

‘INSTITUTION’S INNOVATION COUNCIL (IIC)’

SRMS COLLEGE OF ENGINEERING & TECHNOLOGY, BAREILLY - 243 202

Annual Report 2022-23

A. About IIC-SRMSCET, Bareilly

The centre has been recognised by MoE’s Innovation Council (IIC) during IIC calendar year 2022-23 (IIC ID- IC202217928) on 19 September 2022.



- **Vision / Mission**

- To create and strengthen the culture of Innovation and entrepreneurship ecosystem in the institute.
- To encourage and channelize the creative energy and entrepreneurial potential of the students along with the faculty members.
- To promoting and supporting student innovations and sustainable start-ups.

- **Journey**

IIC-SRMSCET, Bareilly, established in September 2022. From September 2022 to till now, IIC-SRMSCET organized 10 different activities (calendar activity - 6; celebration – 02; self driven activity – 02) with the support of different departments of engineering, management and pharmacy.

- After the establishment of IIC in the Institute, different departments like Electronics and Communication Engineering, Mechanical Engineering, Electrical, Electronic Engineering, MBA along with value addition cell, R&D cell of the institute conducted various activities related to IIC Calendar 22-23. These activities became very helpful to improve the eco system of the institute.

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B. Brief mention of key functionaries at the IIC-SRMSCET, Bareilly

• Dr. Prabhakar Gupta, President

- He called the meetings, set meeting agenda and monitor the deliverable.
- He ensured Institution's participation in IIC calendar activity and take lead in the institution driven activities.
- He ensured the effective implementation of IIC activities with the help of Convenor.
- He ensured the timely submission of the monthly progress/activity reports on the IIC portal.

• Dr. Anuj Kumar, Vice President

- He is a senior most faculty member of the institute having the responsibility of Director Training and Placement.
- He collects the inputs from the industry experts, alumni working on higher posts in MNCs.
- He ensured the arrangement of the expert professionals from the industry to conduct the workshops and short term training on the emerging technologies.

• Dr. Shailesh Saxena, Convenor

- He ensured the participation in the meeting and will prepare the meeting agenda with the inputs from all valuable council members and President.
- He ensured that the internal examination dates would not interfere with the IIC activities and coordinate with all departments to ensure the same.
- He collects the inputs from all the members of the council at regular interval, especially external members for better planning of IIC activities.
- He also posts all the relevant information about council meeting resolution and action plan on the portal of IIC.

• Coordinators:

Innovation activity coordinator – Ms. Nazia Parveen, Assistant Professor, ECE

- She works to promote innovation related activities among the students as well as faculty members in the campus.

Start-up activity coordinator – Dr. Saurabh Gupta, Professor, MBA

- He works to boost startup / entrepreneurship mindset among students and explore different policies of AICTE, State /Central Government related to startup / entrepreneurship activities. He also conducts related activities in the Quarter 4 of IIC session 2022-23.

Internship coordinator – Er. Sakshi Goel, Assistant Professor, IT

- She works to arrange student internships in startups to expose them with startup ecosystem and real-life challenges in startup, with the help of training & placement department of the institute.

IPR activity coordinator - Dr. Saurabh Gupta, Professor, MBA

- He works to promote awareness about IPRs among the students as well as faculty members of the institute. He also conducts IPR awareness activities in the Quarter 2 of IIC session 2022.

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Social Media Coordinator – Mrs. Deepali Gupta, Assistant Professor, B.Pharm

- She manage about the reflection of all the activities conducted by IIC-SRMSCET on the different social media platforms like Facebook, Twitter , Instagram etc.
- She also ensured that all students follow the IIC activities on social media to get first-hand information.

