

Selected Projects For RISE 2017 (Category 1)

Project under Chemical Engineering Group

S.NO.	PROJECT ID	Title of the proposed RISE project	Applicants	Mentors
1	R201701	Investigation, Characterization and performance evaluation of biosynthesized silver nano-particles from <i>M. pudica</i> for various therapeutic applications	Nikita Goel, B.Tech. Chemical , Satyam Dixit, B.Tech. Chemical	Dr. M. Gopinath, Mr. K.S Rajmohan
2	R201702	Effect of surfactants on dead end microfiltration of oil-water emulsions using low cost ceramic membranes	ABHISHEK KUMAR, B.Tech. APE-GAS, ANKIT JANGRA, B.Tech. APE-GAS	CH VARAPRASAD, MURALI PUJARI
3	R201703	Fast pyrolysis of elephant grass in fixed bed reactor: performance characteristics effect of operating conditions on product yields.	NITISH KUMAR CHOUDHARY, B.Tech. APE-GAS, Parth Sharma, Rishika Narang, B.Tech. APE-GAS	Dr. M Gopinath, Mrs. Rose Havilah Pulla
4	R201704	Preparation of green nanocatalysts for clean drinking water	Amit Kumar, B.Tech. Chemical , Harsh Ashara, B.Tech. Chemical	Dr. M. Gopinath, Mr. K.S. Rajmohan
5	R201705	novel photocatalytic catalyst for clean drinking water	Utkarsh, B.Tech. APE-GAS, Prahasth Bhutani ,Rishav Shrivastava, B.Tech. APE-GAS	Dr M. Gopinath , Mr B. Ramanjaneyulu
6	R201706	Effective physical and chemical treatment of <i>Lantana camara</i> for the one spot high gravity fuel production process	Shreyanshu Agrawal, B.Tech. Chemical , Tanya Kathuria, B.Tech. Chemical	Dr M. Gopinath , Dr. Rose Havilah Pulla
7	R201707	Characterization, extraction of secondary metabolite from <i>Perilla frutescens</i> for therapeutic additives “ A phyto-genic approach	Monamie Basu, B.Tech. Chemical , B.M. Vishal, B.Tech. Chemical	Dr. Margavelu Gopinath, Dr. Rose Havilah Pulla

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S.NO.	PROJECT ID	Title of the proposed RISE project	Applicants	Mentors
8	R201708	Synthesis and comparison of silver nanocomposites from sodium bicarbonate and clove bud flower extract for Cancer treatment	Shanmathi Sridharan, B.Tech. Chemical , Vipasha Bihone, B.Tech. Chemical	Dr. M. Gopinath, Mr. KS. Rajmohan
9	R201709	DESIGN AND fabrication OF A lab scale FIXED BED REACTOR TO CONVERT BIOMASS INTO FUEL	amogh tripathi, B.Tech. Chemical , Sagar Gulati, B.Tech. Chemical	Mrs Leena Kapoor,
10	R201710	Utilization and capturing of CO ₂ using monoethanolamine entrapped rotating fixed bed reactor – a novel approach	Ashutosh Srivastava, Amit Bisht, Anmol Masand, B.Tech. Chemical , ,	Mr. Bomma Ramanjaneyulu ,
11	R201711	COCONUT MODIFIED IMIDAZOLINE: ENVIRONMENT FRIENDLY CORROSION INHIBITOR	Vardan Gairola, B.Tech. APE-GAS, Utkarsh, B.Tech. APE-GAS	Mr. KS. Rajmohan ,

Selected Projects For RISE 2017 (Category 1)

Project under Electrical Engineering Group

S.NO.	PROJECT ID	Title of the proposed RISE project	Applicants	Mentors
1	R201712	To reduce the thermal conductivity of graphene and hence reducing the losses in transmission lines by graphene coating	Rishabh Mathur, B.Tech. Electrical, Vatsal Gupta, B.Tech. Electrical	Dr. Praveen Kumar Godhke, Dr. Isaac R.
2	R201713	Design and Development of Universal Charging Kit	Shantanu Rawat, B.tech. PSE, Prabhat kaushik, B.tech. PSE	Dr. Madhu sharma, Ms. Monika yadav
3	R201714	Portable washing machine	Kirti Yadav, B.Tech. Electrical, aishwar agrawal, B.Tech. Electrical	Dr. Isaac R.,
4	R201715	Litter of light	Yashasvi Mittal, , Tushar Batra,	Mr. Prashant Shukla,

