

**LIST OF FACULTIES AWARDED SEED MONEY**

| Name of the teacher getting seed money  | Title of the Project  | The amount of seed money (INR in Lakhs) | Year of receiving grant |
|---|---|---|-------------------------|
| Dr. Jagadeeshwar Kodavaty<br>Mr. Shyam Kumar Inturi                                     | Volume displacement studies of SP slug in a microfluidic sandstone device- EOR  | 2.50                                    | 2018-19                 |
| Dr. G. Gopalakrishnan   | Synthesis, modification, characterization and evaluation of Hierarchical ZSM-12 for hydrothermal liquification of wastewater into low-oxygen containing bio-oil                             | 2.30                                    | 2018-19                 |
| Dr. Om Prakash<br>Mr. Shikhar Purohit   | Fabrication and flight test of different configurations of winged hybrid airship  | 2.00                                    | 2018-19                 |
| Dr. P. K. Srivastava<br>Dr. Saurabh Mittal  | Geo-Spatial Mapping and Quality Assessment of Aquifer zones around UPES   | 1.00                                    | 2018-19                 |
| Dr. Ashutosh Pandey<br>Dr. Bhavana Lamba  | Chemical degradation of post-consumer PET bottles over metal salt catalyst.   | 0.62                                    | 2018-19                 |
| Satyajit Chowdhury<br>Dr. Srinivasa Reddy Devarapu<br>Dr. Sunil Khare<br>Srawanti Medhi | Design of Nano weighing agents for drilling fluids to reduce downhole torque and drag   | 0.50                                    | 2018-19                 |
| V. Surendar<br>Valluri Venkata Krishnakanth   | Formulation of Optimized Environment Friendly and Safe Pyrotechnic Composition using pyrovalency approach   | 0.75                                    | 2018-19                 |
| Dr. Prathyusha Mekala   | Phase Behaviour Predictions for Pure and Binary Gas Semi clathrate Hydrates of TBAC, TBAF, TBANO <sub>3</sub> Ionic Liquids   | 0.70                                    | 2018-19                 |
| Dr. Rajeev Tiwari<br>Dr. Hitesh Kumar Sharma  | Smart Parking System - Cloud and IoT based Approach   | 0.91                                    | 2018-19                 |
| Dr. Alok Aggarwal<br>Dr. Adarsh Kumar   | Impact of Tornado vortex induced aerodynamic loads on structural projections in low rise buildings using sensor based IOT devices   | 2.50                                    | 2018-19                 |
| Dr. Nilima Salankar<br>Dr. Tanmay Bhowmik<br>Dr. Kiran K Ravulakollu                    | Design & Development of EEG Corpus for Psychometric Analysis  | 2.75                                    | 2018-19                 |
| Dr. Adarsh Kumar<br>Dr. Alok Aggarwal<br>Dr. Neelu Ahuja                                | Developing an Open Source Lightweight Cyber Threat Sharing Platform   | 3.00                                    | 2018-19                 |
| Dr. Tanupriya Choudhury   | A Framework to Guide Development Through ICTs in Rural Areas in Uttarakhand   | 1.70                                    | 2018-19                 |
| Ms. Charu Shrivastava<br>Ms. Parul Sinha  | A Study on Potential Geographical Indications of Uttarakhand  | 1.50                                    | 2018-19                 |
| Dr. Juhi Garg<br>Dr. Tabrez Ahmad   | Occupational Interest Schedule for Law Students(OIS-LS)   | 1.00                                    | 2018-19                 |
| Dr. Vijay Kumar Singh<br>Mr. Prakhar Ganguly  | Integrating the framework of Sustainable Development Goals in Law School  | 1.50                                    | 2018-19                 |