C. Portfolio/graphical/Tabular representation of Resource strength (human capital and Physical capital) of the IIC institution

Total No. of IIC Members : 26		
Faculty Representatives	External Representatives	Students Representatives
13	02	11

Total No. of IAs : 02
1. Dr. Sovan Mohnty, Associate Professor, ECE
2. Dr. Ravindra Singh, Associate Professor, ME

D. Highlight Achievements (Narrative/Graphical/tabular representation)

• Number and Different types of I&E and IPR activities Conducted – 03

S.No.	Activity Name	Date of Activity	Resource Person
1.	Session on Problem Solving and Ideation Workshop	14 Nov 2022	Mr. Sushil Soni from Livewire India (Technical Division of CADD centre).
2.	IPR Awareness Program	02 Feb 2023	Shri. Rajneesh Pratap Singh Examiner of Patents & Designs (Group “A” Gazetted Officer) (NIPAM Officer), Indian Patent Office, New Delhi
3.	knowledge-driven Expert Talk	20 Feb 2023	Mr. Bhavesh Mahlan , Operations Executive at AP Moller-Maersk, Noida,

• No. of student’s & faculty ideas generated- 06

S.No.	Title of Project	Faculty Name	Students Name	Applied For
1.	Recyclocity – The Trail to Treasure to Create Secondary Resources through Recycling of Waste Printed Circuit Boards	Dr. Sovan Mohanty Asso. Professor, ECE	Mr. Raj Sinha Ms. Saba Mazhar	CST UP -2023 & 12th_Project_Innovation_Contest (PIC)-2023
2.	Design and Development of Deep Implantable Dielectric Resonator Antenna for Wireless Body Area Network in Animal	Dr. Sovan Mohanty, Asso. Professor, ECE	Mr. Kamran Ashraf	IVRI (Indian Veterinary Research Institute) Incubator Agripreneurship Incubation Programme (SAMRIDDHI 5th COHORT)

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S.No.	Title of Project	Faculty Name	Students Name	Applied For
3.	AI Based Crowd Counting System	Dr. Saurabh Gupta, Professor, MBA	Ms. Mridul Singhal, Ms. Anchaal Jain, Ms. Mahak Agarwal, Ms. Parul Saini	UP POLICE HACKATHON 2022
4.	GHEE PACKAGING MACHINE APPARATUS	Dr. Ravindra Singh, Asso. Professor, ME		The Patent Office, Govt. Of India
5.	IoT based traffic monitoring system for wrong lane vehicles (Application No. - 202311036103 A)	Dr. Mohd Wazih Ahmad, Er.Hiresh Kumar, Dr. Prabhakar Gupta, Ms. Anubha Dhaka, Ms. Shruti Agarwal, Dr. Jyoti Agrawal,	Mr. Karan Gautam	The Patent Office, Govt. Of India
6.	Traffic Sign Recognition and Voice Alert System Using IoT (Application No. - 202311046414 A)	Dr. Mohd Wazih Ahmad, Dr. Jyoti Agrawal, Dr. Prabhakar Gupta, Ms. Divya Joshi, Imtiyazul Haq, Er.Hiresh Kumar, Ms. Anu Saxena,		The Patent Office, Govt. Of India

● **No. of student’s & faculty Innovation/prototypes developed - 06**

S.No.	Problem Statement	Participated Event	Student Name’s	Faculty Mentor	Status
1.	AI Based Crowd Counting System	UP POLICE HACKATHON 2022	Mridul Singhal, Anchaal Jain, Mahak Agarwal, Parul Saini	Dr. Saurabh Gupta	Winner
2	Ghee Packaging Machine Apparatus (Design No. 365888-001)	The Patent Office, Govt. Of India		Dr. Ravindra Singh,	Design Registered
3.	Recyclocity – The Trail to Treasure to Create Secondary Resources through Recycling of Waste Printed Circuit Boards	12 th Project Innovation Contest (PIC)-2023	Mr. Raj Sinha Ms. Saba Mazhar	Dr. Sovan Mohanty	Selected for Final Round
4.	Design and Development of Deep Implantable Dielectric Resonator Antenna for Wireless Body Area Network in Animal	IVRI (Indian Veterinary Research Institute) Incubator Agripreneurship Incubation Programme (SAMRIDDHI 5th COHORT)	Mr. Kamran Ashraf	Dr. Sovan Mohanty	Selected for Final Round

