Centered Teaching and Learning, Active Learning Strategies, Bloom's taxonomy of learning, Outcomes-based Curriculum design, teaching and assessment. **In recognition of his innovative and outstanding contribution as teacher, NIT Warangal bestowed Best Teacher Award -2014 in the entire Institute on Prof. B. V. Appa Rao.**

Prof. B.V. Appa Rao superannuated as Professor of Chemistry from NIT Warangal in January 2016. Nevertheless, he is active as evidenced by **twelve research publications** in reputed journals after his retirement. He has been associated with the **Teaching-Learning Centre of NIT Warangal** till April 2019. Since September 2019, he has been associated with the **University of**

**Hyderabad** as Visiting Professor to provide guidance to the entire University on 'Outcome-based Education'.

**ESWARAMOORTHY K V****Assistant Professor**Dept. of Electronics and Communication Engineering, IITDM-Kurnool,  
Jaganathakattu, Kurnool - 518007

Ph: +91-9342295475

E-mail: eswaramoorthykv@iitk.ac.in

Web: <https://sites.google.com/view/dreswaramoorthykv>

---

**Expertise:** Electrochemical Biosensor, Biomedical Instrumentation, Internet of Things (IoT), Industrial Automation

---

---

**Education**

---

**Doctor of Philosophy (Ph.D. (Engg.))****Aug 2009-March 2016**

Instrumentation Engineering,

Indian Institute of Science, Bangalore, India.

- Thesis Title : Studies on Non-Invasive Monitoring of Blood Glucose, Urea and Potassium using Reverse Iontophoresis
- Research Area : Electrochemical biosensor, Non-invasive body fluid monitoring, Electrochemical techniques, Analog electronics
- Research Advisor : (Late) Prof. J. Nagaraju

**Master of Technology (M.Tech.) with a CGPA of 8.69/10****2007-2009**

Sensor System Technology,

Vellore Institute of Technology, Vellore, India

- Project Title : Corrosion Type Analysis using Electrochemical Noise
- Research Area : Electrochemical Noise Measurement, Instrumentation, Corrosion

**Bachelor of Engineering (B.E.) with 71%****2001-2005**

Electrical and Electronics Engineering

Bannari Amman Institute of Technology, affiliated to Anna University, Chennai, India

- Project Title : Cumulative Energy Logger

---

**Professional Experience**

---

Indian Institute of Information Technology (D&amp;M) Kurnool

**Assistant Professor****Feb 2018- Till Now****Subjects handled:**

Analog Circuits, Circuits for Electronic System Design, Science and Engineering of Materials, Power Electronics, Sensor and Instrumentation



**Sponsored Project (on going)**

S.No	Project Name	Funding Institute	Amount	Period
1	Development of 3D printed Wearable Button Antenna for Soldier Performance Monitoring Applications	IMPRINT-2	52 Lakhs	3 years(ongoing)
2	Testing and Evaluation of LoRA modules	Ensemble Tech Pvt Ltd	1.77 Lakhs	6 months (ongoing)

**Assistant Professor (On Contract)**

**Jun 2016- Feb 2018**

**Subjects handled:**

Analog Circuits, Circuits for Electronic System Design, Science and Engineering of Materials, Power Electronics, Sensor and Instrumentation

**Senior Research Fellow**

**Indian Institute of Science (IISc)**

**Oct 2014-Jun 2016**

**Project: Sensor and Instrumentation for the detection of volatile produce from food item**

Microbial contamination in food produces characteristic volatiles during their growth. Volatiles gases can be sensed by involving an array of sensors with different gas sensing materials. It generates electrical response patterns and chemical species are identified by differentiating these patterns using Impedance Spectroscopy. Impedance Spectroscopy is used in the present work to investigate the effect of interaction of different organic volatiles with the electrical properties, mainly impedance, capacitance and resistance of the sensor, designed with polypyrrole on gold inter-digital transducer (IDT) electrodes. Project involves optimization of deposition parameter of conducting polymer on IDT electrodes and development standalone portable microcontroller based impedance analyzer.