| Mr. Amit Singh  | Trade, Energy and climate change :- "Integrated Legal and Policy issue for India"   | 1.00                                    | 2018-19                 |
| Mr. Prashant Shukla<br>Dr. Shyam Pandey<br>Dr. V. Chintala<br>Dr. Pankaj Sharma         | Segregation of Mixed Municipal Solid Waste Through Wet Density Media Separation Process   | 1.70                                    | 2018-19                 |
| Mr. Durga Prasad Panday<br>Mr. Rahul Silori<br>Mr. Susanta Kr. Sathy                    | Scour Protection around Bridge Pier in rivers of Uttarakhand  | 3.25                                    | 2018-19                 |
| Mr. M. Vijai Kishore<br>Mr. Mukesh Dubey<br>Dr. N A Siddiqui                            | To propose a new methodology in road layers by enhancing the strength of subgrade.  | 0.75                                    | 2018-19                 |
| Ms Tabassum Abbasi<br>Abhishek Nandan   | Development of environmental indices to catalyze public participation in controlling pollution  | 2.50                                    | 2018-19                 |
| Ms. Jhalak<br>Dr. Ragnish Garg  | Synthesis and characterization of wear-resistant Ni-based composite and nanocomposite coatings through electrodeposition.   | 1.80                                    | 2018-19                 |
| Dr. Shailesh Kumar<br>Dr. Upendra Singh yadav<br>Dr. S K Khare                          | Application of Nano Composites to Enhance the Flow Properties of Indian Heavy/Waxy Crude Oils for Pipeline Transportation   | 1.80                                    | 2018-19                 |
| Dr. Nilanjana Banerjee<br>Dr. P. Vijay  | Design and optimization of a continuous three -phase slurry reactor for biomass solar pyrolysis   | 1.50                                    | 2018-19                 |
| Dr. Nirlipta P. Nayak<br>Dr. Santanu Bhowmik  | Sustainable utilization of iron ore slime-A potential threat to ecosystem   | 3.00                                    | 2018-19                 |
| Akash Gupta<br>Dr. Mukul Gupta<br>Dr. Amit Mondal                                       | Development of Wearable Robotic Exoskeleton for Human upper-limb rehabilitation with redundant forearm pronation and supination using micro-ratchet mechanism for shoulder link adjustment. | 2.00                                    | 2018-19                 |
| Harshit Shukla<br>Dr. Velidi Gurunadh<br>Mr. Vipin Kumar                                | Development of sub scale rocket motor test bed for green propellant testing   | 3.50                                    | 2018-19                 |

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| Dr. Vamshikrishna Domala<br>Dr. D P Panday                                    | Hydrodynamic and vortex induced motion(VIM) analysis of a moored semi-submersible for wind turbine applications                             | 3.80  | 2018-19 |
| Dr. Lalit Kane<br>Dr. Piyush Chauhan<br>Dr. Aradhana K Singh                  | Mid-air writing input for Interactive Response  | 0.60  | 2018-19 |
| Shahina Anwarul<br>Susheela Dhaiya  | Criminal identification and crime prediction system using face recognition  | 0.50  | 2018-19 |
| Dr. Shamik Tiwari<br>Mr. Varun Sapra<br>Dr. Anurag Jain                       | Smart ECG monitoring system to diagnose cardiovascular disease  | 0.85  | 2018-19 |
| Mr. Bikram Pratim Bhuyan<br>Dr. Seim Timung                                   | River water pollution detection using microfluidic based paper analytical device using geospatial and temporal analysis                     | 1.00  | 2018-19 |