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Project under Electronics Engineering Group

S.NO.	PROJECT ID	Title of the proposed RISE project	Applicants	Mentors
1	R201716	Design and Development of a low cost text reader for Visually Impaired	Meenakshi Talwar, B.Tech. Electronics, Aakash Verma, B.Tech. Electronics	Mr. Paawan Sharma, Mr. Adesh Kumar
2	R201717	Alarm System for Avoiding Accidents at Blind-Turns and T-Points Roads	Ankur Dubey, B.Tech. Electronics, Pradyumna Narayan Tiwari, B.Tech. Electronics	Dr.Piyush Kuchhal, Dr.Rajesh Singh
3	R201718	CLOUD ENABLED SMART ENERGY METER AND DATA LOGGING SYSTEM OVER INTERNET	ARCHIT AGARWAL, B.Tech. Electronics, ,	DR . SUSHABHAN CHOWDHURY, DR. RAJESH SINGH
4	R201719	CELL PHONE, WIFI AND IR JAMMER	Rohit sanket, B.Tech. Electronics, Ateev agarwal, B.Tech. Electronics	Dr.Rajesh Singh, Dr. Anita Gehlot
5	R201720	TYSC-2:Localized weather monitoring and information dissipation for safe journey on yatra routes.	Rohit Sanket, B.Tech. Electronics, Tanisha Gupta, B.Tech. Electronics	Dr. Pankaj Kumar Sharma, Dr. Rajesh Singh
6	R201721	IoT based wireless sensor network for landslide forecasting	Pradyumna Narayan Tiwari, B.Tech. Electronics, amitabh yadav, B.Tech. Electronics	Dr.Paawan Sharma, Dr.P.Devaraju
7	R201722	Monitoring and Design of Rail/Material crack Detection System	Rahul Raj, B.Tech. Electronics, Himanshu Srivastava, B.Tech. Civil	B. Khaleelu Rehman, Dr. Paawan Sharma

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Project under Electronics Engineering Group

S.NO.	PROJECT ID	Title of the proposed RISE project	Applicants	Mentors
8	R201723	WLA-Inter-convertible hovercraft and delta plane with VTOL feature	Abhinav, B.Tech. Aerospace, Harleen kaur, B.Tech. CSE-O&G	Lalit bhola,
9	R201724	Emotions Recognition System for Patients with Behavioral Disorders	KETAN MALIK, B.Tech. Electronics, MEENAKSHI TALWAR, B.Tech. Electronics	MR. VIVEK KAUNDAL,
10	R201725	SOLAR POWERED SOIL MOISTURE CONTROL SYSTEM FOR FARM	EESH MEHANDIRATTA, B.Tech. Electronics, TANISHA GUPTA, B.Tech. Electronics	Mr Rajesh singh, Ms Anita Gehlot
11	R201726	Design and Development of Oil Tank Monitoring System for Transformer in Power Distribution Industries.	Irfan Ansari, B.Tech. PSE, Puneet Singh Verma, B.Tech. PSE	Dr. Rajesh Singh, Ms. Anita
12	R201727	IoT and NDT based Bridge Risk Assessment and Identification	Aditya Agarwal, B.Tech. Electronics, Vishakha Shukla, B.Tech. Electronics	Dr. Vikas Garg, Dr. Rajesh Singh
13	R201728	AUTONOMOUS FIRE FIGHTER DRONE	HASAN AARZOO, B.Tech. ASE-AVE, RISHAB SINGLA, B.Tech. ASE-AVE	RAJESH SINGH, ANITA
14	R201729	Design and development of solar bag	N Adhithiyan, B.Tech. Aerospace, ,	Mr. A J Arun Jeyaprakash,

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Project under Electronics Engineering Group

