

RCOEM

Shri Ramdeobaba College of
Engineering and Management, Nagpur



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)

ANNUAL REPORT 2022-23

Shri Ramdeobaba College of Engineering and Management
Randeo Tekdi, Katol Road, Nagpur 440013
www.rk nec.edu

Dr. D S Adane
President IIC, RCOEM

About RCOEM

Shri Ramdeobaba College of Engineering and Management (RCOEM), Nagpur was established in 1984 by Shri Ramdeobaba Sarvajanik Samiti. An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, accredited by NAAC with “A + ” Grade, the Institute has been continuously achieving major milestones. It is one of the most sought-after educational institutes, liked and preferred by students, parents and employers. It offers 11 UG Programs and 10 PG programs and has more than 4500 students. There are more than 450 well-trained employees with expertise in different fields. The college has been continuously featuring in the nationwide rankings and has been ranked 146th in 2022 as per National Institutional Ranking Framework, Ministry of Human Resource Development, Government of India.

IIC Mission and Objectives

- Setting direction for the Institute towards streamlining and establishing a strong start-up ecosystem in the campus and region
- Measuring Innovation & Start-up ecosystem based on Input, Process, Output, and Outcome-based parameters
- Focusing on both quantity and more on quality aspects of the Start-up Eco-System available at the Institute
- Also, to measure the impact created by these innovations and Start-ups in society and the market

IIC Constitution

As per the guidelines given by the Innovation Cell of Ministry of Education and AICTE, Institute Innovation & Entrepreneurship Council (IIEC) is hereby constituted, consisting of the following members.

| SN | Faculty Representation | Name of Faculty | Department |
|----|---------------------------------|-----------------------------|-----------------------------|
| 1 | President | Dr. D. S. Adane | Research & Innovation Cell |
| 2 | Vice President | Dr. Vishal V. Shukla | Mechanical Engineering |
| 3 | Convenor | Dr. Rupesh Pais | RCOEM TBI Foundation |
| 4 | Innovation Activity Coordinator | Prof. Prashant B. Shiwalkar | Industrial Engineering |
| 5 | Start-up Activity Coordinator | Mr. Palash Hadke | RCOEM TBI Foundation |
| 6 | Internship Coordinator | Dr. Parag Jawarkar | Electronics Engineering |
| 7 | IPR activity Coordinator | Dr. B. M. Hardas | Electronics Engineering |
| 8 | Social Media Coordinator | Dr. Vandana Gandhi | Business Management |
| 9 | ARIIA Coordinator | Prof. Bhushan C. Bissa | Mechanical Engineering |
| 10 | NIRF Coordinator | Dr. A. S. Chatpalliwar | Industrial Engineering |
| 11 | Members | Prof. Sumit S. Geete | Civil Engineering |
| 12 | | Dr. Rashmi Welekar | Computer Sci. & Engineering |
| 13 | | Prof. P. A. Dwaramwar | Electronics Engineering |
| 14 | | Prof. N. M. Borkar | Electronics & Comm. Engi. |
| 15 | | Prof. Jitendra B. Zalke | Bio-Medical Engineering |
| 16 | | Dr. Uday Mujumdar | Electrical Engineering |
| 17 | | Prof. P. J. Assudani | Information Technology |
| 18 | | Prof. Ganesh S. Shetiye | Industrial Engineering |

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|----|------------------------------------|---------------------------|---|
| 19 | | Dr. Satyajit S. Uparkar | Master of Compt. Applications |
| 20 | | Dr. Sunita Dhote | Business Management |
| 21 | | Dr. Y. M. Sonkhaskar | Mechanical Engineering |
| 22 | | Dr. Pankaj D.Belsare | Physics |
| 23 | | Prof. Vipul Lande | Electronics and Communication Engineering |
| 24 | | Prof. Vishal R. Rathee | Electronics Engineering |
| 25 | | Dr. Prasad Dahale | Civil Engineering |
| 26 | | Dr. Sandeep Joshi | Mechanical Engineering |
| 27 | | Dr.(Ms.) Preeti Kapoor | Electrical Engineering |
| 28 | | Dr. Suresh Balpande | Electronics Engineering |
| 29 | | Mr. Sandeep R. Pandey | Electronics Engineering |
| 30 | | Dr. Pradeep Ram Selokar | Electronics & Communication Engineering |
| 31 | | Mr. Abhijeet R. Raipurkar | Computer Science and Engineering |
| 32 | | Mr. Dilip Kumar Borikar | Computer Science and Engineering |
| 33 | | Mr. Ashish Chandak | Information Technology |
| 34 | | Dr. Sachin Upadhye | Computer Application (MCA) |
| | Expert Representation | | |
| 35 | IP Expert/ Patent Expert | Mr. Sunit Sable | BRAINIAC IP Solutions, Pune |
| 36 | Startup / Alumni Entrepreneur | Mr. Ketan Paithankar - | Co-founder at Konverge. AI |
| 37 | Expert from nearby Industry | Mr. Nikunj Dayma | FerroMonk Steel Structures Pvt. Ltd. Nagpur |
| 38 | FI/Bank/Investor/Angel Investor/VC | | |
| 39 | Nearby Incubation Centre | RCOEM TBI Foundation | |
| | Student Representation | | |
| 40 | Innovation Coordinator | Neeraj Dwivedi | Mechanical Engineering |
| 41 | | Vinay Dhawad | Electronics & Communication Engineering |
| 42 | | Muskan Tekchandani | Industrial Engineering |
| 43 | | Anusha Vidyabhanu | Electronics & Communication Engineering |
| 44 | | Shreerang Vyawahare | Electronics & Communication Engineering |
| 45 | | Adnan Husain | Computer Science and Engineering |
| 46 | | Silvi Gupta | Computer Science and Engineering |
| 47 | | Prathmesh Gaidhane | Information Technology |
| 48 | | Shraddha Wangota | Information Technology |

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| 49 | | Smit Khobragade | Computer Science and Engineering |
| 50 | | Krishna Chaudhary | Department of Management Technology (MBA) Integrated |
| 51 | Startup Coordinator | Kusum Singh | Electronics Engineering |
| 52 | | Yash Kayadinge | Computer Science and Engineering-Cyber |
| 53 | | Lakshya Agrawal | Information Technology |
| 54 | | Sanskar Motghare | Civil Engineering |
| 55 | Internship Coordinator | Gressy Shripad | Industrial Engineering |
| 56 | | Piyush Dwivedi | Electronics & Communication Engineering |
| 57 | IPR Coordinator | Khushi Wankhade | Biomedical Engineering |
| 58 | Social Media Coordinator | Khushi Wadnerkar | Department of Management Technology (MBA) Integrated |
| 59 | | Samiksha Singh | Industrial Engineering |
| 60 | | Bhavya Adhiya | Department of Management Technology (MBA) |
| 61 | | Anushree Jain | Biomedical Engineering |
| 62 | | Purva Marotkar | Department of Management Technology (MBA) |
| 63 | | Kartik Vhonale | Computer Science and Engineering-Cyber |
| 64 | | General Members | Nisarg Pankey |
| 65 | Aalok Choudhari | | Computer Science and Engineering-Cyber |
| 66 | Yash Jain | | Information Technology |
| 67 | Jay Kadao | | Biomedical Engineering |
| 68 | Veena Jawrani | | Electrical Engineering |
| 69 | Khushi Singh | | Electronics Engineering |
| 70 | Komal Nichat | | Computer Science and Engineering |

Innovation Ambassadors

The following faculty members are appointed as the Innovation Ambassador for the calendar year, and they have completed the basic and advanced training on MIC portal.

| S.No. | Name of Faculty Member | Department | IA Training Completed |
|--------------|-------------------------------|-----------------------------|------------------------------|
| 1 | Dr. Y. M. Sonkhaskar | Mechanical Engineering | Basic + Advance |
| 2 | Prof. Prashant B. Shiwalkar | Industrial Engineering | Basic + Advance |
| 3 | Dr. B. M. Hardas | Electronics Engineering | Basic + Advance |
| 4 | Prof. Bhushan C. Bissa | Mechanical Engineering | Basic + Advance |
| 5 | Prof. Sumit S. Geete | Civil Engineering | Basic + Advance |
| 6 | Dr. Rashmi Welekar | Computer Science | Basic + Advance |
| 7 | Prof. Vipul Lande | Electronics & Communication | Basic + Advance |
| 8 | Prof. P. J. Assudani | Information Technology | Basic + Advance |

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|----|-----------------------------|-----------------------------|-----------------|
| 9 | Prof. Vishal R. Rathee | Electronics Engineering | Basic + Advance |
| 10 | Dr. Satyajit S. Uparkar | MCA | Basic + Advance |
| 11 | Dr. Prasad Dahale | Civil Engineering | Basic + Advance |
| 12 | Dr. Sandeep Joshi | Mechanical Engineering | Basic + Advance |
| 13 | Dr.(Ms.) Preeti Kapoor | Electrical Engineering | Basic + Advance |
| 14 | Dr. Suresh Balpande | Electronics Engineering | Basic + Advance |
| 15 | Prof. Sandeep R. Pandey | Electronics Engineering | Basic + Advance |
| 16 | Dr. Pradeep Ram Selokar | Electronics & Communication | Basic + Advance |
| 17 | Prof. Abhijeet R. Raipurkar | Computer Science | Basic + Advance |
| 18 | Prof. Dilip Kumar Borikar | Computer Science | Basic + Advance |
| 19 | Dr. Ashish Chandak | Information Technology | Basic + Advance |
| 20 | Dr. Sachin Upadhye | MCA | Basic + Advance |

Incubation Centres

1. RCOEM Technology Business Incubators Foundation
2. RCOEM TATA CIIT Center for Invention, Innovation, Incubation and Training
3. ASPIRE MSME Technology Business Incubation Center

IPR Cell/TTO Centre Details:

1. IPR CELL
2. RCOEM Technology Business Incubators (TBI) Foundation

Pre-Incubation Centers

| Sr. No. | Type of the Unit | Name of Unit |
|---------|------------------|--|
| 1 | Innovation Cell | Research Laboratory (Electrical Engineering) |
| 2 | Innovation Cell | Project Laboratory (Electrical Engineering) |
| 3 | Innovation Cell | Electrical Workshop (Electrical Engineering) |
| 4 | Tinkering Lab | Project Lab (Electronics Engineering) |
| 5 | Innovation Cell | Electronic Product/CMOS VLSI Design |
| 6 | Innovation Cell | Research Lab (Electronics Engineering) |
| 7 | Innovation Cell | Center For Microsystems (Electronics Engineering) |
| 8 | Tinkering Lab | Printed Circuit Board Design Lab. |
| 9 | Tinkering Lab | Workshop (Electronics and Communication Engineering) |
| 10 | Innovation Cell | Projects (Electronics and Communication Engineering) |
| 11 | Tinkering Lab | Workshop (Industrial Engineering) |
| 12 | Innovation Cell | Research Lab (Industrial Engineering) |
| 13 | Tinkering Lab | Network And Project Lab (Information Technology) |
| 14 | Tinkering Lab | Project Lab (Mechanical Engineering) |
| 15 | Tinkering Lab | Workshop (Mechanical Engineering) |
| 16 | Innovation Cell | NVIDIA Centre Of Excellence in Artificial Intelligence and Deep Learning (AI & DL) |
| 17 | Innovation Cell | Intellisense Centre For Microsystems |
| 18 | Innovation Cell | Energy Research Centre |

Student bodies/clubs engaged in promotion of Innovation and Entrepreneurship in the campus

1. Technical Club
2. Robotics Club
3. Sae-India Club
4. Embedded Club
5. Code Breakers Club
6. Drone Club
7. Semi Colon Tech Club

List of Activities

The following activities were conducted during the year and relevant documents and reports have been uploaded on the MIC portal.

| S.No. | Name of Activity | Quarter | Activity |
|--------------|---|----------------|-----------------------|
| 1 | National Youth Day | Quarter II | Celebrations |
| 2 | Research Paper Writing | Quarter II | Self-driven Activity |
| 3 | National Science Day | Quarter II | Celebrations |
| 4 | National Pollution Control Day | Quarter II | Celebrations |
| 5 | National Energy Conservation Day(India) | Quarter II | Celebrations |
| 6 | Workshop on Design Thinking, Critical thinking and Innovation Design | Quarter II | IIC Calendar Activity |
| 7 | Inter/Intra Institutional Innovation Competition/Challenge/Hackathon and Reward Best Innovations - Manage through YUKTI-NIR | Quarter II | IIC Calendar Activity |
| 8 | National Technology Day | Quarter III | Celebrations |
| 9 | Session/ Workshop on Business Model Canvas (BMC) | Quarter III | IIC Calendar Activity |
| 10 | Workshop on Prototype/Process Design and Development | Quarter III | IIC Calendar Activity |
| 11 | IDEA-TECHEXPO 23 | Quarter IV | Self-driven Activity |
| 12 | World Entrepreneurs Day | Quarter IV | Celebrations |
| 13 | World Environment Day | Quarter IV | Celebrations |
| 14 | Entrepreneurship Development and Sensitization Workshop | Quarter IV | Self-driven Activity |
| 15 | TRANSPRENEUR | Quarter IV | Self-driven Activity |
| 16 | Independence Day- Celebrating Aazadi Ka Amritkal | Quarter IV | Celebrations |
| 17 | Earth Day | Quarter IV | Self-driven Activity |
| 18 | INDIAN SWACHHATA LEAGUE | Quarter IV | Self-driven Activity |