| Mr. Bhupendra Singh<br>Dr. Monit Kapoor                                       | Assistive cane for visually impaired persons  | 0.50  | 2018-19 |
| Deepshika Bhargava  | Design and Implementation of Security Accessory against Child Harassment  | 0.20  | 2018-19 |
| Dr. Rashmi Sharma<br>Mr. Gunjan Chhabra<br>Mr. Vidyanand Mishra               | Smart Indoor Pollution Checker  | 0.30  | 2018-19 |
| Mr. Ankit Vishnoi<br>Ms. Tripti Mishra  | Mobi – Garage   | 0.40  | 2018-19 |
| Mr. Amitava Choudhury<br>Dr. Kiran K Ravulakollu                              | Machine learning approach to classification of phases and crystal structure from steel dataset  | 1.00  | 2018-19 |
| Mr. P. Swami Sairam<br>Dr. Jitendra K Pandey                                  | Micro Nano bubble based fish culture  | 9.00  | 2018-19 |
| Dr. V Chintala  | Enriched biogas demonstration plant   | 16.70 | 2018-19 |
| Dr. Rajesh Tripathy<br>Swati Gupta  | Developing Social Innovation framework for rural Uttarakhand: An empirical study  | 1.00  | 2018-19 |
| Dr. Narendra Nath Dalei   | Adopting clean and renewable energy to mitigate climate change in India   | 1.50  | 2018-19 |
| Dr. Pushpa Sharma<br>Dr. Vamsi Krishna Kudapa                                 | Simulation and modelling of unconventional reservoir (coal and shale) parameters required CO <sub>2</sub> injection to enhance gas recovery | 3.00  | 2018-19 |
| Mr. Valluri Venkata Krishnakanth  | Design and testing of grounding system using brine solution for storage tanks   | 1.20  | 2018-19 |
| Dr. Kanchan Deoli Bahukhandi<br>Dr. Nihal Anwar Siddiqui<br>Dr. Shefali Arora | Effective augmentation of extraction of essential oils  | 0.50  | 2018-19 |
| Dr Annapurna Boruah<br>Mr. Gaurav Siddharth                                   | Integrated surface geochemical studies for identification of hydrocarbon prospect in gohpu and nearby area, sonitput district, Assam        | 1.5   | 2017-18 |
| Dr. P Vijay<br>Mr. Debajyoti Bose<br>Dr. M Gopinath                           | Development of novel indigenous cathode for bioelectricity production using two chambered microbial fuel cell (MFC) reactor                 | 2.5   | 2017-18 |
| Dr. Kanak Pal Singh Parmar<br>Dr. Piyush Kuchhal                              | Effect of particle morphology on efficiency of dye sensitized solar cell (DSSC)   | 2.4   | 2017-18 |
| Amit Kumar Thakur<br>Rahul Kumar<br>Pranava Chaudhari                         | Solubility enhancement of drugs by recrystalliation using liouid antisolvent  | 3     | 2017-18 |
| Dr. V. Chintala<br>Dr. Ashish Karn  | Conversion of waste sewage sludge to wealth via hydrolysis/methanogenesis and pyrolysis   | 3.62  | 2017-18 |
| V Senthilkumar<br>Dr. Venkat Chintala<br>Dr. Pankaj Kumar Sharma              | Experimental and CFD analysis of combustion and emission characteristics of producer gas engine   | 1.7   | 2017-18 |
| Dr. Ashish Karn<br>Dr. Abhay Kumar  | Novel strategies to induce bubble coalescence for industrial and naval applications   | 2.4   | 2017-18 |
| Dr. Shyam Pandey<br>Dr. P S Ranjit<br>Dr. V. Chintala<br>Mr. Swapnil Bhurat   | Development of pre-mixed charge compression ignition engine (PCCI) operating on variable compression ratio with vaporized diesel            | 2.1   | 2017-18 |
| Ms. Lunu Saikia   | Develop mould filling process for FRP with the help of VARTM/RTM technique and the vibration analysis of the composite structure            | 2.5   | 2017-18 |
