

SODH 2019 – List of sanctioned Projects

S. No	Project Code	Title of the project	Investigator(s) - student	Mentor(s) - faculty
1	RISE/2019EE001	Solar powered USB charging stations	Antima Kanwar	K. Raghavan
2	RISE/2019EE002	Low cost design of air purification system for indoor pollution	Shubham Dhijman	Deepak Kumar, Rupendra Pachauri
3	RISE/2019EE003	Automatic alert generating medicine box using IoT	Vaibhav Mathur	Sushabhan Choudhury, Anirban Chowdary
4	RISE/2019EE004	Automatic inspection and live monitoring system for fire extinguishers	Aakarsh Kislay, Sakshi Shrivastav	Vinay Chowdary
5	RISE/2019EE005	Interactive product display unit	Aakarsh Kislay, Abhishek Raturi, Ujjawal Dwivedi	Anirban Chowdary, Sushabhan Choudhury
6	RISE/2019EE006	Smart voting system for brands	Aditya Shukla, Hari Yadav	Sushabhan Choudhury, Anirban Chowdary
7	RISE/2019EE007	Automated hydraulic power chair for disabled	Uday Singh, Arohi Saxena	Prashant Shukla, Vinay Chowdary
8	RISE/2019EE008	Smart walking stick for visually challenged people	Shikhar Saxena, Vishal Singh	Vinay Chowdary
9	RISE/2019EE009	Goods tracking system using IoT and WSN	Aishwary Rastogi, Rahat Sharma	Sushabhan Choudhury, Vinay Chowdary
10	RISE/2019EE010	Advance control of two wheeler vehicle ignition through hi-tech helmet and finger print authentication	Saksham Pradhan, Vivek Chauhan	Abhinav Sharma, Rupendra Pachauri
11	RISE/2019EE011	Implementation of electronic radiation sensor in rural area	Sakshi Uniyal, Sahil Choudha	Ranjan Mishra
12	RISE/2019EE012	Third eye of the soldier	Kadir, Labhansh Jain	Arpit Jain, Vinay Chowdary

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13	RISE/2019AS001	Preparation of Low Cost Ceramic membrane for cleaning drinking water	Abhishek Joshi, Md Irfan	Dr. Mamta Latwal, Dr. Shefali Arora
14	RISE/2019AS003	Biogas purification system	Prabhash Kumar Sinha, Prashant Kumar	Dr. Shefali Arora, Dr. V Chintala
15	RISE/2019AS007	Controlling the emission from plastic oil by using auto catalysis	Jujjarapu G. Naidu, Sailesh Pilla	Dr. Sanjay Kumar, Dr. G Praveen Kumar
16	RISE/2019AS010	Mechanized device for eliminating residual coal in wagon tipplers	Ayushmann Acharya, Aviral Pandey, Akshay Tomar	Dr. Santosh Dubey, Dr. Santosh K. Joshi
17	RISE/2019AS011	Development of Omni-phobic coating to reduce the wax deposition and corrosion in oil pipelines during the transportation of crude oil	Siddharth Verma, Kamaldeep Singh Sodhi	Dr Rajeev Gupta, Dr Shefali Arora
18	RISE/2019AS013	Mechanized system for monitoring gap between main rail and switch rail	Aviral Pandey, Akshay Tomar, Ayushmaan Acharya	Dr. Santosh Dubey, Mr. Natraj Mishra
19	RISE/2019AS005	Design of novel hybrid nanomaterials for photocatalysis and energy storage applications: experimental and computational approach	Shivani Rajput, Vernika Tyagi	Dr. Abhishek Kumar Mishra, Dr. Tapas Goswami
20	RISE/2019ChE002	A novel method of producing furfural from biomass using a magnetic catalyst	Saransh Katiyar, Dewansh	Dr. Nishu Goyal
21	RISE/2019ChE003	Extraction and recovery of oil over oil spills	Neha Saxena, Numair Shirqhi Mohammed	Dr. Pranava Choudhari, Mr. Amit Kumar Thakur
22	RISE/2019ChE004	Development of Zeolite adsorbents for the removal of Methylene Blue Dye from aqueous stream	Ishita Juneja, Saransh Katiyar	Dr. G. Gopalakrishnan
23	RISE/2019ChE005	Study of polymer flooding in porous medium	Shashank Tiwari, Ambikesh Tiwari, Sarthak Tripathi	Dr. Jagadeeshwar Kodavaty, Ms. Rose Havilah Pulla
24	RISE/2019ChE008	To increase shelf life of bio oil: Alternative to non-renewable energy	Chirag Singh, Neha Saxena	Mr. Bomma Ramanjaneyulu, Dr. Ghodke Praveen Kumar
25	RISE/2019ChE009	Bio degradable starch based fire retardant	Ritesh Joshi, Ritesh Gothiya	Dr. Pranava Choudhari, Dr. Rahul Kumar
26	RISE/2019ChE010	Synthesis of Pillared clay catalyst to produce higher hydrocarbon from municipal solid waste	Shravya Mishra, Trisha Chakrabarti	Mr. Bomma Ramanjaneyulu, Dr. Ghodke Praveen Kumar
27	RISE/2019ChE011	Equilibrium and kinetic study of Malachite green dye on activated carbon using electro-adsorption column	Soraha Kulshreshtha, Varchaswa Dwivedi	Dr. Murali Pujari, Mr. Bomma Ramanjaneyulu