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6.	Traffic Sign Recognition and Voice Alert System Using IoT (Application No. - 202311046414 A)	The Patent Office, Govt. Of India		Dr. Mohd Wazih Ahmad, Dr. Jyoti Agrawal, Dr. Prabhakar Gupta, Ms. Divya Joshi, Imtiyazul Haq, Er.Hiresh Kumar, Ms. Anu Saxena,	Published

- No. of IPs generated, Published and granted**

Total Number of Patents : 21	
Patent Published	Design Patent Granted
14	07

- No. of Technology Transfer and Commercialisation happened : 02**

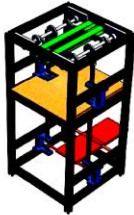
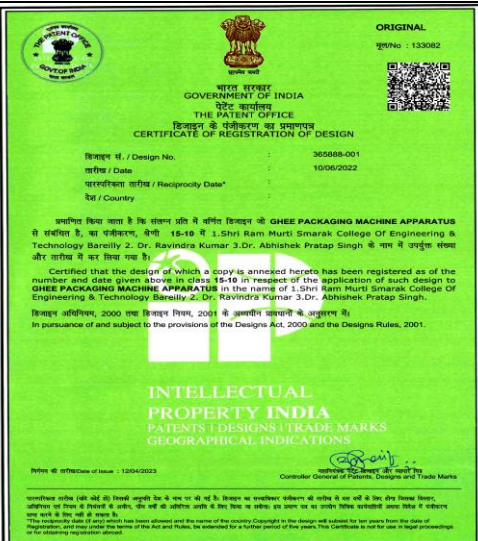
S. No.	Name of the Organization	Purpose	Effective Date	Duration
1.	National Taipei University of Business, Taiwan	Exchange of Academic and Research Program	24 July 2023	3 yrs
2.	LIVEWIRE-A division of CADD Centre	Technology Transfer and Training Program	25 May 2023	2 Yrs

E. Highlight few best IIC Faculty/Student members and their achievements/ Rewards

- **Dr. Ravendra Singh**, Associate Professor and Head of ME department is an active member and innovation ambassador of IIC-SRMSCET, Bareilly. The Patent Office, Govt. Of India registered his design named as **GHEE PACKAGING MACHINE APPARATUS (365888-001)** in April 2023.
- **Dr. Sovan Mohanty, Associate Professor ECE department** is an active member and innovation ambassador of IIC-SRMSCET, Bareilly. He worked on number of innovative projects and prototypes along with students of ECE, CSE and ME departments. In the year of 2023, his 2 innovative prototype ideas are selected for the final round of **12th Project Innovation Contest (PIC)-2023** and **SAMRIDDHI 5th COHORT (Indian Veterinary Research Institute Incubator Agripreneurship Incubation Programme)**.
- **Dr. Saurabh Gupta, Professor MBA** is an active member of IIC-SRMSCET, Bareilly and he works to boost the mindset of the students as well as the faculty members of the institute regarding Start-ups and IPR. Under his mentorship, a team of the institute having 4 girls' students (**Mridul Singhal, Anchaal Jain, Mahak Agarwal, Parul Saini**) win the cash prize of **Rs. 50000/-** in **UP POLICE HACKATHON 2022**.