S.NO.	PROJECT ID	Title of the proposed RISE project	Applicants	Mentors
15	R201730	TILT AND PHASE MEASUREMENT OF ELECTRIC POLE IN ELECTRIC DISTRIBUTION LINES	Sohan Chatterjee, B.Tech. Electronics, Nitin Karnatak, B.Tech. I&C	Rajesh Singh, S. Choudhury
16	R201731	CAR SECURITY WITH MESSAGE ALERT AND CONTROL SYSTEM	Shadab Siddiqui, B.Tech. Electronics, Aditi Sharma, B.Tech. Electronics	Rajesh Singh, Anita gehlot
17	R201732	Hybrid GSM and PLCC based device	Ashish pratap singh, B.Tech. Electronics, Krishan nagal, B.Tech. Electronics	Dr.Rajesh singh, Anita
18	R201733	8 house in 1	Arshia, B.Tech. APE-UP, ISHITA JUNEJA, B.Tech. Chemical	Paawan Sharma, Vivek Kaundal
19	R201734	Silver Nanowire Coated Conductive Thread for Smart Clothing Applications	Arjun Vishwakarma, B.Tech. Electronics, ,	Dr. Manjeet Singh,
20	R201735	Passenger Safety in Case of an Emergency!	Devesh Aviral Devrani, B.Tech. ADE, Arnav Raj, B.Tech. ADE	Dr Rajesh Singh, Anita
21	R201736	Development of Aerial Medical Assistance Vehicle for Remote and Hilly Terrains using Quadcopter powered by IC Engines	Dushyant Dixit , B.Tech. ASE-AVE, Priyal Kumar Sogani, B.Tech. ASE-AVE	Dr. Velidi V S S Gurunadh, Dr. Rajesh Singh

Selected Projects For RISE 2017 (Category 1)

Project under Electronics Engineering Group

S.NO.	PROJECT ID	Title of the proposed RISE project	Applicants	Mentors
22	R201737	Voice controlled agricultural drone	Angel Rathi, B.Tech. Mechatronics, Shivam Raj, B.Tech. Mechatronics	Sonal Modi,
23	R201738	Tree climbing robot for military surveillance	Mahima arora, B.Tech. Mechatronics, Sauvik charavorty, B.Tech. Mechatronics	Mr Vivek kaundal, Dr Amit Kumar kondal
24	R201739	Assist in Strategic Planning and Immediate ResponsE (ASPIRE)	Cris Thomas, M.Tech ASE-1 (UAV), Rahul Bharadwaj, M.Tech ASE-1 (UAV)	A. J. Arun Jeya Prakash, Amit Kumar Mondal
25	R201740	Autonomous driverless vehicular robot	Inderpreet Singh, B.Tech. Mechatronics, Ashutosh Animesh, B.Tech. Mechatronics	Prof. Vinay Chowdary, Dr. Paawan Sharma

Selected Projects For RISE 2017 (Category 1)

Project under Energy Group

S.NO.	PROJECT ID	Title of the proposed RISE project	Applicants	Mentors
1	R201741	AUTOMATED INDUCTION COOKER FOR TIME REDUCTION AND ENERGY CONSERVATION	Shivam Raj, B.Tech. Mechatronics, angel rathi, B.Tech. Mechatronics	Neeraj Kumar Sharma,
2	R201742	Design and comparative study of a microbial fuel cell that runs on waste water to produce electricity from locally sourced material with carbon cloth and aluminium mesh as electrodes	Deepika Gupta, B.Tech. PSE, Deepak Kundani, B.Tech. PSE	,
3	R201743	Development of Solar Powered Pesticide Sprayer	Damodar Gupta, B.Tech. PSE, Som Gupta, B.Tech. PSE	Dr. Madhu Sharma,

Selected Projects For RISE 2017 (Category 1)

Project under HSE Group

S.NO.	PROJECT ID	Title of the proposed RISE project	Applicants	Mentors
1	R201744	Air Pollution Monitoring Flying Device	nikhil kalra, B.Tech. Mechatronics, Sanchit Gupta, B.Tech. Mechatronics	Dr. Rajesh Singh, Ms. Anita
2	R201745	Adsorption of heavy metals from industrial effluents on the surface of activated carbon prepared from banana peels.	Saket Kuchibhotla, B.Tech. Chemical, Ritul Bhasin, B.Tech. Chemical	Dr. K.S.R. Murthy,
3	R201746	IOT BASED PLANT GROWTH MONITORING SYSTEM WITH SOIL NURSING	AAKANKSHA PANWAR, B.Tech. Electronics, AVI GABA, B.Tech. Electronics	Dr. Rajesh Singh, Ms. Anita

