



SDG 11: SUSTAINABLE CITIES & COMMUNITIES

Progress Report 2023-2024

MANAV RACHNA UNIVERSITY

Established wide Haryana state Legislature Act
No 26 of 2014 & under section 2(f) of UGC 1956



**Make Cities and Human
Settlements Inclusive, Safe,
Resilient and Sustainable**





PREAMBLE

WE, THE FACULTY, STAFF, AND STUDENTS OF MANAV RACHNA UNIVERSITY, recognizing the crucial role that cities and human settlements play as centers of economic growth and innovation, hereby affirm our active commitment to the objectives of the United Nations Sustainable Development Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable.

WHEREAS sustainable urban development requires thoughtful planning, resilient infrastructure, accessible public spaces, and the preservation of cultural and natural heritage; WHEREAS our institution directly contributes to a safe and sustainable campus and community by prioritizing the accessibility of all buildings, developing green spaces, and implementing effective waste management programs, thereby setting a practical example for urban sustainability;

WHEREAS we actively promote sustainable transportation through incentivizing the use of public transport, providing efficient bus services, and developing infrastructure for non-motorized transport, thereby reducing traffic congestion and improving local air quality;

WHEREAS our commitment extends to engaging with the local urban environment by utilizing our Architecture and Planning departments to offer expertise and innovative solutions for local government and community groups regarding sustainable land use, heritage preservation, and disaster risk reduction;

NOW, THEREFORE, BE IT RESOLVED that Manav Rachna University shall continue to serve as a living laboratory for urban sustainability, integrating principles of resilience and inclusivity into all infrastructure planning; collaborating with local authorities on civic improvements; and educating future professionals to design and manage human settlements that are environmentally sound, culturally responsive, and safe for all residents.

SDG 11

11 SUSTAINABLE CITIES AND COMMUNITIES



Sustainable Cities and Communities

Global Context

- Sustainable Development Goal 11 (SDG 11) emphasizes the importance of sustainable urbanization by making cities and human settlements inclusive, safe, resilient, and sustainable. With over half of the world's population residing in urban areas, rapid urbanization poses challenges such as inadequate infrastructure, pollution, rising e-waste, disaster risks, and inefficient resource management.

The targets of SDG 11 include:

- Ensuring access to safe and affordable housing and basic services.
- Enhancing inclusive and sustainable urbanization and planning.
- Strengthening disaster risk management.
- Reducing environmental impact, including air quality and waste management.
- Providing universal access to safe, inclusive, and accessible public spaces.

The United Nations stresses that achieving SDG 11 requires innovation, citizen engagement, and sustainable technologies to address these complex challenges.

Relevance to Higher Education & MRU's Mission

Higher Education Institutions (HEIs) play a vital role in realizing SDG 11 by:

- Encouraging smart city innovation and technology solutions.
- Promoting research and sustainable practices.

- Building awareness of environmental and urban challenges.
- Engaging students and communities in sustainability.

Manav Rachna University (MRU) integrates SDG 11 in its mission of producing socially responsible global citizens through:

- Student-driven innovations for smart cities.
- Workshops and training on disaster risk and waste management.
- Inclusive technologies for diverse communities.
- Campus-level green initiatives promoting sustainability.

University Vision and Commitments

MRU is strategically committed to sustainable development and urban resilience. Rooted in the belief that education, research, and innovation are powerful drivers of transformation, the university aligns itself with the goals of SDG 11 through:

- Academic and research programs addressing urban sustainability.
- Innovation projects designed to improve resilience, inclusivity, and safety.
- Community engagement initiatives that promote awareness of eco-friendly practices.

Policy Alignment and Institutional Values

MRU's institutional policies reflect inclusivity, sustainability, and responsibility, consistent with national reforms and global SDG frameworks. Policies supporting SDG 11 include:

- Integration of environmental sustainability themes into curricula.
- Encouragement of green innovation and entrepreneurship.
- Community outreach promoting waste reduction, recycling, and awareness.
- Research and projects targeting smart city and disaster resilience solutions.

Key Administrative/Academic Units Involved

- School of Sciences: Organized FDPs and capacity-building programs.
- School of Education & Humanities: Hosted outreach programs, extension lectures, and awareness drives.
- Institution's Innovation Council (IIC): Supported innovation projects addressing urban challenges.

- Centre for Social Responsibility and Community Engagement: Coordinated community initiatives.
- Departments of Engineering & Computer Science: Led technology-based solutions for urban management.

Key Workshops & Events

1. Faculty Development Program (FDP)

FDP Unearthed Dangers: The hidden threats of solid waste in disaster risk

in collaboration with Hazardous Waste Management Division, Ministry of Environment Forest & Climate Change



1.1. Title: *Unearthed Dangers: The Hidden Threats of Solid Waste in Disaster Risk*

Dates: 18–22 March 2024

Organized by: School of Sciences, MRU, with Hazardous Waste Management Division, MoEF&CC

Mode: Hybrid

Highlights:

1. Expert sessions by NDMA, IIT Delhi, JNU, BHU, and MoEF&CC.
2. Topics: solid waste–disaster risk linkages, vermicomposting, GIS monitoring, plastic waste hazards.
3. **Outcome:** Build faculty and student knowledge on urban resilience and waste management.

2. National Science Day Competitions

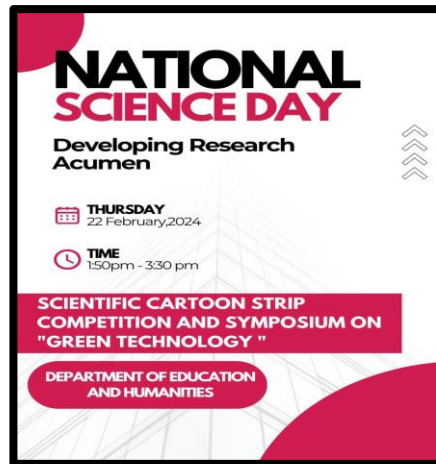
Cartoon Strip and Symposium Competition on “Developing Research Acumen”

Title: Cartoon Strip & Symposium on *Developing Research Acumen*

Date: 22nd February 2024

Venue: J Block, MRU

Participants: 27 Students (BA B.Ed, B.Sc B.Ed)

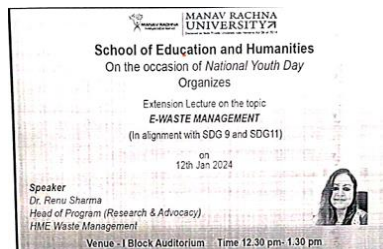


Activities:

- Cartoon Strip Competition on *Sustainable Future*.
- Symposium on *Green Technology*.
- Student Club *Kalakriti* coordinated the event.

Outcome: Enhanced creativity, research orientation, and awareness of sustainability themes among students.

3) Extension Lecture on *E-Waste Management*



On the occasion of **National Youth Day** (12th January 2024), the **School of Education and Humanities, Manav Rachna University**, organized an **Extension Lecture on E-Waste Management**. The session was delivered by **Dr. Renu Sharma, Head of Program (Research & Advocacy), HME Waste Management**.

The lecture focused on the growing challenge of **electronic waste in urban areas** and its implications for **sustainable cities and communities (SDG 11)** as well as **industry, innovation, and**

infrastructure (SDG 9). Dr. Sharma highlighted the importance of **responsible disposal, recycling practices, and youth-led initiatives** to tackle the rising e-waste crisis.

Through this session, students were sensitized to the environmental hazards of unmanaged e-waste and motivated to adopt **eco-friendly practices, circular economy principles, and innovative solutions** for sustainable urban living.

4. Student Innovation Projects (2023–24)

MRU students developed over **35 projects** addressing urban challenges in line with SDG 11.

4.1 Environmental Sustainability & Waste Management

- **System and Method for Monitoring Air Quality** (Patent: 202211076381A by Yaman Hooda, Vishnu Raj, Ananna Bardhan, Dinesh Kumar Sharma)
- Carbon Footprint Calculator & Tracking System
- Waste-to-Energy Conversion & Recycling Solutions
- EcoSankalp: Automated Green Solutions for Carbon Emission Detection
- Hydroponic Farming using IoT

4.2 Smart Cities & Infrastructure


- Smart Multi-Level Parking System
- Online Monitoring of Unauthorized Construction
- Image-Based Monitoring of Building Construction Progress
- Automated Solar Tracker
- Four-Way Traffic Light Controller
- Smart Home Automation System (ESP32)

4.3 Safety, Security & Disaster Risk Reduction

- Tracker for Stolen Phones

- Ultrasonic Radar-Based Security Sensor
- Fingerprint & Digital Combination Locks
- Train Accident Prevention System
- Cyber Triage Tool for Digital Forensics

4.4 Inclusive Technology & Social Good

- AI-driven Navigation for the Visually Impaired
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- AI/ML Solution for Deepfake Detection
- Career Counselling & Guidance Programs in Schools
- Farmers’ Disease Diagnostic & Reporting Portal (AI-based)
- Mobile App for Direct Market Access for Farmers
- Mentor Connect – Guidance Platform

5. Impact Metrics

Category	Indicators	Outcomes 2023-24
Capacity Building	No. of Workshops / FDPs linked to SDG 11	1 Major FDP (5 days)
Student Engagement	No. of students participating in SDG 11 events	150+ students
Innovation Output	No. of student projects linked to SDG 11	35+ projects
Community Outreach	No. of schools/participants reached via events	3+ institutions
Sustainability Impact	Projects addressing waste, energy, & air quality	12+ direct projects

5.1 Challenges & Lessons Learned

- **Funding Needs:** Scaling student innovations into impactful startups requires additional resources.
- **Community Linkages:** Stronger collaboration with government/industry is needed for real-world implementation.
- **Curriculum Integration:** Formal curriculum mapping to SDG 11 themes can be expanded.
- **Awareness:** Wider awareness campaigns can strengthen urban sustainability impact.

5.2 Conclusion

In 2023–24, MRU contributed significantly to **SDG 11: Sustainable Cities and Communities** through:

- A **5-day FDP** on solid waste and disaster risk.
- **Science Day activities** promoting sustainability through creativity and research.
- **35+ student innovation projects** tackling air quality, smart city management, inclusive technologies, and disaster resilience.

These initiatives illustrate MRU’s holistic commitment to sustainable urban development, student empowerment, and community well-being in alignment with **UN SDG 11**.

School of Education & Humanities

Department of Education and Humanities

6.Topic: Cartoon Strip and Symposium Competition on “**Developing Research Acumen**”

Date: February 22, 2024

Venue: J Block

Participants: 27 students

Event Coordinator: Ms. Meenal Rawat, Dr. Pooja Parmar and Dr. Eram Aziz

Student Coordinator: Sunidhi Thakkar and Khushi Sharma (**Student Club Kalakriti**)

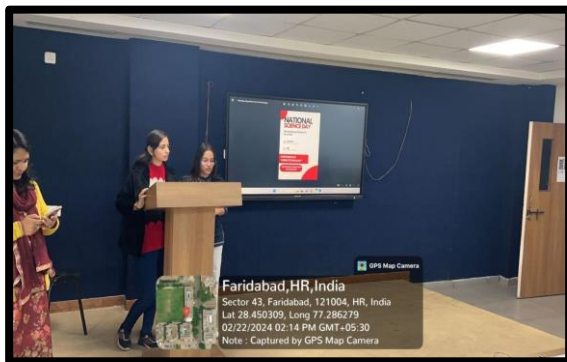
Judges: Dr Arvinder Kaur and Dr Mira Mishra

On February 22, 2024, Manav Rachna University's School of Education and Humanities hosted two competitions for the students in honor of "National Science Day." The Department of Education and Humanities' Celebration of Science Day, which honored the spirit of scientific inquiry and discovery, was a huge success. A symposium and a creative scientific cartoon script competition were highlights of the occasion.

The symposium on the theme “Green Technology” and the cartoon script writing competition on the theme of "Sustainable Future" kicked off the event on February 22nd . Every student in the BA BEd and BSc BEd programs took part. The symposium envisioned the innovative ideas which students represented in their case study presentations, developing the research spirit in the young minds. On the other hand, scientific cartoon making provided a forum for innovation and encouraged the blending of concepts. Students came up with some very creative ideas for the cartoon script, which attempted to simplify difficult scientific concepts related to a sustainable future through visual illustrations.

The jury members for the Scientific Cartoon Making Strip Competition were Dr. Arvinder Kaur and Dr. Mira Mishra while the jury members for Symposium were Dr. Kiran Gupta and Dr. Ritu Sharma. The competitions were organised by the **Student club Kalakriti student coordinator Sunidhi Thakkar and Khushi Sharma .**

SYMPOSIUM





DSW ISR

7.Title: Solid Waste Management and Cleanliness Drive

Date: August 18, 2023

Venue: Chainsa Village

Time: 10:00 A.M.

Purpose of the Event:

The field visit to Chainsa Village, Faridabad, on August 18, 2023, was to sensitize students and faculty of Manav Rachna University to the lifestyle, social status, and economic conditions of the residents, as part of the Unnat Bharat Abhiyan. Additionally, the event aimed to raise awareness about environmental issues, particularly the need to say no to plastic, and to actively engage in the Swachh Bharat drive

About the Event:

The students and faculty of Manav Rachna University embarked on a field visit to Chainsa Village, Faridabad, as part of the Unnat Bharat Abhiyan adopted by Manav Rachna Educational Institutions under the MHRD, Government of India. The objective of this visit was to sensitize students to the lifestyle, social status, and economic conditions of the residents of Chainsa. The field learning included a workshop on "Awareness towards - Mission Life, Say no to Plastic." The village adoption initiative aimed at understanding local problems, assessing needs, leveraging technological interventions, and improving the implementation of government schemes.

The visit comprised an awareness drive encouraging the residents, particularly the girl students of Government Girls Senior Secondary School, Chainsa, to say no to plastic and actively participate in the Swachh Bharat drive.

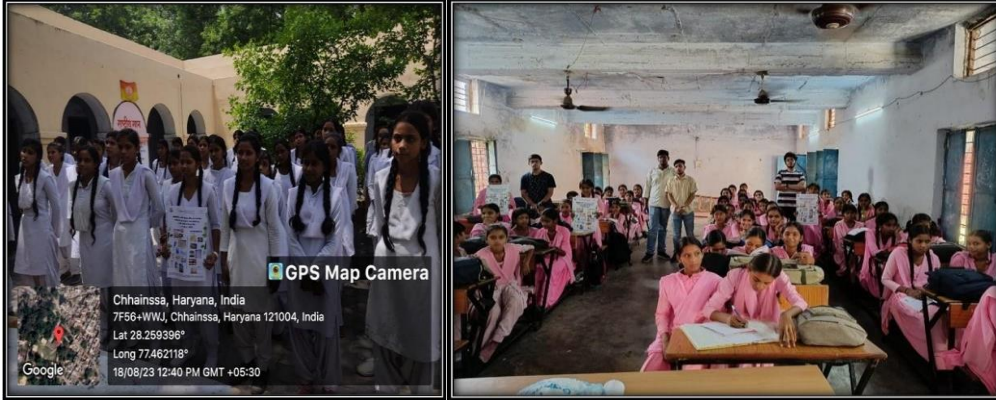
Students from various engineering branches actively engaged in the cleanliness and awareness activities, emphasizing the impact of irresponsible waste disposal on the environment.

