

Minutes of SEED Research Grant Committee Meeting
School of Engineering
University of Petroleum & Energy Studies, UPES
26th September 2018

SEED grant provide all necessary financial support and basic facilities to check feasibility of new research ideas in engineering. This grant promotes participation of faculty members of different departments as Principle Investigators for various sponsored projects/schemes to carry out initial research. Committee members evaluated the proposals for the quality and research output in terms of publication and for the prospect of external funding. In the meeting conducted on **26th Sept 2018**, for SoE 16 proposals of ₹ 42,18,800 were submitted under SEED grant and after final evaluation 8 proposals with total grant of ₹ 10,37,000 were approved.

The review panel recommended by the office of Associate Dean - Research & Development had the following members:

- | | |
|--------------------------|-----------------------|
| 1. Dr. Suresh Kumar | 5. Dr. Pankaj Kumar |
| 2. Dr. Sanjeev Kumar | 6. Dr. Piyush Kuchhal |
| 3. Dr. Sunil Kumar Khare | 7. Dr. Rajnish Garg |
| 4. Dr. Ashoutosh Panday | |

| Project Code | Title | Investigators | Sanctioned Grant (₹) |
|---------------------|---|---|----------------------|
| UPES/R&D/0192018/01 | Volume displacement studies of SP slug in a microfluidic sandstone device- EOR | Dr. Jagadeeshwar Kodavaty, Mr. Shyam Kumar Inturi | 2,50,000 |
| UPES/R&D/0192018/02 | Synthesis, modification, characterization and evaluation of Hierarchical ZSM-12 for hydrothermal liquification of wastewater into low-oxygen containing bio-oil | Dr. G. Gopalakrishnan | 2,30,000 |
| UPES/R&D/0192018/03 | Fabrication and flight test of different configurations of winged hybrid airship | Dr. Om Prakash, Mr. Shikhar Purohit | 2,00,000 |
| UPES/R&D/0292018/04 | Geo-Spatial Mapping and Quality Assessment of Aquifer zones around UPES | Dr. P. K. Srivastava, Dr. Saurabh Mittal | 1,00,000 |
| UPES/R&D/0292018/05 | Chemical degradation of post-consumer PET bottles over metal salt catalyst. | Dr. Ashutosh Pandey, Dr. Bhavana Lamba | 62,000 |
| UPES/R&D/0292018/06 | Design of Nano weighing agents for drilling fluids to reduce downhole torque and drag | Satyajit Chowdhury, Dr. Srinivasa Reddy Devarapu, Dr. Sunil Khare, Srawanti Medhi | 50,000 |
| UPES/R&D/0392018/07 | Formulation of Optimized Environment Friendly and Safe Pyrotechnic Composition using pyrovalency approach | V. Surendar, Valluri Venkata Krishnakanth | 75,000 |

| Project Code | Title | Investigators | Sanctioned Grant (₹) |
|---------------------|---|-----------------------|----------------------|
| UPES/R&D/0492018/08 | Phase Behaviour Predictions for Pure and Binary Gas Semi clathrate Hydrates of TBAC, TBAF, TBANO ₃ Ionic Liquids | Dr. Prathyusha Mekala | 70,000 |
| Total | | | 10,37,000 |

Tauseef
 1/10/18
Dr. Syed Mohammad Tauseef
 Assistant Dean R&D - SoE

J.K. Pandey
 1/10/18
Dr. J. K. Pandey
 Associate Dean R&D

Kamal Bansal
Prof. Kamal Bansal
 Dean Academic & Innovation

DCW
Prof. Deependra Kumar Jha
 Vice-Chancellor

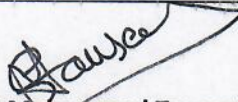
**Minutes of SEED Research Grant Committee Meeting for Revised
 Research Proposals
 School of Engineering
 University of Petroleum & Energy Studies, UPES
 1st October 2018**


SEED grant provide all necessary financial support and basic facilities to check feasibility of new research ideas in engineering. This grant promotes participation of faculty members of different departments as Principle Investigators for various sponsored projects/schemes to carry out initial research. Committee members evaluated the proposals for the quality and research output in terms of publication and for the prospect of external funding. In the meeting conducted on **1st October 2018** for SoE's SEED project proposals, three projects, revised based on the recommendations of the panel members, were awarded a total grant of ₹ 4,70,000.