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28	RISE/2019ChE015	Production of bio ethanol from micro-algae	Anshika Annu, Harsimranpreet Singh	Dr. Seim Timung
29	RISE/2019ChE017	Catalyst development for hydrothermal liquefaction of liquid waste into bio fuels	Bhavish Kumar Reddy Koteru, Praveen Kumar B.	Dr. G. Gopalakrishnan
30	RISE/2019ChE019	Determination, optimization and validation of kinetics for biomass solar pyrolysis	Abhishek Tiwari, Anurag Rajput	Dr. Nilanjana Banerjee, Dr. P. Vijay
31	RISE/2019HSE001	Development of smoke detector & fire alarm for physically challenged(deaf and blind)	Ujjawal Gupta, Sameep Khandelwal	Dr. Bikrama Prasad Yadav
32	RISE/2019HSE002	Design and development of fire ball throwing machine	Surajbhan Singh, Siddhant Sharma	Venkata Krishna Kanth, Deepak Bharadwaj
33	RISE/2019HSE004	developing and testing fire resistant material from house hold system	Nakul Sharma, Vaagish Sharma, Akshay Nair	Dr. Bikrama Prasad Yadav, Dr. S.M. Tauseef
34	RISE/2019HSE005	Autoaiming fire source detecting system, restraining & suppressing system based on thermal imaging	Neha Chaudhary, Vaishnavi Sharma, Uday Veer Mittal	Akshi Singh, Ravi Tomar, Roushan kumar
35	RISE/2019HSE006	Design and develop a cooling device based on peltier effect	Makrand Mishra, S. M. Adnan	Prasenjit Mondal
36	RISE/20019HSE009	Pilot scale implementation and bench scale refinement studies on novel bioreactor SHEFROL for rapid efficient inexpensive and green treatment of waste mater at UPES ad elsewhere	Rohot Sharma, Sagar Kapoor	Dr. S.M. Tauseef, Ms Tabassum Abbasi
37	RISE/20019HSE0010	Assesing the performance of glow in the dark concrete	Aashi Deshpande, Shivam Dwivedi	Dr. N.A. Siddiqui, Dr. Kanchan Bhahukandi, Dr. Shifali Arora,

