



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 hierarchical structures for solar distillation | DST | Dr. Ajay Kumar Kaviti | 17-12-2020 Sanction Date | 40.72332 | Ongoing |
| 2. | Experimental Investigation on Role of Hybrid Tool pin profile on Microstructure and Mechanical properties of Friction Stir Welded dissimilar 446082 - AA5083 Aluminum Alloy | AICTE | Dr. V. Raja Ravi Kumar Professor | 14-08-2020 Sanction Date | 7.84 | Ongoing |
| 3. | Characterization of Plydrop phenomenon in FRP composites application in wind turbine blades. | JNTUH | Dr. N. Kiran Kumar, Associate Professor | 22-07-2019 August 2019- June 2021 | 2.90 | Completed |
| 4. | Solar desalination for nano and micro hierarchical structures | JNTUH | Dr. K. Ajay Kumar, Associate Professor | 22-07-2019 August 2019- May 2021 | 2.85 | Completed |
| 5. | Semi-Automatic Prosthetic Arm using voice commands | BIRAC/IK P | Mr. Rahul Hadnoor | 1.5 Year (2019-2021) | 44.8 | Ongoing |
| 6. | Establishment of Research and Development Lab Research 2018-21 | VNRVJIE | Mrs. Ch. Priyadarsini Assistant Professor | 04 Year (2018-21) | 43.49 | Ongoing |
| 7. | 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 |
| 8. | 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 |

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|-----|--|-------------------|-------------------------------------|--|----------------------|-----------|
| 9. | 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 |
| 10. | 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 |
| 11. | Smart Electric Immersion Water Heater | MSME | Mr. D. Ravi Teja | 01 Year (Dec. 2015 – Nov. 2016) | 4.51 | Completed |
| 12. | 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 |
| 13. | Experimental study of influences of pulsed current and non-pulsed current Gas Tungsten Arc Welding on 6082 Aluminum alloy Weldments | AICTE | Dr. V. Raja Ravi Kumar Professor | 03 Years (Mar. 2012 – Feb. 2016) | 15.70 | Completed |
| 14. | Multiscale Mechanical Methods for Characterization of Bone and Biomaterials | AICTE | Dr. S. P. Paruchuru Professor | 2 Years (Jun. 2012 – May. 2014) | 17.0 | Completed |
| 15. | Automated Commando Training System (ACTS) | A.P. State Police | Dr. B. Satyanarayana, Professor | August 2008 | 9.27 | Completed |
| | | | | Total amount of grants received | 2.2137 Crores | |