

IIC 6.0

THE ANNUAL

REPORT

MANAV RACHNA UNIVERSITY





A. About IIC Institute

● Vision / Mission of IIC established at the Institute

In line with guidelines of MIC, the Institution Innovation Council at Manav Rachna University was set up in the year 2018.

Vision

To create successful Entrepreneurs through a Startup ecosystem based on Innovation.

Mission

- To develop a culture of Innovation and Incubation among the students and faculty members.
- To create an ecosystem where innovative ideas are cultivated from Ideation to Pre-Incubation, Incubation, finally resulting in successful start-ups.
- To provide a state-of-the-art infrastructure and mentorship support to the students in their Innovation and Startup Journey.

● Journey of IIC established at the Institute

Over the last six years IIC of MRU has grown in terms of faculty strength and students' strength as IIC moved through its journey of IIC 1.0, IIC 2.0, IIC 3.0, IIC 4.0, IIC 5.0 and then to IIC 6.0. IIC MRU started with three faculty members with IIC 1.0 with each faculty member from each Engineering department of MRU, namely Dr. Susmita Ray from Computer Science & Technology (CST) department, Ms. Yogita Khanna from Electronics & Communication Engineering (ECE) department and Mr. Gianender Kajal from Mechanical Engineering (ME) Department. In IIC 2.0 the faculty strength increased to 9 faculty members namely 5 from CST department, 2 from ECE department, and 2 from ME department. In IIC 3.0 the faculty strength was kept at 9 but with more diversified engagement of departments having 4 faculty members from CST, 1 from ME, 1 from ECE and 3 from Management department to promote entrepreneurship and startups (maturing innovative ideas from PoC to Prototype to market ready product for a startup). Strength of students in the IIC of MRU has increased from 12 to 24 from 2019 to 2020. Students are from various disciplines : Engineering, Management, Sciences, Law.

In IIC 4.0 faculty strength further increased to 11 adding faculty coordinators for focussed roles e.g. Startup activities, Industry Interaction (MoU contracts management), NIRF, internships management, hackathons/competitions. In IIC 5.0 faculty strength was further increased to 14, adding faculty members from Law, Maths and CST department.

IIC 6.0 Team consisted of 16 council members from various Schools- School of Engineering, School of Management & Commerce, School of Law, School of Applied Sciences and School of

Education and Humanities, allocated for the various roles as defined in the guidelines of MOE IIC. The team also included 11 student members from various batches and diversified streams.

- **Diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments/ Units etc.**

From IIC 1.0, there has been a diversified representation of faculty members from different engineering departments to develop ideas to PoC to Prototype which are multidisciplinary. To make it more diversified, faculty members from the Management department have been engaged to boost entrepreneurship and promote startup culture, facilitate involvement of investors to enable funding for startups. An E-Cell (Entrepreneurship Cell) was established in 2019 under the umbrella of IIC 2.0 with a set of students from engineering and management disciplines. Faculty members from the Education and Applied Sciences Department aid in information dissemination, working towards developing a multidisciplinary innovation culture in the University. The faculty members from School of Law help in Patent search, drafting and filing. They are also responsible for conducting training and workshops related to IPR.

MRU IIC has external members from industry who provide Mentorship support to our teams and have been associated with various CoEs. We have members from Patent firms who provide third party Patent support to IIC. Our IIC has strong collaboration with Atal Incubation Centre, Bimtech that helps us in organizing various student and faculty training for upskilling in market strategies and developing market fit products.

B. Brief mention of key functionaries at the IIC Institute

Faculty Members

<ul style="list-style-type: none"> ● Dr. Parneeta Dhaliwal, President IIC ● Dr. J.P Sharma, Vice President & NISP Co-ordinator, IIC ● Dr. Ranjna Jain, Convenor, IIC ● Mr. Vijay Gill, Innovation Activity Co-ordinator ● Ms. Anupriya Sharma, Internship Activity Coordinator ● Dr. Yogita Sharma, Startup Activity Co-ordinator ● Dr. Maneesha Narula, IPR Activity Co-ordinator ● Dr. Roopa Rani, Social Media Co-ordinator 	<ul style="list-style-type: none"> ● Dr. Pooja Parmar, ARIIA Coordinator ● Dr. Pragati Chauhan, E-Cell Co-ordinator ● Dr. Meena Kapahi, NIRF Co-ordinator ● Dr. Prashant Bhardwaj, IIC Member ● Ms. Latika Khanduja, IPLOEA Pvt. Ltd. , External Member ● Mr. Pradeep Kumar, Altair Engineering, External Member ● Dr. Abha Rishi, Atal Incubation Centre, Bimtech, External Member
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Student Members

<ul style="list-style-type: none"> ● Ms. Unnati Verma, CSE Innovation coordinator ● Mr. Harsh Yadav, CSE AIML, Start-up coordinator ● Ms. Anoushka Pandey, CSE AIML, Internship coordinator ● Ms. Liza Kansal, CSE AIML, IPR coordinator ● Ms. Tanisha Bhayana, CSE AIML, Social Media coordinator 	<ul style="list-style-type: none"> ● Mr. Chirag Varshney, CSE CDA, Skill Development Coordinator ● Ms. Shreya Marwaha, CSE AIML, Member ● Mr. Raghav Khatura, CSE AIML, Member ● Mr. Piyush Sharma, CSE AIML, Member ● Mr. Diwakar Verma, CSE, Member ● Mr. Mukund Gulati, BBA EFB, Member
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C. Portfolio/Tabular representation of Resource strength (human capital and Physical capital) of the IIC institution.

Total No. of IIC Faculty Members	15 Council Members (12 Faculty members + 3 External members) + 9 Faculty Members
Total No. of IIC Student Members	11
Total No. of IAs	29
Total No. of Faculty Mentors	21
Pre-Incubation Units	<p>Yes.</p> <ol style="list-style-type: none"> 1. Centre of AI/ML and Data Science 2. Research Cluster of Computing 3. Air Conditioning (Daikin India Pvt. Ltd) 4. Pre-Incubation Unit 5. Fabrication centre 6. Heating Ventilation & Air Conditioning Lab 7. Altair Hyperworks Lab for Multidisciplinary Courses Lab 8. Internal Combustion Engine Lab 9. Strength of Material Lab 10. Fluid Mechanics & Machinery Lab 11. Centre For Peace and Sustainability 12. Production Development Unit
Incubation Units	<p>Yes,</p> <ol style="list-style-type: none"> 1. University Instrumentation Centre 2. Curriculum Laboratory 3. Entrepreneurship cell 4. Startup Cell
IP Facilitation Unit	Yes, MRU IPR Cell

D. Highlights of Facilities, Infrastructure of Pre-Incubation & Incubation kind and Student bodies/clubs engaged in promotion of Innovation and Entrepreneurship in the campus.

- For the Promotion of IIC policies and motivating students towards their participation in National/International events held within the campus or outside the campus, a committee of students is formulated for every year. This year, this committee consists of 11 students for various positions such as innovation coordinator, startup coordinator etc.
- MRU offers various innovation and entrepreneurship courses which are categorised as academic/non-academic for strengthening students' skills in the area of Innovation and incubation. A total of 94 academic and 43 Non academic courses offered to the students. Under academics, various departments from different schools offered these courses and for Non-academic, all courses offered are self-sponsored or supported by state government agencies.
- For bridging the gap between industry and academic, collaborations with various agencies are signed and few of the details are:

Sr. No.	Name of the agency	Collaboration agency type
1	MENTORX	Knowledge/Mentoring Agency
2	National Small Industry Corporation (NSIC)	Govt. Agency (Central)
3	YUNG MINDS	Knowledge/Mentoring Agency
4	Bharatiya Yuva Shakti Trust: BYST	Knowledge/Mentoring Agency
5	Entrepreneurs Media	Non Govt. Agency
6	AIC IIT Delhi Sonipat Innovation Foundation	Incubation Unit

A total of 56 collaborations were signed with various agencies which lie under the category of knowledge partners, Govt./Non-Govt agencies, Incubation unit, international agencies, corporate and IPR Law firms.