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|----|---|-------------|-----------------------|
| 19 | World Ozone Day | Quarter IV | Self-driven Activity |
| 20 | Organise Session on “Lean Start-up & Minimum Viable Product/Business”- Boot Camp (or) Mentoring Session | Quarter IV | IIC Calendar Activity |
| 21 | Session on Angel Investment/VC Funding Opportunity for Early Stage Entrepreneurs. | Quarter IV | IIC Calendar Activity |
| 22 | Workshop on Financial Overview of Non-Financial Entrepreneurs | Quarter IV | Self-driven Activity |
| 23 | Digital Marketing for startups | Quarter IV | Self-driven Activity |
| 24 | Workshop on Intellectual Property Rights (IPRs) and IP management for start up | Quarter III | IIC Calendar Activity |
| 25 | Nuances of Research paper writing | Quarter IV | Self-driven Activity |

Faculty / Student Achievements

| S N | Name of the Awardee | Designation | Name of the activity | Title of the Award / Recognition | Name of the Awarding bodies | Academic Session |
|-----|--|---------------------|---|---|----------------------------------|------------------|
| 1 | Dr.Suresh balpande, Prof.Vishal Rathi, Prof. Dr. Suraj Butoliya, Shubham Anjankar, | Assistant Professor | Hackathon 2022" contest. | INUP-i2i Nanotech Hackathon 2022" contest. | IIT, Mumbai | 2022-23 |
| 2 | Dr. Sandeep Joshi and Team of his students | Assistant Professor | <i>National Talent Fest 2023 organized by L&T EduTech</i> | Self cooled solar photovoltaic module system | L&T EduTech | 2022-23 |
| 3 | Saachi Iyer | Student | SERB INAE conclave at IIT Kanpur | Design and Fabrication of Microfluidic platform for the detection of leukamia | SERB INAE conclave at IIT Kanpur | 2022-23 |
| 4 | Shrirang Pawnikar | Student | SERB INAE conclave at IIT Kanpur | Design and Fabrication of Microfluidic platform for the detection of leukamia | SERB INAE conclave at IIT Kanpur | 2022-23 |

Students Achievements

No. of student's participation in Hackathon / Other Competition: **762**

Students winners: **57**

Atal School Linkages

The Institute has accepted the mentoring of the following schools with Atal Tinkering Lab.

| S.No. | School Code | School Name | Address | IIC Coordinator Nominated |
|-------|-------------|--|-------------------------------|---------------------------|
| 1 | b56a11879 | New English High School and Junior College | Congress Nagar, Nagpur-440012 | Dr. B. M. Hardas |
| 2 | 14105683 | Pandit Bachharaj Vyas Vidyalaya | Rajabaxa, Post-Ajni, Nagpur | Prof. Vishal R. Rathee |
| 3 | 197511362 | R S Mundle English School and Junior College | Hindustan Colony, Nagpur | Dr. Sunita Dhote |

e- Resources

The following e-resources have been developed by the institute:

| S.No. | Title | Tags | Video URL |
|-------|---|--|---|
| 1 | Application of Software's in Civil Engineering | Civil Engineering Softwares | https://youtu.be/rCzXO656cTE |
| 2 | Introduction to STAAD pro-CONNECT Edition | STAAD.pro | https://youtu.be/GNSibP8YFtI |
| 3 | The similarity of documents: Shingles, Min Hashing and Jaccard Similarity | min hashing, Jaccard similarity | https://www.youtube.com/watch?v=cfluhb84hGw |
| 4 | Merge Sort | sorting, algorithm | https://www.youtube.com/watch?v=CZQgr8UvVoY |
| 5 | For Loop Programs | for loop, loops | https://www.youtube.com/watch?v=2hsawn1jbjA |
| 6 | Introduction to Compiler Design | SLR Parser, Regular expression, compiler, phases | https://www.youtube.com/playlist?list=PLJshpq0JUT2B68UteQvzdEHwzox9EJbJb |

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|----|---|--|---|
| 7 | Advanced Object Oriented Programming | servlet, java server side programming, servlet lifecycle, request response | https://www.youtube.com/watch?v=7EwG6tHtTUo&list=PLAaYDWYyjdSMVIG75iZvaJwFBofT6gQVh |
| 8 | Advanced Object-Oriented Programming | Java server pages, demo, actions, directives | https://www.youtube.com/watch?v=Ur-LgxtUF4g&list=PLAaYDWYyjdSMMcpGEL6ClvaPMSP E3XZYT |
| 9 | Advanced Object Oriented Programming | Spring, Java, Dependency injection, auto wiring | https://www.youtube.com/watch?v=svck1tr1bqE&list=PLAaYDWYyjdSNqhGmw mcm4qW2GmnlqQYhI |
| 10 | Advanced Object Oriented Programming | Hibernate, hibernate states, embedded objects, proxy object | https://www.youtube.com/watch?v=osCKbxKVKXs&list=PLAaYDWYyjdSNXmyg 0wbZVBHnxSpxIIkYV |
| 11 | Construction of Long Span Bridge | Bridge Construction | https://youtu.be/U9KRUv ZEYPM |
| 12 | Ground Improvement using Stone Columns | Ground Improvement, Stone Columns | https://youtu.be/OhNqi8 OvMgw |
| 13 | Application of AI in AEC Industry | AI in Civil Engineering | https://youtu.be/XQ29lAs aV74 |
| 14 | Structural Audit & Repair Methodologies | Structural Audit | https://youtu.be/sVlpxZd a-fY |
| 15 | Awareness Programme on Know Yoga, Know Life | Yoga, Awareness, Stress Relief, meditation | https://www.youtube.com/watch?v=FPIZ8NyPI8k&t=9s |
| 16 | Time to Meet Your Best Version | Personality, time | https://youtu.be/h1481IQ qlcA |
| 17 | Introduction to Embedded Linux Systems | Embedded, linux | https://www.youtube.com/watch?v=Z4yN6F39xo8 |
| 18 | Writing a research article: advice to beginners | research, publication | https://www.youtube.com/watch?v=kCmuP8yBBj4 |
| 19 | Digital Transformation through Cloud | digital, cloud | https://www.youtube.com/watch?v=9_AdZBbHCcM |
| 20 | Role of Embedded Systems, IoT towards | embedded, iot | https://youtu.be/gmhoIm F8LzM |

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|----|---|---|---|
| 21 | Personal Branding for Faculty/Students | personality, brand | https://youtu.be/G1Io0gkQxm4 |
| 22 | Free Education and Job Opportunities in Germany | education, free, germany | https://youtu.be/5Y3ka5bIrTY |
| 23 | Career Day Higher studies & Job opportunities in the United States of America | education, usa, opportunity | https://www.youtube.com/watch?v=u_GNFbtaLSo&t=8s |
| 24 | HOW TO PREPARE FOR CAT AND GET IIM CALLS | CAT, IIM, preparation | https://youtu.be/aZR4AgsMjSE |
| 25 | Prospects for Engineers in Defence Force | engineers, defence-forces | https://youtu.be/-g5F8H9WtZw |
| 26 | Advanced Concepts in Circuit Simulation and Compact Modelling | circuit, simulation, concept | https://youtu.be/VBCUVHYkLcM |
| 27 | Module on Differential Amplifiers | E-Learning | https://www.youtube.com/channel/UCASPICLy_6rWSCqygE04bcA |
| 28 | Entrepreneurship opportunities in Electronics & Communication Engineering | Entrepreneur, Core, Electronics and communication | https://drive.google.com/file/d/11EhCEjXuIXOmcKrF6P0wKqtDtupuZ4Hw/view |
| 29 | Concept of Radiation & Antenna | Radiation, Antenna, Fields, Radiation | https://drive.google.com/file/d/1Ezvf33S9UE0Q7p2LYBwGI2gH3CpNKRkv/view |
| 30 | Learning Computer Communication Networking | Routing, network configuration | Learning Computer Communication and Networking Fundamentals |
| 31 | Basics of Wireless Communication | Evolution, Multiplexing, Multiple Access, 4G | http://172.16.176.22:32400/web/index.html#!/server/446e23f2abeb0476ed8d468cea1e613df9f20d4f/details?key=%2Flibrary%2Fmetadata%2F9&context=library%3Acontent.library~0~0 |
| 32 | Synchronization of Spread Spectrum | Evolution, Multiplexing, Multiple Access, 4G | http://172.16.176.22:32400/web/index.html#!/server/446e23f2abeb0476ed8d468cea1e613df9f20d4f/details?key=%2Flibrary%2Fmetadata%2F10&context=library%3Acontent.library~0~1 |

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| 33 | Wireless Transmission and Media Access | Evolution, Multiplexing, Multiple Access, 4G | http://172.16.176.22:32400/web/index.html#!/server/446e23f2abeb0476ed8d468cea1e613df9f20d4f/details?key=%2Flibrary%2Fmetadata%2F12&context=library%3Acontent.library~0~3 |
| 34 | Evolution of Wireless Systems | Evolution, 3G, 4G | http://172.16.176.22:32400/web/index.html#!/server/446e23f2abeb0476ed8d468cea1e613df9f20d4f/details?key=%2Flibrary%2Fmetadata%2F17&context=library%3Acontent.library~2~0 |
| 35 | Antenna Systems | antennas, radiation | http://172.16.176.22:32400/web/index.html#!/server/446e23f2abeb0476ed8d468cea1e613df9f20d4f/details?key=%2Flibrary%2Fmetadata%2F18&context=library%3Acontent.library~2~1 |
| 36 | Spread Spectrum Communication | secure communication | http://172.16.176.22:32400/web/index.html#!/server/446e23f2abeb0476ed8d468cea1e613df9f20d4f/details?key=%2Flibrary%2Fmetadata%2F19&context=library%3Acontent.library~2~2 |
| 37 | Big Data and Cloud Computing Technologies | big data, cloud computing | https://drive.google.com/file/d/1OZ8X7qshGKQbMjMwBQDNKKqGhw8gwFu7/view |
| 38 | HFSS: Complex Antenna Design Techniques for 5G | 5G Antenna Design | https://drive.google.com/file/d/10ParDKj7g32fJdO7C6YVt8XTktPEy7hg/view |
| 39 | Coding Techniques | Coding Techniques | https://drive.google.com/file/d/1f3eETXOd0oBDu3LD7tENF2UFpMbwnz8h/view?usp=sharing |
| 40 | Coding Techniques | Coding Techniques | https://drive.google.com/file/d/1PQWl_YtVyOJza55ebmCj77fZVslFY5ZL/view?usp=sharing |

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| 41 | Coding Techniques | Coding Techniques | https://drive.google.com/file/d/1EysYFAMOMNIxvb1T-m7Y0Fzvqo0WHQWB/view?usp=sharing |
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Ideas/Prototypes/Start-ups Initiated

The IIC is constantly encouraging its students and faculty members to participate and upload their innovations on the YUKTI portal. The following Innovations have been submitted to the YUKTI portal.