This learning intervention, led by dedicated faculty members under the guidance of Prof. Dr. Ajit, Associate Dean Student Welfare, MRU, underscored the university's commitment to holistic education that integrates real-world experiences and social responsibility.

Prof (Dr) Geeta Thakur, Dean, Student Welfare, MRU, emphasized the continuous and multidimensional nature of learning, stating that such endeavors aim to sensitize students towards society while providing valuable learning experiences.

Chainsa village visit by students of MRU







DSW EVENT REPORT

Event Name: Denim Donation

8.Name of the Event: Denim Donation

Date: 3rd August – 10th August 2023

The Denim Donation Drive at Manav Rachna University commenced on August 3rd and runs until August 10th, 2023. The initiative aims to promote sustainable development through the donation of clothes, particularly denim items. Numerous students participated by generously contributing their unused clothing to support those in need. The campaign was organized by the CSR team, in collaboration with the DSW.

The Dean student welfare (DSW) conducted this drive and under this CSR implemented this and also appointed the volunteers for class talks. Members and volunteers of the CSR took the initiative to encourage students across the campus, spreading awareness about the campaign and advocating for donations.

This Denim Donation Camp was located in room NG-02, the DSW facility, and was open during the lunch break. The response from the campus community was overwhelming, with many students enthusiastically donating their gently used denims. The outreach efforts included the distribution of flyers throughout the Manav Rachna Campus. The volunteering

team played a significant role in urging students to contribute to this noble cause.

Volunteers were strategically appointed by the CSR team to manage the collection of donations during the recess break, from 11:30 AM – 12:20 PM, at NG-02 (DSW room). Moreover, these volunteers extended their efforts by visiting various departments over the course on a regular basis. During these visits, they actively promoted the donation drive, raising awareness about the initiative under the guidance of both CSR and DSW teams.

By participating in the Denim Donation Drive, the Manav Rachna University community demonstrates its commitment to sustainable practices and its dedication to making a positive impact on society.

In conclusion, the Denim drive at MANAV RACHNA UNIVERSITY, held from 3rd to 10th AUGUST 2023 stands as a remarkable example of fostering sustainable development through thoughtful contributions.

As the campaign came to an end, the drive successfully ended with numerous collections and students of MRU donated for a positive change in sustainable development.



DSW

Event Name: Moksh Flashmob

9.Name of the Event: Independence Day Flash Mob – Moksh Society

Date: 15th August 2023

Time: 12:00 PM

Venue: L Block & G Block

The Independence Day Flash Mob, organized by the Moksh Society at Manav Rachna University, was successfully conducted on 15th August 2023 at the L Block Ground Floor and outside G Block. The event provided an opportunity for freshers to showcase their talent while receiving support and guidance from senior members of the society.

The performances featured three patriotic songs: Ae Vatan, Teri Mitti, and Maa Tujhe Salam. Freshers including Adish, Arnav, Harsh, Khushi, Rupesh, Jaskaran, and Piyush delivered energetic and enthusiastic performances, while seniors such as Tejas, Kashyap, Ipshita, Nischay, Harsh, and DJ Joseph supported them, ensuring a seamless and coordinated presentation.

The Independence Day Flash Mob was a resounding success, highlighting the immense musical talent within the university community. The event not only celebrated the performers' abilities but also fostered a sense of camaraderie and shared passion for music.

. The contributions of both freshers and seniors significantly enhanced the cultural vibrancy of the campus, setting a high standard for future events. The Moksh Society looks forward to continuing to enrich the university's musical landscape through upcoming initiatives and performances.



DSW

Event Name: Flashmob: Success of CHANDRAYAN 3

10.Name of the event: Flashmob: Success of CHANDRAYAN 3

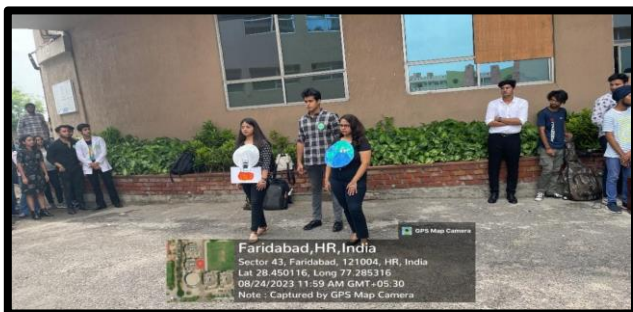
Date of the event: 24 August 2023

Venue: Near G block

A vibrant and enthusiastic flash mob event was organized to celebrate the successful launch and mission of Chandrayaan-3, India's third lunar exploration mission. The event aimed to showcase national pride, scientific achievement, and the collaborative efforts of the entire nation. The flash mob event was a lively and energetic celebration that brought together individuals from all walks of life to rejoice in the successful outcome of the Chandrayaan-3 mission. Held at a prominent public space, the event featured a carefully choreographed dance routine performed by participants. The flashmob aimed not only to

celebrate scientific achievement but also to engage the public in space exploration discussions and foster a sense of national pride.

At the same time, the celebration seeks to raise awareness about India's invaluable contributions to space exploration. The success of Chandrayaan-3 is the result of years of hard work, research, and innovation by our scientists and engineers, and through this event, the spirit of their dedication will be honored. Such milestones act as a source of inspiration, encouraging society to recognize the importance of supporting science and technology for the progress of the nation. Following this, members of *Rudra: The Dance Society* took the stage in v. The poem resonated with the audience, beautifully weaving emotions of pride and admiration for India's space journey. Next, members of *Moksh: The Music Society* uplifted the spirit of the gathering with the soulful rendering of patriotic songs. Their melodious performance struck an emotional chord, as the audience not only listened with pride but also joined in unison to sing along. This collective participation became a symbolic act of unity, showcasing the shared joy and pride of being part of a historic national achievement.



DSW

Event Name: Flashmob: Success of CHANDRAYAN 3

11.Name of the event: Flashmob: success of CHANDRAYAN 3

Date of the event: 24 August 2023

Venue: Near G block

Manav Rachna University organized a vibrant flashmob in front of the H and G Block on 24th August 2023 at 11:20 AM to celebrate India's historic achievement of the successful landing of **Chandrayaan-3** on the moon. The event served as a lively and spirited expression of national pride, bringing together students and faculty to commemorate a milestone that has made India proud on the global stage. The campus buzzed with excitement as the Manav Rachna family gathered to witness an event that combined culture, creativity, and patriotism in a unique way.

The flashmob was performed by the talented members of the *Rudra Dance Society* in collaboration with the *Moksh Music Society*. Students showcased their energy, enthusiasm, and devotion through a carefully choreographed performance on the patriotic song "*Salaam India.*"

The event successfully captured the attention of everyone present, as the rhythmic beats of the music and the vibrant dance moves infused the campus with a sense of joy, unity, and patriotism. Students and faculty members alike joined in the celebration, clapping, cheering, and swaying along with the performers, creating a shared sense of accomplishment and national pride

Beyond the performance, the event served as a symbolic reminder of India's growing capabilities in science, technology, and space exploration. It inspired onlookers to reflect on the incredible efforts of scientists, engineers, and researchers who made Chandrayaan-3's success possible.



12 Students & Faculty Projects

Real-Time Vehicle Tracking System

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Abstract- Our idea is to develop an innovative and automated real-time vehicle training system that mainly focuses on public buses. The app software will comprise connectivity of services like GPS tracker and Geographic Information System (GIS). Our approach is that first we will collect location coordinates from the GPS tracker and we will be storing these coordinates data in our cloud server using the cloud server address and API. Now we have to show the location of the public buses with the marker on Google map. So, we will fetch the coordinates data from the cloud server and integrate this into our app software. We will also connect Google Maps using a maps API essential credential. Now talking about our app software, we have given some useful features:

Users will be able to track the public bus and get an idea when it will come or if the bus is stuck in traffic, it will give an estimated arrival time and traffic information. Moreover, users will be able to get route information where there is a problem in the route. It will help in enhancing the user experience.

Keywords- Real-time Vehicle Tracking, GPS, Vehicle Tracking, Bus Tracking.

Introduction

Buses are road vehicles that carry more passengers than regular cars or trucks. It is most commonly used in public transportation. Every day, more than 25 million people use public transport (buses) for comfort. Irregular bus schedules and late arrivals make it difficult for people to reach their destinations. Our project and research work focuses on this issue.

This project introduces real-time bus tracking designed to revolutionize the public transportation experience. Leveraging advanced GPS technology and Geographic Information System (GIS) integration, the system provides passengers with real-time bus tracking, route planning, traffic information, and Estimated Time of Arrival (ETA). Passengers can easily track the exact location of public buses, access detailed route information, and receive up-to-the-minute ETAs through user-friendly interfaces such as the app mobile and web platforms. Integrating real-time traffic data into the system ensures buses follow optimized routes, thereby minimizing delays and improving overall operational efficiency.

Additionally, this project emphasizes sustainability and environmental responsibility by reducing traffic congestion and fuel consumption. It also provides transportation authorities with valuable data analytics tools to make informed decisions about ridership, service optimization, and maintenance requirements. Integrating real-time traffic data further enhances the system's capabilities. By dynamically adjusting routes based on current traffic conditions, the project will minimize delays and optimize travel time. This not only improves passenger satisfaction but also contributes to the sustainability of public transport by reducing fuel consumption and emissions. Real-time bus tracking and route planning system not only provides passengers with greater convenience but also contributes to an efficient, sustainable, and data-

driven urban transportation system. This innovative solution represents an important step towards a smarter, more accessible, and user-centric public transport network.

12.1 Objective

- Real-time tracking of buses for ease of public.
- User should get the traffic information regarding a particular route or on the route on which they are travelling.
- Expected Arrival Time (ETA) should also be there so that the people get to know when their bus will arrive.
- To make a user-friendly application and web software for real time tracking of buses.

12.2 Literature review:

1. The thesis [1] focuses on designing a vehicle tracking system using GPS and GSM technology. The system will be primarily focused on tracking a Solar Assisted Rickshaw Van using an Arduino Uno R3 and GSM module sim908. The Arduino Uno R3 is interfaced to a GSM modem and GPS receiver, which sends the vehicle's position from a remote location. The GPS modem uses satellite technology for navigation, providing data like longitude, latitude, speed, and distance traveled. When a user sends a request via SMS, the system automatically sends a response to the mobile. The vehicle's position will also be displayed on a Google Map using software XAMPP and Google Map API. XAMPP is a free and open-source web server solution stack package, while Google Maps API embeds Google Maps onto web pages using a JavaScript interface. The MySQL database stores GPS data, and the Google Map API displays location information. The system will also allow for vehicle control in case of theft.
2. Real-time highway traffic monitoring systems [2] are crucial for managing traffic and preventing accidents. These systems rely on online traffic flow information from vehicle trajectories. General-purpose object detectors like Yolo, SSD, and EfficientNet are used, but their average

vehicle classification accuracy is below 57%. This study proposes improving Yolo's classification accuracy and developing a novel bounding box-based vehicle tracking algorithm. A new vehicle dataset was prepared by annotating 7216 images with 123831 object patterns from highway videos. Nine machine learning-based classifiers and a CNN-based classifier were selected, and one out of ten with the highest accuracy was combined with Yolo. The Yolo-based vehicle detector's classification accuracy was increased from 57% to 95.45%. Vehicle detectors 1 and 2 were applied to categorical/total vehicle counting tasks on 4 highway videos. The developed approach improved vehicle counting accuracy by 13.25%, outperforming other systems.

3. Shanghai Grid (SG) [3] is implementing intelligent transportation systems to improve traffic conditions. One challenge is accurately locating moving vehicles in real time. An innovative scheme, HERO, is proposed to address this issue. HERO logs vehicle location information in local nodes, updating it only in nearby nodes. By limiting the number of hops for queries, HERO ensures real-time constraints for each vehicle. Extensive simulations and trace data from Shanghai demonstrate the efficacy of HERO.
4. Vehicle tracking, monitoring [4], and alerting systems are challenging due to issues with real-time vehicle location and alerting systems. GPS is the most widely used technology for tracking and monitoring vehicles, while RFID is used for bus monitoring. GSM is the most widely used for alerting systems, providing location and vehicle information to passengers, owners, or users. These systems aim to manage and control transport using GPS transceivers and RFID technology.
5. Vehicle tracking systems [5] use GPS to locate vehicles in real-time, providing accurate location information. This project uses IoT to achieve better results than conventional methods. The system interfaces with buses using OBD/CAN interfaces and communicates parameters to a central server using wireless sensor network technology.
6. This paper [6] presents an algorithm for tracking vehicles through an image sequence using a model based on the characteristic edges of an intensity image. The algorithm uses Kalman

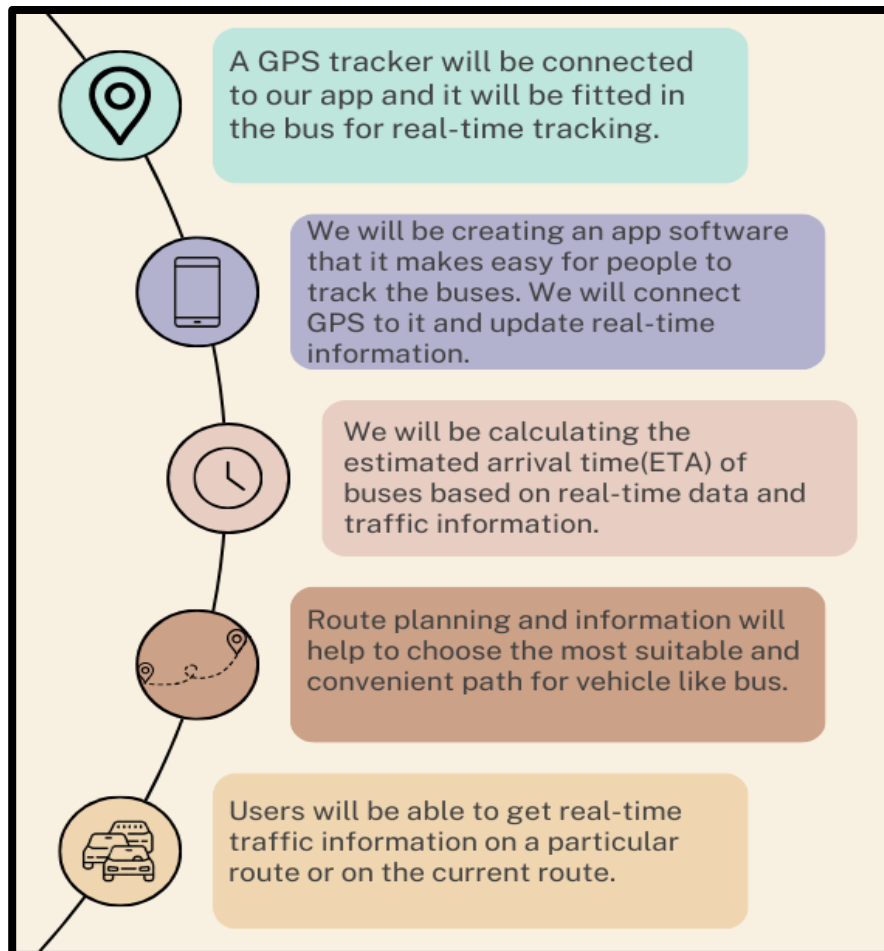
filtering to control model position and scale, a multiple hypotheses strategy to avoid mismatches to local edges with similar structures, and dynamically adapting each model to the vehicle it is matched to. These refinements contribute to better overall performance of the tracking algorithm. The method can track vehicles in real-time with off-the-shelf processing capabilities and can track objects in ambiguous situations. Experiments based on practical data are presented to support these conclusions.