- MRU setup various Infrastructure under different categories which support Pre-Incubation and Incubation under IIC. These infrastructure lies under different categories which are:

• Incubation Units

Sr. No.	Incubation Unit Name	Incubation Incharge Name	Incubation Incharge Email	Incubation Incharge Phone	Funding Agency/Schemes Available
1	University Instrumentatio	Dr. Vinayak Vandan	9870400874	vinayakpathak@mr u.edu.in	CSR/Private, Own Resource

	n Centre	Pathak			
2	CURRICULUM LABORATORY	Dr. RASHEE SINGH	9899795947	rashee@mru.edu.in	Own Resource
3	Entrepreneurs hip cell	Dr Pragati Chauhan	9899222792	pragati@mru.edu.in	None
4	Startup Cell	Dr. Yogita Sharma	9818707813	yogitasharma@mru.edu.in	Own Resource

● **Pre-incubation units**

Sr. No.	Type	Pre-Incubation Unit Name	Pre-Incubation Incharge Name	Pre-Incubation Incharge Email	Pre-Incubation Incharge Phone
1	Innovation Cell	Centre of AI/ML and Data Science	Dr. Mamta Arora	mamta@mru.edu.in	9873599315
2	Innovation Cell	Research Cluster of Computing	Dr. Ranjna Jain	ranjnajain@mru.edu.in	9871543454
3	Innovation Cell	Air Conditioning (Daikin India Pvt. Ltd)	Mr. Piyush Mahendru	piyush@mru.edu.in	9811288018
4	IEDC	Pre-Incubation Unit	Pro. (Dr.) Yogita Sharma	yogitasharma@mru.edu.in	9818707813
5	Innovation Cell	Fabrication centre	Dr. J P Sharma	jpsharma@mru.edu.in	9718109076
6	Innovation Cell	Heating Ventilation & Air Conditioning Lab	Mr. Piyush Mahendru	piyush@mru.edu.in	9811288018
7	Innovation Cell	Altair Hyperworks Lab for Multidisciplinary Courses Lab	Dr. Joginder Singh	jodinder@mru.edu.in	98108 7876
8	Innovation Cell	Strength of Material Lab	Mr. Pradeep Mouria	pradeep@mru.edu.in	8882307373
9	Innovation Cell	Internal Combustion Engine Lab	Mr. Nazish Ahmad Samshi	nazish@mru.edu.in	9540183402

10	Innovation Cell	Fluid Mechanics & Machinery Lab	Dr. Zeba Naaz	zeba@mru.edu.in	85888 1359
11	Innovation Cell	Centre For Peace And Sustainability	Dr. Geeta Thakur	deanstudents@mru.edu.in	9650592277
12	Innovation Cell	Production Development Unit	Vijay Kumar Gill	vijay@mru.edu.in	8700855928

● IPR & TTO Centres

Sr. No.	Type	Facility Name	Facility Incharge Name	Facility Incharge Email	Facility Incharge Phone
1	IPR Cell	IPR CELL	DR. MANISHA NARULA	ipr.cell@mru.edu.in	9914530298

- MRU has Pre-Incubation Unit with coverage area of more than 600 sq ft comprising of the following sub-units:
 1. Design Centre for Product Design & Development with industry partner Altair and Design Tech, established in 2019
 2. Innovation Center-MRU-IIC, established in 2018
- MRU has a Centre of Excellence (CoE) with more than 1000 sq. ft. coverage area named “Air Conditioning (DAIKIN India Pvt. Ltd.)” established in 2017.
- MRU has Industry-Institute Interface with “FGSI and Kidzania Delhi NCR” for promoting innovation/entrepreneurship in all Science disciplines.
- MRU has an Industry-Institute Interface Unit with National Council for Cement and Building disciplines.
- MRU has an Industry-Institute Interface with “Vivek International Ballabgarh” for promoting innovation/entrepreneurship in all Science disciplines.
- MRU has Industry-Institute Interface with “Infosys” , “Xebia”, “QuickHeal”, “Sofocle Innovation Labs”, “AIW Works Pvt. Ltd.”, “Coding Ninjas (Sunrise Mentors Pvt. Ltd.)”, AWS, GG Sports” for promoting innovation/entrepreneurship in Computer Science and Engineering discipline.
- MRU has Industry-Institute Interface with “Reinste Nano Ventures Pvt. Ltd.” for promoting innovation/entrepreneurship in all Science and Engineering disciplines.
- MRU has an incubation unit with Atal Incubation Center, BIMTECH for promoting innovation/entrepreneurship in all Science and Engineering disciplines.
- MRU has “Research and Computing Cluster” as a Research Unit/Park for promoting innovation/entrepreneurship in all Engineering disciplines.
- MRU has “Materials for Environmental Sustainability” as a Research Unit/Park promoting innovation/entrepreneurship in all Science disciplines.

- MRU has a Centre of Excellence with Advanced Tools & Equipment with industry partner Altair and Design Tech for promoting innovation/entrepreneurship in all Engineering disciplines.
- MRU has signed off MoU with the following two IPR Law Firms namely IPLOEA and Centre for New Product Development Trade and Transfer to promote innovation culture, impart knowledge on IP to faculty, students and research community of MRU and facilitate patent/copyright filing • MRU has Industry-Institute Interface with International Skill Development Corporation (ISDC) and NSIC to promote skill development and startups.
- MRU has signed off MoUs with ICT Academy, BFSI Sector Skill Council of India to promote skill development towards product development • MRU has a Centre of Excellence with Advance Tools & Equipment with industry partner DAIKIN for promoting innovation/entrepreneurship in Mechanical Engineering discipline.
- MRU has “Sahai Research Lab” as a Research Unit/Park for promoting innovation/entrepreneurship in Electronics & Communication Engineering discipline.
- MRU has Industry-Institute Interface with “True Chip” for promoting innovation/entrepreneurship in Electronics & Communication Engineering discipline.
- MRU has an Industry-Institute interface with Trans Neuron Technologies and CYPE.
- MRU has Industry-Institute Interface with “Srijan Sanchar” for promoting innovation/entrepreneurship in Electronics & Communication Engineering discipline.
- MRU has a University Instrumentation Centre for supporting research in the Department of Applied sciences.
- Under the aegis of all schools of MRU and IIC, various student bodies/clubs are engaged in promoting the culture of innovation and entrepreneurship at the campus level are as follows:

Sr. No.	Name of the clubs	Head of the club
1	Entrepreneurship cell	Dr. Pragati Chauhan
2	Pre-Incubation and Startup cell	Dr. Yogita Sharma
3	Product development unit	Mr. Vijay Gill
4	Fabrication centre	Dr. J P Sharma
5	IEEE Club	Dr. Manpreet Kaur
6	Research Cluster of Computing	Dr. Ranjna Jain
7	Society of Automotive engineering	Dr. J P Sharma

E. Highlights of Achievements (Tabular representation)

Key Performance Indicator (KPI)	Count
Number and Different types of I&E and IPR activities Conducted	IIC Calendar: 17, MIC Driven: 5, Self-Driven: 27, Celebration: 5
No. of student's & faculty ideas generated	24
No. of student's & faculty Innovation/prototypes developed	9
No. of IPs generated, published and granted	Filed: 16, Published: 15, Granted: 22
No. of Student & Faculty Start-ups/Ventures established.	8
Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus	2,42,373/-
Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR	10,12,850/-
No. of Technology Transfer and Commercialisation happened	Nil

Activities in Self-Driven Activity

Sr. No.	Event Topic	Event Date	Event Type	Speaker	Role/Description of Speaker
1.	InnoCyber Mastery Bridging Skills and Innovation	11-Sep-2023 to 15-Sep-2023	Self-Driven Activity	Mr. Samarth Khandelwal	RCC Student Coordinator
2.	Workshop on 3D Modelling Software	11-Sep-2023	Self-Driven Activity	Dr. J.P. Sharma	Dr. J.P. Sharma: Associate Professor, Department of Mechanical Engineering, MRU, and Vice President-IIC,MRU
3.	Workshop on Industry 4.0	27-Oct-2023	Self-Driven Activity	Mr. Manaj Yadav	Technical trainer, SVR Infotech, Pune
4.	Workshop on Design and Fabrication of ATV	31-Oct-2023	Self-Driven Activity	Mr. Karan Khanduja	Alumni 2023 Batch
5.	Expert Session on Encouraging innovation Through IPR	24-Jan-2024	Self-Driven Activity	Dr. Priya Rai	Deputy Librarian, National Law University, Delhi
6.	Expert Session on Encouraging innovation Through IPR	27-Feb-2024	Self-Driven Activity	Prof. (Dr.) Goldie Gabrani	Dean Research & SOE, MRU
7.	Unleashing Innovation: Machine Learning Essentials for Beginners	29-Jan-2024 to 2-Feb-2024	Self-Driven Activity	Ms. Liza Kansal, Ms. Anoushka Pandey	IIC Student Coordinators
8.	Code and Innovate: A workshop on UX/UI Automation with APIs	12-Jan-2024 to 15-Jan-2024	Self-Driven Activity	Suyash Sharma	Software Engineer, EDEMIA
9.	Visit to Startup Maha Kumbh-Pragati maidan	19-March-2024	Self-Driven Activity	Dr. Parneeta Dhaliwal, Dr. JP Sharma	Director, IIC-MRU, IIC Vice President