Selected Projects For RISE 2017 (Category 1): Project under IT Group

S.NO.	PROJECT ID	Title of the proposed RISE project	Applicants	Mentors
1	R201747	IOT BASED MODEL TO TRANSFER DATA FROM PENDRIVE TO PENDRIVE WITHOUT THE ASSISTANCE OF PC	shiwanshu kumar, B.Tech. CSE-OSS, Pratibha tiwari, B.Tech. CSE-OSS	Ravi Tomar, Ankur Dumka
2	R201748	3D GIS based web accessible campus information system	Nitin Somani, B.Tech. CSE-O&G, Nimit Johri, B.Tech. CSE-O&G	Alok Jhaldiyal ,
3	R201749	`SOLID WASTE MANAGEMENT SYSTEM (SWMS) USING GIS TECHNOLOGY: A CONCEPT OF SMART DUSTBIN	Soumya saswat Mishra, B.Tech. GIE, Gourav Arora, B.Tech. GIE	Ashish Aggarwal,
4	R201750	Public Key Cryptography in IOT	Gautam Sharma, B.Tech. CSE-CCVT, Aditya Thakur, B.Tech. CSE-CCVT	G L Prakash,
5	R201751	Deterring DDoS Attacks	MAYURESH VERMA, B.Tech. CSE-ITSCF, SAYAN MITRA, B.Tech. CSE-ITSCF	JATIN SETHI, HIMANSHU SAHU
6	R201752	UPES CHAPTERS NOTIFICATIONS	Shorya Shara, B.Tech. APE-GAS, Varunendr dev singh, B.Tech. CSE-O&G	Saurabh Shanu, Kalpana rangra
7	R201753	Perapt	HIMANSHU KUMAWAT, B.Tech. CSE- SECURITY AND CYBER FORENSICS, KARAN SOROT, B.Tech. CSE- SECURITY AND CYBER FORENSICS	SHELLY SINGHAL,
8	R201754	Visual servoing of robot manipulators with camera-in-hand configuration	Anuj kumar, B.Tech. CSE-O&G, Amit Agarwal, B.Tech. CSE-CCVT	Dr. Sanoj Kumar,

Selected Projects For RISE 2017 (Category 1)

Project under Mechanical Group

S.NO.	PROJECT ID	Title of the proposed RISE project	Applicants	Mentors
1	R201755	Design and Fabrication of an Electric Drivetrain in a Spoke-less bicycle wheel	Rajdeep Mukherjee, B. Tech. Mechanical, Nayan Arora, B. Tech. Mechanical	Swapnil Bhurat,
2	R201756	TO ANALYSE COMBUSTION AND PERFORMANCE CHARACTERISTICS OF LOW CAPACITY TURBO DI ENGINE	Ashutosh Jha, B.Tech. ADE, Mohit Sharma, B.Tech. ADE	Swapnil Sureshchandra Bhurat,
3	R201757	Fabrication And Analysis of Vapor Absorption Refrigeration System Using Working Fluid Pair	Paras Kalura, B. Tech. Mechanical, Susheem Mukul Kashyap & Vishal Sharma, B. Tech. Mechanical	Geetanjali Raghav Nagpal,
4	R201758	To investigate and compare emission & performance in partial HCCI Engine with Ethanol Blend and Ethanol Fumigation respectively and to correctively deduce the best technique for ethanol supplementation with diesel.	Satyam Dixit, B. Tech. Mechanical, Ishan Sharma, B. Tech. Mechanical	Mr. Swapnil Bhurat,
5	R201759	Automated choke control system	Y Prudhvi Raj, B.Tech. APE, D Bhaavan,	Vamsi krishna kudapa,
6	R201760	Design and fabrication of robotic gloves to control the lifting and crushing of heavy materials using hydraulic machines	Kumar Ankush, B.Tech. PI, Abhishek Tiwari , Ankit Jain, B.Tech. PI	vivek kaundal, Dr. V. Chintala