Ideas:

| Sr. No. | Innovation ID | Date of Submission | Innovation Title | FY of Development | Developed as part of | Team Lead Details |
|---------|---------------|--------------------|---|-------------------|------------------------------------|---|
| 1 | IR2023-874060 | 22-08-2023 | Auto seed ball machine TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | Sejal Gahlod gahlodsj@rknec.edu 8983693258 Student 21MEU1007MEU1 |
| 2 | IR2023-874040 | 22-08-2023 | Smart stick for blind man TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | Abhishek Shrivastav Shrivastavaa_4@rknec.edu 7820875643 Student 21MEU1009MEU1 |
| 3 | IR2023-874039 | 22-08-2023 | Earthquake Detection System TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Priyansh Rajesh Shahu shahupr_1@rknec.edu 9623013817 Student 21MEU1044MEU1 |
| 4 | IR2023-873928 | 21-08-2023 | Mechanicaq TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Amrut Anant Phate phateaa@rknec.edu 9175594002 Student |

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|----|---------------|------------|--|---------|------------------------------------|--|
| | | | | | | phateaa@rknec.edu |
| 5 | IR2023-873926 | 21-08-2023 | Assistive Vehicle Indication Using App TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Yash Sunil Petkar petkarys@rknec.edu 9156737119 Student petkarys@rknec.edu |
| 6 | IR2023-873925 | 21-08-2023 | Bluetooth operated solar grass cutter TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | Anushka Sainis sainisam@rknec.edu 9767386197 Student 21MEU1001MEU1 |
| 7 | IR2023-873923 | 21-08-2023 | ARDUINO OBSTACLE AVOIDING ROBOT CAR TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Ayush Paigwar paigwaraj@rknec.edu 8208783635 Student 21MEU1024MEU1 |
| 8 | IR2023-873920 | 21-08-2023 | Chat Bot For Mechanical Department TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Vishal samaddarvb@rkneec.edu 7666499210 Student 21MEU1062MEUY |
| 9 | IR2023-873914 | 21-08-2023 | LPG GAS LEAKAGE DETECTOR TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Madhur Mawale mawalemm@rkneec.edu 8668721276 Student 21MEU1032MEU1 |
| 10 | IR2023-873897 | 21-08-2023 | Coconut Cutter TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Amogh Deogaonkar deogaonkaraa@rkneec.edu 7066234541 Student |

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|----|---------------|------------|---|---------|------------------------------------|---|
| | | | | | | 21MEU1014MEU1 |
| 11 | IR2023-873890 | 21-08-2023 | VERTICAL FOLDING WALKER TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Vedant Pulliwar pulliwarva@rkneec.edu 9021250985 Student 21MEU1060MEU1 |
| 12 | IR2023-873864 | 21-08-2023 | Automatic Plant Watering System TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Manav Pande pandemr@rkneec.edu 8421462851 Student pandemr@rkneec.edu |
| 13 | IR2023-873805 | 20-08-2023 | Battery Operated Load Trolley for Industries TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Mohit Gullani gulanims@rkneec.edu 7828387078 Student 21MEU1037MEU1 |
| 14 | IR2023-873769 | 20-08-2023 | ELECTRICITY GENERATION THROUGH ROLLER MECHANISM TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | ARMAAN GHAI, OJAS CHORDIYA, PRATIK PATIL chordiyaop@rkneec.edu 8551899922 Student 21MEU1019MEU1, 21MEU1039MEU1, 21MEU1042MEU1 |
| 15 | IR2023-873076 | 13-08-2023 | Vehicle Brand Detection System TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Chirag Pradeep Lalwani lalwanicp@rkneec.edu 9975649446 Student 20211000916312 |

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|----|---------------|------------|--|---------|------------------------------------|--|
| 16 | IR2023-872432 | 07-08-2023 | APPLICATION FOR NEWS ENTHUSIASTS TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Vinayak Soni vhsoni143@gmail.com 7709876880 Student 20211000916212 |
| 17 | IR2023-872365 | 07-08-2023 | SPEECH IMAGE DESCRIPTION USING YOLO TECHNOLOGY TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | Nilanshu Hedao hedaoonr_1@rkneec.edu 9373335217 Student 20211000916196 |
| 18 | IR2023-872235 | 05-08-2023 | MENTAL HEALTH CHECKER TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Aditya Bopche anshu.bopche.ab@gmail.com 9930493443 Student 20211000916171 |
| 19 | IR2023-872121 | 04-08-2023 | COLD STORAGE REGULATOR TRL Title - TRL 1 | 2021-22 | Academic Requirement/Study Project | Madhav Dayanand Jha jhamadhav28@gmail.com 9702752201 Student 20211000916193 |
| 20 | IR2023-872068 | 03-08-2023 | Modelling and Simulation Of DC-DC Converter for Fuel Cell System TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Saurabh Virendra Patel patelsaurabh688@gmail.com 7249547907 Alumni 19EEU1053EEU1 |
| 21 | IR2023-872059 | 03-08-2023 | Designing Control Signal of Inverter using MPPT technique and SPWM | 2022-23 | Academic Requirement/Study Project | Saurabh Virendra Patel patelsaurabh688@gmail.com 7249547907 Alumni |

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| | | | method for a PV System In 1- Phase Grid TRL Title - TRL 2 | | | 19EEU1053EEU1 |
| 22 | IR2023-871974 | 01-08-2023 | Community Centric Application Problem (Movie Recommendation System) TRL Title - TRL 3 | 2022-23 | Academic Research Assignment/Industry Sponsored Project | Vishakha Sharma vishakharsharma@gmail.com 9175465711 Student 20211000916303 |
| 23 | IR2023-871910 | 31-07-2023 | Revolutionizing rural electrification with PV Integrated energy storage system: The DC House Solution TRL Title - TRL 1 | 2022-23 | Academic Research Assignment/Industry Sponsored Project | Deepti Sinha deeptisinha2015@gmail.com 8789625927 Alumni 20201000916964 |
| 24 | IR2023-871901 | 31-07-2023 | Early Detection of Glaucoma using CNN Architecture TRL Title - TRL 2 | 2022-23 | Academic Research Assignment/Industry Sponsored Project | Ayush Balpande ayushbalpande02@gmail.com 9307728650 Alumni 20201000917112 |
| 25 | IR2023-871896 | 31-07-2023 | Analysis of MIDI Data to determine chords and its visualization TRL Title - TRL 1 | 2022-23 | Academic Research Assignment/Industry Sponsored Project | Aniket Rawat astroaniket1@gmail.com 6397377811 Student rawata@rknec.edu |
| 26 | IR2023-871878 | 31-07-2023 | Employing biomedical signals as a means of | 2022-23 | Academic Requirement/Study Project | Henay Lakhwani henaylakhwani@gmail.com 7020138368 |

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| | | | biometric identification TRL Title - TRL 3 | | | Alumni lakhwanihp@rknecc.edu |
| 27 | IR2023-871867 | 31-07-2023 | A Comprehensive Microservice Approach to Cross-Platform Inventory Management Systems TRL Title - TRL 3 | 2022-23 | Independent Assignment/Non-academic Study Project | Abhiraj Niranjankumar Sinha sinhaan@rknecc.edu 9096415621 Student 11 |
| 28 | IR2023-871833 | 30-07-2023 | IMAGE SEMANTIC SEGMENTATION: SCENE AWARE SYSTEM FOR AUTONOMOUS VEHICLE TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Neha Tomar tomarns@rknecc.edu 7420843211 Alumni 20201000917056 |
| 29 | IR2023-871742 | 27-07-2023 | Field Programmable Gate Array based systems' security TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Tejashree Narayan Agasti tejashreeagasti@gmail.com 9370140516 Alumni 20201000917089 |
| 30 | IR2023-871502 | 21-07-2023 | Network Security and connectivity Tool TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | Sandesh Sachdev sachdevst@rknecc.edu 9921939226 Student 20201000917524 |

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|----|---------------|------------|--|---------|---|---|
| 31 | IR2023-862618 | 29-04-2023 | Convertible Recreational Retrofit Vehicle TRL Title - TRL 3 | 2021-22 | Academic Requirement/Study Project | ASHWIN DUBE ashwin.nit18@gmail.com 7620087268 Student 20221000900184 |
| 32 | IR2023-862341 | 29-04-2023 | COMPACT KICK SCOOTER TRL Title - TRL 3 | 2021-22 | Academic Research Assignment/Industry Sponsored Project | Vedant Pulliwar pulliwarva@rkneec.edu 9021250985 Student 21MEU1060MEU1 |
| 33 | IR2023-861678 | 27-04-2023 | Path Planning of Robotic Arc Welding TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Aditya Choudhary chaudharyam@rkneec.edu 8600220939 Student 20211000917196 |
| 34 | IR2023-860857 | 25-04-2023 | Wire Coiling and Tagging Machine TRL Title - TRL 2 | 2021-22 | Academic Requirement/Study Project | Aniket Ghagare ghagareap@gmail.com 7888117026 Student 20201000918525 |
| 35 | IR2023-860630 | 24-04-2023 | Design & Analysis of Cooling Arrangement for Solar Photovoltaic Module TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | MAYANK KUMAR mayankkuma00@gmail.com 9284350768 Student 20221000900186 |
| 36 | IR2023-860627 | 24-04-2023 | Eco Friendly Spacer TRL Title - TRL 1 | 2022-23 | Independent Assignment/Non-academic Study Project | Adarsh Mishra mishraa_2@rkneec.edu 8624918814 Student 20211000916987 |

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| 37 | IR2023-860417 | 24-04-2023 | Automated Dual Runner System TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | Prathamesh Vinod Wandile wandilepv@rknec.edu 9579395367 Student 20211000917021 |
| 38 | IR2023-860176 | 23-04-2023 | Optimized Steering Knuckle Design using Generative Design Approach TRL Title - TRL 3 | 2022-23 | Academic Research Assignment/Industry Sponsored Project | RITIKA RANJAN ritikaranjan1710@gmail.com 9404886229 Student 20201000918514 |
| 39 | IR2023-860142 | 23-04-2023 | DESIGN OF INTELLIGENT BRAKING SYSTEM TO REDUCE REACTION TIME TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | ANISH CHANDRASHEKHAR MOTGHARE anishmotghare@gmail.com 7420835503 Student 20201000918526 |
| 40 | IR2023-860094 | 22-04-2023 | MODIFICATION OF DESERT COOLER WITH HEAT EXCHANGER TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | SHRIKANT KAITHWAS kaithwasst@rknec.edu 8080085691 Student 55 |
| 41 | IR2023-859981 | 21-04-2023 | Mechanism for Cervical Physiotherapy TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | Aniket Ghagare ghagareap@gmail.com 7888117026 Student 20201000918525 |
| 42 | IR2023-859095 | 18-04-2023 | Identification of species of medicinal | 2022-23 | Academic Requirement/Study Project | Akshat Pande pandeads_4@rknec.edu |

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| | | | leaves TRL Title - TRL 3 | | | 8856089602 Student 2021100091693 4 |
| 43 | IR2023-858733 | 16-04-2023 | saliency detection using wavelet fusion TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | Grishma Acharya acharyagr@rknec.edu 9307583854 Student 2020100091728 1 |
| 44 | IR2023-858364 | 15-04-2023 | Growing agro - A agriculture promoting app to help farmers. TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | ABHISHEK MANGULKAR mangulkaras@rknec.edu 8766925760 Student 2021100091693 1 |
| 45 | IR2023-858286 | 15-04-2023 | Dynamic Audience Reaction Prediction Application (DARPAN) TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Soham Mundhada soham.mundhada@gmail.com 8668322731 Student 2020100091753 8 |
| 46 | IR2023-858257 | 15-04-2023 | Industrial fuse puller TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | Neeraj Dwivedi dwivedin1211@gmail.com 7709803366 Student 2020100091855 0 |
| 47 | IR2023-857938 | 14-04-2023 | Study of Vegetation Cover using Normalized Differential Vegetation Index TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | Vaishnav Deepak Kothari kotharivd@rknec.edu 9422804900 Student 2020100091767 1 |
| 48 | IR2023-855937 | 12-04-2023 | Human Choice Predictor | 2022-23 | Academic Requirement/Study Project | Khushi Jaiprakash Khatri |

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|----|---------------|------------|---|---------|---|---|
| | | | Using Machine Learning For Amazon Go Shopping TRL Title - TRL 2 | | | khatrikhushi181@gmail.com 9067071396 Student 20211000917153 |
| 49 | IR2023-855417 | 11-04-2023 | Carbon Emission Prediction and Visualization. TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Vaidehi Choudhari choudharivd@rknec.edu 7767877936 Student |
| 50 | IR2023-855415 | 11-04-2023 | Lost + Found: The Lost Angel Investigator TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Bhavesh Kewalramani kewalramanibb@rknec.edu 7498930475 Student 20201000917474 |
| 51 | IR2023-855341 | 11-04-2023 | Fish species detection and identification TRL Title - TRL 3 | 2022-23 | Academic Research Assignment/Industry Sponsored Project | Abhiyant gwalani gwalanian@rknec.edu 8208339346 Student |
| 52 | IR2023-855342 | 11-04-2023 | Fish species detection and identification TRL Title - TRL 3 | 2022-23 | Academic Research Assignment/Industry Sponsored Project | Abhiyant gwalani gwalanian@rknec.edu 8208339346 Student |
| 53 | IR2023-854698 | 11-04-2023 | Chatbot as an Educational Query Engine TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Navya Verma vermanm@rknec.edu 9823049376 Student |