10.	Call for Startups	27-March-2024	Self-Driven Activity	Dr. Parneeta Dhaliwal, Dr. JP Sharma and Dr. Yogita Sharma	Director, IIC-MRU
11.	Innovate with technology	01-April 2024 to 02-April-2024	Self-Driven Activity	Mr. P. Vikram Kumar	alumnus of IIT Chennai and a distinguished Science Communicator
12.	Demo Day	18-April 2024 to 19-April-2024	Self-Driven Activity	Dr. Shruti Vashist, Prof. (Dr.) Rajeev Kumar Maheswari	Dean Academics MRU, Professor
13.	Innovate and Elevate 1.0 – Mastering Full Stack Development	22-April 2024 to 24-April-2024	Self-Driven Activity	Mr. Vishal Batta	Microsoft Professional (MCSD) and Certified Professional in Oracle from Expert Rating.
14.	“Kaushal”: A skill development program	25-April-2024	Self-Driven Activity	Dr Prashant Bhardwaj, Dr. Jai Prakash Sharma, Dr Parneeta Dhaliwal	IIC Coordinator
15.	Generative AI Workshop - 2024	08-July-2024 to 12-July-2024	Self-Driven Activity	Dr. Mrinal Pandey	Professor, DoCST
16.	Technical Innovation- Biomimicry: It's Time to Ask Nature	26-July-2024 to 2-August-2024	Self-Driven Activity	Ms Pooja Ahuja, Ms Ashima Garg	Faculty members of Department of CST, MRU
17.	Data Mastery with Excel: Unleashing Insights through Data Analytics	26-July-2024 to 2-August-2024	Self-Driven Activity	Mr. Ram Chatterjee, Mr. Anup Singh Kushwaha and Dr. Manoj Kumar	Faculty members of Department of CST, MRU

18.	Fostering Innovation through Basic Electronics	26-July-2024 to 2-August-2024	Self-Driven Activity	Dr. Nitika and Mr. Varun Yadav	Faculty members of Electronics Department, MRU
19.	Building a Culture of Innovation Through IPR	30-Sep-2024	Self-Driven Activity	Prof. (Dr.) Goldie Gabrani	Dean Research & SOE, MRU

Activities under Celebration Activity

S.No.	Event Topic	Event Date	Event Type	Speaker	Role/Description of Speaker
1.	Innovation Day	15-Oct-2023	Celebration Activity	Mr. Pranav Chauhan, Dr. Kiran Khattar, Dr. Devnajali	Mr. Pranav Chauhan (Technical Manager, Design Tech Pvt Ltd), Dr. Kiran Khattar (Associate professor at BML University) and Dr. Devnajali (Associate professor at BML University)
2.	National Startup Day	16-Jan-2024	Celebration Activity	-	-
3	National Science Day	28-Feb-2024	Celebration Activity	Dr. Kiran Gupta	Associate Professor Department of Education and humanities, MRU.
4.	World Intellectual Property Day	26-April-2024	Celebration Activity	Prof. (Dr.) Goldie Gabrani	Dean Research & SOE, MRU
5.	World Environment Day	05-June-2024	Celebration Activity	Dr. Geeta Thakur	Dean, DSW
6.	Independence Day-Celebrating Aazadi Ka Amrit kal	15-Aug-2024	Celebration Activity	Dr. Geeta Thakur	Dean, DSW -

No. of Activities in MIC Driven Activity

Sr. No.	Event Topic	Event Date	Event Type	Speaker	Role/Description of Speaker
1.	Regional Meet at Panjab University, Chandigarh	20-Nov-2023	MIC Driven Activity	Dr. Pragati Chauhan, Dr. JP Sharma & Mr. Vijay Gill	Faculty of Manav Rachna University, Faridabad
2.	"Guiding Framework for Creating and Engaging Trained Faculty and Student IIC Members Innovation Ambassadors (IA) in IIC Institutions and Rewarding Mechanisms for IAs"	29-July-2024	MIC Driven Activity	Mr. Dipen Kumar Sahu	Assistant Innovation Director at the Ministry of Education's Innovation Cell
3.	Strengthening IIC Linkages with ATLs and SICs in Schools and Framework for providing Mentorship Guidance	31-July-2024	MIC Driven Actiity	Mr. Dipen Kumar Sahu	Assistant Innovation Director at the Ministry of Education's Innovation Cell
4	Building the Pipeline of Quality Innovations and Startups in HEIs with Ecosystem Enablers	02-Aug-2024	MIC Driven Actiity	Mr. Dipen Kumar Sahu	Assistant Innovation Director at the Ministry of Education's Innovation Cell
5.	"Orientation cum Refreshers' Session on Institution's Innovation Council Objectives, Structure, Operation for IIC Institutions"	05-Aug-2024	MIC Driven Activity	Mr. Dipen Kumar Sahu	Assistant Innovation Director at the Ministry of Education's Innovation Cell

No. of Activities in IIC Calendar Activity

S.No.	Event Topic	Event Date	Event Type	Speaker	Role/Description of Speaker
1.	My Story - Motivational Session by Successful Entrepreneur/Start-up founder.	01-Sep-2023 to 30-Nov-2023	IIC Calendar Activity	Mr. Pulkit Madan	Founder and CEO of Warp Bay
2.	Session on Problem Solving and Ideation Workshop	01-Sep-2023 to 30-Nov-2023	IIC Calendar Activity	Mr. Mohit Mahajan, Dr. Pradeep K Varshney, and Dr. Yogita Sharma	Mr. Mohit Mahajan, Dean Research Dr. Pradeep K Varshney, and Head of Entrepreneurship Dr. Yogita Sharma
3.	Exposure and field visit for problem identification	01-Sep-2023 to 30-Nov-2023	IIC Calendar Activity	Mr. Shakeel Ahmed Khan	Mentor, NSIC
4.	Workshop on "Entrepreneurship and Innovation as Career Opportunity"	01-Sep-2023 to 30-Nov-2023	IIC Calendar Activity	Mr. Manveen Singh Chadha	Senior Manager (Incubation), FITT-IIT Delhi
5.	Workshop on Design Thinking, Critical thinking and Innovation Design	01-Dec-2023 to 29-Feb-2024	IIC Calendar Activity	Dr. Joginder Singh and Dr. JP Sharma	Professor, Deptt. of Mechanical Engg., MRU
6.	Workshop on Entrepreneurship Skill, Attitude and Behaviour Development	01-Dec-2023 to 29-Feb-2024	IIC Calendar Activity	Dr. Pragati Chauhan	Professor, SoMC E-Cell, Coordinator

7.	Session on Achieving Problem-Solution Fit & Product-Market Fit	01-Dec-2023 to 29-Feb-2024	IIC Calendar Activity	Mr. Hardeep Singh	Software engineer, IDEMIA, New-Delhi
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8.	Field/Exposure Visit to Pre-incubation units such as Ideas Lab, Fab lab, Makers Space, Design Centres, City MSME clusters, workshops etc.	01-Dec-2023 to 29-Feb-2024	IIC Calendar Activity	Dr. Yogita Sharma	Professor, SoMC Startup Activity Co-ordinator
9.	Workshop on Prototype/Process Design and Development	01-March-2024 to 31-May-2024	IIC Calendar Activity	Dr. Pragati Chauhan	Professor, SoMC E-Cell, Coordinator
10.	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/ Technology Transfer Centre such as Atal Incubation Centre etc	01-March-2024 to 31-May-2024	IIC Calendar Activity	Prof (Dr) Yogita Sharma and Dr. Shiv Kumar Singh Pundir	Professor, SoMC Startup Activity Co-ordinator
11.	Demo Day/Exhibition/Poster Presentation of Business Plans & linkage with Innovation Ambassadors/Experts for Mentorship Support	01-March-2024 to 31-May-2024	IIC Calendar Activity	Dr. Abhiruchi Passi, Mr. Vijay Gill and Dr. Jai Prakash Sharma	Dr. Abhiruchi Passi, Professor, ECE, MRIIRS, Mr. Vijay Gill, Assistant Professor, ECE, MRU, and Dr. Jai Prakash Sharma, Associate Professor, MRU.