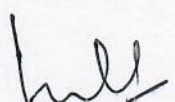
The review panel recommended by the office of Associate Dean - Research & Development had the following members:


- | | |
|--------------------------|-----------------------|
| 1. Dr. Suresh Kumar | 5. Dr. Pankaj Kumar |
| 2. Dr. Sanjeev Kumar | 6. Dr. Piyush Kuchhal |
| 3. Dr. Sunil Kumar Khare | 7. Dr. Rajnish Garg |
| 4. Dr. Ashoutosh Panday | |

| Project Code | Title | Investigators | Sanctioned Grant (₹) |
|---------------------|---|--|----------------------|
| UPES/R&D/0592018/09 | Simulation and modelling of unconventional reservoir (coal and shale) parameters required CO ₂ injection to enhance gas recovery | Dr. Pushpa Sharma, Dr. Vamsi Krishna Kudapa | 3,00,000 |
| UPES/R&D/0592018/10 | Design and testing of grounding system using brine solution for storage tanks | Mr. Valluri Venkata Krishnakanth | 1,20,000 |
| UPES/R&D/0592018/11 | Effective augmentation of extraction of essential oils | Dr. Kanchan Deoli Bahukhandi, Dr. Nihal Anwar Siddiqui, Dr. Shefali Arora | 50,000 |
| Total | | | 4,70,000 |


Dr. Syed Mohammad Tauseef
 Assistant Dean R&D - SoE


Dr. J. K. Pandey
 Associate Dean R&D


Prof. Kamal Bansal
 Dean Academic & Innovation


Prof. Deependra Kumar Jha
 Vice-Chancellor

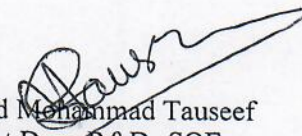
Minutes of SEED Research Grant Committee Meeting
School of Engineering
University of Petroleum & Energy Studies, UPES
13th December, 2018


SEED grant provide all necessary financial support and basic facilities to check the feasibility of new research ideas. This grant promotes participation of faculty members of different schools as Principle Investigator for various sponsored projects/schemes to carry out basic research. Our committee members evaluate the proposals and applicants are notified of funding approximately two weeks after the presentation. SEED grant recipients are expected to submit a proposal for external funding. In the meeting conducted 2 proposals of **INR 25,70,000** were submitted under SEED grant and after the final evaluation and presentations 2 proposals with total grant of **INR 25,70,000** were approved for research to our faculty members.

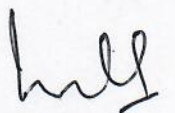
The review panel recommended buy the office of Associate Dean- Research & Development had the following members:


1. Dr. Deependra K Jha
2. Dr. Kamal Bansal
3. Dr. Jitendra K Pandey
4. Dr. Suresh Kumar

| Project Code | Title | Investigators | Sanctioned Grant |
|---------------------|--|--|----------------------|
| UPES/R&D/3011218/01 | Aquaculture growth study via micro nano bubble | Mr. P. Swami Sairam Dr. Jitendra K Pandey | Rs. 9,00,000 |
| UPES/R&D/011218/02 | Demonstration for Utilization of Enriched Biogas for Community Cooking: A self-sustaining campus model | Dr. V. Chintala | Rs. 16,70,000 |
| TOTAL | | | Rs. 25,70,000 |


 Dr. Syed Mohammad Tauseef
 Assistant Dean R&D- SOE


 Dr. Jitendra K Pandey
 Associate Dean R&D


 Prof. Kamal Bansal
 Dean Academic & Innovation


 Prof. Deependra Kumar Jha
 Vice Chancellor

Minutes of SEED Research Grant Committee Meeting held on 18th Sep 2018
School of Computer Science (SOC)
University of Petroleum & Energy Studies, UPES


SEED grant provide all necessary financial support and basic facilities to check feasibility of new research ideas in Computer Science. This grant promotes participation of faculty members of different departments as Principle Investigators for various sponsored projects/schemes to carry out initial research. Committee members evaluated the proposals for the quality and research output in terms of publication and also in the prospect of external funding. In the meeting conducted on **18th Sept 2018**, for SOC 10 proposals of ₹ **22,58,687** were submitted under SEED grant and after final evaluation 5 proposals with total grant of ₹ **10,86,000** were approved.

