



VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

Research

A. List of R&D Projects carried out by the Department and Research

S.No.	Title of the R&D Project or Research Grant	Sanctioning Agency, and Date of Sanction	Names of the Principal and Co-Investigators	Sanctioned Amount Rs. In lakhs	Status of the Project (Completed/ On-going)
R& D Projects Sanctioned					
1	Real time implementation advanced control algorithm(s) on Laboratory scale plant	TEQIP-III 2019	Dr.B. Rajasekhara Reddy.	2.85	Completed
2	RotiBOT	MSME, Govt. of India, 02/12/2015	Dr. S.Pranavanand	7.35	Ongoing
3	Implementation of Biomedical Image Processing on Embedded Hardware	UGC, Govt. of India, March 2014	Dr. R.Manjula Sri	3.00	Completed
4	Design and Implementation of Algorithm for Real- Time Patient Monitoring in Ambulance While Transit	UGC , Govt. of India, March 2014	Mr. Naregalkar Akshay Rangnath	4.45	Completed
5	Weapon Locking System-	ARDE	Dr. S.Pranavanand	9.9	Completed
6	Sensor Measurement Unit	X_Design Ventures Pvt.Ltd. & VNRVJIET Hyderabad.	Dr. R.Manjula Sri	6.29	Completed
7	Identification of Actuator Dynamics and development of Electronic Circuits for Smart Materials actuated insect scale legged Robots	DRDO(CARS)	Dr. B.Raja Sekhara reddy Dr. S.Pranavanand	9.735	Ongoing

B. Other Grants

S.No.	Title of the R&D Project or Research Grant	Sanctioning Agency, and	Names of the Principal and Co-Investigators	Sanctioned Amount Rs. In lakhs	Status of the Project (Completed/ On-going)
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		Date of Sanction			
1	Design and Structural Evolution of Advanced Functional Materials Suitable for Engineering Applications	AICTE-STTP, September 2020	Dr.C.Kiran	1.92	Completed
2	Applications of Laser Instrumentation (Seminar Grant)	AICTE 2017	Dr. R. Manjula Sri	1.00	Completed

C. Patents Filed/Published/Granted: 11

Social Impact Projects:

- ✓ Controlling A Human-Wheel Chair Interface System using Electrooculography
- ✓ The Roti Bot
- ✓ Patient Assistance & Lift monitoring (PALM)
- ✓ Solar Powered Auto Irrigation System
- ✓ Smart Trash Bin
- ✓ Arsenic Free Rice Cooker and Fertilizer Free Vegetable Cleanser
- ✓ Real Time Monitoring of Hydroponics using IoT
- ✓ Optically operated User-assistive Robot for Patients of ALS (OUR PALS)