12.	Session on Innovation/Prototype Validation – Converting Innovation into a Start-up or Session on Achieving “Value Proposition Fit” & “Business Fit”	01-June-2024 to 31-Aug-2024	IIC Calendar Activity	Dr. Umesh Dutta	Director, Institution's Innovation Council (IIC), MRIIRS
13.	Session on Accelerators/Incubation - Opportunities for Students & Faculties - Early Stage Entrepreneurs	01-June-2024 to 31-Aug-2024	IIC Calendar Activity	Vansh Mittal	an alumnus who has navigated diverse educational and career paths, ultimately finding his passion in finance and business.
14.	Session/ Panel discussion with innovation and Start-up Ecosystem Enablers from the region/state/national level	01-June-2024 to 31-Aug-2024	IIC Calendar Activity	Prof. (Dr.) Parneeta Dhaliwal	President, IIC, MRU

F. Highlight few best IIC Faculty/Student members and their achievements/ Rewarded for the innovations at different forum

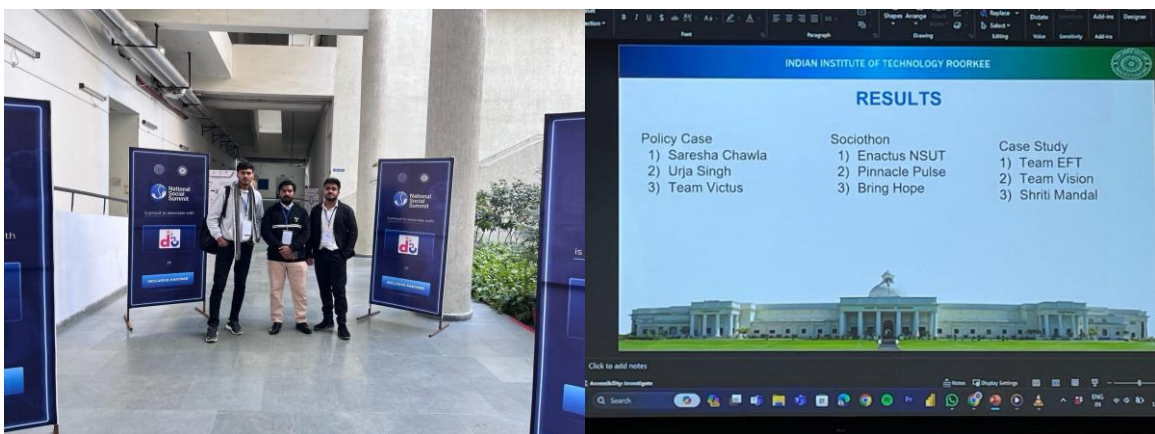
- A team consisting of 3 students, **Arjun Mathur, Mayank Singh Negi and Priyanshu Sharma**, students from the Department of Computer Science and Technology (DoCST) under the mentorship of **Dr. Parneeta Dhaliwal** secured **1st position in HackIndia 2024 - India's Biggest Web3 Hackathon** organised at Manav Rachna International institute of Research & Studies, Faridabad on 28th Aug., 2024.



- Team Bring Hope, consisting of **Rishav, Harsh, and Avdhesh Kumar Sharma**—6th semester students from the Department of Computer Science and Technology (DoCST) under the mentorship of **Dr. Parneeta Dhaliwal**—secured **1st prize in Ideathon 2.0, hosted by J.C. Bose University of Science & Technology, YMCA, Faridabad, on March 6th, 2024**. The team developed an AI-driven navigation system designed to empower blind individuals, aiming to educate them and promote self-reliance.



- Team Bring Hope, consisting of **Rishav, Harsh, and Avdhesh Kumar Sharma**, all 6th semester students from the Department of Computer Science and Technology (DoCST), under the mentorship of **Dr. Parneeta Dhaliwal** secured **3rd place in the Sociothon at the National Social Summit 2024, held at IIT Roorkee on February 10th-11th, 2024**. The team developed an AI-driven navigation system designed to empower blind individuals, with the goal of both educating and fostering self-reliance.



- **Tejas Singh, Vansh Aggarwal, Ayush Sachdeva and Kartik Dargan** Students of DoCST under the mentorship of **Dr. Parneeta Dhaliwal** has secured the **2nd position in Innovathon 2023 organized by Amity, Gurugram on 2nd-3rd Nov., 2023**. The team showcased their project titled “Revolutionising Waste Segregation using Deep Learning and Robotic arm”. The Team has won the prize money of INR 50,000.



- **Tejwant Singh, Disha Panigrahy, Shreya Marwaha and Sneha Kumari** Students of DoCST were **among the top 10 teams out of total of 97 participating teams** in the highly competitive and innovative competition **Innovathon'23 Hackathon competition held at Amity University, Gurgaon on 2nd-3rd Nov., 2023**. The team showcased their project titled **“Empowering Sustainable Practices: A Comprehensive Platform for Carbon Footprint Reduction and Eco-Mentorship”**.



- **Rishav, Harsh and Avdhesh Kumar Sharma** students of 5th semester, DoCST won **3rd prize** in Ideathon held at **J.C. Bose University of Science and Technology, YMCA, Faridabad on 8th Nov, 2023**. The team presented the project based on the problem statement **‘AI driven navigation assistant for enhancing the mobility of blind individuals’**.



- **Team Bring Hope- Rishav, Harsh and Avdhesh Kumar Sharma** students of 6th semester, DoCST won **2ND prize** in **THE EVENT Srijan UNDER Innoskill** hosted by **MRIIRS, Faridabad on 3rd and 4th April, 2024**. The team has developed an **‘AI driven navigation**

system to empower blind individuals which aims to educate as well as make the blind self reliant’.



Faculty achievements:

- **Dr. Mrinal Pandey** was invited as **Guest speaker on 8th August 2024 in one week FDP on "Research and Development in Machine Learning/Deep learning"** at Ajay Kumar Garg Engg. College, Gaziabad. She delivered a session on "Introduction to RNN followed by hands-on practical's.



- **Prof. Shruti Vashist** was honoured as a **distinguished guest** and recognized for her **exceptional leadership in academia and beyond**, exemplifying the extraordinary spirit of women in leadership at the **IEEE Women In Engineering International Leadership Summit 2024** held on **18th Aug., 2024** by **IEEE Women In Engineering Delhi Section** supported by **Global IEEE WIE at India International Centre, New Delhi.**



- **Ms. Chaitali**, was invited to be a **Guest Arbitrator** for the third time for the **South Asia Regional Rounds of the FDI International Investment Moot Court Competition 2024** held from **22nd-25th Aug., 2024.**



G. Highlight selected best Innovations & images with mention of inventor/innovation name

- **Project Name:** Neurofont
Mentor Name: Dr. Parneeta Dhaliwaal
Team Members: Avdhesh, Btech CSE (AIML), Tejwant Singh, CSE (AIML) Vansh, Btech CSE (AIML)

An AI-driven handwriting conversion system. This innovative solution learns from users' handwriting samples as images and accurately replicates it into digital formats like documents and Word files. Say goodbye to generic fonts and hello to personalized handwritten assignments.

- **Project Name:** Military Camouflage Soldier Detection
Mentor Name: Dr. Parneeta Dhaliwaal
Team Members: Liza, Btech CSE (AIML), Anoushka, Btech CSE (AIML)

Military camouflage detection is critical for improving situational awareness and safeguarding personnel safety in battle zones. Our work provides a computer vision-based solution to automatic camouflage detection. Using a computer vision approach known as YOLO, the system can analyze imagery from sources images. Color, texture, and spatial patterns are retrieved and analyzed to determine possible camouflage elements. Furthermore, deep learning models may be trained to differentiate between natural environment and man-made camouflage, increasing detection accuracy. The suggested method enables military personnel to quickly identify concealed dangers and take necessary action. Implementing such a technology can considerably improve military operations by lowering the risk of ambushes and increasing battlefield awareness.

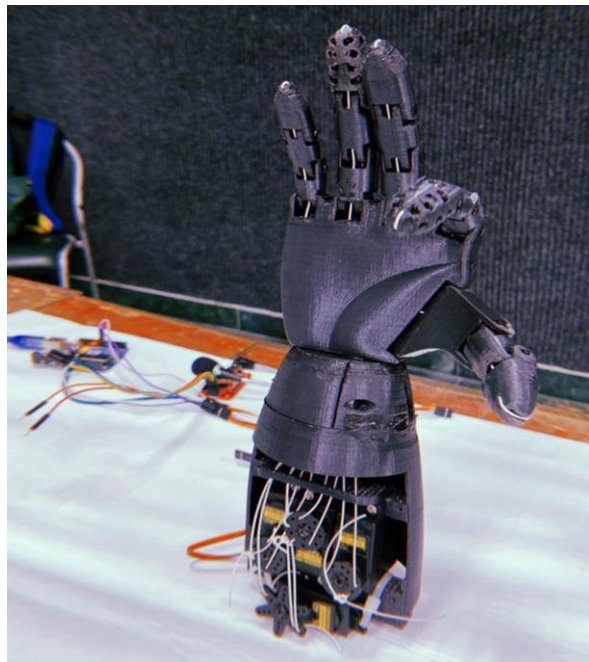


Figure 1: Military Camouflaged Image. Figure 2: Military Camouflaged Image.