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38	RISE/2019 HSE0012	Computer assessment tool for analysis of indoor air pollution and developing mitigation measure due to photo copy machine	Saaransh Chawla, Akash Rai, Amarjeet Singh	Abishek Nandan, Prasanjit Mondal
39	RISE/2019 HSE0014	An approach to achieve sustainability in campus through a solid waste management system	Vaibhav Bhargava, Harshita Mishra	Madhuben Sharma, Tabassum abbasi
40	RISE/2019 HSE0020	Producing commercial products from stevia leaves.	J.P. Kaushik, Vemulapalli Teja	Dr. Kanchan Bahukhandi, Dr. Shifali Arora
41	RISE/2019PE ES003	Measuring clay swelling continuously using LVDT setup over a given period of time	Udit Srivastava, Ramji Tripathy	Pritish Barman
42	RISE/2019PE ES004	Developing Bio Diesel based Drilling fluid to replace conventional oil based mud to reduce adverse environmental impact	Arun R, Kaushik Nayak	Dr. Mandira Agarwal, Satyajit Chowdhury
43	RISE/2019PE ES007	Investigate hydrodynamics of multiphase dispersed granular flow to determine carrying capacity of drilling fluid in turbulent annular flow fields	Ayush Sharma, Devansh Juneja	Satyajit Chowdhury
44	RISE/2019PE ES008	Flow improvement of Indian waxy crude oils for transportation through pipelines	Bipasha Banerjee, Nitya Srivastava	Dr. Shailesh Kumar, Dr. Pushpa Sharma
45	RISE/2019PE ES009	Self-sustainable soil-less farming	Nandini Rajput, Devansh Bartwal	Dr. S. K Saha, Satyajit Chowdhury

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46	RISE/2019PE ES013	Pipeline Pilferage detection and locating the Pilferage location	Saurabh Rai, Alok Kumar Mishra	Dr. Pushpa Sharma, Ashish Agarwal
47	RISE/2019PE ES015	Synthesis and testing of nano-based polymeric surfactant displacing fluid for enhancing residual oil recovery	Udvas Dasgupta, Nilesh Kumar Jha	Nitu Kumari Thakur, Satyajit Chowdhury
48	RISE/2019PE ES017	Production of biofuel using microbial algae and subsequently studying the effect of atmospheric variables on the lipid content	Vaibhav Narain, Yash Bansal	Dr. Pushpa Sharma
49	RISE/2019PE ES018	Airify: Transforming waste to effectively reduce emissions	Manan Manoj Adlakha, Manu Chaturvedi	Saurabh Mittal
50	RISE/2019PE ES019	Recovery of iron values from red mud	Omi Thakre, Mohammad Aarish	Dr. N. P Nayak
51	RISE/2019PE ES020	SMART Speed Sensitive Bumpers using nano thickening fluid	Arpit Kumar Gupta, Zenitha Aswal	Satyajit Chowdhury
52	RISE /2019C IVIL01	Concrete Blocks with demolition waste and Shredded Plastic	Aparna Kumari and Gajala Anjum	Mopidevi Vijay Kishore
53	RISE /2019C IVIL02	Structural Enhancement of concrete using basalt fibre	Anuj Singhal and Adarsh Kumar	Susanta Sethy
54	RISE /2019C IVIL03	Economical solution for water purification:Natural Extracts	Raja and Ayush Sahu	Rahul Silori
55	RISE /2019C IVIL04	Intelligent and Embedded Speed breaker	Aditya Raj & Ishank Mishra	Mopidevi Vijay Kishore

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56	RISE /2019C IVIL05	Effect of domestic waste water on soil properties and its suitability assessment for Irrigation	Abdul Hadi & Aayush Goel	Rahul Silori
57	RISE /2019C IVIL06	Improvement of roads using plastic wastes and rubber tyres	Manaswini Naugain & Shubham Agarwal	Anand Singh
58	RISE /2019C IVIL07	Electricity Generation from soil in microbial fuel cell: An economical Approach	Vidhi Singh and Aditi Mishra	Durga Prasad Pandey & Rahul Silori
59	RISE /2019C IVIL08	Behaviour of concrete using polypropylene fibers	Anubhav Kumar and Ankit Yadav	Susanta Sethy
60	RISE /2019C IVIL09	Junction Area Improvement Schemes (JATIS) for enhanced mobility and Safety	Prateek Negi & Vivek Kumar	Anand Kumar Singh
61	RISE /2019C IVIL10	Suitability assessment of synthetic and natural coating for pipe leakage.	Yamini Purohit & Kalpna Joshi	Durga Prasad Pandey & Rahul Silori
62	RISE /2019C IVIL11	Utilisation of sugarcane bagasse ash and rice husk ash as a supplementary cementitious material to produce low-cost ecofriendly concrete.	V. Sai Santhosh & Jigyashu Anand	A N Shankar & Susanta Sethy
63	RISE /2019 MECH 01	Gas Jet Cavitation in Under Water Vehicles	Arya Kar, Ayush Vyas, Ashutosh Bhardwaj	Dr. Ashish Karn , Dr. Abhay Kumar
64	RISE /2019 MECH 04	Novel surface aerators for hydropower impoundments for water quality enhancement	Rohit Mahawar, Priyanshu Dwivedi, Dushyant Singh	Dr. Abhay Kumar, Dr. Ashish Karn