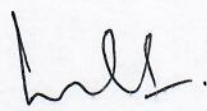
The review panel recommended by the office of Associate Dean - Research & Development had the following members:

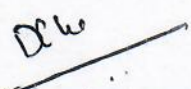
- | | |
|----------------------------|---------------------------|
| 1. Dr. Manish Prateek | 3. Dr. Neelu Jyoti Ahuja |
| 2. Dr. Kiran K Ravulakollu | 4. Dr. Deepshika Bhargava |

| Project Code | Title | Investigators | Sanctioned Grant (₹) |
|-----------------------------------|---|--|----------------------|
| UPES/R&D/180918/11 | Smart Parking System - Cloud and IoT based Approach | Dr. Rajeev Tiwari, Dr. Hitesh Kumar Sharma | 91000 |
| UPES/R&D/180918/12 | Impact of Tornado vortex induced aerodynamic loads on structural projections in low rise buildings using sensor based IOT devices | Dr. Alok Aggarwal, Dr. Adarsh Kumar | 250000 |
| UPES/R&D/180918/13 | Design & Development of EEG Corpus for Psychometric Analysis | Dr. Nilima Salankar, Dr. Tanmay Bhowmik, Dr. Kiran K Ravulakollu | 275000 |
| UPES/R&D/180918/14 | Developing an Open Source Lightweight Cyber Threat Sharing Platform | Dr. Adarsh Kumar, Dr. Alok Aggarwal, Dr. Neelu Ahuja | 300000 |
| UPES/R&D/180918/15 | A Framework to Guide Development Through ICTs in Rural Areas in Uttarakhand | Dr. Tanupriya Choudhury | 170000 |
| Total Sanctioned Grant (₹) | | | 10,86,000 |


 Dr. Kiran K Ravulakollu
 Assistant Dean R&D


 Prof. Jitendra K Pandey
 Associate Dean R&D


 Prof. Kamal Bansal
 Dean Academics & Innovations


 Prof. Deependra Kumar Jha
 Vice Chancellor

Minutes of SEED Research Grant Committee Meeting
School of Law
University of Petroleum & Energy Studies, UPES
4th October, 2018

SEED grant provide all necessary financial support and basic facilities to check the feasibility of new research ideas in Law. This grant promotes participation of faculty members of different departments as Principle Investigators for various sponsored projects/schemes to carry out initial research. Our Committee memmbers evaluate the proposal and applicants are notified of funding approximately two weeks after the evaluation. SEED grant recipients are expected to submit a proposal for external funding. In this meeting, **04** proposals of **INR 7,55,000** were submitted under SEED grant and after final evaluation **04** proposals with total grant of **INR 5,00,000** were approved for research to faculty member of School of Computer Science.

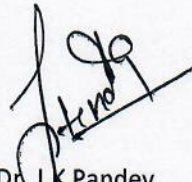
The following committee members were approved from office of Associate Dean Research:

1. Dr. J. K. Pandey
2. Dr. Tabrez Ahmad
3. Dr. Rakesh Kumar Chopra

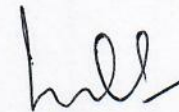
| Project Code | Title | Investigators | Sanctioned Grant |
|---------------------|---|--|---------------------|
| UPES/R&D/200918/16 | A Study on Potential Geographical Indications of Uttarakhand | Ms. Charu Shrivastava Ms. Parul Sinha | 1,50,000 |
| UPES/R&D/200918/17 | Occupational Interest Schedule for Law Students(OIS-LS) | Dr. Juhi Garg Dr. Tabrez Ahmad | 1,00,000 |
| UPES/R&D/200918/18 | Integrating the framework of Sustainable Development Goals in Law School | Dr. Vijay Kumar Singh Mr. Prakhar Ganguly | 1,50,000 |
| UPES/R&D/200918/119 | Trade, Energy and climate change :- "Integrated Legal and Policy issue for India" | Mr. Amit Singh | 1,00,000 |
| Total | | | 5,00,000 INR |



