



# VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

## DEPARTMENT OF MECHANICAL ENGINEERING

### LIST OF FUNDED PROJECTS

S. No.	Title of the Project	Funding Agency	Principal Investigator	Duration Of The Project From - To	Amount Sanctioned (Rs. In Lakhs)	Status (Ongoing/ Completed)
1.	Development of double core sandwich composite structures using 3D Printed flexible core for enhancement of impact energy absorption for automobile and naval applications.	SERB/ DST	Dr. N. Kiran Kumar, Associate Professor	3 years 18 Feb 2024	54.43	Ongoing
2.	Development of Stealth Nano Composite Materials for Reduced RCS	DRDO	Dr. N. Kiran Kumar, Associate Professor	1.5 years 15 Feb 2024	9.98	Ongoing
3.	Development of contact-free nanostructure for solar powered desalinators	MSME	Dr. Ajay Kumar Kaviti, Associate Professor	1 Year 08-08-2023	15.00	Ongoing
4.	Development of hierarchical structures for solar distillation	DST	Dr. Ajay Kumar Kaviti, Associate Professor	17-12-2020 Sanction Date	40.72	Ongoing
5.	Experimental Investigation on Role of Hybrid Tool pin profile on Microstructure and Mechanical properties of Friction Stir Welded dissimilar AA6082 - AA5083 Aluminum Alloy	AICTE	Dr. B. V. Raja Ravi Kumar Professor	14-08-2020 Sanction Date	7.84	Ongoing
6.	Characterization of Plydrop phenomenon in FRP composites application in wind turbine blades.	JNTUH	Dr. N. Kiran Kumar, Associate Professor	22-07-2019 Sanction Date	2.90	Completed
7.	Solar desalination for nano and micro hierarchical structures	JNTUH	Dr. K. Ajay Kumar, Associate Professor	22-07-2019 Sanction Date	2.85	Completed
8.	Semi-Automatic Prosthetic Arm using voice commands	BIRAC/ IKP	Mr. Rahul Hadnoor	1.5 Year (2019-2021)	44.8	Completed
9.	Establishment of Research and Development Lab Research 2018-21	VNRVJIET	Mrs. Ch. Priyadarsini Assistant Professor	04 Year (2018-21)	43.49	Completed

10.	Cultivation of Micro Algae and characterization of its suitability as an alternate fuel	UGC	Dr. Jayashri N. Nair Assistant Professor	02 Year (Jun. 2017 – May. 2019)	3.30	Completed
11.	Design of a new locking mechanism for easy fixing – easy removal of an automobile wheel	MSME	Mr. V. Anand Kumar Assistant Professor	01 Year (Dec. 2015 – Nov. 2016)	6.25	Completed
12.	Optimization of controllable turning parameters for High Speed Dry Machining of Super Alloys by measurement of Tool Wear	UGC	Dr. B. Satyanarayana Professor	02 Years (Apr. 2014 – Mar. 2016)	3.5	Completed
13.	Development of procedures for computation of Titanium–Vanadium Binary alloy phase diagram using Cluster Variation method	DRDO	Dr. G. Srinivasa Gupta Professor	02 Years ( Jul. 2014 – May. 2016)	9.322	Completed
14.	Smart Electric Immersion Water Heater	MSME	Mr. D. Ravi Teja	01 Year (Dec. 2015 – Nov. 2016)	4.51	Completed
15.	Comparative study of weld characteristics of IS : 65032A Aluminum alloy by two processes Friction Stir Welding ( FSW ) and gas tungsten arc welding (GTAW)	DRDO	Dr. V. Raja Ravi Kumar Professor	02 Years ( Jun. 2013 – May 2015 )	9.91	Completed
16.	Experimental study of influences of pulsed current non-pulsed current Gas Tungsten Arc Welding on Aluminum alloy Weldments	AICTE	Dr. V. Raja Ravi Kumar Professor	03 Years ( Mar. 2012 – Feb. 2016)	15.70	Completed
17.	Multiscale Mechanical Methods for Characterization of Bone and Biomaterials	AICTE	Dr. S. P. Paruchuru Professor	2 Years (Jun. 2012 – May. 2014 )	17.0	Completed
18.	Automated Commando Training System (ACTS)	A.P. State Police	Dr. B. Satyanarayana, Professor	August 2008	9.27	Completed
				<b>Total amount of grants received</b>	<b>3.0 Crores</b>	