7. The thesis [7] focuses on designing a vehicle tracking system using GPS and GSM technology. The system will be primarily focused on tracking a Solar Assisted Rickshaw Van using an Arduino Uno R3 and GSM module sim908. The Arduino Uno R3 is serially interfaced to a GSM modem and GPS receiver, which sends the vehicle's position from a remote location. The GPS modem uses satellite technology for navigation, providing data like longitude, latitude, speed, and distance traveled. When a user sends a request via SMS, the system automatically sends a response indicating the vehicle's position via SMS. The position of the vehicle will be displayed on a Google Map using software via the internet. The system will also allow for controlling the vehicle if it is stolen. The GPS and Google Map API will be used to provide real-time location information and enhance the tracking process.

12.3 Methodology

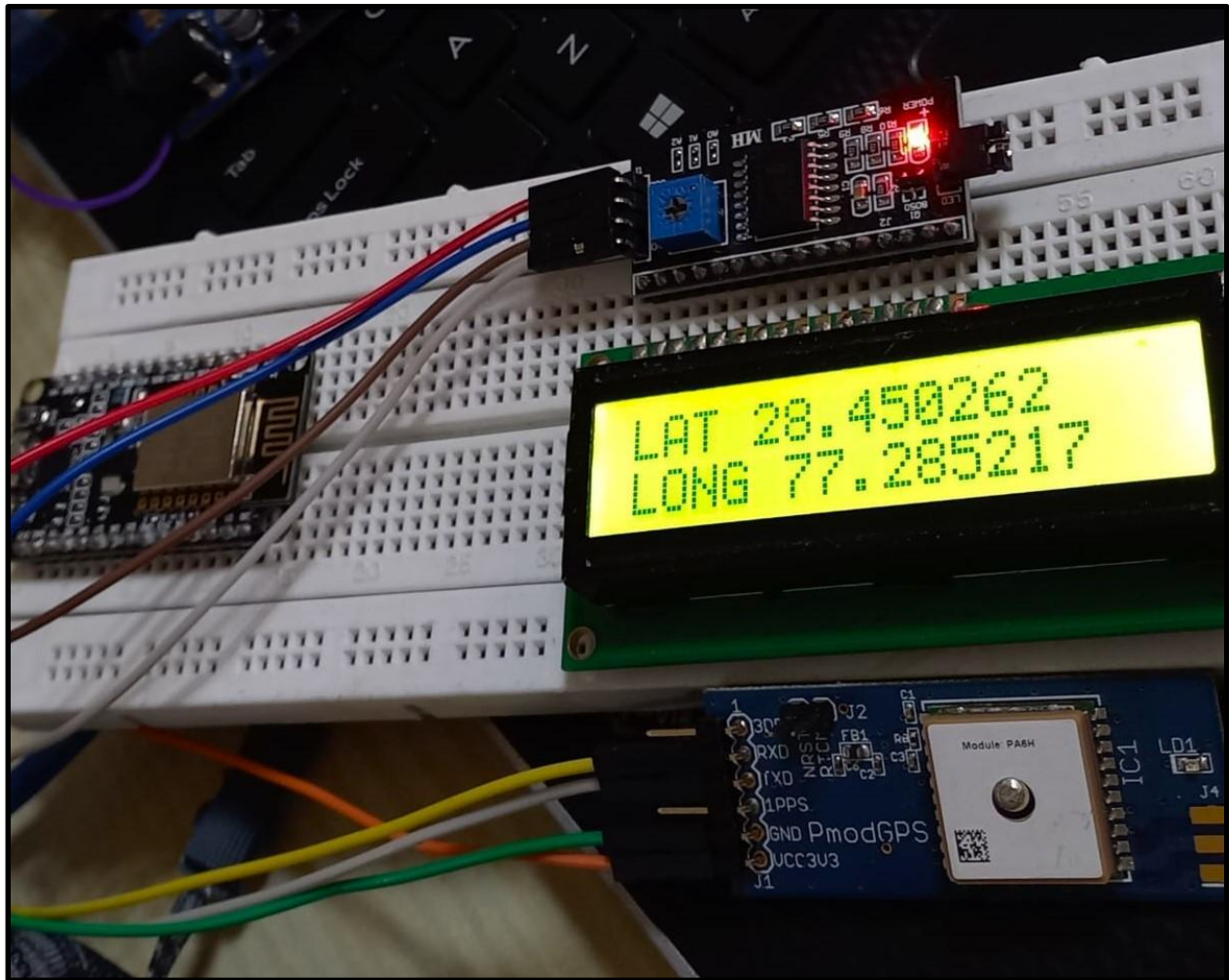
Buses are road vehicles that carry more passengers than regular cars or trucks. It is most commonly used in public transportation. Every day, more than 25 million people use public transport (buses) for comfort. Irregular bus schedules and late arrivals make it difficult for people to reach their destinations.

To achieve this, we proposed an idea wherein there will be app or web software for the best user experience. This process involves several steps, each of which plays a crucial role in ensuring accurate and real-time tracking of vehicles or assets.



Step 1: GPS Connection

The first step in this process involves establishing a connection between the GPS device and the Trackit app. The GPS (Global Positioning System) is a satellite-based navigation system that provides location and time information in all weather conditions, anywhere on or near the Earth where there is an unobstructed line of sight to four or more GPS satellites. In the context of vehicle tracking, the GPS device is typically installed in the vehicle and is responsible for determining the vehicle's current location. This is achieved by calculating the time delay between the transmission and reception of signals from multiple GPS satellites. Once the GPS device has determined its location, it then connects to the Trackit app. This connection can be established using various communication technologies such as cellular networks, Wi-Fi, or even satellite communication in some advanced systems.



Step 2: Data Transmission

After establishing a connection with the Trackit app, the next step is data transmission. In this step, the GPS coordinates determined by the GPS device are sent to a cloud database. The term “cloud” refers to servers that are accessed over the Internet, and the software and databases that run on those servers. By using cloud technology, users can access software and servers located anywhere in the world. Data transmission typically occurs in real-time or at regular intervals, depending on the specific requirements of the tracking system. For example, a delivery company might require real-time tracking to monitor their delivery trucks closely, while a car rental company might only need updates every few minutes.

Step 3: Data Retrieval

Once the data has been transmitted to the cloud database, it needs to be retrieved so that it can be used by the Trackit app. This process is known as data retrieval. During data retrieval, the Trackit app communicates with the cloud database to fetch the latest GPS coordinates. This communication is typically facilitated through APIs (Application Programming Interfaces), which allow different software applications to interact with each other.

Step 4: Update on App

The final step in this process is updating the location information on the Trackit app. Once the app has retrieved the latest coordinates from the cloud database, it updates its display to reflect this new information. This allows users to view fleet locations in real-time on their mobile devices or computers. Depending on the features offered by the tracking system, users might also be able to view historical location data, set up geofences (virtual boundaries), receive alerts for specific events (like a vehicle entering or leaving a designated area), and generate reports.

In conclusion, this process methodology enables real-time tracking of any vehicle in your fleet from a mobile device or computer. It's important to note that actual implementation details might vary based on specific use cases and configurations. For more precise information, you may want to refer to official documentation or support resources of your tracking system.

3.1. GPS installation and data collection

The GPS tracking process involves a series of meticulously arranged steps. It starts with a GPS device, typically installed in the vehicle, that consistently collects real-time location data, including precise latitude and longitude coordinates.

3.2. Setting up communication

The collected data is then relayed to a dedicated mobile application on a smartphone or tablet via cellular or satellite communications, which serves as the user interface for real-time monitoring.

3.3. User interface

The mobile app supports processing incoming location data, which can include tasks such as data formatting, timestamping, and data filtering to ensure accuracy. Processed data is temporarily stored on the mobile device before being sent to a cloud-based server, the central part of this process. The cloud server, equipped with software and databases, serves as an effective data center, receiving, storing, and managing the stream of location data. Here, GPS coordinates and related information, which can include timestamps and vehicle identification, are meticulously organized and accessible to the app.

The mobile app's user-friendly interface provides a real-time display of GPS coordinates, often depicted on a map with location markers and visualizations. To ensure up-to-date tracking information, the app periodically retrieves the latest coordinates from a cloud-based server at regular intervals of time.

Users can interact with the app not only to view real-time location data, but also explore historical tracking records, configure alert systems, or engage in other actions that allow them to effectively monitor and manage the vehicle being tracked. Additionally, the system can provide reporting and analytics capabilities, allowing users and administrators to better understand vehicle movements, routes, and performance. This comprehensive approach ensures the accuracy, accessibility, and efficiency of real-time GPS tracking, making it a valuable tool for a variety of applications ranging from fleet management to personal location services.

12.4 Conclusion

The project aims to revolutionize public transportation by introducing real-time bus tracking. Utilizing advanced GPS technology and Geographic Information System (GIS) integration, the system offers passengers real-time bus tracking, route planning, traffic information, and Estimated Time of Arrival (ETA). This user-friendly interface allows passengers to track the exact location of public buses, access detailed route information, and receive up-to-the-minute ETAs. The integration of real-time traffic data ensures buses follow optimized routes, minimizing delays and improving operational efficiency. The project also emphasizes sustainability and environmental responsibility by reducing traffic congestion and fuel consumption. It provides transportation authorities with valuable data analytics tools for informed decisions about ridership, service optimization, and maintenance requirements. By dynamically adjusting routes based on current traffic conditions, the project minimizes delays and optimizes travel time, improving passenger satisfaction and contributing to the sustainability of public transport by reducing fuel consumption and emissions. This innovative solution represents a significant step towards a smarter, more accessible, and user-centric public transport network.

References:

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- [2] J. Azimjonov and A. Özmen, “A real-time vehicle detection and a novel vehicle tracking systems for estimating and monitoring traffic flow on highways,” *Advanced Engineering Informatics*, vol. 50, Oct. 2021, doi: 10.1016/j.aei.2021.101393.
- [3] *2008 Proceedings IEEE INFOCOM*. I E E E, 2008.
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- [6] J. Van Leuven, M. B. Van Leeuwen, and F. C. A. Groen, “Real-Time Vehicle Tracking in Image Sequences.”
- [7] C. K. Gomathy, C. Reddy, and B. Yaswanth Nikhil Sri Chandrasekharendra SaraswathiViswa Mahavidyalaya, “THE REALTIME VEHICLE TRACKING SYSTEM International Journal of Scientific Research in Engineering and Management (IJSREM) THE REALTIME VEHICLE TRACKING SYSTEM,” 2021, [Online]. Available: www.ijsrem.com

Problem Statement ID – 1629

Problem Statement Title - Freelancing Platform

Theme - Smart Education

PS Category- Software

Team ID-

Team Name – NvM

A FREELANCING PLATFORM-@SIH Idea submission- Template

Purpose: A platform connecting freelancers from different fields with project opportunities, simplifying collaboration for clients and professionals.

13.1 Features:

- Freelancer Profile and Portfolio Management
- Rating and review system for completed project
- Ensures quick payments using UPI
- Enable extensive search and AI insights for job seekers and employers
- Multi-lingual interface.
- ESCROW for protection of freelancer from exploitation.
- Helping users with a smart chatbot
- Supports niche professions and enhances freelancing experience.
- TECHNICAL APPROACH
- Escrow Logic and Payment Logic
- Set Up the Backend Environment and connecting database

13.2 Project Structure, Designing of UI, Styling of the Pages

- Frontend Development
- Backend Development
- Job
- Marketplace

13.3 Features

- Payment Integration and Escrow System
- Search and AI
- Recommendations
- Develop AI RecommendationSystem
- Job Posting and Listing,
- Profile Management

SDG-8

ROADMAP

FEASIBILITY AND VIABILITY

@SIH Idea submission- Template

How are We Different?

- Nationwide Reach
- Personalized Experience
- Minimal Platform Fee
- Secure Transactions
- Multilingual support attracts clients and freelancers from across the country.
- The simple interface ensures quick access to features and services.
- The fee deduction for both freelancers and clients is just 2%, significantly lower than the 10% to 12% charged by other platforms.
- A mandatory escrow system ensures safe payments.
- Market
- FEASIBILITY VIABILITY

-The platform caters to a significant audience who is looking for a job or side gig.

-Financial

-The platform can generate sufficient revenue to cover its costs and achieve profitability.

- Competitive

-The platform can differentiate itself from competitors and maintain advantage.

- Economic

-The platform can be developed and maintained within a modest budget.

- Legal

There are no significant legal or regulatory hurdles to prevent the platform's development and operation.

- Technical

The platform's technology and design are flexible to fit different needs.

IMPACT AND BENEFITS

- Empowerment
- Economic growth
- -Provides opportunities for all skill levels, from students to professionals.
- -Boosts employment by connecting freelancers with diverse job opportunities.

- Career growth
- Offers AI-driven insights for skill development and marketability.
- Freelancers
- Access to a wide range of short-term and project-based jobs.
- Employers
- Streamlined access to skilled freelancers for project-based work.
- Gig economy

- Contributes to the gig economy, increasing overall economic activity

RESEARCH AND REFERENCES@SIH Idea submission- Template

References:

- [1] Rabino, C. (2019). The rise of the freelance economy. ResearchGate, 10(13140), 12070-68165.
- [2] A Global Survey on Freelancing

PATENTS

System and Method for Monitoring Air Quality

Yaman Hooda, Vishnu Raj, Ananna Bardhan, Dinesh Kumar Sharma	202211076381A
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- IoT-enabled device that detects particulate matter and toxic gases.
- Transmits environmental readings to cloud dashboards for analysis.
- Alerts users when pollution levels exceed safe thresholds.
- Supports public health and environmental management initiatives.

Portable Environment Data Monitoring Box

<p>Dr. T. V. Attar,</p> <p>Dr. Piyush Charan</p> <p>Dr. Anupam Das</p> <p>Dr. Vitthal T. Mohite</p> <p>Dr. Vishnu Kumar Saxena</p> <p>Dr. Shashank Pushkar</p>	390497-001
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A handheld box equipped with sensors for air and weather data. Measures temperature, humidity, CO₂, and particulate matter. Stores and transmits readings for research and field use. Helps assess local

environmental and pollution conditions.

RESEARCH PUBLICATIONS

Handling Illumination Variation for Motion Detection in Video Through Intelligent Method: An Application for Smart Surveillance System

Manoj Kumar & Susmita Ray	Handling Illumination Variation for Motion Detection in Video Through Intelligent Method: An Application for Smart Surveillance System
---------------------------	--

- Addresses motion detection under varying lighting conditions.
- Employs adaptive image enhancement and filtering techniques.
- Integrates AI models for robust object movement detection.
- Optimizes smart surveillance reliability in dynamic lighting.