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|----|---------------|------------|--|---------|------------------------------------|--|
| 54 | IR2023-854355 | 10-04-2023 | Mobile App to detect Counterfeit Currency TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | pranay jain jainpa_2@rknec.edu 7387066313 Student 20211000916962 |
| 55 | IR2023-853914 | 09-04-2023 | Sign Board Translator App TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Rutuj Surendra Runwal runwalrs@rknec.edu 7972080884 Student 20201000917523 |
| 56 | IR2023-853895 | 09-04-2023 | Renal crystal analysis using metaheuristic algorithm TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Swayam Agrawal agrawalsr_13@rknec.edu 8888194850 Student 20211000916976 |
| 57 | IR2023-853762 | 08-04-2023 | Energy Aware Job Scheduling and Simulation in a Cloud Datacenter TRL Title - TRL 1 | 2022-23 | Academic Requirement/Study Project | Tejas Satyanarayan Bhutada bhutadats@rknec.edu 6376384122 Student 20201000918503 |
| 58 | IR2023-853573 | 07-04-2023 | A Textual Question Answering and Handwritten Answer Evaluation System for Hindi Language TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Rachita Bharambe bharamberm@rknec.edu 9284372996 Student 20201000917442 |
| 59 | IR2023-853570 | 07-04-2023 | Fault Detection in manufacturi | 2022-23 | Academic Requirement/Study Project | Shubham Joshi joshisd@rknec.edu |

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| | | | ng machines TRL Title - TRL 3 | | | 7350391688 Student 20201000917536 |
| 60 | IR2023-853554 | 07-04-2023 | Dynamic Microservice based Scalable Approach to List Product Deals TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Radha Sachin Malichkar malichkarrs@rkneec.edu 7666686798 Student 20201000917443 |
| 61 | IR2023-853545 | 07-04-2023 | Resume Screening and Parsing through Natural Language Processing (NLP) TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Pravesh Mukesh Dholwani dholwanipm@rkneec.edu 8180892741 Student 20211000917138 |
| 62 | IR2023-837988 | 06-04-2023 | Real Time Drowsiness Detection System for Student Tracking using Machine Learning TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Himani Manoj Dighorikar dighorikarhm@rkneec.edu 9423412051 Student |
| 63 | IR2023-837962 | 06-04-2023 | A Recommendation System for Food Tourism TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Ritesh Yadav yadavrj@rkneec.edu 7972907036 Student 20211000916970 |
| 64 | IR2023-837749 | 06-04-2023 | Job Recommendation System | 2022-23 | Academic Requirement/Study Project | Gourav Rushiya rushiyagr@rkneec.edu 7067987136 Student |

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| | | | TRL Title - TRL 3 | | | 2021100091694 4 |
| 65 | IR2023-837711 | 05-04-2023 | Tour Planner TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Pratik Pimpalkar pimpalkarps@rk nec.edu 7028491887 Student 2021100091696 5 |
| 66 | IR2023-837661 | 05-04-2023 | Hydroponics System TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | Dhruv Singhaniya singhaniyadp@rk nec.edu 7058899855 Student 2020100091733 2 |
| 67 | IR2023-837564 | 05-04-2023 | City Ranking System TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Rishi Ojha ojharl@rknec.edu 9764061088 Student 2021100091696 9 |
| 68 | IR2023-837553 | 05-04-2023 | Testing resilience of EC2, RDS, Availability Zone using Chaos Engineering by injecting faults and Auto-correcting them using corrective action TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Rajat Kale kalers_1@rknec.edu 9325652762 Student 2021100091696 7 |
| 69 | IR2023-837552 | 05-04-2023 | Automated exam paper Checking using semantic analysis | 2022-23 | Academic Requirement/Study Project | Chinmayee Sonboir sonboirci@rknec.edu 8767461464 Student |

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|----|---------------|------------|---|---------|------------------------------------|---|
| | | | TRL Title - TRL 3 | | | 2021100091692 2 |
| 70 | IR2023-837547 | 05-04-2023 | Human Action Detection and Recognition Using Image Processing TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Abhinashkumar Mehta mehtaas_1@rkne c.edu 8381018512 Student 2021100091692 9 |
| 71 | IR2023-837543 | 05-04-2023 | Machine Translation for Low Resource Indian Languages TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Anuj Prashant Dharme dharmeap_1@rk nec.edu 8450967265 Student 2021100091693 8 |
| 72 | IR2023-837542 | 05-04-2023 | Building a Cloud native and future proof serverless data lake in AWS Cloud platform to perform data catalog management. TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Niraj Deshpande deshpandenb@rk nec.edu 9322847539 Student 2021100091695 7 |
| 73 | IR2023-837540 | 05-04-2023 | AI based Chatbot on Fashion Recommendation TRL Title - TRL 2 | 2022-23 | Academic Requirement/Study Project | SEJAL PATIL patilsa_2@rkne c.edu 8767404854 Student 2021100091692 6 |
| 74 | IR2023-837538 | 05-04-2023 | Classification of Plants for Diagnosis of Human diseases | 2022-23 | Academic Requirement/Study Project | Srushti Kamdi kamdiss_1@rkne c.edu 9322366797 Student |

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|----|---------------|------------|--|---------|------------------------------------|---|
| | | | TRL Title - TRL 3 | | | 20211000916927 |
| 75 | IR2023-837535 | 05-04-2023 | Automated Identification of Fish Species(AutoFis) TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Prajwal Bante bantepr@rknec.edu 7020263642 Student 20211000916960 |
| 76 | IR2023-837534 | 05-04-2023 | IoT Based Smart Aquarium System for Remote Monitoring and Automated Controlling of Functions TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Rajat Bijekar bijekarr@rknec.edu 9309776431 Student 20211000916966 |
| 77 | IR2023-837533 | 05-04-2023 | Remotely Managed IoT Based Smart Irrigation System TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Nirja Jaurkar jaurkarnd@rknec.edu 8390302417 Student 20211000916924 |
| 78 | IR2023-837532 | 05-04-2023 | Cost and Usage governance in AWS Cloud platform TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Megha Shivhare shivhare@rknec.edu 9373774936 Student 20221000900179 |
| 79 | IR2023-837531 | 05-04-2023 | Design and development of Knowledge Graph TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Pratham Gangwal gangwalpk@rknec.edu 9284104061 Student 20211000916964 |

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|----|---------------|------------|--|---------|---|---|
| 80 | IR2023-837528 | 05-04-2023 | Sentiment analysis on twitter dataset TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Sushmita Mahapatra mahapatrasm@rknc.edu 9561979986 Student 20211000916975 |
| 81 | IR2023-837527 | 05-04-2023 | Traffic density Analyzer and Management TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Abhishek Badar badarap@rknc.edu 9096684842 Entrepreneur 20211000916930 |
| 82 | IR2023-837526 | 05-04-2023 | NFT MarketPlace ApnaBazaar TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Harsh Singh singhhr@rknc.edu 8626028599 Student 20221000900181 |
| 83 | IR2023-837043 | 03-04-2023 | Remotely Accessed Smart CCTV System Using Machine Learning TRL Title - TRL 3 | 2022-23 | Academic Requirement/Study Project | Apurva Nandkishor Thote thotean@rknc.edu 9834420372 Student 2020100917277 |
| 84 | IR2023-837016 | 03-04-2023 | Sign to Speech Conversion for specially-abled people TRL Title - TRL 4 | 2022-23 | Academic Requirement/Study Project | Sadnyani Vijay Gomkar gomkarsv@rknc.edu 7028768283 Student 20201000917297 |
| 85 | IR2022-809417 | 30-09-2022 | Comparative Analysis of Power Loss using Different Modulation Techniques | 2019-20 | Academic Research Assignment/Industry Sponsored Project | Preeti Kapoor kapoorpv@rknc.edu 9823886479 Faculty |

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|----|---------------|------------|---|---------|------------------------------------|---|
| | | | in Modular Multilevel Converter TRL Title - TRL 2 | | | |
| 86 | IR2022-808268 | 30-09-2022 | Automatic License Number Plate Recognition TRL Title - TRL 2 | 2021-22 | Academic Requirement/Study Project | Chetana Thaokar thaokarcb@rkneec.edu 9730698941 Faculty IT004 |
| 87 | IR2022-807628 | 29-09-2022 | A COMMUNICATION SYSTEM FOR VISUALLY IMPAIRED PEOPLE TRL Title - TRL 2 | 2019-20 | Academic Requirement/Study Project | madhuri madhuri.tayal@gmail.com 8956113651 Faculty it007 |
| 88 | IR2022-791997 | 19-09-2022 | Forecasting Yield and Prices of Rice for Farmers in India TRL Title - TRL 2 | 2021-22 | Academic Requirement/Study Project | Aarti Karandikar aartikarandikar@gmail.com 9766008513 Faculty CS004 |
| 89 | IR2022-771626 | 21-08-2022 | Static PEMFC Model Simulation to Demonstrate the Working with Converter TRL Title - TRL 2 | 2021-22 | Academic Requirement/Study Project | Shraddha Meshram meshramsk@rkneec.edu 8830694697 Alumni |
| 90 | IR2022-771555 | 21-08-2022 | CMOS-NAND Based Gate Driver Card of IGBT for | 2020-21 | Academic Requirement/Study Project | gunwanti shende shendegunwanti21@gmail.com 9168026014 Alumni |

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|----|---------------|------------|--|---------|---|--|
| | | | Fault Diagnosis in VSI TRL Title - TRL 2 | | | |
| 91 | IR2022-771553 | 21-08-2022 | Modelling and Speed Control of Permanent Magnet Brushless DC Motor using PID TRL Title - TRL 2 | 2019-20 | Academic Requirement/Study Project | gunwanti shende shendegunwanti21@gmail.com 9168026014 Alumni |
| 92 | IR2022-771539 | 21-08-2022 | Reactive Power Compensation of the Grid Connected PV System TRL Title - TRL 2 | 2019-20 | Academic Research Assignment/Industry Sponsored Project | Pratik Shyam Manusmare psmanusmare@gmail.com 8857837863 Alumni |
| 93 | IR2022-768882 | 13-08-2022 | Continuous Automatic Variable Transmission (CAVT) for Bicycle TRL Title - TRL 2 | 2021-22 | Academic Requirement/Study Project | Ram Laxmikant Bhute bhuterl@rknec.edu 9730512981 Student |
| 94 | IR2022-768709 | 12-08-2022 | Water Wastage Control & Monitoring System for Railway Coaches using IoT. TRL Title - TRL 2 | 2021-22 | Academic Requirement/Study Project | Anish Garg anishgarg877@gmail.com 9799123337 Student |
| 95 | IR2022-768654 | 12-08-2022 | Wind Mill Fall Arrester TRL Title - TRL 2 | 2021-22 | Academic Research Assignment/Industry | Ojas Maywade ojasmaywade16@gmail.com 8275777866 Alumni |

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| | | | | | Sponsored Project | |
| 96 | IR2022-767405 | 07-08-2022 | Swarm Robots for Construction TRL Title - TRL 2 | 2021-22 | Academic Requirement/Study Project | Uwais Ahmed uwaisahmed41@gmail.com 7030863543 Alumni |
| 97 | IR2022-767016 | 05-08-2022 | Design of Bamboo Splitter Using Ergonomic Intervention TRL Title - TRL 2 | 2021-22 | Academic Research Assignment/Industry Sponsored Project | Upasana Ambhorkar upasana0811@gmail.com 9673050049 Student |
| 98 | IR2022-765691 | 26-07-2022 | Portable Fingerprint Sensor based "Classroom Attendance Logger" for Teachers/Administrators to ease the process of marking attendance of the Students TRL Title - TRL 2 | 2021-22 | Independent Assignment/Non-academic Study Project | Sumit Dandekar sumit809.sd@gmail.com 9970000104 Alumni |
| 99 | IR2022-765352 | 23-07-2022 | StudieBuddy TRL Title - TRL 2 | 2021-22 | Independent Assignment/Non-academic Study Project | Vinay Arun Dhawad vinaydhawad17@gmail.com 9172194317 Student |
| 100 | IR2022-764993 | 30-11--0001 | CineVibes TRL Title - TRL 1 | 2019-20 | Independent Assignment/Non-academic Study Project | Mandar Mohite mandarymohite@gmail.com 9518731969 Alumni |