Figure 5. Camouflaged Image obtained using CNN

- **Project Name:** Robotic Arm
Mentor Name: Dr Parneeta Dhaliwaal
Team Members: Drishti Uppal , Riya

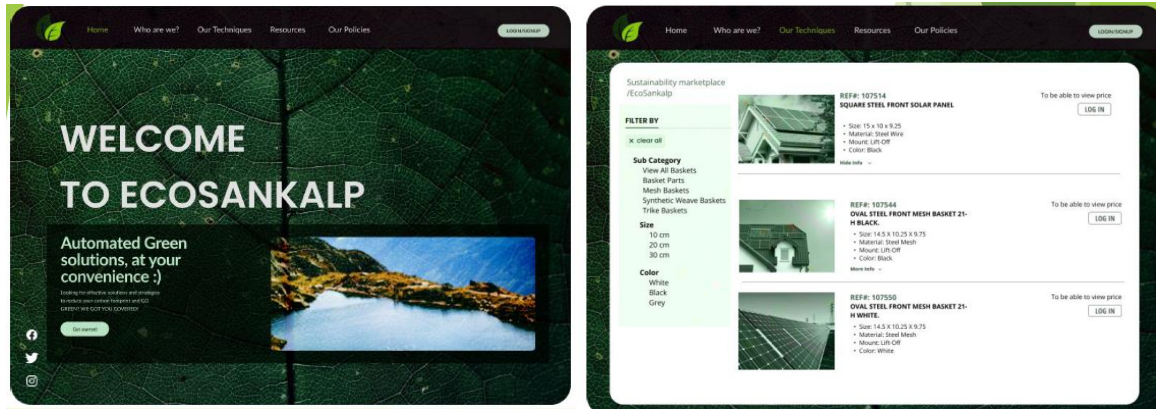
We are developing a wearable prosthetic arm that uses voice brain waves to assist individuals with their daily tasks.



- **Project Name:** EcoSankalp
Mentor Name: Dr Parneeta Dhaliwaal
Team Members: Tejwant Singh, Shreya Marwaha, Aayush Gupta, Praveen Kumar Sharma

EcoSankalp helps businesses fight climate change by tracking and cutting their carbon emissions. With easy tools to calculate emissions and personalized reports, companies can see

where to improve. We encourage eco-friendly choices that are good for business and the planet, aligning with UN goals for a sustainable future.



- **Project Name:** Revolutionizing waste segregation using machine learning and Robotic arm

Mentor Name: Dr Parneeta Dhaliwal

Team Members: Tejas Singh, Kartik Dargan, Ayush Sachdeva, Vansh Aggarwal

The team developed a System and Method for smart detection and segregation of Plastic , Paper and Garbage bags. More particularly, the present invention uses camera vision and a robotic arm and is therefore an intelligent image processing system to complete the task precisely.

- **Project Name:** Fasal

Mentor Name: Dr. Ranjna Jain

Team Members: Harsh Bhardwaj, Swayam Arora

The objective of the project is to revolutionizing Crop Optimization and Damage Analysis Management.

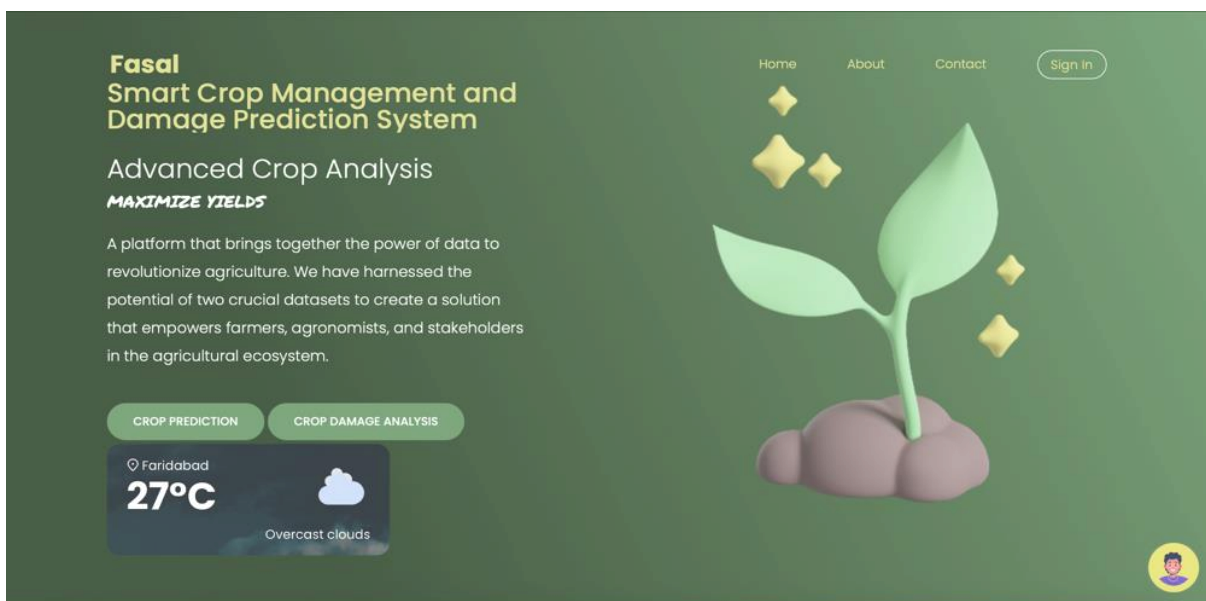


Figure 1. Prototype/Website

H. Highlights of selected start-ups established by students/faculties with mention of founder/cofounder name

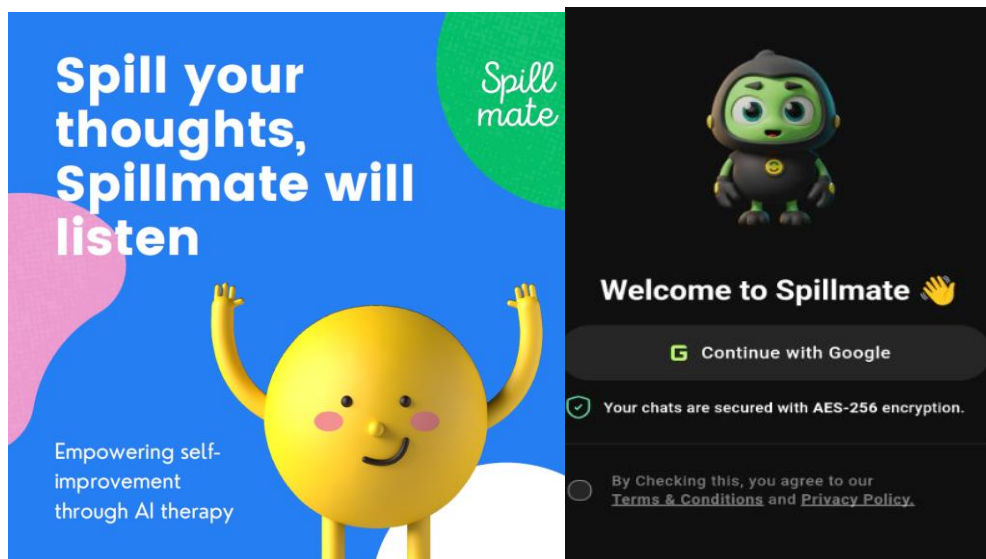
- **Ratiram Limbs (StartUp to help the disabled):** A Team of Manav Rachna University students: **Drishti Uppal, Lakshay, Shivam, and Joy Khaneja from B.Tech CSE, under the guidance of Dr. Parneeta Dhaliwal**, are working on providing robotics hands for people with disability to make themselves self-dependent and trying to create a difference in society. Nearly 190 million individuals worldwide have some form of physical handicap, and we believe that if we could make a difference, why not. We are attempting to create a wearable robotic arm controlled by brain waves for people with special needs to assist them with their everyday activities and foster a sense of independence.



Prototype of Prosthetic robotic arm

- **BRING HOPE (AI Enabled Navigation System for Blind) :** The student team: **Harsh, Btech CSE (AIML), Rishav, Btech CSE (AIML) and Avdhesh, Btech CSE (AIML) under the mentorship of Dr. Parneeta Dhaliwal** is dedicated to enhancing the mobility and independence of blind individuals through an innovative solution. A prototype has been developed that utilizes a combination of Artificial Intelligence (AI), and hearing aid technology. This solution aims to address the challenges faced by blind individuals in navigating their surroundings, providing accurate object detection, precise distance measurement, and real-time navigation instructions. By leveraging these technologies, the project seeks to empower blind individuals to confidently and independently explore their environment.

user-friendly therapy sessions, enabling users to explore their thoughts, emotions, and behaviors through guided conversations. Spillmate is not intended to replace human therapists but to complement traditional therapy by providing continuous, on-demand support. It also received a funding support of Rs 2.5 Lakh.



Screenshot of App developed (Spill Mate)

I. List if any break through Innovations / Technology Developed at the institute

At our institute, students are committed to solving real-world challenges with technological advancements. The list are as follows:

Sr. No.	Project/Problem statement
1.	Developing an efficient machine learning model for the <i>automatic detection and classification of diseases in chili plants using image processing techniques</i> . The goal is to accurately identify common diseases such as chili leaf curl virus, bacterial wilt, or anthracnose from images of chili plant leaves, enabling early detection and intervention to minimize crop damage and maximize yield.
2.	Development of an application for <i>Inaccurate Crop Predictions</i> due to lack of accurate, data-driven insights for crop management leading to suboptimal yields and environmental impact. Also limited decision-making capabilities for farmers due to inefficient agricultural practices.
3.	Revolutionizing <i>waste segregation using Deep Learning</i> and Robotic Arm

4.	Empowering the <i>Blind</i> by developing a prototype for <i>object detection, distance measurement, and confident navigation</i> to improve the quality of life for blind individuals, fostering inclusivity and empowerment.
5.	Design and development of SAE BAJA buggy with innovative features and superior performance capabilities.
6.	To develop and manufacture Ceiling Fan Blades from Glass and Carbon Fiber Composites to save the electricity.