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65	RISE /2019 MECH 05	Production of eco-friendly products such as disposable plates and cups from agricultural waste	Amit Srivastava, Arpit Shankar	Dr. V Chintala
66	RISE/2019MECH06	DESIGN and FABRICATION OF AN AUTOMATED PNEUMATIC SHEET METAL CUTTING MACHINE	SHARAD WALIA	SANTOSH KURRE
67	RISE/2019MECH08	To develop and fabricate the set up for Transient Liquid phase bonding.	Mansi Srivastava, Sharad	Avani Upadhyay
68	RISE/2019MECH09	Development of Brown Gas Generator for HHO gas Supplementation in CI Engines	Sahil Tiwari, Vasu Vashishtha, Upendra Singh Bugalia, Shakshat Thakre	Dr. Ajay Kumar, Mr. Caneon Kurien
69	RISE/2019MECH11	Numerical and Experimental Analysis of PCM heat exchanger on domestic solar water heater	Swapnil Tiwari, Arun Kumar, Utkarsh, Kanishk	Mr. Sachin Sharma
70	RISE/2019MECH12	Futuristic Full Helmet with Improved Road Vision	Amanat Ali, Vishwas Gupta	Dr. Girish Chandran
71	RISE/2019MECH13	Design and development of fuel adulteration detection system for automotive vehicles	Yashnit Sethi, Kunal rohilla	Dr Chintala, Prashant Shukla
72	RISE/2019MECH14	Design and development of a Natural Air Ventilation System for Vehicles	Ishu Pattanayak, Hardik Arora	Swapnil Bhurat, Dr. Chintala

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73	RISE/2019MECH15	Design and development of a cost efficient acetylene engine for automobiles	Harsh Vardhan, Harnoor Siddhu, Ishan Deopal	Narain Khatri, Dr. Chintala
74	RISE/2019MECH16	Development and analysis of plasto-ash brick	Archik Goswami, Sanskar Mishra	Prashant Shukla, Ramkunwar, P Ghodke
75	RISE/2019MECH17	GPS enabled speed analyser for academic institution governed transportation	Vaibhav Goyal	Rupendra Pachuri; Electronics
76	RISE/2019ASE001	Design and Fabrication of Vertical Axis Airborne Wind Turbine	Aaayushi Bohrey, Hrishita Soni	Dr Rajesh Yadav, Mr. Ramesh Kumar
77	RISE/2019ASE003	Design and Fabrication of Solar Propulsion System	Anubha Tyagi, Kunal Garg	Mr. Ramesh Kumar
78	RISE/2019ASE006	Design and Fabrication of Zero Head Hydraulic Turbine	Sengar R. P. Singh, Sidhi Shajan, Vanshika Katyal	Mr. Ramesh Kumar
79	RISE/2019ASE007	Design and Development of 3D mapping and Collision avoidance system	Arpit Parashar, Mahima Gupta	Mr. M. Raja, Mr. Zozimus Labana
80	RISE/2019ASE009	Design and Implementation of a Solar Powered fixed wing UAV using Super-capacitor	Aman Chandak, Kartikay Singh	Mr. M. Raja, Dr. Gurunadh Velidi
81	RISE/2019ASE010	Flapping Wing UAV Ornithopter	Harsh Goel, Kounik Bhattacharya	Mr. Harshit Shukla
82	RISE/2019ASE012	Design and Fabrication of Bladeless Windmill	Arpit Verma, Vidhi Yadav	Dr Rajesh Yadav