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|-----|---------------|-------------|--|---------|---|---|
| 101 | IR2022-769279 | 30-11--0001 | Wireless Boardless Drawing Tablet TRL Title - TRL 1 | 2021-22 | Independent Assignment/Non-academic Study Project | Rohit Patil patilrp@rknec.edu 9156777887 Student |
| 102 | IR2022-767918 | 30-11--0001 | Challenges in maturity of OEE Software in MSMEs of Central India TRL Title - TRL 3 | 2021-22 | Academic Requirement/Study Project | KARTIK kartikfadnavis100@gmail.com 9462424090 Student |
| 103 | IR2022-767030 | 30-11--0001 | Approximation analysis of metaheuristic approach CRAFT and mCRAFT in plant layout optimization TRL Title - TRL 3 | 2021-22 | Academic Requirement/Study Project | Mitali Jagdish Agrawal mitaliagrawal9168@gmail.com 7264048049 Alumni |
| 104 | IR2022-767370 | 30-11--0001 | Productivity improvement of supermarket by reducing customer waiting time TRL Title - TRL 1 | 2021-22 | Academic Requirement/Study Project | Mitali Jagdish Agrawal mitaliagrawal9168@gmail.com 7264048049 Alumni |
| 105 | IR2022-767371 | 30-11--0001 | To ergonomically design examination answer book for enhancing the efficiency of evaluation process | 2021-22 | Academic Requirement/Study Project | Mitali Jagdish Agrawal mitaliagrawal9168@gmail.com 7264048049 Alumni |

| | | | TRL Title - TRL 1 | | | |
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| 106 | IR2022-809018 | 30-11--0001 | A SYSTEM FOR AUTOMATION OF DEVICES UTILIZING BRAIN COMPUTER INTERFACE TRL Title - TRL 3 | 2019-20 | Independent Assignment/Non-academic Study Project | Rakesh K Kadu kadurk@rknec.edu 9881741801 Faculty ITT006 |
| 107 | IR2022-767090 | 30-11--0001 | Smart Vacubin with Contactless Waste Collection TRL Title - TRL 3 | 2021-22 | Academic Requirement/Study Project | Ananya Timande timandea_1@rkne c.edu 9960752350 Alumni |
| 108 | IR2022-767363 | 30-11--0001 | Covid-19 norms checker for face mask detection and social distancing violation detection TRL Title - TRL 3 | 2021-22 | Academic Research Assignment/Industry Sponsored Project | Shivani Agrawal agrawalsa_1@rkne .edu 9096866453 Alumni |
| 109 | IR2022-767493 | 30-11--0001 | Digitized IV Infusion Bottle Monitoring and Alerting System TRL Title - TRL 3 | 2021-22 | Academic Requirement/Study Project | Vedanti Ravish Deshmukh vedantideshmukh3 0@gmail.com 7397856088 Alumni |
| 110 | IR2022-806893 | 30-11--0001 | Prediction of Sugar and Carbohydrates in Sapota using Hyperspectr | 2021-22 | Academic Requirement/Study Project | Nitesh Dani daninp@rknec.edu 8080009832 Student |

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| | | | al Image Segmentation TRL Title - TRL 1 | | | |
| 111 | IR2022-767527 | 30-11--0001 | Power Generator with Health Monitoring IOT Framework TRL Title - TRL 3 | 2021-22 | Academic Requirement/Study Project | Mandar Mukund Pimparkar mandarmpimparkar@gmail.com 9112394508 Alumni |
| 112 | IR2022-768035 | 30-11--0001 | Development of Triboelectric Blue Energy Harvester TRL Title - TRL 3 | 2019-20 | Academic Requirement/Study Project | Pranjali chakole pranjalicakole@gmail.com 8149610400 Alumni |
| 113 | IR2022-767893 | 30-11--0001 | Contactless Voting Machine for Covid Patients TRL Title - TRL 1 | 2021-22 | Academic Requirement/Study Project | Atharv Parker atharv.parker@gmail.com 8793587185 Student |
| 114 | IR2022-767920 | 30-11--0001 | Early Disease Detection using Android Application based on Nailâ€™s Image TRL Title - TRL 3 | 2020-21 | Academic Research Assignment/Industry Sponsored Project | Pranav Sanjay Wazarkar wazarkar3108@gmail.com 9370490116 Alumni |
| 115 | IR2022-767797 | 30-11--0001 | Influencer Marketing Counsel Module Development TRL Title - TRL 1 | 2020-21 | Academic Research Assignment/Industry Sponsored Project | Sudarshan Sunil Ahir ahirsudarshan794@gmail.com 9422126766 Student |

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|-----|---------------|-------------|---|---------|---|--|
| 116 | IR2022-767977 | 30-11--0001 | Multi tool Universal CNC machine TRL Title - TRL 1 | 2021-22 | Independent Assignment/Non-academic Study Project | Nagesh Udasi nageshudasi123@gmail.com 7774009869 Student |
| 117 | IR2022-768186 | 30-11--0001 | Establishment of modified Minimum Quantity Lubrication (MQL) system for machinability improvement TRL Title - TRL 3 | 2021-22 | Academic Research Assignment/Industry Sponsored Project | Yogesh V Deshpande deshpandeyv@rknec.edu 9096192751 Faculty |
| 118 | IR2022-768193 | 30-11--0001 | IoT Based Conveyor Belt System For Remote Monitoring TRL Title - TRL 3 | 2021-22 | Academic Research Assignment/Industry Sponsored Project | RAKSHAL AGRAWAL rakshalagrawal@gmail.com 9960876158 Faculty |
| 119 | IR2022-768258 | 30-11--0001 | Fabrication Of Extended Voltage Symmetric Supercapacitor Device And Method For Fabricating Same TRL Title - TRL 3 | 2019-20 | Academic Requirement/Student Project | Mrunali D Wagh mrunaliwagh66@gmail.com 7038046596 Alumni |
| 120 | IR2022-768605 | 30-11--0001 | Development of Bamboo-Epoxy Matrix TRL Title - TRL 3 | 2021-22 | Academic Research Assignment/Industry Sponsored Project | Bhavesh Verma vermabp@rknec.edu 9021491829 Alumni |

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|-----|---------------|-------------|--|---------|---|---|
| 121 | IR2022-768922 | 30-11--0001 | Plant layout optimization using meta-heuristic approach CRAFT and mCRAFT TRL Title - TRL 3 | 2021-22 | Academic Research Assignment/Industry Sponsored Project | Ayush Agrawal ayush123ngp@gmail.com 8793537156 Alumni |
| 122 | IR2022-770029 | 30-11--0001 | Slope Stability Analysis by GeoSlope TRL Title - TRL 1 | 2019-20 | Academic Requirement/Study Project | Prasad Prakashrao Dahale dahalepp@rknec.edu 9975497487 Faculty |
| 123 | IR2022-770151 | 30-11--0001 | Effect of suction on shear strength of unsaturated soil. TRL Title - TRL 1 | 2019-20 | Academic Requirement/Study Project | Aashish A Mehta mehtaaa@rknec.edu 9623212557 Faculty |
| 124 | IR2022-771324 | 30-11--0001 | Interface Design and Performance Analysis of Proton Exchange Membrane Fuel Cell using Python TRL Title - TRL 3 | 2021-22 | Academic Research Assignment/Industry Sponsored Project | Siddhi Chauhan chauhansa@rknec.edu 8788655758 Student |
| 125 | IR2022-771579 | 30-11--0001 | E-learning Platform application TRL Title - TRL 3 | 2021-22 | Academic Requirement/Study Project | Navya Verma vermanm@rknec.edu 9823049376 Student |
| 126 | IR2022-771545 | 30-11--0001 | Predictive Text Generation using Deep Learning | 2021-22 | Academic Requirement/Study Project | Himani Manoj Dighorikar dighorikarhm@rknec.edu 9423412051 |

| | | | Approaches TRL Title - TRL 3 | | | Student |
|-----|---------------|-------------|--|---------|---|---|
| 127 | IR2022-771538 | 30-11--0001 | An Approach to Paperless Administration of Offices in India using Blockchain TRL Title - TRL 3 | 2021-22 | Independent Assignment/Non-academic Study Project | Atharva Paramsukh Paliwal app.paliwal@gmail.com 7020396354 Student |
| 128 | IR2022-771750 | 30-11--0001 | IOT based Smart Crate Weighing Machine for Agriculture System TRL Title - TRL 3 | 2020-21 | Academic Requirement/Study Project | Pravinkumar Mahadeorao Sonsare sonsarep@rknec.edu 9422731370 Faculty |
| 129 | IR2022-771728 | 30-11--0001 | Gesture based I/O system TRL Title - TRL 3 | 2021-22 | Academic Requirement/Study Project | Aryan Gupta itsmyid57@gmail.com 9096484057 Student |
| 130 | IR2022-771580 | 30-11--0001 | Survey And Analysis Of Different Transformer Models For Abstractive Text Summarization TRL Title - TRL 3 | 2021-22 | Academic Requirement/Study Project | Shubham Saboo sabooshubham2000@gmail.com 9405320787 Alumni |
| 131 | IR2022-790846 | 30-11--0001 | Mental Health Portal TRL Title - TRL 3 | 2021-22 | Academic Research Assignment/Industry Sponsored Project | Jereen Valsson jereenv2@gmail.com 9423110133 Student |

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|-----|---------------|-------------|--|---------|---|---|
| 132 | IR2022-792570 | 30-11--0001 | REMOTE METER READING AND BILLING TRL Title - TRL 3 | 2019-20 | Academic Research Assignment/Industry Sponsored Project | rashmi welekar rashmi.welekar@gmail.com 9850396030 Faculty |
| 133 | IR2022-792579 | 30-11--0001 | Remote Bike Access System TRL Title - TRL 3 | 2020-21 | Academic Requirement/Student Project | rashmi welekar rashmi.welekar@gmail.com 9850396030 Faculty |
| 134 | IR2022-806912 | 30-11--0001 | Gender Recognition By Voice TRL Title - TRL 3 | 2021-22 | Academic Requirement/Student Project | Vaidehi Choudhari choudharivd@rknetc.edu 7767877936 Student |
| 135 | IR2022-806859 | 30-11--0001 | License Plate Detection using YOLO v4 TRL Title - TRL 3 | 2021-22 | Academic Requirement/Student Project | Rishabh Rathi Rishabhrathi000@gmail.com 9960053097 Alumni |
| 136 | IR2022-790669 | 30-11--0001 | Smart City Waste Management System through ICT and IOT driven Solution TRL Title - TRL 1 | 2021-22 | Academic Requirement/Student Project | Neeraj Dwivedi dwivedinr@rknetc.edu 7741945024 Student |
| 137 | IR2022-792809 | 30-11--0001 | THE WATCH-KEEPER : A SECURITY SYSTEM TO PREVENT GAS EXPLOSIONS TRL Title - TRL 3 | 2019-20 | Academic Research Assignment/Industry Sponsored Project | Aarti Karandikar aartikarandikar@gmail.com 9766008513 Faculty CS004 |

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|-----|---------------|-------------|---|---------|------------------------------------|--|
| 138 | IR2022-806715 | 30-11--0001 | CHABOT BASED CRIME REGISTRATION & CRIME AWARENES S SYSTEM TRL Title - TRL 1 | 2020-21 | Academic Requirement/Study Project | Ashish Chandak chandakav@rknec.edu 8237851429 Faculty AD13010 |
| 139 | IR2022-806885 | 30-11--0001 | DESIGN AND TOPOLOGY OPTIMIZATION OF STEERING UPRIGHT TRL Title - TRL 3 | 2021-22 | Academic Requirement/Study Project | ALOK KUMAR JHA jhaak1@rknec.edu 7987443783 Faculty jhaak1 |
| 140 | IR2022-806970 | 30-11--0001 | A System for Assisting a Visually Impaired person TRL Title - TRL 3 | 2021-22 | Academic Requirement/Study Project | Shailendra Someshwar Aote shailendra.aote@gmail.com 9890510477 Faculty aotess1 |
| 141 | IR2022-812868 | 30-11--0001 | A Security System for Detecting Trespassers TRL Title - TRL 3 | 2020-21 | Academic Requirement/Study Project | Devishree Naidu devishree.naidu@gmail.com 9422487120 Faculty CS009 |

Prototypes

| Sr. No. | Innovation ID | Date of Submission | Innovation Title | FY of Development | Developed as part of | Team Lead Details |
|---------|-----------------|--------------------|---|-------------------|------------------------------------|--|
| 1 | IR2023 - 874840 | 25-08-2023 | EXPLORER Ball Robot TRL Title - TRL 4 | 2022-23 | Academic Requirement/Study Project | Arpit R. Paunikar paunikarar1@rknec.edu |