A Walk-through towards Network Steganography Techniques

Urmila Pilia & Manoj Kumar	A Walk-through towards Network Steganography Techniques
----------------------------	---

- Provides an overview of modern network steganography methods.
- Explains data hiding in communication protocols and packets.
- Analyzes security threats and detection mechanisms.
- Offers insights for counter-steganographic defense strategies.

Smart Cities Development using Blockchain Technology in India: A Critical Analysis

Sanjay Singh	Smart Cities Development using Blockchain Technology in India: A Critical Analysis
--------------	--

- Examines blockchain's role in India's smart city initiatives.
- Highlights benefits in governance, transparency, and data sharing.
- Analyzes policy, infrastructure, and scalability challenges.
- Proposes strategic frameworks for nationwide implementation.

International Human Trafficking in Women and Children for Commercial Sexual Exploitation in the 21st Century

Prof.(Dr) SK Bose	International Human Trafficking in Women and Children for Commercial Sexual Exploitation in the 21st Century
-------------------	--

- Examines global human trafficking trends targeting women and children.
- Discusses legal, social, and policy frameworks for prevention and rehabilitation.
- Highlights transnational cooperation challenges.
- Suggests strategies for stronger enforcement and victim support mechanisms.

Understanding Jurisdiction with Reference to International Law

Prof.(Dr) SK Bose

Understanding Jurisdiction with Reference to International Law

- Explores principles of jurisdiction in international legal frameworks.
- Analyzes territorial, personal, and extraterritorial jurisdiction.
- Highlights challenges in cross-border legal enforcement.
- Provides clarity on resolving disputes in global governance contexts

14.True spirit Flashmob (Rudra)

Name of the Event: TRUE SPIRIT FLASHMOB (RUDRA)

Date: 19th September 2023

Time: 1:00 PM – 2:40 PM

Venue: B-Block

(RUDRA)

On the 19th of September 2023, The Felicia Society participated with immense enthusiasm in a vibrant flashmob event held to celebrate the inauguration of TRUE SPIRIT at Manav Rachna University.

As part of the celebrations, the society conducted a lively and creative T-shirt painting contest, inviting students to express their interpretation of "True Spirit" through art.

Participants showcased their artistic flair by painting visually striking designs on T-shirts, which were later exhibited prominently in front of B-Block, adding color and energy to the campus atmosphere.



15. True spirit Flashmob - Moksh

The music society MOKSH of Manav Rachna University delivered a soulful and energetic live performance on 20th September 2023 at B-Block, near the Peace Corridor. The event was organized to mark the auspicious occasion of Ganesh Chaturthi and the official launch of TRUE SPIRIT, a celebration of passion, creativity, and unity among students.



16 True spirit Flashmob - Noora

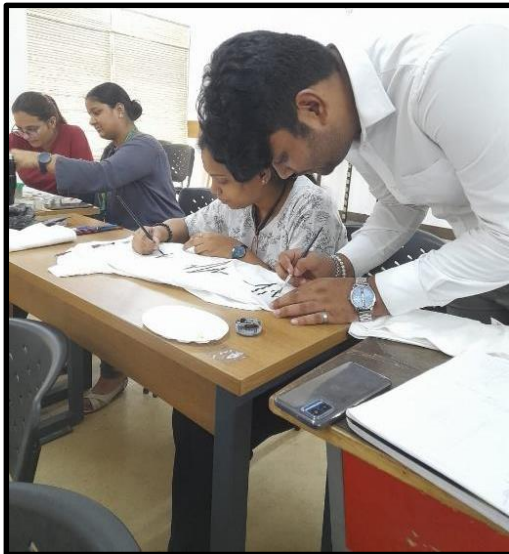
The Noora Fashion Society at Manav Rachna University played a pivotal role in making the True Spirit Shop Opening a truly exceptional event. With their remarkable performance, the society seamlessly blended fashion and entertainment, captivating the attention of all attendees.



17.True spirit Flashmob - Felicia

As part of the celebrations, the society conducted a lively and creative T-shirt painting contest, inviting students to express their interpretation of "True Spirit" through art. Participants showcased their artistic flair by painting visually striking designs on T-shirts, which were later exhibited prominently in front of B-Block, adding color and energy to the campus atmosphere.

The event was successfully organized under the leadership of Unnati Aggarwal and Sujal Taneja, along with their dedicated team members. Their coordinated efforts ensured smooth planning, active participation, and an engaging experience for all involved.



18.Event Name: Prizm Fashion Show

Name of the Event: Prizm Fashion Show Competition

Date: 27th September 2023

Location: GD Goenka University

The Noora Fashion Society achieved remarkable success at the GD Goenka University Annual Fashion Extravaganza held on 27th September 2023. The society secured the 2nd position in the team performance category and proudly claimed the 1st prize in the duet performance category.

Their team performance was distinguished by exceptional creativity and flawless synchronization, artfully blending contemporary and traditional fashion elements. In the duet category, the society delivered a captivating performance marked by impressive artistry and compelling chemistry, effectively conveying deep emotions and storytelling.





REPORT

19.Event Name: Graphic Designing

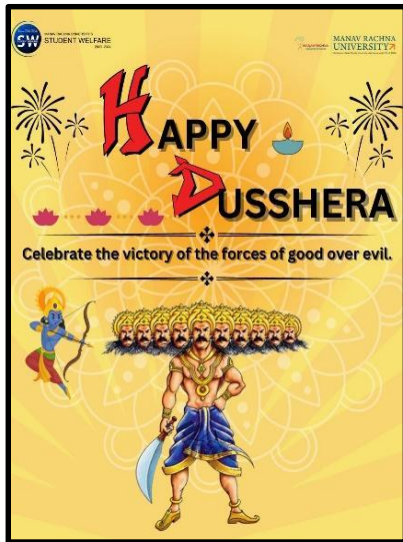
Name of the Event: Graphic Designing

Location: Online

The Graphic Designing Team at Manav Rachna University played a pivotal role in the success of recent university events through their outstanding contributions to visual design and branding. Operating in an online format, the team showcased excellence in creativity, collaboration, and execution.

Divided into two focused sub-teams, one group was responsible for creating professional and visually compelling designs for university societies and social media platforms. Their posters and digital creatives helped enhance event visibility and engagement across the university community. The second team

focused on designing certificates for all participants and winners. Despite challenges such as limited access to Canva Pro, the team demonstrated adaptability and ensured that



20.Event Name: Just A Minute

Name of the Event : Just A Minute (A Debate Competition)

Date : 21st September 2023

Venue : Room JUG-02

The Department of Student Welfare, in collaboration with the Manav Rachna Centre for Peace and Sustainability, successfully organized a stimulating and insightful event titled “Just a Minute: Debate Competition” at Manav Rachna University on 21st September 2023.

The event was conducted with the objective of addressing Sustainable Development Goal 4 (SDG 4) — which emphasizes ensuring inclusive and equitable quality education and promoting lifelong learning opportunities for all. It brought together participants from diverse academic backgrounds, fostering meaningful dialogue around the role of education in sustainable development.

Participants engaged in thought-provoking debates covering a wide range of topics, including the challenges in access to education, gender equality, skill development, teacher training, and the importance of lifelong learning. Their arguments reflected deep awareness, critical thinking, and a strong commitment to global educational equity.

21.Event Name: Introductory Workshop of KARISMA

Name of the Event: Introductory Workshop of KARISMA

Date: 21st September 2023

Venue: J Block

The Introductory Workshop of KARISMA, held on 21st September 2023 at Manav Rachna University's J Block, offered students a valuable opportunity to explore the fundamentals of personality development and self-improvement through interactive and drama-based activities. The session witnessed enthusiastic participation from a diverse group of students eager to enhance their self-awareness, communication skills, and interpersonal abilities.

The primary aim of the workshop was to introduce participants to key concepts related to personal growth, including effective communication, confidence-building, and understanding one's strengths and areas for improvement. The session was carefully designed to foster an engaging and supportive learning environment, beginning with icebreaker activities that encouraged interaction and helped participants feel at ease.





22.Event Name: Workshop- Becoming Your Personal Stylist

Name of the Event: Workshop: Becoming Your Personal Stylist

Date: 29th September 2023

Venue: J Block

The workshop “Becoming Your Personal Stylist” was held on 29th September 2023 at Manav Rachna University’s J Block. The session provided an informative overview of the essential elements and current trends in clothing styling, aiming to empower students with knowledge to create impactful fashion statements and enhance their personal aesthetics.

The primary objective of the workshop was to educate participants on effective styling techniques and boost their confidence in making fashion choices that suit their individual needs. The workshop also emphasized sustainable and ethical fashion practices, encouraging students to consider environmentally friendly options while staying trendy.



23.Event Name: CHECKMATE

Name of the Event: CHECKMATE

Date: 19th October 2023

Venue: KB-05,



Manav Rachna University The chess tournament at

Manav Rachna University witnessed enthusiastic participation from students representing diverse academic disciplines across the campus. The event served as a platform for talented players to exhibit their strategic abilities, critical thinking, and patience while engaging in intense yet friendly competition. The matches were filled with excitement and anticipation, as participants carefully analyzed every move and counter-move, reflecting their dedication and passion for the game.

The tournament was not only a showcase of skill but also of discipline, resilience, and sportsmanship, with players encouraging and supporting one another throughout. The atmosphere remained vibrant and engaging, allowing participants and spectators alike to immerse themselves in the spirit of the game.

24.Event Name: Jugaad Best Out of Waste

Name of the event: Jugaad Best Out of Waste

Date: 19th October 2023

Venue: NG02

The ‘Jugaad: Best Out of Waste’ event, organized by Felicia – The Art Society of Student Welfare at Manav Rachna University in collaboration with Clan Wild Cats, was successfully conducted on 19th October 2023 at NG02 (SW Room) from 2:00 PM onwards. The event aimed to encourage students to unleash their creativity by transforming waste materials into innovative and useful items, promoting sustainability and artistic expression.

The event witnessed enthusiastic participation not only from MRU students but also from students of other universities, making it a vibrant and diverse competition. Participants displayed exceptional creativity and ingenuity, transforming ordinary waste materials into imaginative artworks. The high level of innovation and artistic skill was evident throughout the event, with students presenting a wide range of creations that were both functional and visually appealing.



25.Event Name - Dandiya Night

DATE: 20 October 2023

TIME: 3:00 – 7:00 P.M.

VENUE: Manav Rachna University

On the afternoon of 21st October 2023, Manav Rachna University organized a vibrant Dandiya Celebration that brought together participants from diverse backgrounds. Attendees entered with pre-booked passes and ID cards, ensuring a smooth and secure arrangement, and the event commenced with a traditional puja performed by esteemed faculty members, adding cultural significance and setting a respectful tone. The atmosphere came alive with the rhythmic beats of a DJ and the energetic sounds of the Dhool, as participants enthusiastically engaged in dandiya dances with colorful sticks, creating a lively and joyful ambiance.

Laughter, music, and dance filled the air while students twirled and clashed their sticks in coordination with the rhythm, letting loose and enjoying the celebration to the fullest. Participants of all ages actively joined in, their colorful attire enhancing the visual spectacle and contributing to the vibrant energy.



26.Event Name: Ethnic Day Competition

The Ethnic Day competition organized by the Noora Fashion Society at Manav Rachna University was a vibrant and well-executed event. Students and participants from various backgrounds came together to celebrate the beauty of ethnic fashion.

The competition featured a range of categories, including traditional clothing, accessories, and even a runway display. Students adorned themselves in an array of ethnic ensembles, such as sarees, kurtas, sherwanis, and other traditional outfits from different regions of India and beyond.

The event was not only a showcase of fashion but also an opportunity to learn about and appreciate different cultural heritages. Participants explained the significance and history behind their chosen ethnic attire, adding an educational aspect to the event.



27.Event Name: KALAKRITI - Art Exhibition

Name of the event: KALAKRITI - Art Exhibition

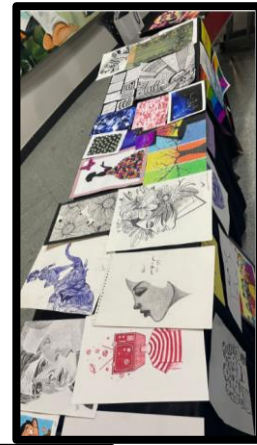
Date: 2nd November 2023

Venue: G-block Mandala

On 2nd November 2023, **Felicia – The Art Society** of Student Welfare, Manav Rachna University, in collaboration with MRCPS, organized an engaging and visually captivating event, **Kalakriti – Art Exhibition**, held at G-Block Mandala from 2:00 PM onwards. The exhibition brought the art community of the university together, showcasing the talent and creativity of students across various mediums and

styles.

The art area was abuzz with excitement as students presented a wide range of works, including pencil shading, paintings, boho art, mandalas, oil paintings, pen art, calligraphy, portraits, and eco-friendly creations. The exhibition also featured vibrant wall hangings and mural paintings, adding color and life to the venue. Each artwork reflected the individuality and creativity of the students, highlighting their dedication and artistic skills.



28.Event Name: Visit to Old Faridabad Railway Station

Name of the Event: Visit to Old Faridabad Railway Station

Date: 8th November 2023

The ISR team under Student Welfare at Manav Rachna University organized an insightful and impactful visit to the Old Faridabad Railway Station with the objective of assessing the cleanliness conditions and contributing towards sustainable development. The team was accompanied by respective faculty

members, whose guidance and support added depth to the initiative, ensuring that it was conducted in an organized and purposeful manner.

Upon arrival, the members carried out a thorough examination of the station premises, carefully observing the platforms, waiting areas, and common facilities to identify areas where cleanliness and hygiene required greater attention.

During this assessment, the team engaged in meaningful discussions with the station master, who not only shared valuable insights about the challenges faced in maintaining railway facilities but also extended full support by granting permission to initiate a cleanliness drive within the station premises. This collaboration highlighted the importance of administrative cooperation in achieving social impact.



29.Event Name: Christmas Event

Name of Event: Christmas Event

Date: 25th December 2023

Venue: G Block, Manav Rachna University

On the joyous occasion of Christmas, the Department of Mechanical Engineering at Manav Rachna University, in collaboration with the Student Welfare Committee and MRCPS, organized a vibrant and memorable celebration on 25th December 2023 at G Block. The event was a unique expression of festive spirit, creativity, and collaboration within the university community.

At the heart of the celebration stood a remarkable symbol of innovation—the iconic Eiffel Tower Christmas tree, crafted entirely from recycled metal pipes by the talented students of the Mechanical

Engineering department. What was once considered waste material was skillfully transformed into a visually stunning and intricate representation of the Eiffel Tower, reimagined as a Christmas tree. This creation not only reflected the artistic and technical capabilities of the students but also emphasized the importance of sustainability and environmental awareness.