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F. Best Innovations & images with mention of inventor/innovation name

Name of Innovation	Inventors' Name
<p><i>GHEE PACKAGING MACHINE APPARATUS</i> <i>(Design No. 365888-001)</i></p> <p>APPLICANTS NAME: Shri Ram Murti Smarak College of Engineering & Technology Bareilly, Dr. Ravindra Kumar; Dr. Abhishek Pratap Singh</p> <p align="right">TOTAL NO. OF SHEETS: 07 SHEET NO.: 1 OF 07</p> <div align="center">  <p>PERSPECTIVE VIEW</p> </div> <p>The novelty resides in the shape and configuration of the 'Ghee packaging machine apparatus' as illustrated.</p> <p>No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the Article.</p> <p>No claim is made by virtue of this registration to any right to the exclusive use of the words, letters, numbers, colour, colour combination or trademarks appearing in the representation.</p>	<p>Dr. Ravendra Singh, Associate Professor and Head of ME department</p> <div align="center">  </div>

G. List of break through Innovations

- Participation various programs of Central and Stage Govt.

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2.	Recyclocity – The Trail to Treasure to Create Secondary Resources through Recycling of Waste Printed Circuit Boards	12 th Project Innovation Contest (PIC)-2023	Mr. Raj Sinha Ms. Saba Mazhar	Dr. Sovan Mohanty Associate Professor, ECE	Selected for Final Round

H. Testimonials from IIC members

IIC-SRMSCET established in the year of 2022 with the objective to up lift the mind-set of the students regarding the areas of Innovation, Start-ups, IPR etc. I am very happy to inform that IIC-SRMSCET conducted several activities like IPR awareness session, Expert Talks on emerging technologies, Field exposure on different manufacturing units etc. The members of IIC-SRMSCET, boast students to participate in different innovation based challenges.

Dr. Shailesh Saxena, Convener

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Quarter #1

- An Expert Talk given by **Mr. Sushil Soni** from **Livewire India (Technical Division of CADD centre)** was given on the topic "Cloud based Automation System using IOT and Artificial Intelligence" on **14 November 2022**.



**Seminar on
Cloud Based
Automation
System using IOT
&
Artificial Intelligence**

Agenda:

- > IOT for controlling AC devices
- > Artificial Intelligence + IOT integration
- > Taking project to next level by connecting Cloud services

DATE : 14/11/2022 Monday
TIME : 10:10AM to 11:50AM

Venue:
New Seminar Hall, SRMS

Organized By:
SRMS College of Engineering & Technology
Bareilly

In Association With:
Livewire, India | CADD CENTRE, Bareilly

Speaker
Mr. Shushil Soni
Product Manager
Livewire, India

SRMS College of Engineering & Technology, Bareilly

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- Industrial visit of the Department of Electrical & Electronics Engineering to **Secure Meters Pvt. Udaipur (Raj.)** on **15 November 2022**.



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Quarter # 2

- **IPR awareness session on 02 Feb 2023** taken by **Mr Rajneesh Pratap Singh, NIPAM Officer, Indian Patent Office, New Delhi**; Examiner of Patents & Design (Group 'A' Gazette Officer) &O/o CGPDTM, DPIIT, Ministry of Commerce & Industry, Govt. of India.



- **Alumni guest lecture by Bhavesh Mahlan, a renowned industry expert as Operations Executive at AP Moller-Maersk, Noida, on the topic 'Career Opportunities in Operations' on February 20, 2023**



- **Joint Industrial Visit of ECE, EN and ME students to Daikin Air Conditioning India Private Limited, Neemrana, Rajasthan on February 21-22, 2023.**





- Celebration of 'National Science Day' on 28 February, 2023.



Quarter # 3

- Three days hands-on-workshop on "**Introduction to 3D Printing**" conducted by ME department during 13-15 April 2023.



- An expert talk by Prof. Chetan Singh Solanki was given on the topic "**Climate Change and Awareness of Importance of Solar energy**" on 31 May 2023.



Quarter # 4

- Celebration of “World Entrepreneurship Day” on 21st August 2023.



- An Awareness session on “Angel Investment/VC Funding Opportunity for Early-Stage Entrepreneurs” with the collaboration of “Union Bank of India” on 29 August 2023.



I. Contact Details

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