| Dr. Velidi V S S Gurunadh<br>Dr. Rajesh Yadav                                 | Experimental and numerical study on combustion characteristics of micro combustor with a bluff body flame stabilization                     | 0.2   | 2017-18 |
| Dr. Rajesh Yadav<br>Ms. Aslesha Bodavula                                      | Effect of surface protrusions and cavities on airfoil aerodynamic efficiency at low Reynolds number   | 2     | 2017-18 |
| Dr. Vindhya Devalla<br>Dr. Om Prakash<br>Dr. Amit Kumar Mondal                | Mobile adaptable platform for unmanned aerial vehicles  | 1.5   | 2017-18 |
| Dr. Vindhya Devalla<br>Dr. Om Prakash<br>Dr. Amit Kumar Mondal                | Egomotion estimation of 6 DOF multirotor in GPS denied environment  | 1.6   | 2017-18 |

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| Dr. R. Gowri<br>Dr. Abhinav Sharma<br>Dr. Md. Salauddin   | Design and implementation of smart antenna system using FPGA   | 2    | 2017-18 |
| Dr. Mukul Kumar Gupta<br>Dr. Piyush Chauhan<br>Ms. Varnita Verma  | Design and analysis of robotic system for minimal invasive surgery   | 2    | 2017-18 |
| Dr. Vivek Kaundal<br>Dr. Amit Kumar Mondal<br>Dr. Adesh Kumar<br>Dr. Rupendra Kr. Pachaur<br>Mr. Mukesh Chandra Kestwal | Design and development of device for the measurement of rainattenuation  | 1.7  | 2017-18 |
| Mr. Sri Ragunath V<br>Dr. Ashish Karn   | In-situ monitoring of industrial bubbly flows and bubble size control by continuous feedback system  | 3.15 | 2017-18 |
| Dr. Jagdish Chandra Patni<br>Dr. Amit Agarwal<br>Mr. Ravi Tomar   | Mobile app based intelligent irrigation system using smart sprinklers  | 2.3  | 2017-18 |
| Dr. Abhijit Kumar   | Design of triclustering techniques for information extraction from microarray and HIV datasets   | 1.5  | 2017-18 |
| Dr. Hitesh Kumar<br>Mr. Anil Kumar  | Digital cancer diagnosis with counts of adenoma and luminal cells in plemorphic adenoma immunostained in healthcare system   | 0.5  | 2017-18 |
| Dr. Piyush Chauhan<br>Mr. Anil Kumar<br>Ms. Poonam Kainthura  | Decentralized voting system  | 0.6  | 2017-18 |
| Dr. Anirban Chowdhury<br>Ms. Richa Choudhary  | Design and development of a system for ease of activities and services of a business incubator: a business design perspective  | 2    | 2017-18 |
| Dr. Devkant Kala<br>Dr. Sunil Barthwal  | Assesing the impact of food experience and restaurant services on tourist satisfaction in rishikes-badrinath yatra highway   | 0.78 | 2017-18 |
| Dr. Alka Dwivedi<br>Dr. Neelu Ahuja<br>Dr. Ratna Banarjee   | A study of determinants and impact of digital divide among students in dehradun  | 0.8  | 2017-18 |
| Dr. Sushil Kumar Rai<br>Dr. Bhartendu Chaturvedi  | Socio-economic impacts of tourism sector in Uttarakhand: A study based on dehradun and nainital district   | 1.7  | 2017-18 |
| Dr. Sheetal Khanka<br>Dr. Teena Saharan   | Future of workforce and HR automation in infrastructure and energy sector organization of India  | 1.43 | 2017-18 |
| Dr. Priyanka Sharma Khanduja<br>Ms. Dharmita Prasad<br>Ms. Manisha Solanki  | Development of blended module for critical thinking skills for law graduate programs   | 1.5  | 2017-18 |
| Dr. K. Raghavan   | Plug flow digesters for biogas from food wastes  | 4.93 | 2017-18 |
| Mr. Uppara Rajanikanth  | Real time monitoring and alerting of waterbodies: land dynamics and water quality  | 3.3  | 2017-18 |
| Dr. Krunal Gangawane<br>Dr. Murali Pujari   | Synthesis and characterization of ferrofluid nanocomposites  | 3.5  | 2016-17 |