J. Participation of IIC-institute in various programs of Central and Stage Govt. Highlighting specially for the schemes or programs

- **NISP Adoption status** - Inhouse training sessions are conducted for Faculty members and students of all departments to make them aware about the NISP Policy. Every year, IIC accepts applications from every department Under NISP Policy which is reviewed by all the members of IIC and other dignitaries of the university. Faculties are motivated to undergo IA training regarding NISP adoption and motivate students to participate in events.
- ARIIA – Participation in ARIIA 2018-2019, 2019-2020, 2020-2021, 2021-2022, 2022-2023.
- **NISP committees** is formulated to review the projects for their evaluation and revised every year. Office order of committee is attached below:

F. No. /MRU/RDC/IIC-01

Dated: 19.1.2024

OFFICE ORDER

The competent authority is pleased to constitute the Departmental Review Committee for the departments under Manav Rachna University as per the provisions contained in **MRU Policy for Additional Internship/ Start-Up/ Innovation/ Exchange programme to other organizations for Graduate Programme**, the composition of which will be as under:

Department of Electronics & Communication Engineering

1.	Dr. Goldie Gabrani, Dean Research	Chairperson
2.	Dr. Goldie Gabrani, Dean of Faculty	Member
3.	Dr. Charu Pathak, HoD	Member
4.	Mr. Vijay Gill, Faculty Mentor	Member
5.	Dr. Parneeta Dhaliwal, IIC Director	Member
6.	Dr. Abhiruchi Passi, HoD, MRIIRS	External Member (For final evaluation)
7.	Prof. Shruti Vashist, Dean Academics	Special Invitee

Department of Mechanical Engineering

1.	Dr. Goldie Gabrani, Dean Research	Chairperson
2.	Dr. Goldie Gabrani, Dean of Faculty	Member
3.	Dr. Ajit Katiyar, HoD	Member
4.	Mr. J.P. Sharma, Faculty Mentor	Member
5.	Dr. Parneeta Dhaliwal, IIC Director	Member
6.	Dr. Manoj Nayak, HoD-ME, MRIIRS	External Member (For final evaluation)
7.	Prof. Shruti Vashist, Dean Academics	Special Invitee

Department of Computer Science & Technology

1.	Dr. Goldie Gabrani, Dean Research	Chairperson
2.	Dr. Goldie Gabrani, Dean of Faculty	Member
3.	Dr. Manpreet Kaur, HoD	Member
4.	Dr. Ranjana Jain, Faculty Mentor	Member
5.	Dr. Parneeta Dhaliwal, IIC Director	Member
6.	Dr. Suresh Kumar, Prof., MRIIRS	External Member (For final evaluation)
7.	Prof. Shruti Vashist, Dean Academics	Special Invitee

Department of Management & Commerce

1.	Dr. Goldie Gabrani, Dean Research	Chairperson
2.	Dr. Parul Jhajharia, Dean of Faculty	Member
3.	Dr. Tanushri Purohit, HoD	Member
4.	Dr. Pragati Chauhan, Faculty Mentor	Member
5.	Dr. Parneeta Dhaliwal, IIC Director	Member
6.	Dr Bindu Agarwal, Mentor Entrepreneur	External Member (For final evaluation)
7.	Prof. Shruti Vashist, Dean Academics	Special Invitee

Department of Law

1.	Dr. Goldie Gabrani, Dean Research	Chairperson
2.	Dr. Kanu Priya, Dean of Faculty	Member
3.	Dr. Kaveri Sharma, HoD	Member
4.	Dr. S.K. Bose, Faculty Mentor	Member
5.	Dr. Parneeta Dhaliwal, IIC Director	Member
6.	Ms. Neha Wadhawan, Assoc. Prof., MRIIRS	External Member (For final evaluation)
7.	Prof. Shruti Vashist, Dean Academics	Special Invitee

Department of Education

1.	Dr. Goldie Gabrani, Dean Research	Chairperson
2.	Dr. Sangita Banga, Dean of Faculty	Member
3.	Dr. Rashee Singh, HoD	Member
4.	Dr. Geeta Thakur, Faculty Mentor	Member
5.	Dr. Parneeta Dhaliwal, IIC Director	Member
6.	Dr. Anjali Gupta, Prof., MRIIRS	External Member (For final evaluation)
7.	Prof. Shruti Vashist, Dean Academics	Special Invitee

Department of Sciences

1.	Dr. Goldie Gabrani, Dean Research	Chairperson
2.	Dr. Meena Kapahi, Dean of Faculty	Member
3.	Dr. Sandeep Kumar, HoD	Member
4.	Dr. S.K. Shukla, Faculty Mentor	Member
5.	Dr. Parneeta Dhaliwal, IIC Director	Member
6.	Dr. Shagufta Jabin, Prof., MRIIRS	External Member (For final evaluation)
7.	Prof. Shruti Vashist, Dean Academics	Special Invitee

The responsibility of conveying the meeting, circulating the agenda and preparing the minutes shall lie with the Deputy Director, IIC. The Department Review Committee shall meet as and when necessary. Fifty percent of the membership shall form the quorum for the meeting. The tenure of the members of the Department Review Committee shall be 3 years.


Dr. Parneeta Dhaliwal
IIC -Director

Dated: 19.1.2024

F. No. /MRU/RDC/IIC-01

Copy to:

1. PS to VC for kind information of the Hon'ble Vice Chancellor
2. PVC for kind information
3. Registrar for kind information
4. All the Deans/HoDs for kind information
5. All the members concerned
6. DR (Academics) & Dy. Col:


Dr. Parneeta Dhaliwal
IIC -Director

● Faculty Participation in Central & State Government events

Manav Rachna University fosters faculties and students to participate in such events organised by MoE's Innovation Cell-AICTE to make them aware of the opportunities offered to all the students of technical education institutions and how it can be availed. On the same note, IIC members of MRU participated in regional meets organised every year. The regional meet held at Panjab University, Chandigarh, on 20th November 2023, was attended by 3 faculty of Manav Rachna University, Faridabad i.e. **Dr. Pragati Chauhan**, Department of Management & Commerce, **Dr. J P Sharma**, Department of Mechanical Engineering & **Mr. Vijay Gill**, Department of Electronics and communication.





Applications submitted by the students under NISP policy are reviewed through concerned authorities of the university is performed every year and its approval is shared with all the beneficiaries before the commencement of the semester. A sample of application submitted by the students to avail the benefits under NISP Policy.



Department of Computer Science & Technology

MANAV RACHNA UNIVERSITY

State Private University, vide Haryana Act no.26 of 2014

(Formerly ManavRachna College of Engineering,

NAAC Accredited 'A' Grade Institute)

Name of the student: Sarthak Rastogi

Roll No.: 2K19CSUN04024

Batch: 2019-23

Department: CSE

Faculty Mentor name Involved: Mr. Narender

Credit Mapping requested for: Internship

No. of credits mapping requested: 21 Credits (Study scheme attached as Annexure-1)

Brief summary of internship-

Regarding the Company Profile I would like to share with you a brief idea regarding the Company Prodigal.

Prodigal is a cloud-based Consumer Finance Intelligence solution that analyzes agent and customer conversations to enhance profits, experience, and compliance.

Collection agencies, healthcare providers, and lenders rely on Prodigal to unlock insights that drive win-win financial outcomes. Nearly one in five U.S. borrowers have already engaged with Prodigal during 200+ million interactions.

Linkedin : <https://www.linkedin.com/company/prodigaltech/mycompany/verification/>

Official Website : <https://www.prodigaltech.com/>

Further details of internship are attached as **Annexure-2**

DRC Committee for the additional internship policy of university

To manage the 7th semester credits of the above students. The following members constitute the DRC:

1. Prof. Manpreet Kaur
2. Ms. Chandni Magoo
3. Prof. Parneeta Dhaliwal
4. Prof. Susmita Ray
5. Mr. Sanjay Kumar
6. Mr. Anup Singh Kushwaha

Agenda: In line with MRU's additional internship policy, the DRC committee has finalized 7th-semester course credits to enable above students of B.Tech CSE 7th semester to pursue his internship/employment opportunity. According to the additional internship policy, the committee has decided that department will provide all credits of 7th-semester i.e. 28 to the student in two categories:

1. **Additional internship policy:** It provides up to 75% of total semester credits against internship to be completed by the student. Therefore, student can earn 21 credits through internship.