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|---|---------------------------|----------------|---|---------|---|---|
| 2 | IR2023 - 87425 2 | 24-08- 2023 | PerkVenue - Blockchain based Reward Point System TRL Title - TRL 5 | 2022-23 | Academic Requirement/Stud y Project | Harsh Sandesh Gupta guptahs_1@rkne c.edu |
| 3 | IR2023 - 87402 6 | 22-08- 2023 | Arduino based obstacle avoiding robot car TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | burhanuddin saify saifybs@rknec.ed u |
| 4 | IR2023 - 87400 1 | 22-08- 2023 | RC Hand Brake system TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Vineet Shah shahvv@rknec.ed u |
| 5 | IR2023 - 87395 2 | 21-08- 2023 | Fire Fighting Robot TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Arin Tiwari tiwaria2@rknec.e du |
| 6 | IR2023 - 87393 4 | 21-08- 2023 | AUTOMATIC IRON MECHANISM TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | DARSHAN I BONDRE ,PRIYANSHU R AGRAWAL ,YASH S TRIPATHI agrawalpr_3@rkn ec.edu |
| 7 | IR2023 - 87393 3 | 21-08- 2023 | AUTOMATIC IRON MECHANISM TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | DARSHAN I BONDRE ,PRIYANSHU R AGRAWAL ,YASH S TRIPATHI agrawalpr_3@rkn ec.edu |
| 8 | IR2023 - 87393 2 | 21-08- 2023 | AUTOMATIC IRON MECHANISM TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | DARSHAN I BONDRE ,PRIYANSHU R AGRAWAL ,YASH S TRIPATHI agrawalpr_3@rkn ec.edu |

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|----|---------------------------|----------------|--|---------|---|---|
| 9 | IR2023 - 87393 1 | 21-08- 2023 | AUTOMATIC IRON MECHANISM TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | DARSHAN I BONDRE ,PRIYANSHU R AGRAWAL ,YASH S TRIPATHI agrawalpr_3@rkne c.edu |
| 10 | IR2023 - 87393 0 | 21-08- 2023 | AUTOMATIC IRON MECHANISM TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | DARSHAN I BONDRE ,PRIYANSHU R AGRAWAL ,YASH S TRIPATHI agrawalpr_3@rkne c.edu |
| 11 | IR2023 - 87389 3 | 21-08- 2023 | universal hose pipe connector TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Kartikeyan Venkatesh venkateshk@rkne c.edu 9860979321 |
| 12 | IR2023 - 87298 3 | 12-08- 2023 | Power and Area Aware Digital Fingerprint Generator based on Bump Physically Unclonable Function TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Rutuparna Manish Patkar rutuparnap42@g mail.com |
| 13 | IR2023 - 87246 1 | 07-08- 2023 | ATTENDANCE MANAGEMENT SYSTEM USING FACE DETECTION AND RECOGNITION TRL Title - TRL 6 | 2021-22 | Academic Requirement/Stud y Project | Akhilesh Mishra aakhileshmishra 2001@gmail.com |
| 14 | IR2023 - 87218 8 | 05-08- 2023 | ON TREE MANGO FRUIT DETECTION and COUNTING SYSTEM TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Romil Mahajan mahajanrp@rkne c.edu |

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|----|---------------------------|----------------|--|---------|--|--|
| 15 | IR2023 - 87212 4 | 04-08- 2023 | American Sign Language Recognition & Translation using Deep Learning frameworks TRL Title - TRL 6 | 2022-23 | Academic Requirement/Stud y Project | Ketaki Tank tankkp@rknec.ed u |
| 16 | IR2023 - 87197 3 | 01-08- 2023 | To develop a facial authentication system that is able to recognize multiple individuals in the same image. TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Ayush Umesh Jain jainau@rknec.ed u |
| 17 | IR2023 - 87192 9 | 31-07- 2023 | Dynamic Attendance Management System TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Purva Pramod Bawankar bawankarpp_1@r knec.edu |
| 18 | IR2023 - 87189 8 | 31-07- 2023 | Early Detection of Glaucoma using CNN Architecture TRL Title - TRL 4 | 2022-23 | Academic Research Assignment/Indus try Sponsored Project | Ayush Balpande ayushbalpande0 2@gmail.com |
| 19 | IR2023 - 87184 5 | 30-07- 2023 | Smart Agriculture using IoT TRL Title - TRL 6 | 2022-23 | Academic Requirement/Stud y Project | Amey R Thakare ameythakare03@ gmail.com |
| 20 | IR2023 - 87183 0 | 29-07- 2023 | A Swallowable Medical Device TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Krish Tomar tomarks@rknec.e du |
| 21 | IR2023 - 87175 7 | 27-07- 2023 | A SYSTEM FOR DETECTION OF MOISTURE CONTENT IN SANITARY PAD | 2022-23 | Academic Requirement/Stud y Project | Roshan Ashok Patar patarra@rknec.e du |

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|----|---------------------------|----------------|---|---------|--|---|
| | | | TRL Title - TRL 5 | | | |
| 22 | IR2023 - 87175 3 | 27-07- 2023 | COMMUNICATIO N BETWEEN ENERGY METERS AND PLC BASED ON MODBUS PROTOCOL TRL Title - TRL 4 | 2022-23 | Academic Research Assignment/Indus try Sponsored Project | SIDDHESH RAVINDRA NANDANWAR siddheshnandan war123@gmail.co m |
| 23 | IR2023 - 87175 1 | 27-07- 2023 | Shoulder Rehabilitation Using Virtual Physiotherapy System TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Siddhesh Gupta guptas_2@rknec. edu |
| 24 | IR2023 - 87165 7 | 25-07- 2023 | Effective UV-C (Ultraviolet) Air Flow Disinfection System for Burn Patients outside Intensive Care Unit TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Manthan Diliprao Ingale ingalemd@rknec. edu |
| 25 | IR2023 - 87154 1 | 22-07- 2023 | Solar operated pesticide sprayer machine using IOT technology TRL Title - TRL 6 | 2022-23 | Academic Requirement/Stud y Project | Shrijal Rai raishrijal@gmail. com |
| 26 | IR2023 - 86245 7 | 29-04- 2023 | Design And Development of Solar Dryer For Floral waste disposal TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Harsh Tiwari tiwarihv_1@rkne c.edu |
| 27 | IR2023 - 86111 4 | 25-04- 2023 | Laser Dimension Measurement System (LDMS) for Fused Deposition | 2022-23 | Academic Research Assignment/Indus try Sponsored Project | Saurabh Khanna khannass@rknec .edu |

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|----|---------------------------|----------------|---|---------|--|---|
| | | | Modeling (FDM) 3D printer TRL Title - TRL 4 | | | |
| 28 | IR2023 - 86099 9 | 25-04- 2023 | Energy harvesting device for 2 wheeler suspension TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Hrushikesh Pawar hkpawar04@gma il.com |
| 29 | IR2023 - 86017 4 | 23-04- 2023 | Multi-Purpose Remote-Operated Container for solar parabolic dish collector with attached receiver TRL Title - TRL 4 | 2022-23 | Academic Research Assignment/Indus try Sponsored Project | Shrey Chachra chachrasb@rkne c.edu |
| 30 | IR2023 - 86017 3 | 23-04- 2023 | Disease Detection In Tomato Plant TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Mayank Jitendra Tiwari tiwarimj@rknec.e du |
| 31 | IR2023 - 86012 9 | 23-04- 2023 | An Evacuated tube based concentrating solar cooking system TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | ADVAIT N. KHADGI khadgian@rknec. edu |
| 32 | IR2023 - 85932 0 | 19-04- 2023 | Detection of Pneumonia and COVID-19 using Deep Learning TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | PRASHANT KUMAR kumarp_3@rkne c.edu |
| 33 | IR2023 - 85860 0 | 15-04- 2023 | Vehicle Detection For Accident Prevention TRL Title - TRL 6 | 2022-23 | Academic Requirement/Stud y Project | Anwasha Singh singha_5@rknec. edu |

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|----|---------------------------|----------------|---|---------|---|---|
| 34 | IR2023 - 85859 9 | 15-04- 2023 | Vehicle Detection For Accident Prevention TRL Title - TRL 6 | 2022-23 | Academic Requirement/Stud y Project | Anwasha Singh singha_5@rknec. edu |
| 35 | IR2023 - 85859 8 | 15-04- 2023 | Vehicle Detection For Accident Prevention TRL Title - TRL 6 | 2022-23 | Academic Requirement/Stud y Project | Anwasha Singh singha_5@rknec. edu |
| 36 | IR2023 - 85859 7 | 15-04- 2023 | Vehicle Detection For Accident Prevention TRL Title - TRL 6 | 2022-23 | Academic Requirement/Stud y Project | Anwasha Singh singha_5@rknec. edu |
| 37 | IR2023 - 85842 3 | 15-04- 2023 | Real-Time Pothole and Patches Detection using Computer Vision. TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | NABEEL KHAN khann@rknec.ed u |
| 38 | IR2023 - 85481 2 | 11-04- 2023 | Network Security Tools for Rapid Inspection TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Sandesh Sachdev sachdevst@rknec .edu |
| 39 | IR2023 - 85458 2 | 10-04- 2023 | Pest-robo TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Yash Chotwani chotwaniyp@rkn ec.edu |
| 40 | IR2023 - 85452 3 | 10-04- 2023 | FLYING OBJECT DETECTION AND RECOGNITION TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Aniket Pardhi pardhiar_1@rkne c.edu |
| 41 | IR2023 - 85450 5 | 10-04- 2023 | Virtual Dressing Room TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Rohan Raggad raggadrr@rknec. edu |

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|----|---------------------------|----------------|---|---------|--|---|
| 42 | IR2023 - 85450 6 | 10-04- 2023 | Virtual Dressing Room TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Rohan Raggad raggadrr@rk nec. edu |
| 43 | IR2023 - 85421 8 | 10-04- 2023 | Automation Scripts for Portfolio Management TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Anshul Sharma sharmaar_4@rk nec.edu |
| 44 | IR2023 - 85396 0 | 09-04- 2023 | MACHINE LEARNING BASED OPTIMUM YIELD FORECASTING: SMART FARMING IN INDIA TRL Title - TRL 4 | 2022-23 | Academic Research Assignment/Indus try Sponsored Project | Shashank Surendra Singh Bisht bishtss_1@rk nec. edu |
| 45 | IR2023 - 85388 8 | 09-04- 2023 | Meeting Made Easy TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Arjun Thakur thakurap_1@rk nec.edu |
| 46 | IR2023 - 85381 5 | 08-04- 2023 | SAGE - The Multipurpose Voice Assistant TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Ishita Mendhekar ipmendhekar@g mail.com |
| 47 | IR2023 - 85374 3 | 08-04- 2023 | Collaborative Live Code Editor with Audio Conferencing TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Malhar Deshkar malhar19deshka r@gmail.com |
| 48 | IR2023 - 85374 0 | 08-04- 2023 | ManiacNFT TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Ajinkya Wadekar wadekarar_1@rk nec.edu |
| 49 | IR2023 - 85355 0 | 07-04- 2023 | "Prediction of assembly line stoppages at Mahindra Tractor Plant Nagpur" | 2022-23 | Academic Requirement/Stud y Project | Priyanshu Sawarkar priyanshu.sawar kar@gmail.com |

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|----|---------------------------|----------------|---|---------|--|--|
| | | | TRL Title - TRL 4 | | | |
| 50 | IR2023 - 85354 3 | 07-04- 2023 | Detection of Diseases in Tomato Plant TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Anshul Sharma sharmaar_4@rkn ec.edu |
| 51 | IR2023 - 85353 5 | 07-04- 2023 | Self-Care Application TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Anshul Sharma sharmaar_4@rkn ec.edu |
| 52 | IR2023 - 85337 9 | 06-04- 2023 | Automatic Domain Identification Using Machine Learning TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Ankita Gore gorea@rknec.edu |
| 53 | IR2023 - 85336 1 | 06-04- 2023 | DHRUVTARA - A blind guiding and searching stick via speech commands TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Tanaya Wadibhasme tanayawadibhas me@gmail.com |
| 54 | IR2023 - 83779 2 | 06-04- 2023 | Smart Water Distribution and Management System TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Hatim Shakir shakirhm@rknec .edu |
| 55 | IR2023 - 83751 8 | 05-04- 2023 | Pneumonia detection through Image Classification Using CNN TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Mohit Nilkute nilkute mk@rkne c.edu |
| 56 | IR2023 - 83749 6 | 05-04- 2023 | DYANAMIC RESPONSE ASSESSMENT OF RAILWAY BRIDGE USING INTERNET OF | 2021-22 | Academic Research Assignment/Indus try Sponsored Project | Rajesh Agare agarerg@rknec.e du |