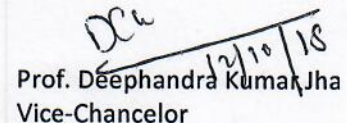
Dr. Debasis Poddar
Assistant Dean R&D



Dr. J. K. Pandey
Associate Dean R&D



Prof. Kamla Bansal
Dean Academic & Innovation



Prof. Deependra Kumar Jha
Vice-Chancellor

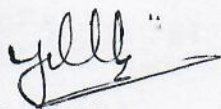
Minutes of SEED Research Grant Committee Meeting
School of Business
University of Petroleum & Energy Studies, UPES
4th October, 2018

SEED grant provide all necessary financial support and basic facilities to check the feasibility of new research ideas. This grant promotes participation of faculty members of different schools as Principle Investigator for various sponsored projects/schemes to carry out basic research. Our committee members evaluate the proposals and applicants are notified of funding approximately two weeks after the presentation. SEED grant recipients are expected to submit a proposal for external funding. In the meeting conducted 2 proposals of **INR 2,50,000** were submitted under SEED grant and after the final evaluation and presentations 2 proposals with total grant of **INR 2,50,000** were approved for research to our faculty members.

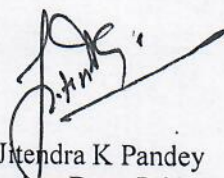
The review panel recommended buy the office of Associate Dean- Research & Development had the following members:

1. Dr. Deependra K Jha
2. Dr. Kamal Bansal
3. Dr. Jitendra K Pandey
4. Dr. Tarun Dhingra

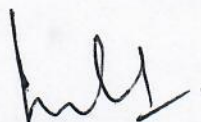
| Project Code | Title | Investigators | Sanctioned Grant |
|---------------------|--|---|---------------------|
| UPES/R&D/3011218/01 | Adopting clean and renewable energy to mitigate climate change in India | Dr Narendra Dalei Dr Chandra Prakash Dr Yunus Bhatt | Rs. 1,50,000 |
| UPES/R&D/011218/02 | Developing Social Innovation framework for rural Uttarakhand: An empirical study | Dr Rajesh Tripathy Swati Gupta | Rs. 1,00,000 |
| TOTAL | | | Rs. 2,50,000 |



Dr. T. Joji Rao
Assistant Dean R&D- SOB



Dr. Jitendra K Pandey
Associate Dean R&D



Prof. Kamal Bansal
Dean Academic & Innovation



Prof. Deependra Kumar Jha
Vice Chancellor

UNIVERSITY OF PETROLEUM & ENERGY STUDIES

SEED RESEARCH GRANT COMMITTEE MEETING

| | |
|----------------|------------------------------|
| SCHOOL: | School of Engineering |
| DATE: | 23-01-2019 |

| | |
|---------------|--|
| VENUE: | Chancery Board Room, Energy House |
| TIME: | 10:30 AM. |

MINUTES

1. Record of Attendance:

The review panel recommended by the office of Associate Dean - Research & Development had the following members:

| S. No. | Expert Panel Member | Designation |
|--------|---------------------------|--|
| 1 | Dr. Suresh Kumar | Professor and Dean, SoE |
| 2 | Dr. Jitendra Kumar Pandey | Professor and Head R&D |
| 3 | Dr. Sanjeev Kumar | Professor and Associate Dean - Applied Sciences and Humanities |
| 4 | Dr. Syed Mohammad Tauseef | Associate Professor and Assistant Dean R&D (SoE) |
| 5 | Dr. Sunil Kumar Khare | Professor and Head of Department Petroleum Engineering |
| 6 | Dr. Piyush Dua | Professor and Faculty In Charge, Physics |
| 7 | Dr. Ashoutosh Panday | Professor, Department of Chemical Engineering |
| 8 | Dr. Pankaj Kumar | Professor, Department of Chemistry |
| 9 | Dr. Piyush Kuchhal | Professor, Department of Physics |
| 10 | Dr. Rajnish Garg | Professor, Department of Mechanics |
| 11. | Dr. Santosh Dubey | Professor, Department of Physics |

Leave of absence was granted to the following members who could not be present due to other commitments.

