**Patents filed**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**S.No**](http://S.No) | **Dept** | **Title of the patented work** | **Inventor and Co-assignees** | **Filing date** | **Application Number** | **Published date** | **Sanctioned date** | **National/international Patent** |
| 1 | PE | A new process for preparation of self-reinforced thermoplastic micro and nanofiber polyamide composite system | Dr. R. Vasanthakumari  Ms. R. Gayathri  Mr. Muthusubramaniam  Mr. Kaviarasan | 29.9.14 | 4834/CHE/2014 | 1.7.16 |  | National |
| 2 | PE | Porous Hydrophobic polymer composite for separation of Oil from Oil spills in water and preparation method thereof | Dr. R. Vasanthakumari  Ms. R Daulath Banu  Ms R. Gayathri  Mr. S. Vikram | 17.12.15 | 6942/CHE/2015 |  |  | National |
| 3 | PE | Spent Coffee ground-based Polypropylene bio composite material and preparation method thereof | Dr. N Jayachitra,  Dr. R. Vasanthakumari,  Ms R Gayathri | 06.05.16 | 201641015805 |  |  | National |
| 4 | Civil | Innovative Thermal Insulation Technique for flat roofs using glass fibre reinforced Gypsum (GFRG) PA | Dr.M.S. Haji Sheik Mohammed | 24/03/17 | 201741010372 |  |  | National |
| 5 | SLS | Greennanoparticles as novelantibiotic resistance breakers | Dr. S.Hemalatha, Tahira Akhter | 2017 | 201741038842 |  |  |  |
| 6 | SLS | Endophyticnanoparticles as an alternative to antibiotics to control pathogenic bacteria | Dr. S.Hemalatha, Tahira Akhter | 2017 | 201741038843 |  |  | National |
| 7 | SLS | Endophyticnanoparticles suppressbiofilmformation in human pathogens | Dr. S.Hemalatha, Tahira Akhter | 2017 | 201741038645 |  |  | National |
| 8 | SLS | Myconano- particles suppress the colonization of plant pathogenic fungi | Dr. S.Hemalatha, Tahira Akhter | 2017 | 201741038646 |  |  | National |
| 9 | SLS | Novelaktinhibitor to control lung cancer | Dr. S.Hemalatha,  S. M.Fazeela mehboob Begum | 2017 | 201741037941 |  |  | National |
| 10 | SLS | Novel p13k andaktinhibitor that can control different types of cancer | Dr. S.Hemalatha,  S. M.Fazeela mehboob Begum | 2017 | 201741037942 |  |  | National |
| 11 | Auto | Automated Supporting Wheels For Self Stabilization In Motorcycles | Mr. V. Deepan | 6/5/17 | 201741015956 |  |  | National |
| 12 | Auto | Pedal Acceleration And Modified Rear Brake Pedal For Motorcycle | Mr. V. Deepan | 6/5/17 | 201741015957 |  |  | National |
| 13 | Auto | Automatic hand brake system using seatbelt for passenger vehicles | Mr.C.Dineshkumar | 31.10.17 |  |  |  | National |
| 14 | Auto | Safety ignition system for drivers | Mr.C.Dinesh kumar | 31.10.17 |  |  |  | National |
| 15 | Mech | Electro Mechanical Clutch (EMC). | Mr.PJ. Radhakrishnan, Mr. B. Hari Krishnan, Hussam, of Mech. Dept, Batch 13-17 | 01.05.17 |  |  |  | National |
| 16 | Mech | Super Turbo Charger. | Mr. PJ. Radhakrishnan, Mr. B. Hari Krishnan ,of Mech. Dept. Batch 13-17 | 01.05.17 |  |  |  | National |
| 17 | Mech | Dry mixiing machine and method of mixing for dry friction materials | Mr. B. Surya Rajan, Dr. M.A. Sai Balaji, Mr. Md. Javeed Ahmed | 05/03/16 | 201641009076 |  |  | National |
| 18 | Mech | Heat Treatment Method for Mg-Zn-Cu Alloy and Composites | Dr. H. Naveed Hussain,  Dr. S. Beer Mohammed,  Dr. R. Rajendran | 2016 | 201641029056 |  |  | National |
| 19 | EEE | Silicone / EPDM Polymeric blends compound for outdoor insulators | Dr. R.Raja Prabu, Prof./EEE & Director (ARIA) | 2015 | 3029/CHE/2015 |  |  | National |
| 20 | EIE | Development of Boiler tube leakage detection system using intelligent techniques | Prof.Sahul Hamid (PI), Dr.D.Najumnissa Jamal, Dr.P.K.Jawahar and Mrs.Murshitha Shajahan | 28.12.17 |  |  |  | National |
| 21 | SLS | Chemo Priming compound to protect plants grown under saline stress. | Mohd. Shahanabaj khan and Dr.S. Hemalatha | 25.1.18 | 201841003193 |  |  | National |
| 22 | SLS | el bio priming compounds help  to cope up with water stress | Mohd. Shahanabaj khan and Dr.S. Hemalatha | 25.1.18 | 201841003191 |  |  | National |
| 23 | SLS | Novel autophagy modulators enhance growth and development of plants under abiotic stress conditions | Mohd. Shahanabaj khan and Dr. S. Hemalatha | 25.1.18 | 201841003192 |  |  | National |
| 24 | SLS | Novel methods for isolation of bio-priming compounds to enhance the plant growth | Mohd. Shahanabaj khan and Dr.S. Hemalatha | 25.1.18 | 201841003194 |  |  | National |
| 25 | SLS | Novel compound that inhibits ZIKA virus entry | S. Priya and Dr.S. Hemalatha | 25.1.18 | 201841002981 |  |  | National |
| 26 | SLS | Novel Inhibitor targets ZIKA virus envelope protein to control replication | S. Priya and Dr.S. Hemalatha | 25.1.18 | 201841002982 |  |  | National |
| 27 | SLS | Entry Inhibitor: A new class of ZIKA virus drug candidate | S. Priya and Dr.S. Hemalatha | 25.1.18 | 201841002983 |  |  | National |
| 28 | SLS | Design and Synthesis of novel ZIKA virus Entry Inhibitors | S. Priya and Dr.S. Hemalatha | 25.1.18 | 201841002984 |  |  | National |
| 29 | SLS | Antiflaviviral inhibitor in the Treatment and Prevention of ZIKA viral Infection | S. Priya and Dr.S. Hemalatha | 25.1.18 | 2018410029825 |  |  | National |
| 30 | SLS | ZIKA entry inhibitor : a new generation of antiflavivirus drugs | S. Priya and Dr.S. Hemalatha | 25.1.18 | 201841002986 |  |  | National |
| 31 | SLS | Structure-based design of non-peptide inhibitors specific for the ZIKA virus | S. Priya and Dr.S. Hemalatha | 25.1.18 | 201841002987 |  |  | National |
| 32 | SLS | Novel compounds with Anti flaviviral properties | S. Priya and Dr.S. Hemalatha | 25.1.18 | 201841002988 |  |  | National |
| 33 | SLS | BSP-PS, a novel packing system to enhance the shelf life of bananas | M. Sathyapriyan and Dr.S. Hemalatha | 25.1.18 | 201841003190 |  |  | National |
| 34 | CSE | Locating the Mobile Contacts by Using Geo and Fingerprint Sensor  Technology | Sonya A | 15.10.2018 | 21841038971 |  |  | National |