



**VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI
INSTITUTE OF ENGINEERING AND TECHNOLOGY**

An Autonomous, ISO 9001:2015 & QS I-Gauge Diamond Rated Institute, Accredited by NAAC with 'A++' Grade.
NBA Accreditation for B.Tech. CE, EEE, ME, ECE, CSE, EIE, IT, AME, M.Tech. STRE, PE, AMS, SWE
Programmes Approved by AICTE, New Delhi, Affiliated to JNTUH, NIRF (2023)
Rank band:101-150 in Engineering Category, College with Potential for Excellence by UGC,
JNTUH-Recognized Research Centers: CE, EEE, ME, ECE, CSE
Vignana Jyothi Nagar, Pragathi Nagar, Nizampet (S.O.), Hyderabad – 500 090, TS, India.
Telephone No: 040-2304 2758/59/60, Fax: 040-23042761
E-mail: postbox@vnrvjiet.ac.in, Website: www.vnrvjiet.ac.in



ONGOING FUNDED RESEARCH PROJECTS

S. No.	Project Title	Funding Agency	Amount
1.	Development of Autonomous tool for detecting bolt loosening using machine vision and deep learning	SERB-SURE	25.69
2.	Development of Low-cost Plug-in Microcar and Investigation on Potential of Solar Power Assistance and Optimization of Battery Pack	SERB-SURE	27.38
3.	Identification of actuator dynamics and development of electronic circuits for smart materials actuated insect-scale legged robots	DRDO -DYSLSM	9.74
4.	Investigating Self-Healing Capability and Performance of HMA Mixes Containing Steel Slag as Aggregates	SERB- Core Research Grant	24.00
5.	Development of ZrO ₂ Nanoparticles doped- Bi ₂ O ₃ -B ₂ O ₃ : Cr ₂ O ₃ glass-ceramic phosphors	UGC-DAE Consortium for Scientific Research	7.75
6.	Development of AI Based Efficient and Storage Independent PV Water Pump for agricultural applications.	AICTE RPS	11.90
7.	Design and Development of Night Vision Imaging LIDAR and Laser 3-D Imaging System for Homeland Security and Other Surveillance applications in Defence	DRDO ER& IPR	71.28
8.	Process Optimization of IPMCS for optimal functionality and in air operability.	DRDO -DYSLSM	7.19
9.	Development of Hierarchical structures for Solar Desalination	DST- WTI	40.73
10.	A Hybrid and flexible magneto electric trilayer structure for combined magnetic sensing and mechanical actuation applications	SERB-TARE	8.25
11.	Experimental Investigation on Role of Hybrid Tool Pin Profile on Microstructure and Mechanical Properties of Friction Stir Welded dissimilar AA6082- AA5083 Aluminium Alloy	AICTE- RPS	7.84
12.	Estimation and Tracking of Subsurface Groundwater Discharge (SGD) along coastal stretches of Andhra Pradesh and Tamil Nadu, based on understanding (and modelling) of the coastal aquifer hydrodynamic	ISRO- Respond	33.84
13.	Development of contact-free nanostructure for solar powered desalinators	MSME	12.50
14.	IOT and machine learning-based precise germination prediction to access the quality of grains for different crops	MSME	12.50
TOTAL (In Rs. Lakhs)			300.59