

Manav Rachna University

Minutes of the First Quarterly Meeting of the Internal Quality Assurance Cell (IQAC)

For the Academic Session 2023-24
Dated 12.09.2023



Manav Rachna University Proceedings

1st Quarterly Meeting of IQAC for the AY 2023-24

The First Quarterly meeting of the Internal Quality Assurance Cell (IQAC) for the AY 2023-24 was held on 12.09.2023 (Tuesday) at 11:00 A.M. in CADR, G, Block under the chairmanship of Hon'ble Vice Chancellor in hybrid mode.

The following members were present

- 1) Prof. I. K. Bhat, Hon'ble Vice Chancellor
- 2) Prof. Kameshwar Singh, Registrar
- 3) Prof. Sangita Banga, Pro Vice Chancellor
- 4) Mr. Atul Kalra, Director General Manager Administration, MREI
- 5) Ms. Shivali, DAV School, Sector-14, Faridabad
- 6) Ms. Khushi Arora, B.Tech. CSE (Batch2020-24)
- 7) Ms. Shatakshi, B.Ed. (Batch 2020-22)
- 8) Prof. Shruti Vashist, Dean Academics
- 9) Prof. Pradeep Kumar Varshney, Dean Research & Sciences
- Prof. Goldie Gabrani, Dean Engineering
- 11) Prof. Parul Jhajharia, Dean Management and Commerce
- 12) Prof. Kanu Priya, Dean Law
- 13) Prof. D.K. Sharma, Dean Examination
- 14) Prof. Manpreet Kaur, HoD Computer Science & Technology
- 15) Prof. Joginder Singh, HoD Mechanical Engineering
- 16) Dr. Sandeep Kumar, HoD Sciences
- 17) Dr. Rashee Singh, HoD Education & Humanities
- 18) Dr. Charu Pathak, HoD Electronics & Communication Engineering
- 19) Dr. Deepa Arora, Associate Professor & Associate Director IQAC
- 20) Ms. Vandana Zutshi Bhat, Assistant Professor, Management & Commerce
- 21) Dr. Savita Sharma, Assistant Professor, Education & Humanities
- 22) Mr. Manoj Kumar, Assistant Professor, Computer Science & Technology
- 23) Mr. Piyush Mahendru, Assistant Professor, Mechanical Engineering (Special invitee)
- 24) Dr. Niharika Thakur, Associate Professor, Electronics & Communication Engineering (Special Invitee)
- 25) Dr. Ankita Gaur, Assistant Professor, Sciences (Special invitee)
- 26) Dr. Urmila Pilania, Associate Professor, Computer Science&Technology(Special invitee)
- 27) Ms. Rakhi Pruthi, General Manager, CRC(Special invitee)
- 28) Prof. Tanushree Purohit, Professor & HoD Management & Commerce (Special invitee)
- 29) Dr. Kaveri Sharma, Associate Professor, Law (Special invitee)
- 30) Dr. Mamta Arora, Associate Professor, Computer Science & Technology(Special invitee)
- 31) Dr. Rashi Banerjee, Assistant Professor, Management & Commerce (Special invitee)
- 32) Ms. Shefali Chopra, Deputy Registrar Academics (Special invitee)
- 33) Prof. Parneeta Dhaliwal, Director Innovation & Incubation Cell

The following members could not attend the meeting

- 1) Dr. Krishan Kant, Principal, Aggarwal College, Tigaon Road
- 2) Mr. Ajay Kabra, Senior Director, Global Business Excellence, Xebia, Gurugram
- 3) Prof. Geeta Thakur, Dean Students & Welfare



Opening remarks by the Chairman

Hon'ble VC Sir Prof. (Dr.) I.K. Bhat extended a warm welcome to all the members and shared the objective of IQAC during his opening address. He stressed the importance of organizing review and brainstorming sessions that engage the entire faculty as a unified effort essential to monitor the progress in preparation for the accreditation assessments. Hon'ble VC Sir further highlighted the significance of integrating environmental and sustainability initiatives into the academic framework. He pointed out the need of implementing additional measures to elevate and encourage research activities within the institution. This aligns with the objectives outlined in the National Education Policy (NEP) and the National Credit Framework, which emphasize the importance of motivating and actively involving students in research work.

Agenda Items for the meeting are presented as below:

Agenda Item No. 1 - Status Update on the ongoing Accreditation Process

To update the current status of the ongoing accreditation process by NAAC and NBA.

The IQAC members were briefed on the progress of the ongoing accreditations, specifically with NAAC & NBA. It was informed that the university submitted it's Institutional Information for Quality Assessment (IIQA) application form on 20th January 2023 followed by successful submission of Self Study Report (SSR) on 5th April 2023. As a part of DVV process, the university responded to 26 queries on 7th May 2023 and is waiting for the final communication regarding DVV and PTV.

Further, it was shared that the Department of Computer Science & Technology has applied for NBA accreditation. Following the initial registration on January 16, 2023, the pre-qualifier submission followed on 19th January 2023. A significant milestone was reached on 30th March 2023, with the submission of the comprehensive Self-Assessment Report (SAR). The dates that have been proposed for the visit are 29th Sept to 1st October 2023.

