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| **vignana logo1****Estd.1995** | **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++’ GradeNBA Accreditation for B.Tech. CE, EEE, ME, ECE, CSE, EIE, IT ProgrammesApproved by AICTE, New Delhi, Affiliated to JNTUH, NIRF 135th Rank in Engineering CategoryRecognized as “College with Potential for Excellence” by UGCVignana Jyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad – 500 090, TS, India.Telephone No: 040-2304 2758/59/60, Fax: 040-23042761E-mail: postbox@vnrvjiet.ac.in, Website: [www.vnrvjiet.ac.in](http://www.vnrvjiet.ac.in) | Logo  Description automatically generated |

**Department of Mechanical Engineering**

**Details of Patents**

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| **S.No** | **A.Y** | **Name of the faculty** | **Title of the Patent / Design/etc.** | **Application Number** | **Date of Filed** | **Date of Published** | **Date of Granted** | **Date of Reply filed** | **Status** |
| 1 | **2021-2022** | Dr. Jayashri N. NairAssistant ProfessorVNRVJIET, Hyderabad |  DESIGN AND FABRICATION OF TREAD MILL BICYCLE | Application no. 202141051863 | 12/11/2021 | 26/11/2021 | --- |  | Published |
| 2 | Dr. Ajay Kumar Kaviti Assoc. Professor, Department of ME | NON-CONTACT NANOSTRUCTURE AND METHOD OF MANUFACTURING THE SAME FOR FOULING FREE SOLAR DESALINATION”  | Application No.202241000685 | 06/01/2022 | 21/01/2022 | -- |  | Published |
| 3 | Dr. Ajay Kumar Kaviti Assoc. Professor, Department of ME | SUBMERGED NANOPOROUS MICRO HOTSPOT STRUCTURE FOR SOLAR DESALINATION AND METHOD OF PREPARATION | Application No.202241003900 | 24/01/2022 | 04/02/2022 | -- |  | Published |
| 4 | Dr. Ajay Kumar Kaviti Assoc. Professor, Department of ME | SOLAR DESALINATOR | Application No. 357989-001  | 5/02/2022 |  | **21/04/2022** |  | **Granted** |
| 5 | Dr. Ajay Kumar Kaviti Assoc. Professor, Department of ME | SOLAR DESALINATOR | Application No. 359786-001 | 3/03/2022 |  | **23/05/2022** |  | **Granted** |
| 6 | Dr. Satya Prasad Paruchuru,Professor, Department of ME | INSTRUMENTED METHODS FOR SMART OPERATIONS | Application no.2788/CHE/2015 | 03/06/2015 | 9/12/2016 | ---- | **21/03/2022** | **Reply filed. Application in amended examination** |
| 7 | Dr. Satya Prasad Paruchuru,Professor, Department of ME | INSTRUMENTED METHODS FOR SMART OPERATIONS | Application no3519/CHE/2015 | 09/07/2015 | 13/01/2017 | ---- | **24/03/2022** | **Reply filed. Application in amended examination** |
| 8 | Dr. Ajay Kumar Kaviti Assoc. Professor, Department of ME | ECO-FRIENDLY SOLAR DESALINATOR | Application No. 202241033629 published on  | 13/06/2022 | 17/06/2022 |  |  | Published |
| 9 | Mr. T. Malyadri, Assistant Professor, Department of ME | FABRICATION OF POLYMER BASED NANO COMPOSITE ROOF SHEETS | Application no. 202141025859  | 10/06/2021 | ----- | **14/07/2022** |  | **Granted** |
| 10 | **2020-2021** | Dr. B. Satyanarayana, Professor, Department of ME | COLLABORATIVE FEDERATIVE LEARNING APPROACH FOR INTERNET OF VEHICLES TRAFFIC PREDICTION | --- | 02/08/2022 | ------ | **26 /08/ 2020** |  | **Granted** |
| 11 | Dr. Satya Prasad Paruchuru,Professor, Department of ME | AN ARRANGEMENT TO ENHANCE THE TISSUE ENGINEERING AND OTHER LIVELY PROCESSES TO ENHANCE LIFE | Application no.201941029478 | 22/07/2019 | 29/01/2021 | --- | ------ | Awaiting Request for Examination |
| 12 | Dr. V. Siva Rama Krishna | EVALUATION OF THRUST FORCE AND TORQUE IN DRILLING OF NATURAL FIBER PARTICLE REINFORCED POLYMER” | Application no. 20214100581 | 11/02/2022 | 19/02/2021 | ---- |  | Published |
| 13 | Dr. Yeole Shivraj Narayan, Professor, Department of ME | MODULAR ENCLOSURE FOR CHEMICAL PROCESSING | Application no. 342237-001  |  | 31/05/2021 | ---- |  | Published |
| 14 | Dr. K. Ajay Kumar, Assoc. Professor, Department of ME | DEVELOPMENT OF SMART WALKING STICK FOR VISUALLY IMPAIRED PEOPLE  | Application no. 202041012028 | 20/03/2020 | 22/05/2021 | ---- |  | Published |

**Faculty Guided Students Projects**

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| **S. No** | **A.Y** | **Name of the faculty Mentor** | **Name of the students** | **Title of the Patent / Design/etc.** | **Application Number** | **Date of filed** | **Date of Published** | **Date of Granted** | **Date of Reply filed**  | **Status** |
| 1 | 2019-20 | Dr. Jayprakash | IV B.Tech. (ME) Students 1. Y. Kausthub Kaundinya (12071A03C0),88858859022. Nikhil Pasari (12071A0389)95504701503. Sreekanth Kommula (12071A0377)77022244104. Anand Kumar. D (13075A0315) 9440913987 | SYSTEM AND METHOD FOR TEMPERATURE ADJUSTMENTS AND AIR FILTRATION INSIDE A HELMET | 6499/CHE/2015 | 03/12/2015 | 8/01/2016 |  | **10/3/2020** | **Reply filed. Application in amended examination** |
| 2 | Dr. Aruna Prabha | N. Tummala Uday 14071A03A92. Brahmandam JSK Narsimha Kasyap14071A03643. CH. Praveen 14071A0369 | STABILIZING DEVICE | 201741031233 | 04/09/2017 | 18/01/2019 | 18/10/2019 | **5/8/2019** | **Granted** |