30.Event Name: Lohri Event

Name of Event: Lohri Event

Date: 12th January, 2024

Time: 1:30 PM onwards

Venue: Amphitheatre in front of B block, Manav Rachna University

On January 12, 2024, Manav Rachna University celebrated the traditional Punjabi festival of Lohri with immense enthusiasm and cultural fervor at the amphitheatre in front of B Block. The event brought together students, faculty, and staff in a vibrant gathering that highlighted the rich heritage of the region while reinforcing the university's commitment to cultural inclusivity and social awareness. Commencing at 1:30 PM, the event was warmly hosted by Mr. Nakul Sharma and Mr. Jujhar Singh, who welcomed the attendees and set the tone for the celebrations.

The event began with an inaugural cultural performance by members of Moksh, the Music Society of MRU, showcasing the artistic talent and festive spirit of the student community.

This was followed by heartfelt blessings from Dr. Sanjay Srivastava, Vice Chancellor of MRIIRS, and Dr. I.K. Bhatt, Vice Chancellor of MRU, whose presence elevated the significance of the occasion. Dr. N.C. Wadhwa, Director General of MREI, also addressed the gathering with words of wisdom that uplifted the students' morale and encouraged a sense of unity and mutual respect.



31.EVENT NAME: SURAJKUND VISIT

Name of the Event: SURAJKUND VISIT

Venue: SURAJKUND MELA

Date: 14TH February 2024

Timings: 12:45 P.M. onwards

On 14th February 2024, the Water Sharks Clan of the Department of Student Welfare, Manav Rachna University, organized a visit to the Surajkund Mela. The event was designed to provide students with both an enjoyable and educational experience, allowing them to explore traditional handicrafts, cultural performances, and the vibrant atmosphere of the mela. It offered students a unique opportunity to connect with India's rich cultural heritage while participating in a lively and interactive environment.

The visit proved to be engaging and memorable for all participants. Students explored colorful handicraft stalls, admired traditional artworks, and enjoyed various cultural performances, which created an atmosphere full of joy, laughter, and a strong sense of community. The experience allowed students to

learn about the craftsmanship of different regions, observe the skill and creativity involved in making handicrafts, and gain a deeper appreciation for cultural traditions



32. Event Name: Club Carnival 2024

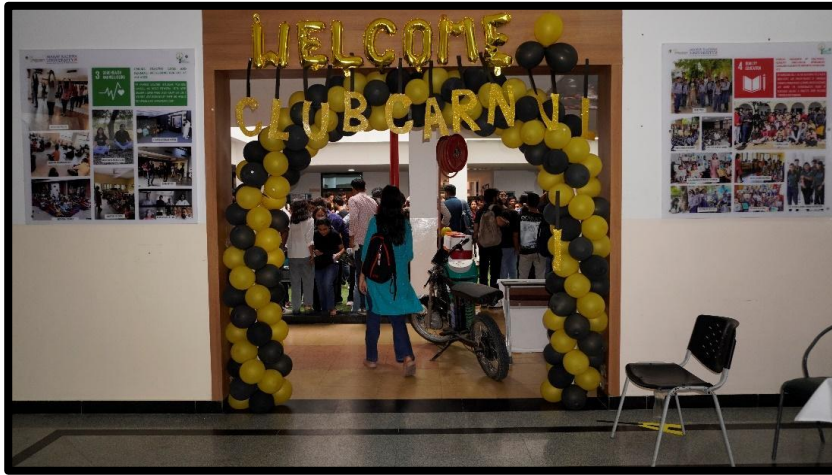
Date: 22nd July 2024

Time: 2:00 PM onwards

Venue: K Block Courtyard, MRU

The *Club Carnival 2024* at Manav Rachna University, held on July 22, 2024, was a vibrant and joyous celebration that brought together freshers and senior students in an atmosphere full of energy, creativity, and community spirit. Organized in the K Block Courtyard by the Department of Student Welfare, the event was designed to showcase the university's diverse student societies and provide the freshers with an engaging introduction to campus life beyond academics.

The carnival began with a motivating address by Dr. Geeta Thakur, who emphasized the importance of holistic development, encouraging the students to explore opportunities that nurture creativity, leadership, and teamwork. Her inspiring words set a positive tone, urging freshers to embrace the wide array of platforms that the university offers.



33. Society Auditions

33.1 Name of Event: Noora Fashion Society Auditions

Date: 13th March 2024

Time: 10:00 AM onwards

Venue: DSW Room, MRU

The Noora Fashion Society at Manav Rachna University successfully hosted its much-anticipated auditions on 13th March 2024, attracting a diverse group of enthusiastic students passionate about fashion, modelling, and design. The event provided an excellent platform for budding talents to showcase their skills, gain recognition, and explore opportunities within the university's fashion scene. Participants eagerly embraced the chance to express their creativity and demonstrate their potential across various aspects of fashion and style.

A key highlight of the auditions was the ramp walk segment, where aspiring models displayed confidence, poise, posture, and stage presence. Participants impressed the panel of judges with their elegance, charisma, and overall performance, leaving a lasting impression. In addition to modelling, the event featured a designer showcase, allowing students to present their original clothing designs. This segment highlighted creativity, craftsmanship, and fashion sensibilities, captivating both the audience and the judges alike.

Event Name: Moksh Auditions

33.2 Name of Event: Moksh Music Society Auditions

Date: 13th August 2024

Time: 10:00 AM onwards

Venue: DSW Room, MRU

Music has the power to connect souls, ignite passion, and create a symphony of emotions that transcends boundaries. In this spirit, the Moksh Music Society at Manav Rachna University hosted its much-anticipated annual auditions on August 13, 2024, in the DSW Room, marking another milestone in its



legacy of musical excellence. The auditions provided a vibrant platform for aspiring musicians, vocalists, and instrumentalists to showcase their talents and earn a place in the prestigious society.

Event Name: RUDRA AUDITIONS

33.3 Name of Event: Rudra Dance Society Auditions

Date: 13th August 2024

The prestigious dance society of Manav Rachna University, exemplifies this spirit. The society successfully conducted its annual auditions in the DSW Room, providing aspiring dancers an opportunity to showcase their talent and secure a place in the esteemed society for the upcoming season. Students from diverse backgrounds performed a range of dance forms, from classical elegance to contemporary dynamism, reflecting versatility and creativity.

The auditions were carefully organized, with participants evaluated on technique, rhythm, creativity, and stage presence. The panel of judges, comprising experienced dancers and faculty members,

provided constructive feedback and assessed the potential of each performer. The energy in the room was palpable, with dancers captivating the audience and leaving a lasting impression.



33.4Event Name: Karisma Auditions

The Karisma Society successfully conducted its highly anticipated annual auditions in the DSW Room, welcoming a diverse group of students eager to showcase their communication skills, leadership abilities, and creative thinking. The auditions were structured to evaluate participants across multiple dimensions, including confidence, articulation, spontaneity, and the ability to engage in meaningful discussions. Students actively participated in a series of activities such as extempore speeches, debates, impromptu storytelling, and problem-solving challenges, demonstrating creativity, presence of mind, and effective communication. The panel of judges, comprising experienced mentors and senior society members, carefully observed each performance, providing constructive feedback and assessing the potential of every participant.



34Name of Event: Gamenix Society Auditions

Date: 14th August 2024

Time: 10:00 AM onwards

Venue: DSW Room

On 14th August 2024, the Gamenix Society at Manav Rachna University successfully conducted its highly anticipated auditions to recruit talented gamers for the university's competitive team. The event,

held in the N Block DSW Room, witnessed enthusiastic participation from students eager to showcase their gaming skills and secure a place on the e-sports roster.

The audition process was structured to evaluate participants comprehensively. It included one-on-one interviews to assess game knowledge, adaptability, and strategic thinking, followed by in-game performance evaluations to examine individual mechanics, reflexes, and problem-solving abilities. Team-based matches were also conducted to observe communication, leadership, and coordination among participants.



35.Event Name: Rehnuma Auditions

The Literary Society at Manav Rachna University hosted its annual auditions to explore and evaluate students' literary talents. The event attracted a diverse group of participants, each eager to showcase their creativity, command over language, and critical thinking skills. It provided a valuable platform for students to express themselves through various literary forms in an intellectually stimulating environment.

The auditions were divided into four major segments. In the poetry session, participants presented original and classic pieces on themes such as love, feminism, and social issues, with performances judged on depth, rhythm, and emotional expression. The storytelling and passage recitation segment tested narrative skills and expressive reading, captivating the audience with compelling storytelling and vocal modulation. The debate session, a key highlight, assessed participants' ability to think spontaneously, construct persuasive arguments, and counter opposing viewpoints with clarity and confidence.



36.Event Name: Chasing Freedom

Name of the Event: Chasing Freedom: Quiz on Iconic Fighters

Date: August 22, 2024

Time: 2:00 pm Onwards

Venue: Room IT-09, I Block

On August 22, 2024, Clan Wild Cats organized *Chasing Freedom: Quiz on Iconic Fighters* in Room IT-09, I Block, Manav Rachna University, as part of the Independence Day celebrations. The event drew an overwhelming participation of various students, all eager to test their knowledge and engage with the legacy of India's national heroes.

The quiz was designed to pay tribute to India's freedom fighters by celebrating their remarkable contributions to the struggle for independence. The questions covered a wide spectrum, ranging from legendary figures like Mahatma Gandhi, Subhas Chandra Bose, and Bhagat Singh to lesser-known but equally inspiring heroes. This approach ensured that participants not only recalled popular historical facts but also gained awareness of unsung warriors whose sacrifices shaped the nation's destiny.



37.Event Name: Anime Art Event

Name of Event: Anime Art Event

Date: 29th August 2024

Time: 2:00 PM onwards

Venue: JUG02

The Sketch or Surrender – Anime Art Event at Manav Rachna University, organized by the Art Society – Felicia, was a vibrant celebration of creativity, anime culture, and student talent. Held on August 29, 2024, the event brought together students from diverse disciplines to express their artistic flair through anime sketching, fostering a sense of community and artistic collaboration.

The competition challenged participants to create anime character sketches within a limited time frame. Characters were randomly assigned, adding spontaneity and pushing students to adapt their styles creatively. Participants demonstrated impressive skill and originality, using charcoal and lead techniques to portray their chosen characters with depth and detail.

Adding an intellectual layer to the event, anime-related quizzes were integrated into the schedule. Students who correctly answered quiz questions earned bonus time to enhance their sketches, combining artistic expression with cultural knowledge. This approach enriched the experience and rewarded both talent and engagement.

The judging process featured a balanced evaluation by a panel of experienced coordinators—Harshita Singh and Tanazza Muskan Mirza—alongside audience voting. This inclusive system ensured fairness while recognizing both technical proficiency and creative interpretation.



38.Event Name: Ganesh Chaturthi

Name of Event : Ganesh Chaturthi

Date : 7th & 8th September 2024

Venue: T Block Auditorium , Manav Rachna University

On 7th and 8th September 2024, Manav Rachna University celebrated Ganesh Chaturthi with zeal and fervor, hosted by the Cultural Committee. The two-day celebration began with the installation of an eco-friendly Ganesha idol in the beautifully adorned K Block Library and G Block Mandala. The event aimed to promote cultural awareness, unity, and environmental sustainability, with over 80 students actively participating in organizing and performing.

The festivities included devotional aartis, bhajans sung by the Music Club, and a range of cultural performances showcasing classical dances such as Bharatanatyam and Odissi. A humorous and educational skit, performed by the Drama Club, engaged the audience and shed light on the significance of Lord Ganesha in a fun, entertaining manner. In keeping with sustainability efforts, the idol and decorations were crafted from biodegradable materials, emphasizing the importance of eco-friendly festival practices.



REPORT

39.Event Name: Comic Strip Competition

Name of Event : Comic Strip Competition

Date : 12th September 2024

Time: 1.50 PM to 3.00 PM

Venue : IT 09 , Manav Rachna University

The Comic Strip Competition, organized by the Karisma Society on 12th September 2024, was an engaging event that highlighted the artistic creativity and storytelling skills of students. Based on the theme “*Scenarios of Classroom,*” the competition encouraged participants to explore various aspects of classroom life, ranging from humorous student-teacher interactions to reflections on exam pressure, friendship, and classroom dynamics.

The event received over 50 entries, including both individual and team submissions from freshers as well as senior students. The submissions showcased a wide variety of artistic styles and perspectives, with participants using different mediums such as hand-drawn illustrations and digital art. Many of the entries used humor to capture the lighter side of everyday classroom experiences, making them both relatable and entertaining.



REPORT

40.Event Name: Panchtatva

Name of Event : Panchtatva

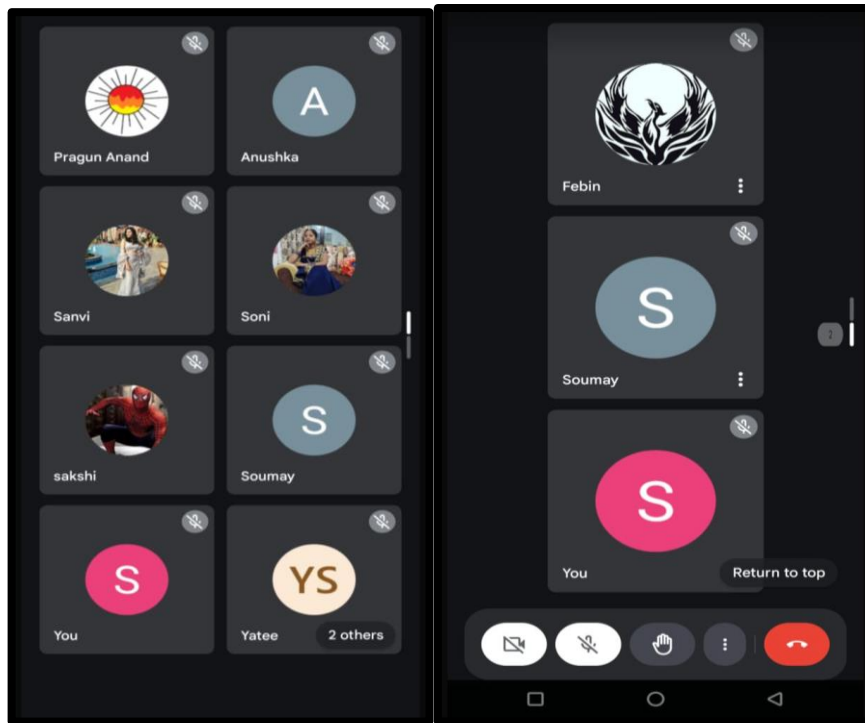
Date : 19th & 20th September 2024

Venue : Online

Organized by: Clan Water Sharks, Manav Rachna University

The event “Panchtatva: Uniting Talent Through Singing and Poetry” was successfully organized on 19th and 20th September 2024 by Clan Water Sharks, Manav Rachna University. This unique online event brought together students from various departments to celebrate the five elements of nature—Earth, Water, Fire, Air, and Ether—through self-composed poetry and soulful singing.

Participants submitted their performances in the form of pre-recorded videos, reflecting a rich tapestry of artistic expression. Each submission was inspired by one or more of the Panchtatva elements, creatively exploring their symbolism, power, and connection to human life. The performances demonstrated not only artistic skill but also deep reflection on nature and personal expression.