1. Dr. Pankaj Kumar, Professor, Department of Chemistry

2. SEED Participants:

| S.No | PI | Title |
|------|-------------------------|--|
| 1. | Mr. Prashant Shukla | Segregation of Mixed Municipal Solid Waste Through Wet Density Media Separation Process |
| 2. | Mr. Durga Prasad Panday | Scour Protection around Bridge Pier in rivers of Uttarakhand |
| 3. | Mr. M. Vijai Kishore | To propose a new methodology in road layers by enhancing the strength of subgrade. |
| 4. | Ms Tabassum Abbasi | Development of environmental indices to catalyze public participation in controlling pollution |



| S.No | PI | Title |
|------|------------------------------|--|
| 5. | Dr. Rajeev Gupta | Development of nanostructured super hydrophobic anti dust coating to make self-sustainable solar energy. |
| 6. | Jhalak | Synthesis and characterization of wear-resistant Ni-based composite and nanocomposite coatings through electrodeposition. |
| 7. | Dr. Shailesh Kumar | Application of Nano Composites to Enhance the Flow Properties of Indian Heavy/Waxy Crude Oils for Pipeline Transportation |
| 8. | Dr. Upendra Singh Yadav | Experimental Study of Nano-composite Polymer Gel for Water Shutoff in Petroleum Reservoir Rock |
| 9. | Dr.Nilanjana Banerjee | Design and optimization of a continuous three –phase slurry reactor for biomass solar pyrolysis |
| 10. | Dr. Srinivasa Reddy Devarapu | Symbiotic treatment of oil and gas produce water using municipal wastes |
| 11. | Dr. Nirlipta P.Nayak | Sustainable utilization of iron ore slime-A potential threat to ecosystem |
| 12. | Dr. Ajay kumar | Solid reductant selective catalytic reduction system and composite regeneration particulate filtration system for exhaust emission control |
| 13. | Mr. Akshi K. Singh | Comparative study and safety analysis of residential air conditioning by optimizing the characteristic of existing coolant in controlling the environmental impact. |
| 14. | Dr. Praveen K. Ghodke | Design, Development and demonstration of solar thermal based lightening system |
| 15. | Dr.Annapurna Boruah | Experimental investigation of inhibition and adsorption mechanism of shales by developing linear expansivity and adsorption desorption set up for enhanced shale gas recovery |
| 16. | Dr Sunil Khare | Petrogenesis of Himalayan mafic dykes and its implications to crustal evolution, orogeny and Metallogeny along Himalayan convergent margin |
| 17. | Akash Gupta | Development of Wearable Robotic Exoskeleton for Human upper- limb rehabilitation with redundant forearm pronation and supination using micro-ratchet mechanism for shoulder link adjustment. |
| 18. | Harshit Shukla | Development of sub scale rocket motor test bed for green propellant testing |
| 19. | Dr. Vamshikrishna Domala | Hydrodynamic and vortex induced motion(VIM) analysis of a moored semi-submersible for wind turbine applications |
| 20. | Dr. Deepak Kumar | Effect of Nano additives shape, size and concentration on the tribological behaviour of biolubricant. |

3. Reviewers Comments:

| S. No. | PI | Title | Summary of reviewer(s) comments |
|--------|-------------------------|---|---|
| 1. | Mr. Prashant Shukla | Segregation of Mixed Municipal Solid Waste Through Wet Density Media Separation Process | Reviews recommended acceptance of the project and advised that the scope for the project is expanded to include cost and energy analysis. |
| 2. | Mr. Durga Prasad Panday | Scour Protection around Bridge Pier in rivers of Uttarakhand | Project recommended for approval with the advice to revise the timeline. |
| 3. | Mr. M. Vijai Kishore | To propose a new methodology in road layers by enhancing the strength of subgrade. | Project accepted . Objectives 2 and 3 to be merged and advice to restrict the study to 1-2 type of weak soil and estimation of quantitative strength of the soil(s). |