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|----|---------------------------|----------------|---|---------|--|---|
| | | | THINGS TRL Title - TRL 4 | | | |
| 57 | IR2023 - 83736 2 | 04-04- 2023 | Automatic Punctuator using deep learning techniques. TRL Title - TRL 4 | 2022-23 | Academic Research Assignment/Indus try Sponsored Project | Yugant Gholase gholaseym@rkne c.edu |
| 58 | IR2023 - 83726 5 | 04-04- 2023 | PREDICTION OF KIDNEY DISEASE SEVERITY USING MACHINE LEARNING TRL Title - TRL 6 | 2022-23 | Academic Requirement/Stud y Project | Vedant Saboo saboovv@rknec.e du |
| 59 | IR2023 - 83708 4 | 04-04- 2023 | Hand gesture mouse control TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Piyush Deorao Pilare pilarepd@rknec.e du |
| 60 | IR2023 - 83707 2 | 03-04- 2023 | A low-cost Air Quality Monitoring IoT System using Node MCU TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Jash Baraliya baraliyaja@rknec .edu |
| 61 | IR2023 - 83703 8 | 03-04- 2023 | Fol-Bot: Smart Luggage Carrier using Wi-Fi RSSI TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Kunal Kanojiya kanojiyakg@rkne c.edu |
| 62 | IR2023 - 83689 9 | 02-04- 2023 | Sign language Interpreter for Communication with Deaf and Dumb Individuals TRL Title - TRL 4 | 2022-23 | Academic Requirement/Stud y Project | Ninad Shende shendenn@rknec .edu |

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|----|---------------------------|----------------|--|---------|---|--|
| 63 | IR2023 - 83682 1 | 01-04- 2023 | Multi layer Anti-Theft System TRL Title - TRL 4 | 2022-23 | Academic Requirement/Study Project | Rakshit Najbile najbilery@rknec.edu |
| 64 | IR2023 - 83680 8 | 01-04- 2023 | POINT OF CARE DEVICE FOR MEASUREMENT AND ANALYSIS OF VITAL PARAMETERS TRL Title - TRL 4 | 2022-23 | Academic Research Assignment/Industry Sponsored Project | Vivek kaushik kaushikvivek121@gmail.com |
| 65 | IR2022 - 80684 3 | 29-09- 2022 | Online Video Lecture Summarization TRL Title - TRL 4 | 2021-22 | Academic Requirement/Study Project | Shubhangi C. Tirpude tirpudes@rknec.edu |
| 66 | IR2022 - 80213 5 | 27-09- 2022 | Detecting Disaster from text data using machine learning TRL Title - TRL 4 | 2021-22 | Academic Requirement/Study Project | Soham Mundhada soham.mundhada@gmail.com |
| 67 | IR2022 - 79983 0 | 26-09- 2022 | Development of electric all terrain vehicle TRL Title - TRL 7 | 2021-22 | Independent Assignment/Non-academic Study Project | Hrushikesh Pawar pawarhr@rknec.edu |
| 68 | IR2022 - 79636 1 | 22-09- 2022 | Development of Integrated Test Set for SoC-SoH Estimation of Lithium-Ion Battery TRL Title - TRL 4 | 2021-22 | Academic Research Assignment/Industry Sponsored Project | Ujwal Narendra Jibhkate ujwaljibhkate@gmail.com |
| 69 | IR2022 - 79635 3 | 22-09- 2022 | Development of Integrated Test Set for SoC-SoH Estimation of Lithium-Ion Battery TRL Title - TRL 4 | 2021-22 | Academic Research Assignment/Industry Sponsored Project | Ujwal Narendra Jibhkate ujwaljibhkate@gmail.com |

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|----|---------------------------|----------------|---|---------|--|--|
| 70 | IR2022 - 79096 8 | 16-09- 2022 | Multilingual Meet Summarizer TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Vasundhara Rathod rathodv1@rknec. edu |
| 71 | IR2022 - 78229 9 | 05-09- 2022 | PlagCheck: A plagiarism detection tool TRL Title - TRL 4 | 2021-22 | Academic Research Assignment/Indus try Sponsored Project | Abhiyant gwalani gwalanian@rknec .edu |
| 72 | IR2022 - 77212 4 | 23-08- 2022 | FAKE NEWS DETECTION USING MACHINE LEARNING TRL Title - TRL 6 | 2021-22 | Academic Research Assignment/Indus try Sponsored Project | Anuragini Paunikar arpaunikar05@g mail.com |
| 73 | IR2022 - 77179 6 | 22-08- 2022 | Prediction of assembly line stoppages at Mahindra Tractor Plant Nagpur TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Priyanshu Sawarkar priyanshu.sawar kar@gmail.com |
| 74 | IR2022 - 77173 3 | 22-08- 2022 | Fault detection in manufactured products (steel surfaces) TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Shubham joshi joshishubham03 01@gmail.com |
| 75 | IR2022 - 77158 4 | 21-08- 2022 | Krytominters TRL Title - TRL 4 | 2021-22 | Independent Assignment/Non- academic Study Project | Atharva Paramsukh Paliwal app.paliwal@gma il.com |
| 76 | IR2022 - 77134 5 | 20-08- 2022 | DockIT TRL Title - TRL 4 | 2021-22 | Independent Assignment/Non- academic Study Project | Rishikesh Kale rvk.rishikeshkale @gmail.com |
| 77 | IR2022 - 77115 2 | 19-08- 2022 | A Question Answering System (Multilingual) | 2021-22 | Academic Requirement/Stud y Project | Krishna Rathi krishna.rathi222 @gmail.com |

| | | | | | | |
|----|---------------------------|----------------|--|---------|--|---|
| | | | TRL Title - TRL 4 | | | |
| 78 | IR2022 - 77106 8 | 19-08- 2022 | Adsorptive treatment of dye bearing waste water by using low cost adsorbent TRL Title - TRL 9 | 2021-22 | Academic Research Assignment/Indus try Sponsored Project | TRIPTI GUPTA guptatb@rknec.e du |
| 79 | IR2022 - 77106 5 | 19-08- 2022 | Smart Speed Control Device for Mopeds TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Mrugank Joshi mrugankjoshi12 3@gmail.com |
| 80 | IR2022 - 77029 8 | 18-08- 2022 | The Imperial Lubricants TRL Title - TRL 9 | 2019-20 | Independent Assignment/Non- academic Study Project | Apurv Sanjay Dey apurvdey4@gmai l.com |
| 81 | IR2022 - 77024 0 | 17-08- 2022 | Development of Integrated Test Set for SoC-SoH Estimation of Lithium-Ion Battery TRL Title - TRL 4 | 2021-22 | Academic Research Assignment/Indus try Sponsored Project | Ujwal Narendra Jibhkate ujwaljibhkate@g mail.com |
| 82 | IR2022 - 76951 6 | 16-08- 2022 | Development of Integrated Test Set for SoC-SoH Estimation of Lithium-Ion Battery TRL Title - TRL 4 | 2021-22 | Academic Research Assignment/Indus try Sponsored Project | Ujwal Narendra Jibhkate ujwaljibhkate@g mail.com |
| 83 | IR2022 - 76878 5 | 12-08- 2022 | Design, Development and Manufacturing of Accidental Fall Protection Device for High Elevation Ladders of Windmill Towers | 2019-20 | Academic Research Assignment/Indus try Sponsored Project | Vinayak Sood vinayaksood23@ gmail.com |

| | | | | | | |
|----|---------------------------|----------------|--|---------|---|---|
| | | | TRL Title - TRL 4 | | | |
| 84 | IR2022 - 76859 2 | 12-08- 2022 | Battery Thermal Management Systems with improved cooling TRL Title - TRL 4 | 2020-21 | Academic Research Assignment/Industry Sponsored Project | Pranjali Tete pranjalitete@gmail.com |
| 85 | IR2022 - 76855 0 | 12-08- 2022 | Self cooled solar photovoltaic system TRL Title - TRL 4 | 2020-21 | Academic Research Assignment/Industry Sponsored Project | Shubham Vinod Deshmukh deshmukhsv3@gmail.com |
| 86 | IR2022 - 76844 0 | 12-08- 2022 | Design and development of CAM operated in-pipe robot TRL Title - TRL 4 | 2019-20 | Academic Research Assignment/Industry Sponsored Project | Prajjawal Khandelwal prajjawalkhandelwal@gmail.com |
| 87 | IR2022 - 76823 2 | 11-08- 2022 | ALPHA-COMP, Learning braille with fun! (Interactive Learning Game for Visually Impaired) TRL Title - TRL 4 | 2021-22 | Independent Assignment/Non-academic Study Project | Swaraj Rathi swarajrathibr@gmail.com |
| 88 | IR2022 - 76821 5 | 11-08- 2022 | A SYSTEM AND A METHOD FOR LOCKING AND UNLOCKING A VEHICLE TRL Title - TRL 4 | 2021-22 | Academic Requirement/Study Project | Prasheel Thakre thakrepn2@rknet.c.edu |
| 89 | IR2022 - 76820 0 | 11-08- 2022 | A Device for Rolling and Unrolling a Roller Shutter TRL Title - TRL 4 | 2019-20 | Academic Requirement/Study Project | Sumit Nandkishor Patil patil.sushant99@gmail.com |

| | | | | | | |
|----|---------------------------|----------------|---|---------|--|---|
| 90 | IR2022 - 76800 4 | 10-08- 2022 | Qualitative detection of Algae using RGB Based indices from drone images TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Shubh Agrawal agrawalsn_2@rk nec.edu |
| 91 | IR2022 - 76785 2 | 10-08- 2022 | A Device for Fuel Adulteration Detection TRL Title - TRL 4 | 2021-22 | Academic Research Assignment/Indus try Sponsored Project | Ankita Harkare harkareah@rkne c.edu |
| 92 | IR2022 - 76784 8 | 10-08- 2022 | E-VEHICLE FOR AGRICULTURE ACTIVITIES TRL Title - TRL 4 | 2019-20 | Academic Requirement/Stud y Project | Jagdish Deorao Kene kenejd@rknec.ed u |
| 93 | IR2022 - 76772 8 | 09-08- 2022 | SMART AAKASHWANI: THE DIGITIZED SPEAKING CLOCK TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Tejas Raghunath Sathawane sathawanetr@rk nec.edu |
| 94 | IR2022 - 76766 4 | 09-08- 2022 | AN IOT BASED ANTI-COLLISION SYSTEM FOR FISHING VESSEL TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Pranav Sanjay Wazarkar wazarkar3108@g mail.com |
| 95 | IR2022 - 76764 0 | 09-08- 2022 | Optimized cross- section of profile for endodontic files TRL Title - TRL 4 | 2019-20 | Academic Requirement/Stud y Project | Vinay Mehta vinaymt28@gmai l.com |
| 96 | IR2022 - 76755 2 | 08-08- 2022 | A Solar Panel for generating Solar energy TRL Title - TRL 4 | 2020-21 | Academic Requirement/Stud y Project | Dr. SANJAY B. POKLE poklesb@rknec.e du |

| | | | | | | |
|-----|---------------------------|----------------|--|---------|--|--|
| 97 | IR2022 - 76753 5 | 08-08- 2022 | A Machine for Performing Exercise TRL Title - TRL 4 | 2020-21 | Academic Requirement/Stud y Project | Pallavi Keshavrao Parlewar parlewarpk@rkne c.edu |
| 98 | IR2022 - 76746 7 | 08-08- 2022 | DESIGN AND DEVELOPMENT OF A SYSTEM FOR NADI PARIKSHAN (PULSE RATE ANALYSIS) AS PER AYURVEDIC THEORY TRL Title - TRL 4 | 2020-21 | Academic Requirement/Stud y Project | Ameya Bidwai ameya.bidwai@g mail.com |
| 99 | IR2022 - 76729 5 | 06-08- 2022 | A DEVICE FOR CLEANING CEILING FAN TRL Title - TRL 4 | 2020-21 | Academic Requirement/Stud y Project | Vipul Sureshrao Lande landevs@rknec.e du |
| 100 | IR2022 - 76725 3 | 06-08- 2022 | Transfer of data between devices using Li-FI TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Anushka Rajesh Khadatkar khadatkarar@rk nec.edu |
| 101 | IR2022 - 76705 5 | 05-08- 2022 | APPLICATION OF NMT&NATM SYSTEM FOR UNDERGROUND EXCAVATION SUPPORT OF HAULAGE ROAD & CROSS-CUT AT MUNSAR MINE OF MOIL LIMITED TRL Title - TRL 5 | 2019-20 | Academic Research Assignment/Indus try Sponsored Project | Vishal Meshram vishalmmeshram @gmail.com |
| 102 | IR2022 - 76705 2 | 05-08- 2022 | An Anchorage Plate for Post Tensioning of a Prestressed Concrete TRL Title - TRL 4 | 2021-22 | Academic Requirement/Stud y Project | Monika Jain mnkjain26@gmai l.com |