41.Event Name: Debate Competition

Name of Event: Debate Competition

Date: 19th September 2024

Time: 2:00 PM onwards

Venue: K Block Basement, Manav Rachna University

On 19th September 2024, the "Rehnuma" Literary Society of Manav Rachna University hosted a dynamic and insightful debate competition. Held in the K Block basement, the event saw 10 enthusiastic participants presenting their views on the theme "Cultural Appreciation or Cultural Appropriation." The debate was adjudicated by respected judges, Nisha and Dushyant, who ensured a fair and engaging competition. Participants were tasked with arguing either in favor of cultural appreciation, which promotes unity and understanding, or against cultural appropriation, which is seen as exploitative and disrespectful.

Throughout the competition, students displayed their critical thinking and public speaking abilities, engaging the audience with well-reasoned arguments. The event proved to be more than just a contest of ideas; it was a valuable platform for raising awareness about the fine line between cultural exchange and

exploitation. The participants' performances were marked by their clarity, poise, and ability to argue from diverse perspectives, reflecting the importance of respecting cultural diversity.



42.Event Name: Essay Writing Competition

Name of Event: Essay Writing Competition – International Poverty Eradication Day

Date: October 10, 2024

Time: 2:00 pm onwards

Venue: JUG-03

On 10th October 2024, the Air Falcons Clan at Manav Rachna University successfully organized an Essay Writing Competition to commemorate International Poverty Eradication Day. The event aimed to raise awareness about the global issue of poverty and encouraged students to explore its causes, effects, and potential solutions through thoughtful writing.

A total of 21 students initially registered for the competition, with 11 participants reaching the final round. Students from diverse academic disciplines brought a variety of perspectives and writing styles, reflecting the richness of thought and creativity within the university community. The competition provided an excellent platform for participants to express their ideas while fostering discussions on social responsibility and global awareness.



43.Event Name: BGMI Tryouts Event

Name of Event: BGMI Tryouts Event

Date: October 24, 2024

Venue: H Block, HF03 Room, Manav Rachna University

On 24th October 2024, the Gamenix Society at Manav Rachna University hosted the BGMI (Battlegrounds Mobile India) Tryouts to identify promising players and foster a competitive gaming environment within the university. The event took place in H Block's HF03 Room and commenced at 2 PM, attracting a large number of enthusiastic participants eager to showcase their gaming skills.

The tryouts were designed to evaluate participants on various aspects of gameplay, including team coordination, strategic planning, communication, and in-game performance. Players were divided into squads and competed across multiple rounds, with judges assessing their performance based on kills, survival time, and effective teamwork.

The event successfully highlighted several talented individuals who demonstrated exceptional skill, leadership, and collaboration. Team NO FEAR emerged as the top-performing squad, showcasing remarkable coordination and strategic acumen. They were closely followed by Team ECLIPSE HUNTERS and Team BLUNDER, who also displayed impressive gameplay and teamwork. These teams have now earned the opportunity to participate in further training sessions and upcoming tournaments, marking an important step in promoting competitive gaming at the university.





44.Event Name: Rangoli Making Competition

Name of Event: Rangoli Making Competition

Date: October 24, 2024

Time: 2:00 pm onwards

Venue: K-Block Basement, Manav Rachna University



On October 24, 2024, the Air Falcons Clan of Manav Rachna University successfully organized a vibrant *Rangoli Making Competition* at the K-Block Basement. The event was conducted with the objective of promoting creativity, encouraging healthy competition, and providing students with an engaging platform to express their artistic talents while strengthening clan spirit.

The competition witnessed an overwhelming response with around 70 registrations. After a shortlisting process, 31 students were selected and divided into 12 teams, each bringing forward innovative ideas and unique designs. Using colored powders, flower petals, diyas, and other decorative materials, the participants created Rangolis that not only highlighted their creativity but also reflected cultural values and traditional artistry. The colorful patterns transformed the venue into a lively and festive space, drawing attention from students and faculty alike.

45. Event Name: The Case Study Symposium

Name of the Event: The Case Study Symposium: A Journey of Research and Innovation

Date: 20 November 2024

Venue: I-Block Auditorium

The Case Study Symposium, held on November 20, 2024, at the I-Block Auditorium, was a monumental event celebrating innovation, analytical rigor, and collaborative learning. Organized by the Department of Student Welfare, it brought together students across disciplines to tackle industry-relevant challenges through case studies.

Participants formed teams of 2-3 members to analyze complex scenarios, conduct in-depth research, and propose innovative solutions. Esteemed judges, including academicians and industry experts, evaluated presentations based on originality, research depth, and clarity. The day commenced with a keynote address emphasizing the role of case studies in fostering critical thinking and problem-solving skills.



46. Event Name: The Ad Mad Show

Name of the Event: The Ad Mad Show: Creativity Meets Responsibility

Date: November 21, 2024

Venue: Online

The Ad Mad Show was a highly engaging online event organized by Clan Wild Cats in collaboration with Khalbali – The Dramatic Society, designed to encourage students to creatively address pressing social issues through innovative advertising. The event centered around the theme “A Community Responsibility” and was structured in three competitive rounds: Idea Submission, Ad Creation, and Final Evaluation, allowing participants to progressively develop, refine, and present their concepts in a meaningful way.

Students were given the freedom to choose from a range of social themes, including Environmental Responsibility, Health and Wellness, Social Equality, Community Engagement, and Road Safety, enabling them to craft messages that were both impactful and thought-provoking. Each participant aimed to inspire positive action and promote awareness, highlighting how advertising can be used as a powerful tool for social change. The judges assessed the entries on the basis of creativity, relevance, clarity of message, impact, and overall presentation, providing constructive feedback to help participants enhance their communication and marketing skills.



47. Event Name: Logo Design Competition

Name of Event: Rangoli Making Competition

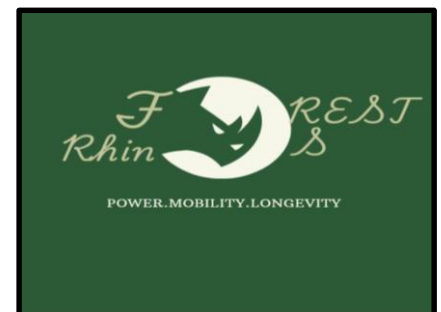
Date: October 24, 2024

Time: 2:00 pm onwards

Venue: K-Block Basement, Manav Rachna University

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48.Event Name: Slogan Writing Competition

Name of Event: Slogan Writing Competition

Date: November 21, 2024

Time: 2:00 PM

Venue: NG02 (SW Room)

The Literature Society, Rehnuma, in collaboration with the Felicia Society at Manav Rachna University, organized a Slogan Writing Competition on November 21, 2024, in NG02. The event aimed to celebrate the art of crafting impactful and memorable slogans that resonate with an audience while encouraging participants to convey powerful messages concisely and creatively.

Students enthusiastically participated, exploring themes ranging from social causes to motivational ideas. Each entry demonstrated originality, linguistic flair, and effective wordplay, reflecting the students' ability to combine creativity with clarity. The judges evaluated the submissions based on relevance, creativity, brevity, and emotional impact, ensuring a fair and comprehensive assessment.



49.Event Name: Convocation Ceremony

Name of the Event: Convocation Ceremony for Batch 2024-25

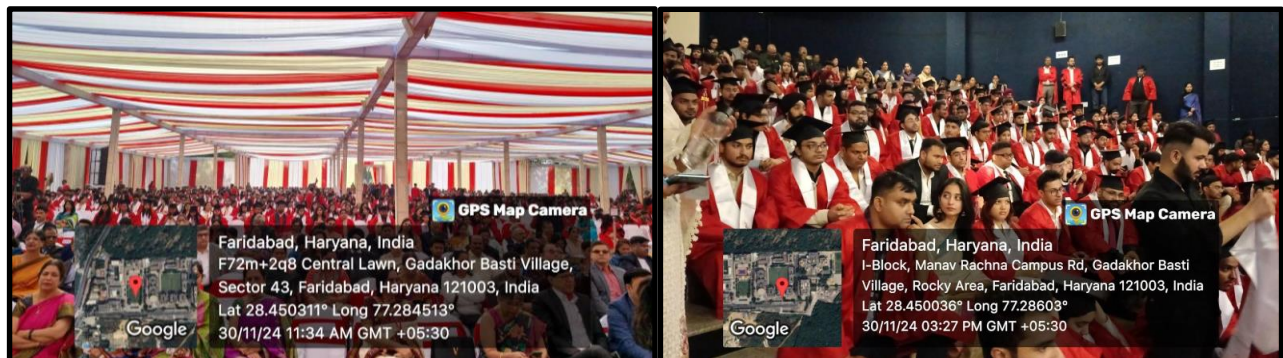
Date: 30th November 2024

Venue: G Block Mandala Auditorium & Central Lawn

Manav Rachna University hosted the Convocation Ceremony for the Batch of 2024-25 on 30th November 2024, a momentous occasion celebrating the culmination of the graduates' hard work and perseverance. The *G Block Mandala Auditorium* and *Central Lawn* were beautifully adorned with colorful decorations, creating an atmosphere of pride, joy, and achievement. The event brought together graduates, faculty, dignitaries, and family members in a grand celebration of academic and personal milestones.

The ceremony commenced with a *grand procession* led by university dignitaries, followed by graduates in their ceremonial robes, symbolizing unity and accomplishment. The Vice Chancellor delivered an inspiring address, congratulating the graduates and urging them to embrace lifelong learning and innovation to navigate the evolving world. He highlighted the university's role in fostering research, leadership, and holistic development.

The Chief Guest, Honorable Speaker of Lok Sabha Om Birla, delivered a powerful speech emphasizing the role of education in shaping society. He encouraged graduates to use their skills and values to serve the nation and embrace future challenges with integrity and resilience.





50.Event Name: Poetry Writing Competition

NAME OF EVENT: Poetry Writing Competition for Bharatiya Bhasha Diwas

DATE: 11th December 2024

VENUE: Manav Rachna University

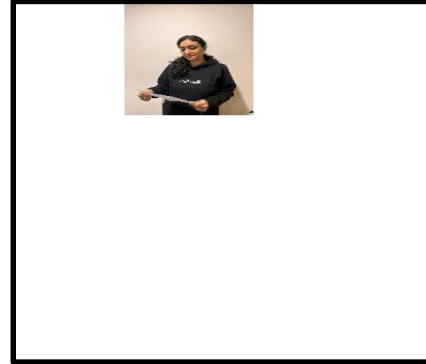
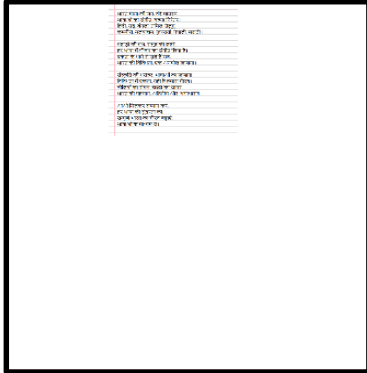
ORGANIZED BY: Department of Students Welfare, Manav Rachna University

Bharatiya Bhasha Diwas, observed on **11th December 2024**, was celebrated with an inspiring **Poetry Writing Competition** at Manav Rachna University. Organized by the **Department of Students Welfare**, the event aimed to honor the theme "*Indian Languages – Unity in Diversity*" and showcase the beauty and significance of Indian languages through the creative medium of poetry.

The competition witnessed enthusiastic participation from both students and faculty members. Around **7-8 faculty members** and a large number of students presented their poetic compositions, weaving verses that highlighted the cultural richness, diversity, and unifying essence of Indian languages. From heartfelt reflections on Hindi to creative explorations of regional languages, the participants brought forth their originality and artistic expression with remarkable zeal.

Faculty members, through their profound literary works, set an inspiring precedent, while students expressed their creativity, passion, and reverence for linguistic heritage. The poems celebrated Indian

languages not just as a means of communication but as symbols of national pride, unity, and cultural identity.



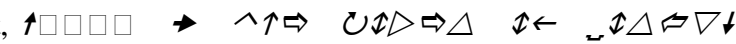
51.Event Name: Vani Fest

Name of Event: Vani – A Literary Festival

Date: 10th January 2025

Venue: Constitution Club of India, New Delhi

Organized by: Karma Foundation and Manav Rachna University

The Karma Foundation, in collaboration with Manav Rachna University, organized a spectacular cultural event, , on 10th January 2025 at the Constitution Club of India, New Delhi. A highlight of the event was a mesmerizing fusion dance performance presented by nine talented participants, which beautifully combined the vibrant traditions of Rajasthani and Punjabi cultures.

The program began with an introduction that emphasized the shared values and distinct features of both cultural heritages. The first segment showcased Rajasthani folk dances like *Kalbelia* and *Ghoomar*, where performers in traditional attire displayed elegance and grace, accompanied by the rhythmic beats of nagada and dhol. The performance then transitioned into a fusion sequence, blending Rajasthani melodies with Punjabi rhythms, symbolizing unity through art.



52.Event Name: Lohri and Pongal Celebration

Name of Event: Lohri and Pongal Celebration

Date: 13th January 2025

Venue: B Block Amphitheatre, MRU

Festivals have always been an integral part of Indian culture, bringing people together to share joy, cherish traditions, and celebrate the richness of heritage. On 13th January 2025, Manav Rachna University marked the spirit of two vibrant festivals, Lohri and Pongal, with a lively celebration organized by the Department of Student Welfare (DSW).

The B Block Amphitheatre was transformed into a hub of festivity, echoing with the sounds of folk music, rhythmic beats of dhol, and the laughter of students immersed in the celebrations. Students were welcomed to participate actively, enjoying a perfect blend of culture, tradition, and entertainment.

The event commenced at 1 PM, with the amphitheatre buzzing with energy and enthusiasm. The Lohri celebrations, rooted in Northern Indian traditions, featured vibrant folk dances, traditional songs, and festive rituals that radiated warmth and togetherness. Simultaneously, the essence of Pongal, a festival celebrated in the southern part of India, was brought to life with cultural performances, traditional displays, and unique regional practices, offering a rich experience of South Indian heritage.



53.Event Name: Smart Investor Awareness Program

Name of Event: Smart Investor Awareness Program

Date: 16th January 2025

Time: 2:00 PM onwards

Venue: LF10

The **Smart Investor Awareness Program**, organized in collaboration with **SEBI**, was successfully conducted on **16th January 2025** in **KF10**, drawing an enthusiastic participation of **71 students** eager to enhance their financial literacy and gain insights into smart financial management. The session began with a detailed discussion on **fiat currencies**, their significance in modern economies, and the challenges associated with inflation and dependency on economic trust. The discussion emphasized how inflation affects purchasing power and why understanding economic stability tools is crucial for financial planning. Participants were introduced to the **role of central banks** in managing inflation, deflation, and economic recessions, highlighting how monetary policies influence economic growth and financial stability.



54.Event Name: Code in Dark

Name of Event: Code In Dark

Date: 16th January 2025

Time: 10:00 AM onwards

Venue: IT03

Code in the Dark, an electrifying coding competition organized by **TechSoul**, the technical society of Manav Rachna University, was successfully held on **16th January 2025**. The event provided participants a unique platform to showcase their creativity, technical expertise, and problem-solving abilities under an intense and challenging format.

What made the event distinctive was the "**blind coding**" setup. Participants were tasked with recreating a complex web design using **HTML, CSS, and optionally JavaScript**, without being able to preview their work until the final submission. This high-pressure format tested not only technical skills but also participants' ability to **visualize, strategize, and execute** under time constraints.