| S. No. | PI | Title | Summary of reviewer(s) comments |
|--------|------------------------------|---|---|
| 4. | Ms Tabassum Abbasi | Development of environmental indices to catalyze public participation in controlling pollution | Accepted. Budget component to be finalized based on availability of current facility at UPES. |
| 5. | Dr. Rajeev Gupta | Development of nanostructured super hydrophobic anti dust coating to make self-sustainable solar energy. | Reviewers recommended that the project is revised and the novelty of the project is clearly established. |
| 6. | Jhalak | Synthesis and characterization of wear-resistant Ni-based composite and nanocomposite coatings through electrodeposition. | Accepted. A good project with quantifiable outcomes. |
| 7. | Dr. Shailesh Kumar | Application of Nano Composites to Enhance the Flow Properties of Indian Heavy/Waxy Crude Oils for Pipeline Transportation | Accepted. A good project with quantifiable results that would lead to good publications. |
| 8. | Dr. Upendra Singh Yadav | Experimental Study of Nano-composite Polymer Gel for Water Shutoff in Petroleum Reservoir Rock | Not Approved. The team of researchers was same as for project titled "Application of Nano Composites to Enhance the Flow Properties of Indian Heavy/Waxy Crude Oils for Pipeline Transportation" hence not considered for this cycle. |
| 9. | Dr. Nilanjana Banerjee | Design and optimization of a continuous three-phase slurry reactor for biomass solar pyrolysis | Accepted with the recommendation to revise the timeline to complete the first phase of the project in 12 months. |
| 10. | Dr. Srinivasa Reddy Devarapu | Symbiotic treatment of oil and gas produce water using municipal wastes | Approved subject to submission of project completion report (PCR) for ongoing project granted under SEED scheme. |
| 11. | Dr. Nirlipta P. Nayak | Sustainable utilization of iron ore slime-A potential threat to ecosystem | Approved with the recommendation to perform characterization as soon as possible and procure equipment capable of producing good results. |
| 12. | Dr. Ajay kumar | Solid reductant selective catalytic reduction system and composite regeneration particulate filtration system for exhaust emission control | Accepted subjected to submission of PCR of ongoing projects. |
| 13. | Mr. Akshi K. Singh | Comparative study and safety analysis of residential air conditioning by optimizing the characteristic of existing coolant in controlling the environmental impact. | Reviewers recommended that revision of the project. |
| 14. | Dr. Praveen K. Ghodke | Design, Development and demonstration of solar thermal based lightening system | Approved subject to submission of PCR for the ongoing. |
| 15. | Dr. Annapurna Boruah | Experimental investigation of inhibition and adsorption mechanism of shales by developing linear expansivity and adsorption desorption set up for enhanced shale gas recovery | Approved subject to submission of PCR for the ongoing project. |




| S. No. | PI | Title | Summary of reviewer(s) comments |
|--------|--------------------------|--|--|
| 16. | Dr Sunil Khare | Petrogenesis of Himalayan mafic dykes and its implications to crustal evolution, orogeny and Metallogeny along Himalayan convergent margin | Reviewers recommended that the project is revised and represented . |
| 17. | Akash Gupta | Development of Wearable Robotic Exoskeleton for Human upper- limb rehabilitation with redundant forearm pronation and supination using micro-ratchet mechanism for shoulder link adjustment. | Accepted with the recommendation to revise the budget. Reviewers also advised that simulations are done to establish the feasibility of the proposed project. |
| 18. | Harshit Shukla | Development of sub scale rocket motor test bed for green propellant testing | Approved subject to getting the clearance from legal/competent authority. |
| 19. | Dr. Vamshikrishna Domala | Hydrodynamic and vortex induced motion(VIM) analysis of a moored semi-submersible for wind turbine applications | Accepted. Reviewers also recommended that the objective may be expanded to include vortex studies also. |
| 20. | Dr. Deepak Kumar | Effect of Nano additives shape, size and concentration on the tribological behaviour of biodiesel. | Approved subject to submission of PCR for the ongoing project. |

Committee members evaluated the proposals for the quality and research output in terms of publication, patents and for the prospect of external funding. Applicants were given 15 minutes each to present their research proposal. In the meeting conducted on **23rd January 2019**, for SoE 20 proposals of ₹ 64,37,890 were submitted under SEED grant and after final evaluation 11 proposals with total grant of ₹ 25,60,000 were approved. Reviewers recommended revision of three projects and one project was further recommended for consideration in the next cycle. Five projects were approved subject to submission of project completion report for the ongoing projects granted earlier under the SEED scheme.