| Dr. Tapas Goswami<br>Dr. K M Reddy<br>Dr. Abhishek K Mishra   | Controlled synthesis and investigation of structure property correlation: Towards the development of exceptional nonlinear optical nano material   | 3.72 | 2016-17 |
| Dr. Mukul Kumar Gupta<br>Ms. Meera C. S   | Analysis design and developmnt of haptic interface for hydraulic manipulator   | 0.85 | 2016-17 |
| Dr. Ravi Gunupuru<br>Mr. P. Swami Sairam  | Designing, synthesis and application of functionalized Au, Ag nanoparticle for colorimetric detection of hazardous analytes in aqueous medium  | 3.1  | 2016-17 |
| Mr. Bhupendra Singh<br>Mr. Amit Verma   | Obstacle avoidance badge   | 0.5  | 2016-17 |
| Dr. Amit Kumar Mondal<br>Mr. Vivek Kaundal<br>Dr. Rupendra Kumar Pachauri<br>Dr. Sushabhan Choudhury                    | Performance enhancement of thermal effects on submerged and un-submerged SPV modules under climatic conditions   | 1.01 | 2016-17 |
| Dr. Shanili Vohra<br>Mr. Anurabh Banerjee   | A feasibility study to analyze the possible impact of linking Adhaar (UID) with mid-day meal: a case based analysis of two rural primary school and two semi-urban primary school in Dehradun district | 0.79 | 2016-17 |
| Mr. Uppara Rajanikanth  | Green and clean energy using solar power using super capacitors  | 3.4  | 2016-17 |
| Dr. Sandhya Kumari  | Rights of child and future of India: need for inventivising the right to education in India  | 3.3  | 2016-17 |
| Dr. Rajeev Sharma,<br>Dr. Ruchi Tyagi   | Challenges and implications for micro small and medium enterprises (MSME's) in Uttarakhand   | 1.67 | 2016-17 |
| Dr. Abhishek Kumar Mishra   | Designing novel catalysts for CO2 capture and conversion   | 4.25 | 2016-17 |
| Dr. Praveen Kumar Ghodke<br>Dr. Girdhar Joshi   | Upgradation of fast pyrolysis oil derived from agricultural reuse  | 5    | 2016-17 |
| Ms. Anupama Mishra  | Novel automative after treatment systems for diesel engines! enperiments and modelling   | 4.5  | 2016-17 |
| Mr. Arunabh Banerjee,<br>Ms. Noopur Jha   | To find out the importance of communicative english as a filed of study under vocational training provided in the state of Uttarakhand   | 0.96 | 2016-17 |

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|---|---|------|---------|
| Mr. Dharani Kumar                                       | Preparation of thermoelectric hybrid cellulose PVA-CaO obtained from Eggshells  | 1.39 | 2016-17 |
| Mr. Niteen Ramchandra Yeole                             | Synthesis, modification and testing of green and low cost zeolitic adsorbents for adsorption removal of organic sulfur compounds from liquid transportation fuels     | 3    | 2015-16 |
| Ms. Geetanjali Raghav<br>Dr. Suresh Kumar               | Energy analysis for box type solar cooker with different geometries   | 3.2  | 2015-16 |
| Dr. Ajay Kumar<br>Dr. R.K. Tripathi<br>Mr. Deepak Kumar | Intuitive external attachment- ECS (Exhaust collection system) for collection of exhaust gases from engines and its nano- filtration for sustainability of CI engines | 3.2  | 2015-16 |
| Dr. N. A. Siddiqui,<br>Dr. S. M. Tauseef                | A study of ground water enhancement through recharge using rainwater in urban areas   | 0.8  | 2015-16 |
| Dr Jitendra Pandey<br>Mr Venkateswaran PS               | Direct prototyping of rapid and automated microfluidic systems using a commercial 3D printer for a variety of applications  | 5.6  | 2014-15 |
| Dr K Mohan Reddy  | Synthesis, characterization and catalytic activity of TiO <sub>2</sub> nanoparticles for photochemical oxidation of organic pollutants                                | 4.8  | 2014-15 |