Selected Projects For RISE 2017 (Category 1)

Project under Mechanical Engineering Group

S.NO.	PROJECT ID	Title of the proposed RISE project	Applicants	Mentors
7	R201761	Autonomous refueling system for UAVs	Keshav Dutt Saraswat, B.Tech. ASE-AVE, Rishab Singla, B.Tech. ASE-AVE	Dr. Rajesh Singh, Mrs Anita
8	R201762	Performance and Compatibility test of Biodiesel from Waste Cooking Oil in IC Engine- An Novel Transesterification approach	Vipasha Bihone, B.Tech. Chemical, Shanmathi Sridharan, B.Tech. Chemical	K.S.Rajmohan, Dr.M.Gopinath
9	R201763	Low Cost Airbus for Surveillance and to Carry Loads	Aadrita Tanwer, B.Tech. ASE-AVE, Aditya Agarwal, B.Tech. Electronics	Mr. Shikar Purohit, Dr. Rajesh Singh
10	R201764	Fabrication and characterization of Multiferroic Gallium Ferrite (GaFeO ₃) thin films	VISHESH SAXENA, B.Tech. MSNT, ,	Dr. Tarun Garg, Dr. Amit Kumar Chawla
11	R201765	Superhydrophobic nanocoating for electronic circuit board applied on air drones	Tanya Verghese, B.Tech. Electrical, surbhi lodhi, B.Tech. Electrical	Mr. Isaac R,
12	R201766	Developing energy saving utensils by aluminium composites and optimizing it to thermal conductivity using design of equipment technique	Piyush Gera, B.Tech. PI, Shamik Shandilya, B.Tech. PI	Amneesh Singla, V Chintala

Selected Projects For RISE 2017 (Category 1)

Project under Petroleum Engineering Group

S.NO.	PROJECT ID	Title of the proposed RISE project	Applicants	Mentors
1	R201767	LOWERING THE HEAT OF HYDRATION OF CEMENT FOR DRILLING IN GAS HYDRATE RESERVOIRS USING NANOTECHNOLOGY	Shashwat Baranwal, B.tech. APE-UP, Vishal Chaubey, B.tech. GSE	Satyajit Chowdhury,
2	R201768	CH ₄ recovery through Methane Hydrate dissociation with Carbon Dioxide Sequestration.	Viveki Rai, B.tech. APE-UP, Ritesh Roy, B.tech. APE-UP	Shyam Kumar Inturi,
3	R201769	OPTIMIZATION OF HEAVY OIL EXTRACTION USING RADIO FREQUENCY IRRADIATION	Akshay Tandon, B.tech. APE-UP, Taher M. Ashique, B.tech. APE-UP	Dr. Pushpa Sharma,
4	R201770	Innovation in drilling fluids using nano science	Chandan Purohit, B.Tech. APE-GAS, Divyanshu Bhatt, B.Tech. APE-GAS	Dr.Sanjeev kr. Dubey,
5	R201771	SpillBall- An innovation in Oil Spill cleaning.	Manan Manoj Adlakha, B.tech. APE-UP, Manu Chaturvedi, B.tech. APE-UP	Bhawna Lamba Yadav ,
6	R201772	Oil Spill- Cleaning and Recovery by multi-layered fibre tubes	Animesh Choudhary, B.Tech. APE-GAS, Manu Chaturvedi, B.tech. APE-UP	Bhawna Lamba Yadav
7	R201773	Application of surfactant coated magnetic nanoparticles on recovery of oil from oil spills	Divanshu bhatt, B.Tech. APE-GAS, Gyana Ranjan das, B.Tech. APE-GAS	Sapna Jain
8	R201774	PREPARATION OF SILICA AEROGEL COATED IRON NANO PARTICLE FOR OIL SPILL CLEANUP	PARAG GOYAL, B.tech. APE-UP, SHUBHAM SATYAM , PRASHANT, B.tech. APE-UP	Dr. Shilpi Agarwal