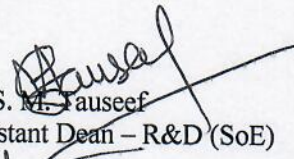
List of approved project proposals:

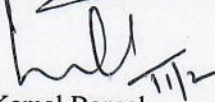
| Project Code | Title | Investigators | Sanctioned Grant(₹) |
|----------------------|---|-------------------------|---------------------|
| UPES/R&D/07022019/01 | Segregation of Mixed Municipal Solid Waste Through Wet Density Media Separation Process | Mr. Prashant Shukla | 1,70,000 |
| UPES/R&D/07022019/02 | Scour Protection around Bridge Pier in rivers of Uttarakhand | Mr. Durga Prasad Panday | 3,25,000 |
| UPES/R&D/07022019/03 | To propose a new methodology in road layers by enhancing the strength of subgrade. | Mr. M. Vijai Kishore | 75,000 |
| UPES/R&D/07022019/04 | Development of environmental indices to catalyze public participation in controlling pollution | Ms Tabassum Abbasi | 2,50,000 |
| UPES/R&D/07022019/05 | Synthesis and characterization of wear-resistant Ni-based composite and nanocomposite coatings through electrodeposition. | Ms. Jhalak | 1,80,000 |

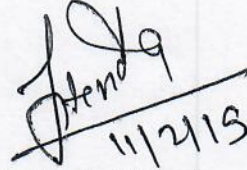


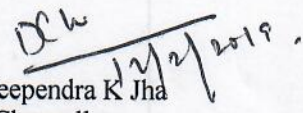
| | | | |
|----------------------|---|--------------------------|------------------|
| UPES/R&D/07022019/06 | Application of Nano Composites to Enhance the Flow Properties of Indian Heavy/Waxy Crude Oils for Pipeline Transportation | Dr. Shailesh Kumar | 1,80,000 |
| UPES/R&D/07022019/07 | Design and optimization of a continuous three-phase slurry reactor for biomass solar pyrolysis | Dr. Nilanjana Banerjee | 1,50,000 |
| UPES/R&D/07022019/09 | Sustainable utilization of iron ore slime-A potential threat to ecosystem | Dr. Nirlipta P. Nayak | 3,00,000 |
| UPES/R&D/07022019/11 | Development of Wearable Robotic Exoskeleton for Human upper-limb rehabilitation with redundant forearm pronation and supination using micro-ratchet mechanism for shoulder link adjustment. | Akash Gupta | 2,00,000 |
| UPES/R&D/07022019/12 | Development of sub scale rocket motor test bed for green propellant testing | Harshit Shukla | 3,50,000 |
| UPES/R&D/07022019/13 | Hydrodynamic and vortex induced motion(VIM) analysis of a moored semi-submersible for wind turbine applications | Dr. Vamshikrishna Domala | 3,80,000 |
| Total | | | 25,60,000 |

Approved By:


 Dr. S. M. Fauseef
 Assistant Dean – R&D (SoE)


 Dr. Kamal Bansal
 Dean-AD&I


 Dr. Jitendra K Pandey
 Associate Dean – R&D


 Dr. Deependra K Jha
 Vice Chancellor

UNIVERSITY OF PETROLEUM & ENERGY STUDIES

SEED RESEARCH GRANT COMMITTEE MEETING

| | |
|----------------|------------------|
| SCHOOL: | Computer Science |
| DATE: | 30-01-2019 |

| | |
|---------------|---------------------|
| VENUE: | Block-1, Board Room |
| TIME: | 10:40 AM. |

MINUTES

1. RECORD OF ATTENDANCE: Committee Members Present:

| No. | NAME | DESIGNATION |
|-----|-------------------------|----------------------------|
| 1 | Dr. Manish Prateek | Professor, Dean |
| 2 | Dr. Kiran K Ravulakollu | Associate Prof, Asst. Dean |
| 3 | Dr. Neelu J Ahuja | Professor |
| 4 | Dr. Deepshika Bhargava | Professor |
| 5 | Dr. Rajiv Tiwari | Associate Professor |
| 6 | Dr. Ravi Gunupuru | Assistant Professor – SS |

Leave of absence was granted to the following members who could not be present due to other commitments.

| No. | NAME | DESIGNATION |
|-----|-------------------|-----------------|
| 1 | Mr. Pravin Dagdee | Industry Fellow |