STARTUPS REGISTRED ON YUKTI PORTAL:

| Sr. No. | Startup ID | Startup Title | Startup Registration Type | GST/CIN No | Team Lead Details |
|---------|---------------|--|-------------------------------------|-----------------------|--|
| 1 | IR2023-858545 | Industrial fuse puller TRL Title - TRL 4 | | | Neeraj Dwivedi dwivedin1211@gmail.com 7709803366 Student 20201000918550 |
| 2 | IR2022-813937 | BIO SPECTRONICS PVT LTD TRL Title - TRL 5 | Private Limited Firm (Pvt. Ltd.) | U51909MH2022PTC374856 | SANGEETA SUSHANT SAMMANWAR sangeeta.sam2411@gmail.com 9503714940 Entrepreneur palekarsd1@rknec.edu, Research Scholar |
| 3 | IR2022-813609 | RPC Projects TRL Title - TRL 8 | SME Registered Unit (Valid GST No.) | 27AAUFR8382A1ZQ | Poonam Gupta rpcprojectss@gmail.com 8390845628 Alumni 2016-7-11 |
| 4 | IR2022-812255 | HAPPICO FOODS PRIVATE LIMITED TRL Title - TRL 9 | Private Limited Firm (Pvt. Ltd.) | U15400MH2022PTC386840 | Yash Pande yashpande7@gmail.com 7758896405 Alumni 2018-06-22 |
| 5 | IR2022-811240 | Ira Industries MSME SSI Registration UAN: MH20A0025231 TRL Title - TRL 9 | SME Registered Unit (Valid GST No.) | 27GDQPS7717R1Z4 | Akshay Shirpurkar akshay.2795@gmail.com 7796060676 Alumni 13CEU271CEU2 |
| 6 | IR2022-810796 | GearToCare TRL Title - TRL 9 | Not Yet Registered as an entity | null | Suraj Birthariya surajbirthariya@gmail.com 9960904902 Entrepreneur |
| 7 | IR2022-770294 | The Imperial Lubricants TRL Title - TRL 9 | SME Registered Unit (Valid GST No.) | 27COFPD3568H1ZV | Apurv Sanjay Dey apurvdey4@gmail.com 8329082456 Alumni |
| 8 | IR2022-770184 | Empowr Club TRL Title - TRL 7 | Private Limited Firm (Pvt. Ltd.) | U74999MH2021PTC367956 | Mehr Kohli kohlimehr@gmail.com 8450940001 Entrepreneur |

| Sr. No. | Startup ID | Startup Title | Startup Registration Type | GST/CIN No | Team Lead Details |
|---------|---------------|---|--|-----------------------|--|
| 9 | IR2022-766162 | UFF TRL Title - TRL 9 | Private Limited Firm (Pvt. Ltd.) | U74999MH2020PTC337971 | Piyush Chhawsaria chhawsariapiyush@gmail.com 8329969733 Alumni |
| 10 | IR2022-765917 | Agrodia Enterprises LLP TRL Title - TRL 9 | Limited Liability Partnership Firm (LLP) | AAT-6447 | Harshal Thakare hthakare9@gmail.com 9545897705 Entrepreneur |
| 11 | IR2022-764965 | Foster Reads TRL Title - TRL 9 | Private Limited Firm (Pvt. Ltd.) | U74999MH2021PTC366341 | Varun Chopra varun@fosterreads.com 9881167575 Alumni |
| 12 | IR2022-764960 | ALENTAR ELECTRIC LLP TRL Title - TRL 7 | Limited Liability Partnership Firm (LLP) | AAP-9182 | Ayush Mishra aayush9xm@gmail.com 7745843649 Entrepreneur |
| 13 | IR2022-764914 | Somebuddy Technologies LLP TRL Title - TRL 9 | Limited Liability Partnership Firm (LLP) | AAJ-8105 | Vaibhav Kaushik vaibhav3521@gmail.com 7083873376 Entrepreneur |
| 14 | IR2022-764680 | Sigmatronics Innovation Pvt Ltd TRL Title - TRL 9 | Private Limited Firm (Pvt. Ltd.) | U72900MH2021PTC362954 | Siddharth Mishra siddharth@sigmatronics.co.in 9890455177 Alumni |

STARTUPS INCUBATED BUT NOT REGISTRED ON YUKTI PORTAL:

| SN | Startup Name | Description | Founder |
|----|---------------------|---|--|
| 1 | Easywire Technology | Electronic product design and support services | Mr. Sumit Dandekar BE (EDT) 2017 |
| 2 | SmileBird | Smilebird dental is a platform for a chain of dental clinics. | Mr. Mohit Saluja, BE (CSE), 2018 Mr. Gulshan Saluja BTech, VNIT |

| | | | |
|-----|------------------|--|---|
| 3 | Unboxing Art | Unboxing Art offers thoughtfully structured art programs, connects you to the right mentors & provides an art community | Hussain Rashid B.E (Industrial Engineering) 2014 |
| 4 | Anticipate | The app's main focus will be on taking a proactive approach to social engineering security in place of the usual preventive and reactive methods | Isha Mujumdar B.E (Computer Science) 2018 |
| 5 | MechHelp | A platform for the repair of vehicle | Gaurav Chauhan, III Yr BTech (EE) |
| 6 | Homeo | Platform to provide home service maids | Sanket Joshi & Ankit Lakhi, I Yr MBA |
| 7 | Lifes | Platform to aggregate and provide ambulance services | Sujal Agrawal, Gargi Fand, & Sudhansh Chourasia I Yr BTech (EE) |
| 8. | Quikspare | A platform for the delivery of spare parts to local mechanics | Naman Aneja, I Yr MBA |
| 9. | ICON Adverts | Performance Marketing Agency | Tushar Khanna B.Tech IT (2023) |
| 10. | ShirtUp | New clothing brand for working women | Mytri Shah, MBA Integrated (2023) |
| 11. | Prem Atta | Prem Aatta – Providing freshly grounded atta on call | Rahul Goyal B.Tech (Electronics Engineering) 2023 |
| 12 | Asha A Creations | AI based Interior design Service provider | Ayush Mate, MBA Integrated (2023) |
| 13 | Prograssia | Edtech platform which provide workshop/training for skill development | Vinay Dhawad Btech(ECE) |
| 14 | Writable | Digital handy notebook | Arnav Balpande Btech 2nd year Cyse, Vedank naidu, |

| | | | |
|----|---|--|--|
| | | | Btech 2nd year Cyse, Jatin Baheti, Btech 2nd year Cyse |
| 15 | Homiz | E-commerce for customized street wear clothing brand | Adesh Bode, B.Tech 1st year, CSE Data Science, Soumitra Aghor, Btech 1st Year E&CS, Prathamesh Jangle, B.Tech 1st year, IT |
| 16 | Shashtav Charging Bharat Private Limited CIN: U27900MH2023PTC401951 | Battery Charging Station | Ashwin Dube, Btech 4th yr |

Seed Fund Support:

| Sr.No | Name of the start up | Name of the Founder/s | Funding Support Provision | Funding Disbursed in 2022-23 |
|-------|----------------------|-----------------------------|---------------------------|---|
| 1 | Empowr Club | Mehr Kohli (ECE)-2022 | 500,000 | Rs 5,00,000/- Date: 22.09.2022 |
| 2 | Foster reads | Varun Chopra (Ind Eng)-2020 | 500,000 | Rs 5,00,000/- UCBAR 52022072500253671 Date: 25.07.2022 |
| Total | | | | Rs 10,00,000/- |

RCOEM TBI One Semester Internship 2022-23

19 Students did their one-semester internship at RCOEM TBI and worked on their business ideas. Following are the details:

| SN | Name | Branch | Idea Title |
|----|---------------|-------------------------|---|
| 1. | Rahul Goyal | Electronics Engineering | Prem Aatta – Providing freshly grounded atta on call |
| 2. | Maitri Shah | MBA Integrated | ShirtUp – New clothing brand for working women |
| 3. | Tushar Khanna | Information Technology | ICON Advertise – Digital marketing agency specializing in performance marketing |

| | | | |
|-----|--|----------------------------|--|
| 4. | Ayush Mate | MBA Integrated | Asha Creations - Interior design Service provider |
| 5. | Aryan Patne & Sumit Rangari | Electrical Engineering | FoodCrunch – Ready to make ingredients and recipe providers |
| 6. | Kartik Khandelwal | MBA Integrated | Biodegradable sanitary napkins |
| 7. | Sukhjeet Singh Kohli | Electronics Engineering | Fuilit – Loyalty based reward system for petrol pump customers |
| 8. | Ram Bhute | Mechanical Engineering | Physio Diagnostic Device for physiotherapy |
| 9. | Harsh Shahu | MBA Integrated | Tourist Services provider |
| 10. | Jay Birthariya, Hritik Chhangani, and Akash Birthariya | Electronics Engineering | GearToCare – On call doorstep vehicle repairing and servicing provider. Startup is already incubated at RCOEM TBI |
| 11. | Naman Vij | MBA Integrated | Business Expansion and Modification of Delivery System of Colors and Chemicals Industry |
| 12. | Arshdeep Singh Narula | MBA Integrated | Involvement in EV batteries and battery swapping station business |
| 13. | Sanket barde | MBA Integrated | Providing New Age of Living Space at Minimal Cost |
| 14. | Hritik vyas | MBA Integrated | Internal Factory Production System Modification & Market Impact on Business by Promotion through social media at L N Foods Pvt Ltd |
| 15. | Shashank Mehani | MBA Integrated | Analyzing the allocation of funds and using them in an efficient way. |
| 16. | Sarthak Vij | MBA Integrated | Business Expansion and Modification of Delivery System of Colors and Chemicals Industry |

MSME Hackathon 2.0

Received 11 Applications and submitted 5 Proposals after mentoring and evaluation, Grant proposal submitted of Rs. 74.6 Lakhs

Open Elective: RCOEM TBI Foundation conducted 40 hours open elective course for the fourth semester students on “Innovation and Entrepreneurship” by Dr. Rupesh Pais

Event Organized

- **Bharat Pitchathon** Idea Pitching Competition organized in collaboration with Headstart on 27th August 2022.
- **Transpreneur’23** Entrepreneurship Development Program organized on 10th January 2023
- **Ideathon’23** Idea Pitching Competition organized on 24th January 2023
- **IdeaTech Expo’23** Project competition and Startup Demo Day organized on 3rd May 2023

Participation

- **TiECon Competition** In this Event RCOEM TBI Startups Pitched their idea & 50 Students attended the event on 24th Feb – 25th Feb 2023

Capacity Building: Workshop/session organized for startups:

- Workshop on “**Business Model Canvas**” on 4th March 2023 By Dr. Rupesh Pais
- Workshop on “**Design Thinking, Critical Thinking and Innovation Design**” on 11th March 2023 by Prof. Himanshu Shukla
- Session on “**How to Take your startup from Idea to Product**” on 18th March 2023 by Mr. Vaibhav Kaushik
- Session on Idea to “**Minimum Viable Product Stage Journey for Startup**” on 31st March by Satyam Sarma
- Session on “**Understanding Govt. Policies & Scheme**” on 22nd April 2023 by Abhijeet K
- Workshop on “**Problem Solving and Ideation**” on 13th May 2023 by Prof. Himanshu Shukla
- Session on “**Digital Marketing for Startup**” on 24th June 2023 by Mr. Chinmay Arora

Collaboration

- **National Entrepreneurship Network** supported by Wadhvani Foundation is a not-for-profit with the primary mission of accelerating economic development by driving job creation through large-scale initiatives in entrepreneurship, small business growth, innovation, and skilling.
- **YNOS** The Intelligence Platform for the Indian Startup Ecosystem

Institute Innovation & Start-up Policy

The institute has adopted the National Institutional Startup Policy as per the guidelines of MIC, AICTE. The same has been uploaded on the NISP portal and has been disseminated to the students and faculty members.

Objectives:

- Setting direction for the Institute towards streamlining and establishing a strong startup ecosystem in the campus and region.
- Measuring Innovation & Startup ecosystem based on Input, Process, Output, and Outcome-based parameters.
- Focusing on both quantity and more on quality aspects of the Startup Eco-System available at the Institute.
- Also, to measure the impact created by these innovations and Startups in society and the market.

Key Result Areas (KRA):

- The following KRAs are identified for achieving our objectives:
- Programs and Activities on IPR, Innovation, Start-up Organized & Participated
- Annual Budget Spent on Innovation & Start-up funding, income, and Expenditure
- Innovation, Pre-Incubation & Incubation & Infrastructure Facilities Established
- Awards & Recognition of Students and Faculty Innovations/Start-ups in Various Contests/Events
- Courses on IPR, Innovation & Start-up Offered by Institute
- IP Granted and Published
- Successful Innovations Supported, Produced & Startups Established
- Seed Fund, Angel & Venture Fund Support Raised by Above Start-ups and Innovations
- Tech Transferred & Commercialized

ARIIA Participation:



Social Media Links:

Facebook Link

<https://www.facebook.com/RCOEM.Official/>

Instagram Link

https://www.instagram.com/rcoem__official/

Twitter Link

https://twitter.com/RCOEM_Official

(Dr. D. S. Adane)
President, IIC RCOEM, Nagpur