55. Event Name: ROAD SAFETY AWARENESS

Name of Event: Road Safety Awareness

Date: 17th January 2025

Venue: Outside the Campus

Organized By: Forest Rhinos

Road safety awareness is an initiative aimed at educating individuals about the importance of following traffic rules and adopting safe practices to prevent accidents and save lives. It emphasizes responsible road behavior, such as wearing helmets, using seat belts, adhering to speed limits, and being mindful of pedestrians. By spreading awareness, we can create a safer environment for everyone on the roads.

The event was conducted, starting with a gathering of students, college faculty, and traffic police personnel. The traffic police demonstrated essential traffic rules, including regulations, speed limits, and the importance of reflective red and yellow patches on vehicles, helmets, and autos to ensure visibility at night.



56.Event Name: BOLLYWOOD BRAINIAC QUIZ

Name of Event: Bollywood Brainiac - Bollywood Themed Quiz

Date: 23 Jan 2025

Venue: IT-09

Organised By: Clan Wild Cats

Clan Wild Cats of Manav Rachna University hosted the Bollywood Brainiac Quiz on January 30, 2025, providing an exciting platform for students to showcase their knowledge of Bollywood while blending entertainment with a competitive spirit. Held at IT-09, the quiz commenced at 2 PM, drawing 78 enthusiastic participants from various disciplines, all eager to test their expertise in Indian cinema.

Featuring 20 questions covering Bollywood history, iconic dialogues, songs, and behind-the-scenes trivia, the quiz created an electrifying atmosphere as participants raced against time to answer challenging questions. Each round was designed not only to test memory but also analytical skills, making the competition both thrilling and intellectually stimulating.

The results were displayed on the scoreboard of the quiz app, ensuring fair play and smooth execution. After an intense and closely contested battle, the top three scorers were Kritika, Kirti, and Anshika.



57.Event Name: International Girl Child Day

Name of Event: International Girl Child Day

Date: 23rd January 2025

Venue: MS Public School, Anangpur

Manav Rachna University (MRU) organized a profoundly impactful event at MS Public School, Anangpur, to celebrate *International Girl Child Day*. The program revolved around self-reflection, empowerment, and collaboration, engaging participants in thoughtfully designed activities that promoted personal growth, empathy, and teamwork.

The event began with the “Chain of Kindness”, which encouraged spreading positivity and gratitude, followed by the “Handprint” activity symbolizing individuality and collective strength. A major highlight was the Empowerment & Self-Reflection Workshop, featuring activities like “Yes I Can”, aimed at boosting confidence through personal achievements, and “Clap for Your Dreams”, which inspired participants to share their aspirations. The “Value Circle” further provided a platform for open discussions on core values, fostering mutual respect and emotional connection.



58.Event Name: Meet and Greet

Name of Event: Meet and Greet the cyclist Mahesh Kumar

Date: 28th January 2025

Venue: Central ground Manav Rachna Campus

Manav Rachna University hosted an inspiring awareness session with **Mahesh Kumar**, a 28-year-old cyclist from Rewari, who is on an international cycling mission to promote **organ donation** and global brotherhood. The event aimed to sensitize students about the growing issue of deaths caused by organ failures and the urgent need for timely transplants.

Mahesh Kumar shared details of his mission to cycle across **14 countries in 7 months**, covering India, Bhutan, Nepal, Vietnam, the Philippines, Laos, Indonesia, Cambodia, China, Singapore, Taiwan, Malaysia, and Hong Kong. He narrated his previous tours, the challenges he faced, and his vision to raise awareness about this crucial social cause.

During the interaction, Mahesh took a round of the university ground with students and faculty members, where they engaged in lively conversations and captured the moments through photographs. The teachers blessed him for his noble endeavor, while students expressed deep admiration for his determination and courage.





59.Event Name: Martyr's Day

Name of Event: Martyr's Day Commemoration

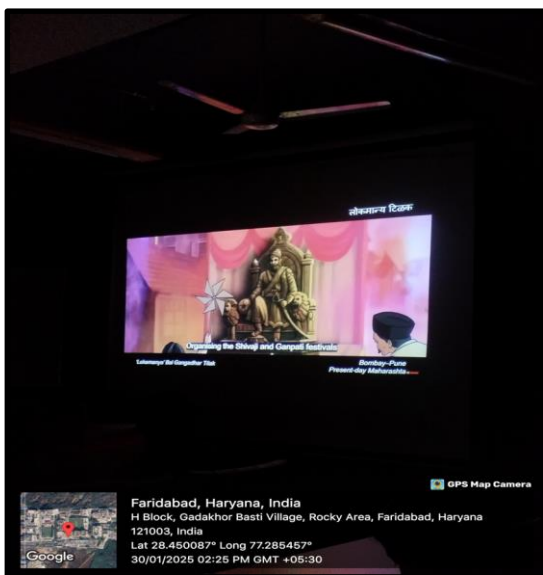
Date: 30th January 2025

Time: 1:50 pm Onwards

Venue: University Campus

On 30th January 2025, Manav Rachna University's Clan Water Sharks organized a solemn Martyr's Day Commemoration to honor the sacrifices of those who laid down their lives for the nation. The event began with a heartfelt welcome by the co-coordinator, who addressed the attendees with words of peace, solidarity, and respect, setting an inspiring and reflective tone. The speech emphasized the duty of every citizen to preserve the memory of the martyrs and honor their courage.

The event featured the screening of the documentary *Azadi*, which highlighted key milestones in India's struggle for independence, including the 1857 Revolt, Rani Lakshmi Bai's resistance, Subhash Chandra Bose's call to action, and Mahatma Gandhi's non-violent movements. The documentary effectively showcased the bravery, sacrifices, and challenges faced by freedom fighters, leaving a profound impact on the audience by emphasizing that true freedom encompasses justice, equality, and opportunity for all.



60.Event Name: Vasant Panchami

Name of Event: Kite Flying Celebration

Date: 1st February 2025

Time: 2:00 PM onwards

Venue: I-Block Parking Area

Near Football Ground

In front of G Block

In front of N Block

The Student Welfare Department, Manav Rachna University, successfully organized a Kite Flying Celebration on Basant Panchami on 1st February 2025. The event took place at multiple venues including the I-Block Parking Area, Near Football Ground, in front of G Block, and in front of N Block. Students and faculty enthusiastically participated, filling the campus with vibrant kites and a festive atmosphere.

The event officially commenced at 2:00 PM with an engaging performance by the university's cultural society, setting a lively tone for the celebrations. The musical beats were managed by the event DJ, who kept the energy levels high throughout the event. The discipline and smooth execution of the event were ensured by the discipline management team, along with additional members who assisted in crowd management and safety measures.



61.Event Name: Book Donation Drive

Name of Event: Book Donation Drive

Date: 4th February 2025 – 14th February 2025

Drop-off Location: KS-07

The Student Welfare Department, Manav Rachna University, successfully organized a Book Donation Drive to support the establishment of a new community library in a village. This initiative aimed to bridge the educational gap by providing access to quality reading materials in rural areas where such resources are scarce. The drive, held at KS-07, saw overwhelming participation from students and faculty members who came forward to contribute books and promote literacy.

The enthusiasm was evident as donors arrived with books ranging from competitive exam books, storybooks, magazines, and encyclopedias, eager to make a meaningful impact. The initiative was more than just a donation drive; it was a movement toward fostering a culture of education, empowerment, and knowledge-sharing. The event, spanning from 4th February to 14th February 2025, became a platform for students and faculty to unite for a noble cause, symbolizing collective responsibility toward education for all.



62.Event Name: Moksh Auditions 2.0

Name of Event: Moksh Auditions 2.0

Date: 6th February 2025

Time: 2:00 P.M.

Venue: DSW Room (NG02)

The Moksh Society of Manav Rachna University successfully conducted its second round of auditions on 6th February 2025 in the DSW Room (NG02). The event witnessed enthusiastic participation from students across various departments, all eager to impress the panel of judges with their vocal, instrumental, and creative abilities. The vibrant ambiance, filled with melodious tunes and rhythmic beats, created an engaging atmosphere for a day of musical discovery.

The auditions featured four interactive booths that enhanced the overall experience. The Acoustic Beats booth allowed participants to warm up and fine-tune their instruments. The Sing Along booth provided vocalists an opportunity to showcase their singing skills through karaoke. The Jam Session booth encouraged spontaneous collaborations, while the Creative Corner booth offered a space for attendees to write and share original lyrics.



63.Event Name: Meme and Reel Challenge

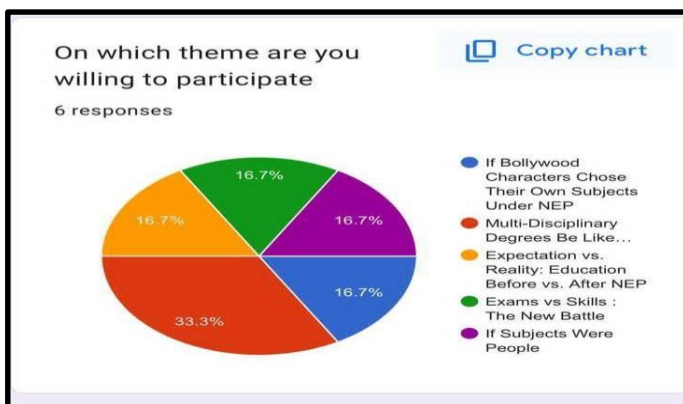
Event Name: Meme and Reel Challenge

Date: 6th February 2025 – 11th February 2025

Time for Last Submission: 4:00 PM (11th February 2025)

Venue: Online Submission

Manav Rachna University, through the Karisma Society, successfully organized an engaging **Meme and Reel Challenge** from 6th to 11th February 2025. The event aimed to foster creativity and digital engagement among students, encouraging them to express their perspectives on the **National Education Policy (NEP)** and various aspects of education. The challenge was open to all students, who submitted their entries via an online platform by the designated deadline. Participants created content reflecting imaginative themes, such as Bollywood characters choosing their own subjects under NEP, multi-disciplinary degrees combining random fields like Engineering, Dance, and Psychology, expectation versus reality in education before and after NEP, subjects personified as different personalities, and the contrast between examinations and real-world skills.



Name

6 responses

Preeti duaa
Anushka Srivastava
Kritika
Shubhi
Sana Ghosh Chowdhury
Bhumika

64.Event Name: Kaushal Initiative

Event Name: Kaushal Initiative – Skill Development Program

Venue: MRIS CW & Manav Rachna University (Final Exam)

Date: 2nd February, 2025

Organized By: Dr. O P Bhalla Foundation

Kaushal Karyashala proved to be a highly successful and impactful initiative, leaving a lasting impression on the students of GSSS Lakkarpur. Organized by the Dr. O P Bhalla Foundation, the program successfully completed four batches, each comprising 50 enthusiastic students eager to learn and grow.

Conducted at MRIS Charmwood, the training sessions provided students from Grades 9 to 12 with hands-on exposure to computers, many for the first time. The program began with the basics— understanding computer hardware and software, operating a mouse, and gradually advancing to essential digital skills, including Microsoft Office, internet usage, email writing, and computer hardware fundamentals. By the end of the program, students were equipped with the knowledge required for entry-level roles such as data entry operators, marking a significant step toward future career opportunities.

The final session, held at Manav Rachna University, included a practical examination where students confidently demonstrated their newly acquired skills. The success of the program was made possible by the dedication of the teachers at MRIS CW and the seamless coordination of MRU, ensuring a smooth and impactful learning experience.



65.Event Name: Roses and Rhythm

Name of Event: Roses and Rhythm

Date: 13th February 2025

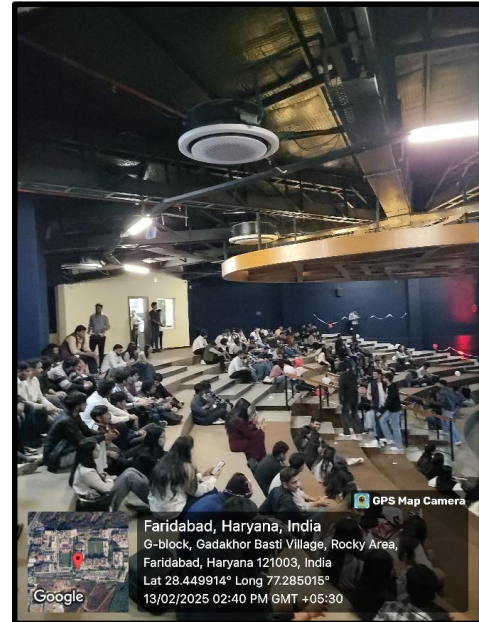
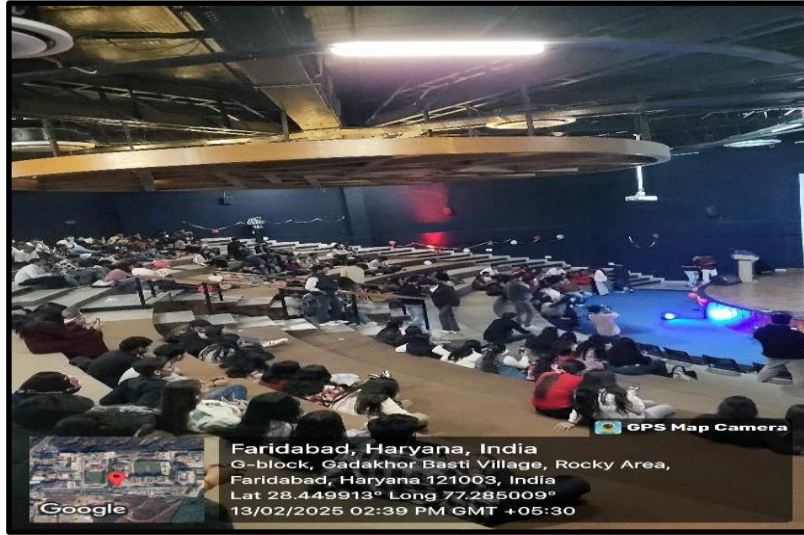
Time: 2:00 P.M. (Clan Time)

Venue: G Block (Mandala)

Moksh and Forest Rhinos successfully organized Roses and Rhythm, a vibrant Valentine's Day celebration, at G Block Mandala, Manav Rachna University. The event brought together students and faculty to enjoy a captivating blend of live music and dance. Moksh's talented singers enthralled the audience, while Rudra's expressive dance performances added to the enchanting atmosphere.

The event officially commenced at 2:00 PM (Clan Time), attracting an excited crowd eager to immerse themselves in the rhythm and energy of the celebration. The overwhelming response, with a total of 323 registrations, reflected the enthusiasm and anticipation surrounding the event. The lively ambiance, combined with the attendees' excitement, created an unforgettable experience.

Forest Rhinos played a pivotal role in ensuring the smooth execution of the event by managing logistics, coordination, and technical support. Their dedicated efforts allowed the performers to take center stage and deliver a flawless show, while ensuring a safe and enjoyable experience for all attendees.