2. **Online courses offered through NPTEL/MOOCs or any other platforms:** Rest 25% i.e. 7 credits will be earned by the student through completing a MOOC course which must be opted from the list of courses provided by the department.

The DRC has checked whether the requirements to avail the additional internship policy for industry internship are being met by the student as below:-

1. As per the additional internship policy, Student has cleared all his credits for the core courses with minimum 7 CGPA up to 6th semester and without any backlogs.
2. He has produced an offer letter/joining letter of his internship/employment from industry.
3. During the internship, he will submit a bi-monthly report/certificate of attendance to the department via e-mail, by the organization.
4. He will submit proof of performance every month by a certified mentor.
5. At the end of internship, DRC shall assess the performance of the students for awarding grades against the credits to be earned.

Thus, on the basis of the minimum requirements of additional internship policy and past performance of the student, DRC recommends the provision of credits of 7th semester to above student and he can be permitted to join internship/employment opportunity. Minutes of meeting attached as **annexure-6**.

Student has requested for credit mapping of 21 credits in the 7th semester for their internship as per University's policy attached as **annexure -4**. Student is expected to complete the following courses in 7th semester as per program structure. The Course Structure/study scheme for 7th semester is given below:-

Annexure - 1

Course Code	Course Name	Course Credits
CSH416B-T&P	COMPUTER VISION & DATA VISUALIZATION	5
CSH311B-T&P	THEORY OF AUTOMATA & COMPILER DESIGN	5
CSH307B-T&P	Software Project Management	4
CSH414B-T&P	INFORMATION RETRIEVAL	5
PSE301-T	ESSENTIAL OF PEACE & SUSTAINBILITY	2
EDH422	BIOLOGY	2 -MDC
CSH402B-T&P	Big Data	5 -MOOC.

I have already registered the course "Foundational Data Science" on Infosys Spring Board platform which maps to 5 credits. I have also registered the course "Basic Course in Biomedical Research" on NPTEL platform which maps to 2 credits (in lieu of the Biology course at MRU). Hence, I'm pursuing a total of 7 credits from MOOCs. Proof of which has been attached as **annexure 3**.

Internship Monitoring and continues assessment-

The assessment of the internship will be done as per Internship rubrics which are attached as **annexure 5**.

Submitted for your approval please.

> (HOD- CST)
MRU
Manjendra

> (Dean Engineering)
MRU
[Signature]

> (Dean Research)
MRU
[Signature]

> (Director-IIC)
MRU
[Signature]

> (IIC HEAD)
MRU
Susmita Ray

[Signature]
29. Sept. 2022

HIC
[Signature]
30/9/22

- Minutes of meeting is maintained for every review of applications submitted by the students. After allocation of benefits to the students, its approval is shared with all the beneficiaries before the commencement of the semester. This helps in setting example for the junior batches and their classmates which motivates them to participate in doing projects and participation in other events which might held outside the university. Under this policy, if any students requested to undergone internship in the final year. They can do the training as MRU promotes as they have cover all the courses till 3rd year.

Date: 19.1.24

A meeting was held on 10.01.24 at 9 AM to discuss the requests submitted by MRU students for availing the benefits under MRU NISP Policy. During the meeting the following members were present:

Prof. (Dr.) Goldie Gabrani, Dean Engineering *G. Sabrew 23/1/24*
 Prof. (Dr.) Shruti Vashist, Dean Academics *Shruti*
 Dr. Parneeta Dhaliwal, Director-IIC *Parneeta*
 Prof. (Dr.) Manpreet kaur, HoD-CST *Manpreet*
 Prof. (Dr.) Ajit, HoD-ME *Ajit*
 Dr. J P Sharma, Dy.-Director- IIC *J.P. Sharma*
 Dr. Ranjana, Associate Professor-CST *Ranjana*

Based on the discussions as per MRU NISP Policy, the following recommendations were made by the committee. Departmental review committee are already formed with file no: MRU/RDC/IIC-01 and communicated with the departments for the same is formed dated: The details are tabulated below:

Sr. No.	Student Name with Roll No.	Event/Project details participated with Year	Benefit claimed by students	Recommendation
1	Tejas Sirgh (2K21CSUN0403 2)	Amity Innovation 2023: First runner up and bagged Rs 50K cash prize hackwithMAIT 4.0 : among top 30 teams	<ul style="list-style-type: none"> Against 4 credits under NISP policy amendments mapping of following 3 courses claimed by student: <ol style="list-style-type: none"> NPTEL MOOC course(4 Credit) 3D Printing (1 Credit) 3D software (1 Credit) For prototype development, requested for attendance relaxation 	<ul style="list-style-type: none"> Must have 60% attendance in all the subjects registered, to appear in end term exams Recommended for mapping extra 4 credits against the following: <ol style="list-style-type: none"> NPTEL MOOC course (4 Credit) <p>Note: Complaint reported by faculty member about his arrogance behavior. He should be asked to improve his behavior with faculty members and should not any complaint in future otherwise benefits would be terminated.</p>

2	Vansh Argarwal (2K21CSUN0403 5) Ayush Sachdeva (2K21CSUN0400 9)	Amity Innovation 2023: First runner up and bagged Rs 50K cash prize hackwithMAIT 4.0 : under top 30 teams	<ul style="list-style-type: none"> For prototype development, requested for attendance relaxation Against 4 credits under NISP policy amendments, mapping of following 3 courses claimed by student: <ol style="list-style-type: none"> NPTEL MOOC course (4 Credit) Image editing and Animation (1 Credit) 3D software (1 Credit) 	<ul style="list-style-type: none"> Must have 60% attendance in all the subjects registered, to appear in end term exams Recommended for mapping extra 4 credits against the following: <ol style="list-style-type: none"> NPTEL MOOC course (4 Credit)
3	Kartik Dargan (2K21CSUN0401 5)	Amity Innovation 2023: First runner up and bagged Rs 50K cash prize hackwithMAIT 4.0 : under top 30 teams	<ul style="list-style-type: none"> For prototype development, requested for attendance relaxation Against 4 credits under NISP policy amendments, mapping of following 3 courses claimed by student: <ol style="list-style-type: none"> NPTEL MOOC course (4 Credit) 3D Printing (1 Credit) 3D software (1 Credit) 	<ul style="list-style-type: none"> Must have 60% attendance in all the subjects registered, to appear in end term exams Recommended for mapping extra 4 credits against the following: <ol style="list-style-type: none"> NPTEL MOOC course (4 Credits)
4	Rishav (2K21CSUN0402 2)	IDEATHON YMCA: Secured 3 rd Position hackwithMAIT 4.0 : under top 10 teams Got Seed Funding of Rs 1,25,500/-	<ul style="list-style-type: none"> For prototype development, requested for attendance relaxation Against 4 credits under NISP policy amendments mapping of following 3 courses claimed by student: <ol style="list-style-type: none"> NPTEL MOOC course (4 Credit) Image editing and Animation (1 Credit) 3D software (1 Credit) 	<ul style="list-style-type: none"> Must have 60% attendance in all the subjects registered, to appear in end term-exams Recommended for mapping extra 4 credits against the following: <ol style="list-style-type: none"> NPTEL MOOC course (4 Credit)
5	Harsh (2K21CSUN0401 2)	IDEATHON YMCA: Secured 3 rd Position hackwithMAIT 4.0 : under top 10 teams Got Seed Funding of Rs 1,25,500/-	<ul style="list-style-type: none"> For prototype development, requested for attendance relaxation Against 4 credits under NISP policy amendments, mapping of following 3 courses claimed by student: <ol style="list-style-type: none"> NPTEL MOOC Course (4 Credit) NPTEL MOOC Course (1 Credit) R Programming (1 Credit) 	<ul style="list-style-type: none"> Must have 60% attendance in all the subjects registered, to appear in end term exams Recommended for extra 4 Credits, mapping the following: <ol style="list-style-type: none"> NPTEL courses (4 credits)
6	Tejwant Singh (2K21CSUN0403)	AMITY Innovation 2023: Among the finalist	<ul style="list-style-type: none"> For prototype development, requested for attendance 	<ul style="list-style-type: none"> Must have 60% attendance in all the subjects

10	Harsh Bhardwaj (2k22CSUN01016)	Project: Identification of mental illness health status	Self mental health status	For prototype development, requested for attendance relaxation	<ul style="list-style-type: none"> Must have 50% attendance in all the subjects registered, to appear in end term exams Recommended for 4 credits Basic of entrepreneurship (MLS308B) - 2 credit Intro. to Finance (MCS232B) - 2 credit
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11 Karam Khanna - SAE in BAJA-2023 (2k22MEUN03079) ATYC-2024
Mentor of the students

Against 4 credits under NISP of entrepreneurship & Intro. to Finance (2 credits) & (2 credits)

Mentor of the students should maintain a log book to update the progress of the students regularly. Based on the above it will be easy to carry out assessments.