2. SEED Evaluation:

1. Reviewers Comments Summary:

| S.No. | Title | Comments |
|-------|---|--|
| 1 | Mid-air writing input for Interactive Response | Accepted for conduction of the project, subjects to validating the breach of proprietary products copyright policy |
| 2 | Criminal identification and crime prediction system using face recognition | Accepted by utilizing the campus resources like CCTV camera and thereby acquire the data feeds for validating the model. Needs revising the budget accordingly |
| 3 | Smart ECG monitoring system to diagnose cardiovascular disease | Quantification & validation of accuracy is a challenge. Budget should be provided in 2-phases |
| 4 | River water pollution detection using microfluidic based paper analytical device using geospatial and temporal analysis | Project has scope for patentable product. However, investigations need to be strengthened and should utilize in-house resource for completion of work within the given time line. |
| 5 | Assistive cane for visually impaired persons | PI should aim for prototype development only as proof of concept. For a complete product development, should target public funding agency |
| 6 | Design and Implementation of Security Accessory against Child Harassment | Should increase the scope of project to a greater extent and quantification of security is a challenging task. Hence efforts should be concentrated on modelling the system for greater efficiency |
| 7 | Smart Indoor Pollution Checker | PI lacks validation of the work, on the other hand CO-PI seems strong. However, the scope should be narrowed to a feasible and potential-state then only can conduct. |
| 8 | Mobi – Garage | Team seems to be over enthusiastic without validation and optimal use of technology. Usage of open-source is recommended. Project should be conducted only for feasible study and prototype. It should not be just an 'app'. |

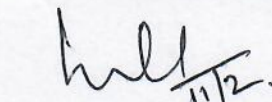
| | | |
|----|---|--|
| 9 | Design, development and analysis of lightweight group authentication protocols for Industry 4.0 network | PI is not strong enough technically to conduct the project. Since it hampers the completion of project, hence concluded to be rejected for grants. |
| 10 | Machine learning approach to classification of phases and crystal structure from steel dataset | The project proposal critically stands on dataset dependent. It is necessary to validate the model on open source dataset as initial phase to initiate and continue to acquiring the dataset from steel industries |

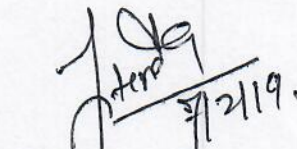
Committee members evaluated proposals for quality and research output in terms of publication and also in the prospect of external funding. **10** proposals of ₹ **16,78,850** were submitted under SEED grant and after final evaluation 9 proposals with total grant of ₹ **5,35,000** were approved.

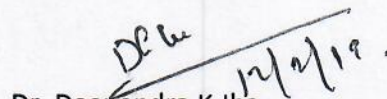
| Project Code | Title | Investigators | Sanctioned Grant (₹) |
|----------------------|---|---|----------------------|
| UPES/R&D/300119/11 | Mid-air writing input for Interactive Response | Dr. Lalit Kane, Dr. Piyush Chauhan, Dr. Aradhana K Singh | 60,000 |
| UPES/R&D/300119/12 | Criminal identification and crime prediction system using face recognition | Shahina Anwarul, Susheela Dhaiya | 50,000 |
| UPES/R&D/300119/13 | Smart ECG monitoring system to diagnose cardiovascular disease | Dr. Shamik Tiwari, Mr. Varun Sapra, Dr. Anurag Jain | 85,000 |
| UPES/R&D/300119/14 | River water pollution detection using microfluidic based paper analytical device using geospatial and temporal analysis | Mr. Bikram Pratim Bhuyan, Dr. Seim Timung | 1,00,000 |
| UPE,KS/R&D/300119/15 | Assistive cane for visually impaired persons | Mr. Bhupendra Singh, Dr. Monit Kapoor | 50,000 |
| UPES/R&D/300119/16 | Design and Implementation of Security Accessory against Child Harassment | Prof. Deepshika Bhargava | 20,000 |
| UPES/R&D/300119/17 | Smart Indoor Pollution Checker | Dr. Rashmi Sharma, Mr. Gunjan Chhabra, Mr. Vidyanand Mishra | 30,000 |
| UPES/R&D/300119/18 | Mobi – Garage | Mr. Ankit Vishnoi, Ms. Tripti Mishra | 40,000 |
| UPES/R&D/300119/19 | Machine learning approach to classification of phases and crystal structure from steel dataset | Mr. Amitava Choudhury, Dr. Kiran K Ravulakollu | 1,00,000 |

Approved By:


 Dr. K. K. Ravulakollu 7/2/19
 Assistant Dean – R&D (SoCS)


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 Dean-AD&I


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 Associate Dean – R&D


 Dr. Deependra K Jha
 Vice Chancellor