66.Event Name: Vivrti 2K25

Name of Event: Vivrti 2k25 – Western Dance Competition

Date: 14th Feb 2025

Time: 10:30 AM (Departure from University)

4:30 PM – 6:30 PM (Event)

Venue: Aravali College of Engineering and Management

Manav Rachna University received an official invitation from Aravali College of Engineering and Management to participate in their annual fest, Vivrti 2K25, held on 14th February 2025 from 10:30 AM to 6:30 PM. This prestigious festival offered a vibrant platform for students from various institutions to showcase their talents across cultural and technical domains. The event included music, drama, dance, and technical exhibitions, providing opportunities for creative expression and skill development.

Our esteemed dance team, Rudra, represented Manav Rachna University in the Western Dance Group Competition. The team prepared meticulously for the event, integrating contemporary techniques with Western dance styles to deliver a high-energy, visually captivating performance. Members underwent rigorous training sessions to ensure precise coordination, synchronized movements, and compelling storytelling through dance.



67.Event Name: Book Donation Drive

Event Name: Moksh Society Performance – Genesis Fest

Date: 19th February 2025

Time: 9:00 AM

Venue: SGT University, Gurgaon

Moksh Society, Manav Rachna University, delivered a mesmerizing performance at Genesis Fest, hosted by SGT University, Gurgaon. The event witnessed an enthusiastic response, with music lovers gathering to experience the band's electrifying stage presence. Known for bringing together some of the finest musical talents from various universities, the festival provided an ideal platform for Moksh to showcase their passion, skill, and energy.

The band's performance featured a dynamic setlist, ranging from soulful melodies to high-energy rock numbers, captivating the audience throughout. Each song resonated deeply with the crowd, creating an immersive musical experience that kept attendees engaged and energized. The band's seamless coordination and commanding stage presence demonstrated their dedication to music and their ability to connect with listeners.



68.Event Name: Khalbali at SGT University

Name of the Event: Tamasha – Nukkad Natak on Organ Donation at SGT University

Date: 19th February 2025

Time: 8:00 AM onwards

Venue: SGT University

On 19th February 2025, the Khalbali Dramatics Society from Manav Rachna University participated in Tamasha – Nukkad Natak, an event that brought together dramatics teams from various universities to express social issues through street theatre. Hosted by SGT University, the event provided a platform for young artists to showcase their creativity while raising awareness on relevant social topics.

The theme chosen by Khalbali Dramatics Society was organ donation, a crucial yet often overlooked subject. The team aimed to spread awareness about the significance of organ donation, dispel myths, and encourage individuals to consider it as a life-saving decision. The team's powerful dialogue delivery and synchronized movements effectively conveyed the emotional depth of the topic. Satirical elements and light humor were used to make the subject relatable, eliciting laughter while emphasizing the importance of the message. One of the standout moments depicted common myths and misconceptions about organ donation in an exaggerated yet informative manner, ensuring that the audience understood the key points while being entertained.



69.Event Name: Beat the Battle

Name of the Event: Beat the Battle – The Ultimate Dance Showdown

Date: 27th February 2025

Time: 1:50 PM – 3:30 PM

Venue: Manch Stage, T Block

The Clan Wild Cats, in collaboration with Rudra Dance Society, organized Beat the Battle, a thrilling dance competition under the Student Welfare initiative of Manav Rachna University. The event took place at the Manch Stage near T Block, creating a vibrant atmosphere for both participants and the audience. The stage was set, the energy was electric, and anticipation ran high for this intense dance showdown.

The competition brought together some of the most passionate and talented dancers, all vying for the title of the ultimate dance champion. The event comprised three exciting rounds designed to test creativity, adaptability, and performance under pressure. The first round featured freestyle performances, allowing dancers to showcase their unique styles. The second round, the chit challenge, required participants to perform based on a randomly assigned theme and dance form. The final round was an intense dance face-off, in which participants improvised on randomly selected songs. At the conclusion of the competition, Manikanta emerged as the winner, Sneha Kumari was the runner-up, and Ayushi Sharma won the Audience Favorite Award.



70.Event Name: Pitch Rush

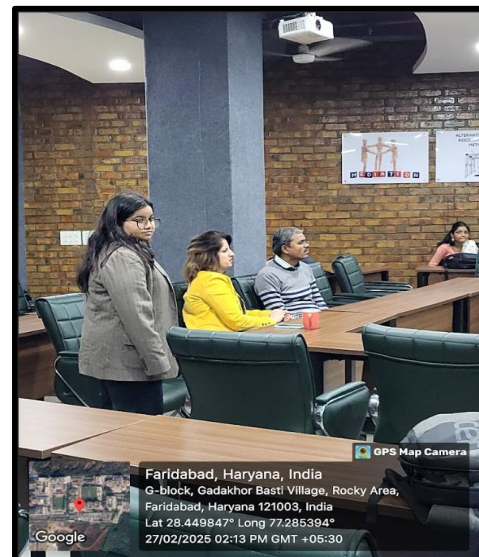
Name of the Event: Pitch Rush

Date: 27th February 2025

Time: 2:00 – 3:30 PM

The competition was open to all students of Manav Rachna University, providing an engaging platform to showcase creativity, quick thinking, and effective presentation skills. Participants had the opportunity to present their innovative ideas before a panel of expert judges, who evaluated them based on confidence, body language, clarity of communication, and overall delivery.

The event featured two main formats. The Themed Pitch Round was conducted first, where participants had 60 seconds to pitch their startup ideas in a structured and persuasive manner. This was followed by the Random Object Pitch, a challenging round in which participants were given a random object and had only 30 seconds to convincingly market it, testing their improvisational and persuasive skills under pressure.



71.Event Name: Holi Haat

Name of the Event: Holi Haat

Date: 12th March 2025

Time: All day

Venue: Central Lawn

Manav Rachna University successfully organized the Holi Haat event on 12th March 2025, bringing together students, faculty, and visitors to celebrate the vibrant spirit of Holi in a joyful and eco-friendly manner. The event featured a variety of stalls offering delicious food items and unique products, creating a lively marketplace where attendees could explore different flavors and crafts. This initiative also promoted student and local entrepreneurship while providing a festive shopping experience.

A major highlight of the event was the spectacular performances by the cultural groups Moksh and Rudra. Their energetic dance and musical acts captivated the audience, who enthusiastically cheered and participated, adding to the excitement and festive spirit of the day. The event lasted throughout the day, with attendees actively engaging in various activities, making purchases, and enjoying the vibrant atmosphere.



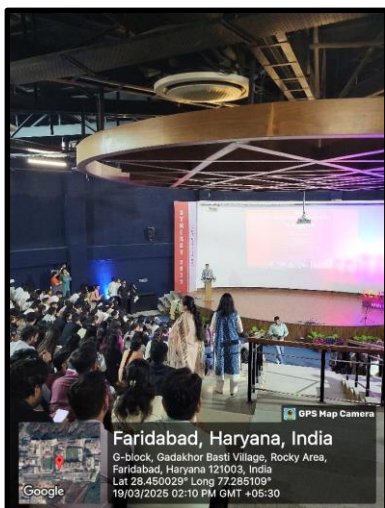
72.Event Name: NPS Program

Name of the Event: NPS Program

Date: 19th March 2025

Venue: G-Block Mandala

The NPS Program Event commenced with a warm and enthusiastic welcome, setting the tone for an insightful and engaging session. The event brought together students, faculty, and esteemed dignitaries to emphasize the significance of student feedback in shaping the university's academic and administrative framework. The Vice-Chancellor (VC) addressed the gathering, highlighting the institution's commitment to fostering an environment where student voices are valued and acted upon. He stressed the importance of open communication between students and the administration to ensure continuous improvement. Following him, the Pro-Vice-Chancellor (Pro VC) further elaborated on how the Net Promoter Score (NPS) initiative would serve as a structured tool to measure student satisfaction, analyze feedback, and implement necessary changes for institutional growth. The Dean and Dean Academics then took the stage, reinforcing the university's dedication to enhancing the overall student experience through innovative academic strategies and administrative policies. Their insights provided a deeper understanding of how NPS would act as a bridge between students and decision-makers, ensuring that every voice contributes to meaningful improvements.





73.Event Name: Mythoverse

Name of Event: Mythoverse

Date: 20th March, 2025

Time: 1:50 P.M.(Clan Time)

Venue: HF03

The Forest Rhinos Clan of Manav Rachna University successfully organized *Mythoverse*, an intellectually stimulating quiz competition based on the great Indian epics *Ramayana* and *Mahabharata*. The event, held at HF03 on campus, commenced at 2:00 PM (Clan Time) and attracted 30 enthusiastic registrations from students eager to showcase their knowledge of mythology and its timeless teachings.

The quiz was conducted in three progressive rounds, beginning with a team round that tested the participants' fundamental knowledge and teamwork skills. The best-performing teams advanced to the second round, which featured more challenging and thought-provoking questions requiring deeper understanding and quick responses. The competition reached its peak in the final round, where the top

teams engaged in an intense battle of wits, demonstrating their expertise and critical insights into the epics.



74.INNOVATION & INCUBATION CENTRE

HackItUp 1.0

Manav Rachna School of Data and Computing (MRSDC) organized *HackItUp 1.0*, a 12-hour hackathon designed to ignite innovation and problem-solving among budding technologists. The event witnessed enthusiastic participation from multiple teams across disciplines, showcasing creativity and technical expertise in diverse domains.

Among the standout performers, **Team Shinchan** secured the **3rd Prize** □ for their remarkable project titled *Crop Prediction Management*. The project aimed to revolutionize the agricultural landscape through the integration of data analytics and predictive modeling. *Crop Prediction Management* leverages advanced algorithms to forecast crop yields, enabling farmers to make informed decisions for efficient and sustainable farming. The solution underscores the role of technology in strengthening the agri-tech ecosystem by promoting data-driven agricultural practices.

The team comprised **Harsh Bhardwaj (2nd Year, CSE 4A)** as Team Leader, along with **Swayam Arora (2nd Year, CSE 4A)**, **Chhaya Sharma (1st Year, CSE 2C)**, and **Khushboo Mehta (1st Year, CSE 2C)**. The competition commenced with an online idea submission phase, followed by an intense 12-hour in-person hackathon where participants transformed their concepts into working prototypes. Team Shinchan's innovative approach, teamwork, and problem-solving capabilities impressed the judges, earning them the 3rd position among several competitive entries.

The achievement of Team Shinchan reflects their dedication, creativity, and strong coding acumen. Their success highlights the value of collaboration and innovation nurtured within the Manav Rachna ecosystem. The project holds promising potential for further development and real-world implementation in the field of smart agriculture.

Team Shinchan's accomplishment at HackItUp 1.0 demonstrates how young technologists can contribute meaningfully to solving real-world challenges. Their *Crop Prediction Management* solution stands as a testament to the university's commitment to fostering innovation, interdisciplinary learning, and societal impact through technology.



75.SAE BAJA 2024

Report on ATVC

Under MRU-IIC a team of nine students from a university participated in the Aravalli Terrain Vehicle Championship (ATVC) from 1st March to 5th March 2024. The team designed and fabricated a vehicle in the Fabrication Centre, which was funded with Rs. 5,70,000 from the university. The team was led by Mr. Mohit Sanju and Mr. Rajveer Singh Bedi, under the guidance of Dr. J P Sharma and Dr. Prashant Bhardwaj.

The team designed and fabricated a rugged off-road vehicle that was capable of navigating rough terrain. The vehicle was designed to be lightweight yet durable, with a powerful engine and high ground clearance. The team utilized the latest CAD/CAM software to design the vehicle and utilized various fabrication techniques to build the chassis, suspension, and other components. The team also designed and fabricated the steering, braking, and other systems, ensuring that they were safe and reliable.

The team extensively tested the vehicle in various conditions to ensure that it was capable of handling any challenge that came its way. The team tested the vehicle's acceleration, braking, steering, and suspension, making adjustments and improvements where necessary. The team also tested the vehicle's stability and safety, ensuring that it was safe for the driver and passengers.

The team participated in the Aravalli Terrain Vehicle Championship, where they competed against other teams from different universities. The competition was held over five days, with various events such as acceleration, endurance, and maneuverability. The team performed well in all the events, demonstrating the vehicle's capabilities and the team's skills. Team acquire 9th position in the initial round at National Level hosted by Nutan Maharashtra Institute of Engineering and Technology, Talegoan and Orison Education India Ltd. This is a National Level Education and Innovation Festival to promote Skill India, Startup India, Go Green and Make In India. In this event, more than 100 teams participated with over 3500 participants with an ensemble of engineering undergraduates and diploma holders from various recognized institutes.

Overall, the team of nine students from the university performed exceptionally well in the Aravalli Terrain Vehicle Championship. The vehicle designed and fabricated by the team was rugged, reliable,

and capable of navigating rough terrain. The team's performance in the competition demonstrated their skills and expertise in design, fabrication, and testing. The team's mentors, Dr. J P Sharma and Dr. Prashant Bhardwaj, provided valuable guidance and support throughout the project, ensuring that the team was successful in their endeavor.



76. Innovathon 2023

A team of students from the **Department of Computer Science and Technology (DoCST)**, Manav Rachna University, participated in **Innovathon 2023** organized by **Amity University, Gurugram** on **2nd–3rd November 2023**. The team, comprising **Tejas Singh, Vansh Aggarwal, Ayush Sachdeva, and Kartik Dargan**, secured the **2nd position** in this prestigious innovation competition. The team worked under the mentorship of **Dr. Parneeta Dhaliwal**, Department of Computer Science and Technology.

The students presented their project titled **“Revolutionising Waste Segregation using Deep Learning and Robotic Arm”**, which integrates artificial intelligence and robotics to automate the waste segregation process.

The project was highly appreciated for its **technical innovation, real-world applicability, and societal impact**, earning the team a **cash prize of INR 50,000**. Innovathon 2023 provided a platform for young innovators to present creative solutions to pressing global issues through technology-driven ideas.

The success of the team reflects the strong culture of innovation and experiential learning fostered by the **Institution’s Innovation Council (IIC)** at Manav Rachna University. The university continues to encourage students to explore interdisciplinary technologies that contribute to sustainable and inclusive growth.



76.1 Innovathon'23 (Different team as per above details)

A team of students from the Department of Computer Science and Technology (DoCST), Manav Rachna University, participated in the Innovathon'23 Hackathon held at Amity University, Gurugram on 2nd–3rd November 2023. The team, comprising Tejwant Singh, Shreya Marwaha, and Sneha Kumari, represented the Institution's Innovation Council (IIC) of the university and secured a place among the Top 10 teams out of a total of 97 participating teams from across the country.

The team presented an impactful project titled “Empowering Sustainable Practices: A Comprehensive Platform for Carbon Footprint Reduction and Eco-Mentorship.” The project aimed to promote environmental sustainability by offering users personalized tools to monitor, reduce, and offset their carbon footprint. Additionally, the platform connects individuals with sustainability experts and eco-mentors, fostering community-driven green initiatives and responsible practices.

Participation in Innovathon'23 provided the students with an opportunity to collaborate, ideate, and showcase their innovative ideas before industry experts and academic mentors. Their selection among the top-performing teams reflects the university's focus on nurturing innovation, sustainability, and experiential learning under the IIC framework.