Dr. Parneeta Dhallwal
23/1/24
IIC - Director

Dean Acad.
23/1/24

PVC (MRO)

The achievements mentioned are from the last semester against which credit exemption is requested. Kindly share the process of grading these students so that there is no gap in result preparation.

Smart India Hackathon (SIH)- Teams from various streams participated in SIH 2019 , SIH 2020, SIH 2022 and this year SIH 2023 also. Internal Hackathon “AVISHKAR-2023” was organised on 20th September 2023.

Internal Hackathon, AVISHKAR 2023: Internal Hackathon AVISHKAR 2023 Event of Smart India Hackathon (SIH) 2023 was conducted at Manav Rachna University on 20th September 2023 by the IIC team. As per MoE Innovation Cell-AICTE directive, a team of technical experts from the industry was invited as judges to MRU to evaluate the idea solution and its implementation and other parameters to specific problem statements demonstrated by several competing teams of our Engineering students and select the teams to be nominated for SIH 2023 registration for final competition at National level. Each team had 6 students with at least one female student in each group. 18 teams participated in the internal Hackathon held at Manav Rachna University @ HB-02. Students participated enthusiastically and presented their solutions to the Jury members. Mr. Pranav Chauhan (Technical Manager, Design Tech Pvt. Ltd), Dr. Kiran Khattar (Associate professor at BML University) and Dr. Devnajali (Associate professor at BML University) were the three judges invited from industry. The evaluation process was done with solution presentation as per the SIH 2023 format and students demonstrated the basic functionalities of their solutions in both hardware and software categories. The rigorous evaluation process and feedback done by all the jury members were constructive for the teams to understand their shortcomings and solution

improvement. Jury members congratulated all the team members and gave them best wishes for the national level (Smart India Hackathon 2023) event.



- **Yukti Innovation challenge** (PoC Competition & National Innovation Contest): 3 Teams participated in PoC Competition in August 2019 and 5 teams participated in National Innovation Contest 2020 and reached up to Business Plan Preparation level. 4 Teams Participated in Toycathon 2021 through Idea Competitions/Internal Hackathons around 20 ideas were generated. Students are in the process of entering ideas in Yukti Portal.

https://iic.mic.gov.in/institute/innovation-repository

IIC ID
IC201810551

Manav Rachna University (U-0818)

Star Ratings (AY 2022-23)
★★★★★

Sr. No.	Team Leader Details	Usertype	View & Verify ID	No. of Ideas	No. of Innovations	No. of Startups	Verification Status
1	khwahish farid khwahish22be@gmail.com 8448207784	Faculty 2K23MEUM03001	View & Verify ID	0	0	0	Verification Pending
2	vinayak vandan pathak vinayakpathak@mru.edu.in 9870400874	Faculty 2010888	View & Verify ID	0	0	0	Verification Pending
3	Dr. Harsha Devnani harsha.devnani@gmail.com 9760603204	Faculty 2010728	View Details	0	0	0	Verified
4	Saurav sauravchawadi@gmail.com 9310480934	Student 2K23MEU03002	View Details	0	0	0	Verified
5	Ajit ajit@mru.edu.in 9350249278	Faculty 2010064	View Details	0	0	0	Verified
6	Yogita Sharma yogitasharma@mru.edu.in 9818707813	Faculty MRU/2010/61	View Details	0	0	1	Verified

https://iic.mic.gov.in/institute/innovation-repository

IIC ID
IC201810551

Manav Rachna University (U-0818)

Star Ratings (AY 2022-23)
★★★★★

7	Chirag Saini Chiragsaini2004@gmail.com 8882469344	Student 2k23MEU03001	View Details	0	0	0	Verified
8	Sumit Tiwari tiwarisumit0069@gmail.com 9354494405	Student 2K22MEUN03011	View Details	0	0	0	Verified
9	Neha Chaudhary cneha6686@gmail.com 8447063181	Student 22201003NN001	View Details	0	0	0	Verified
10	Dr. Shalu shalu@mru.edu.in 7042269890	Faculty 2010760	View Details	0	0	0	Verified
11	Piyush Charan piyushcharan@mru.edu.in 9559313115	Faculty 2010808	View Details	0	0	0	Verified
12	Saksham gupta guptasaksham2401@gmail.com 9211539023	Student 2K22MEUN03010	View Details	0	0	0	Verified
13	Renu Mittal 9kushalmittal@gmail.com 866063181	Student 2K22MEUN03006	View Details	0	0	0	Verified

IIC ID		Manav Rachna University (U-0818)		Star Ratings (AY 2022-23)			
IC201810551				★★★★★			
81	Avdesh Kumar Sharma dazedfrenyavdesh@gmail.com 8700669213	Student 2K21CSUN04008	View Details	0	1	0	Verified
82	Sanidhya Madhav Shukla sanishyamadhavshukla@gmail.com 8076466708	Student 2K21CSUN04025	View Details	0	0	0	Verified
83	Chirag Garg chiraggarg4698@gmail.com 9971027907	Student 2K21CSUN04044	View Details	0	0	0	Verified
84	Vansh Sharma vanshrocks30@gmail.com 9773553703	Student 22201009N068	View Details	0	0	0	Verified
85	Jammisetty Sai Nanda Gopal sainandagopal09@gmail.com 9381615631	Student 2k21CSUN04014	View Details	1	0	0	Verified
86	Aseem Madaan aseemmadaan9@gmail.com 9812727408	Student 2K21CSUN04007	View Details	0	0	0	Verified
87	Vansh lucystar1600@gmail.com 8920464029	Student 2K21CSUN04035	View Details	0	0	0	Verified

Yukti portal idea registration

K. Detail of Social Media & Connections of IIC institute

- MRU Facebook: <https://www.facebook.com/MRUFaridabad/>
- MRU Twitter: https://twitter.com/manav_rachna
- MRU Instagram: https://www.instagram.com/manav_rachna

L. Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell

Manav Rachna IIC has been a game-changer for startups, continuously providing a platform through exciting competitions and dynamic programs. They offer endless opportunities for aspiring entrepreneurs to connect, grow, and scale their ventures. With a strong commitment to fostering innovation and collaboration, this startup hub has created an ecosystem where startups can thrive. The hands-on mentorship, networking events, and startup challenges are invaluable for any budding entrepreneur looking to make their mark.

Mr. Anurag Pandey, Serial Entrepreneur & Ex Startup Incubation Manager at Startup Accelerator Chamber of Commerce i.e SACC INDIA under Haryana Government.



Planning and UX strategy Layout for Rapid Growth and Expansion in Future Mobility Startup



Navigating the Startup Incubation Landscape: Trends, Initiatives, and Opportunities



విక్రమ్ విక్రమ్ Vikram కుమార్ కుమార్ Kumar • 3rd+

Science Communicator

4mo • 🌐

+ Follow ...

during the 3 day stay during the recent workshops what I noticed in Manav rachana univ is ..it has good no. of faculty with dedication to encourage students to do projects. the university seems to have programs for holistic development of the students and staff. The environment is conducive for students who want to do projects with good infrastructure. college is taking part in community development activities through op ballah foundation by adopting about 8 (?) villages I Many Telugu students r seen in this college located @ faridabad धन्यवाद.

The poster features logos for MANAV RACHNA UNIVERSITY, CollegeBoard, and I-GWUGE DIAMOND. It includes the MATLAB logo and the ARDUINO logo. The text is as follows:

IIC MRU presents...
ARDUINO & MATLAB WORKSHOP

Grab a chance to join a workshop on Interdisciplinary applications with MATLAB and Basics of Arduino-Based projects/Robotics
- P. Vikram Kumar
(IIT Chennai Alumni & Science Communicator)

WORKSHOP ON
APRIL 2ND
INTERDISCIPLINARY APPLICATIONS WITH MATLAB
APRIL 3RD
BASICS OF ARDUINO-BASED PROJECTS/ ROBOTICS

REGISTER YOURSELF HERE →

Faculty Coordinators:
Ms. Anupriya Sharma
9815820463

Student Coordinators:
Sridhar : 9398563607
DurgaPrasad : 9014394069
Sujith : 7569847045

SCAN ME

Limited seats only....
Venue will be shared soon

M. Images of MRU-IIC & CoE

Few pics are attached with reference to various centres developed within the university premises, industry interaction, Motivational session on startup, CoE establishment and many more.



N. Contact

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SOCIAL MEDIA & CONNECTIONS

- 📘 MRU Facebook: <https://www.facebook.com/MRUFaridabad/>
- 🐦 MRU Twitter: https://twitter.com/manav_rachna
- 📷 MRU Instagram: https://www.instagram.com/manav_rachna

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- Vice President IIC: Prof. Dr. J.P Sharma: E-Mail: jpsharma@mru.edu.in ; Mobile: 9718109076
- Convener: Dr. Ranjna Jain : E-Mail: ranjnajain@mru.edu.in; Mobile: 98715434354