



# 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 CE, EEE, ME, ECE, CSE, EIE, IT B.Tech. Programmes  
Approved by AICTE, New Delhi, Affiliated to JNTUH, NIRF(2020) 127 Rank in engineering Category  
Recognized as "College with Potential for Excellence" by UGC  
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## Department of Humanities & Sciences

### List of R&D projects and Consultancy

VNRVJIET-H&S Department-Details of Ongoing R&D Projects					
Name of the faculty	Title	Agency	Amount (Rs)	Duration	Status
Dr. T. Rajini , Assistant Professor,Physics	Sophisticated Flexible Supercapacitor for High Energy Storage applications based on Nanomaterials	under DST-SEED (Young Scientists and Technologists)		03 Years	Ongoing (2020-2023)
Dr. C. Thirmal, Assistant Professor,Physics	A hybrid and flexible magnetoelectric trilayer structure for combined magnetic sensing and mechanical actuation applications	DST SERB (TARE)	18,30,000	3 Years	Ongoing (2020-2023)
Dr. C. Thirmal, Assistant Professor,Physics	Ferroelectric based Photovoltaics	VNRVJIET-SEED Grant	3,50,000	02 Year	Ongoing (2021-2023)
Dr. L. Srinivasa Rao, Assistant Professor,Physics	"Design and Development of Night Vision Imaging LIDAR and Laser 3-D Imaging System for Homeland Security and other Surveillance applications in Defence"	DRDO; Ref. No. ERIP/ER/202108001/M/01/1786, dated 31-08-2021.	5128600	3 Years	Ongoing (2021-24)
Dr. L. Srinivsa Rao, Assistant Professor,Physics	"Development of ZrO <sub>2</sub> Nanoparticles doped-Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> : Cr <sub>2</sub> O <sub>3</sub> glass-ceramic phosphors"	UGC-DAE-CRS	775080	3	Ongoing
		<b>Ongoing (worth in Rs:)</b>	<b>8083680</b>		

VNRVJIET-H&S Department-Details of completed R&D Projects					
Name of the faculty	Title	Agency	Amount (Rs)	Duration	Status
Dr. L. Srinivasa Rao, Assistant Professor, Physics	"Synthesis and Characterization of Metallic Glass Suitable for Magnetic Sensors and Luminescent Materials"	TEQP-III, JNTUH.	2,50,000	1-1/2 Year (2018-2021)	Completed
Dr. L. Srinivsa Rao, Assistant Professor, Physics	A Social impact project work on "Biodegradable plastics for sustainable use in daily life"	VNRVJIET, Seed grant	12,000	1 Year (2018-2019)	Completed
Dr. C. Thirmal, Assistant Professor, Physics	Design and fabrication of an air filter through polymer technology - A Societal Impact Project	VNRVJIET, Seed grant	22,337	2 Years (2018-2020)	Completed
Dr.Padmavathi Papolu, Assistant Professor, Chemistry	MUSHROOM CULTIVATION	Unnath Bharath Abhiyan (UBA)	100000	1 year (2019-2020)	completed
Dr. shuchi Twari, Assistant Professor, Chemistry	Synthesis, Characterization and Potential Applications of Nano-dithiocarbamate complexes	UGC-DAE collaborative Project Proposal Ref: CSR-IC-TIMR-10/CRS-277/2017-18/1283	1,35,000	3 YearsOngoing (2018-2021)	Completed
Dr.P.Aparna, Associate Professor, Mathematics	Development of Analytical Methods for rotary flows generated in spherical Geometry	UGC Ref: MRP 6736/16(SERO/UGC)	195000	2 years(2017-19)	Completed
A.R.Balavardhana Rao, Assistant Professor, Chemistry	Inorganic-Organic Hybrids based on Kegging-type Polyoxometalate Schiff Base Metal Complexes: Synthesis, Characterization and Proton Conducting Studies.	DST-SERB(TARE)	1830000	2019-2022 (3 years)	Completed
		<b>completed (worth in Rs:)</b>	<b>25,44,337</b>		

### VNRVJIET-H&S Department-Details of Ongoing Consultancy Projects

Name of the faculty	Title	Agency	Amount (Rs)	Duration	Status
Dr. C. Thirmal and Dr. G. Lakshmi Viveka	Process Optimization of IPMCs for optimal functionality and in-air operability	DRDO	7,19,800	2 Years	Ongoing (2021-2023)