**Design Engineer: Ensemble Tech. Pvt. Ltd., Chennai**

**June 2005-June 2007**

**Projects under taken:**

**1. Automatic Speed Limiter for Commercial Vehicles**

The Government of Kerala made mandatory for certain commercial vehicles which should be fitted with automatic speed limiting device that prevent the driver from exceeding the maximum stipulated driving speed of the vehicle. In this project, an electromechanical system was developed that prevents the driver from driving beyond a certain speed. The device connects between the accelerator pedal and the actuator that controls the throttle control of the engine. Real time speed of the vehicle is measured using a Hall Effect sensor connected to the output of the transmission. A low cost 8 bit microcontroller is used as the primary controller which takes the input from the Hall Effect sensor and controls a geared DC motor to control the throttle based on the speed of the vehicle and the driver's accelerator



Welcome to all the participants of Online FDP on "Academic Quality Assurance through Outcome Based Education" organised by Electronics & ICT Academy, NIT, Warangal in association with G.Narayanamma Institute of Technology and Science, Hyderabad.

Today we have session on "Digital Initiatives of GoI" by Prof K Srinivas, Head of ICT & Project Management Unit, NIEPA, Delhi.

Mailid: ksrinivas@niepa.ac.in

- Prof. K. Srinivas Head of ICT (Information and Communication Technology) & Project Management Unit of National Institute of Educational Planning and Administration (NIEPA) a Government of India, Ministry of Human Resource Development (MHRD) Institution in New Delhi.
- Prof. K. Srinivas holds a PhD degree in **Computer Science** and has been utilizing Open Source ICT Tools and Technologies in Teaching, Learning and Student Evaluation since 1990, both at the Graduate and Post Graduate levels.
- Sir's Areas of Interest are e-Learning, blended learning, MOOCs, ICT enabled Pedagogy, Computer Applications in Project Management, E-Governance, Cloud Enterprise Resource Planning (ERP), Semantic Web and Information Retrieval Modelling.
- Sir is having more than 30 years of Teaching, Research, Industry and Consultancy experience.
- Sir is a member of the Core Committee of the Special Centre for E-Learning of Jawaharlal Nehru University
- Sir is a Senate member of the Indian Institute of Information Technology (IIIT), Sonapat.
- Sir is a member of the Academic Council, Lady Doak College, Madurai, Tamilnadu.
- Sir is a member of Academic Advisory Council (AAC) for NCERT SWAYAM MOOCs and UGC SWAYAM MOOCs.
- Sir is a member of Advisory Committee on School of Education (SoE), under the scheme of PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING (PMMMNTT) of MHRD, Gandhigram Rural Institute, Gandhigram.
- Sir is member (Technical Expert) of the Academic Advisory Council of National Resource Center [NRC] UGC-Human Resource Development Center, BPS Mahila Viswavidyalaya, Khanpur Kalan, Haryana.
- Sir is a member (Technical Expert) of the Academic Advisory Council of the National Resource Centre (French), UGC - Human Resource Development Centre (HRDC) of the Pondicherry University.
- Sir is a member (Technical Expert) of the Academic Advisory Council of the National Resource Centre (Mathematics), National Institute of Technology [NIT] Warangal.
- Sir is a member of the Academic Advisory Council of the National Resource Centre, UGC- Human Resource Centre (HRDC) of the Guru Jambheshwar University of Science & Technology Hisar.
- Sir is a member of the Academic Advisory Council of the National Resource Centre, UGC-HRDC of the Ranchi University.
- Sir is a member of the Academic Advisory Council of the National Resource Centre, Central University of South Bihar (CUSB), Gaya.
- Sir is a member (Technical Expert) of the Academic Advisory Council of the National Resource Centre (Home Science), Jammu University, J&K.

- Sir is a member of the School Board of School of Education [SOE], Indira Gandhi National Open University [ IGNOU ], New Delhi.
- Sir is a valuable resource person and delivers skill based technical sessions/lectures across the country for Faculty Development Programmes [FDP] , Faculty Induction Programmes [FIP], Refresher Courses and Orientation Programmes at UGC HRDCs in Jawaharlal Nehru University, Delhi University, Jamia Millia Islamia, University of Hyderabad, Maulana Azad Urdu University, Hyderabad, Benarus Hindu University, Varanasi, Rani Durgavati University Jabalpur, Mysore University, Kerala University, BPS Mahila University, Kurukshetra University, Kashmir University, Sikkim University, North Eastern Hill University ( NEHU) , Guru Jambeswar University, Guwahati University and other UGC HRDCs and Universities in India on e-Learning, MOOCs, e-governance and Computer Applications in Project Management .
- Sir also conducts teacher training workshops both at School Education and Higher Education across the country for teachers. He has written a number of articles on different aspects on university automation, e-governance, Training needs, etc.), which have been published in research journals. He has also participated in a few International Forums and presented papers on various aspects of e-governance, Blended Online Mode Teaching, MOOCs etc.