The matter was taken on records by the IQAC members.

Agenda Item No. 2 - Academic Progress and Enhancement

To update the status of curriculum design & development during the AY 2022-23 with respect to:

Introduction of New Programs and their Alignment with Industry Trends

Dean Academics presented the list of new programs commencing from the AY 2022-23.

She emphasised the significance of the new programs - MBA Business Analytics, B.Tech. Robotics and Al and LL.B. programs.

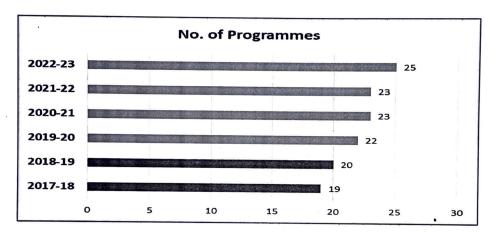
The programs like MBA Business Analytic and B.Tech. Robotics & AI seek to provide graduates with competence in high-demand sectors in an age of rapid technological innovation and data-driven decision-making. These programs also encourage collaboration between technology and business. Furthermore, these programs train students for future labor market dynamics, allowing them to be adaptive and competitive in rapidly changing industries.

MBA Business Analytics is in association with the Institute of Analytics (IoA), UK, a leading professional body for Analytics and Data Science professionals where students are being trained and groomed by professionals.

LLB course is demanded by law aspirants who are already a graduate and want to pursue law as a career. LLB degree offers numerous career benefits and exceptional opportunities in the legal field. Graduates can explore diverse career paths in law firms, corporate legal departments, government agencies, and international organizations. The degree also opens doors to legal journalism, research, and academia.

Meana Kapali

S. No.	Academic	No. of		New Programs introduced	Programs
3. NO.	Year	Programs	No.	Name	Discontinued
1	2022-23	25	03	LL.B. MBA (Business Analytics) B.Tech. Robotics & Al	B.Com. LL.B. (Hons.)
2 .	2021-22	23	NIL		NIL
3	2020-21	23	01	B.Ed. Spl. Ed. (Learning Disability)	NIL
4	2019-20	22	02	LL.M LL.M (2 - Year Part Time)	NIL
5	2018-19	20	1	B.Tech. Electronics & Computer Engineering	NIL
6	2017-18	19	6	B.Ed., B.A. B.Ed., B.Sc. B.Ed., BBA LL.B. (Hons.) B.Com. LL.B. (Hons.), BA LL.B. (Hons.)	B.Tech. ECE



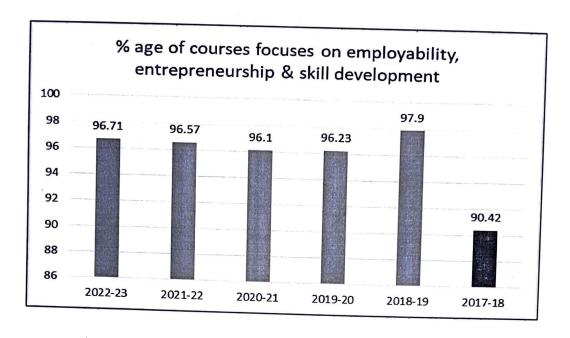
The IQAC members took a record of the same.

• Courses Focused on Employability, Entrepreneurship, and Skill Enhancement

Dean academics informed the members about the courses that are meticulously tailored to address the evolving demands of the workforce and equip individuals with the knowledge and skills to excel in the job market, start their own businesses, or enhance their existing careers in the University's curriculum. She reported that in the Academic Year 2022-23, 96.7% of the courses offered are dedicated to enhancing employability, entrepreneurship, and essential skills.

S. No.	Academic Year	No. of Courses Focussing on Employability, Entrepreneurship & Skill Development	Total No. of Courses Offered	% age of Courses Focussing on Employability, Entrepreneurship & Skill Development
. 1	2022-23	1002	1036	96.71
2	2021-22	958	992	96.57
3	2020-21	913	950	96.10
4	2019-20	819	851	96.23
5	2018-19	748	764	97.90
6	2017-18	529	585	90.42





The IQAC members took a note of the mentioned information, and they emphasized the need for more substantial and regular monitoring of the academic quality, particularly in relation to the imparting of industry-relevant skills to the students.

Value-added Courses (VAC) Offered

It was informed that a total of 35 Value-added Courses (VAC) were offered in the AY 2022-23, and that 98.7% of the enrolled students successfully completed these courses [Annexure-2.1]. Out of 35, 17 are new VAC.

S.N o.	Academic Year	Total No. of VAC offered	No. of new VAC introduced	% age of students enrolled	% of students completed
1	2022-23	35	17	58.91	98.71
2	2021-22	36	30	70.8	95.97
3	2020-21	18	16	56.39	97.58
4	2019-20	23	21	76.04	97.43
5	2018-19	22	19	81.99	98.03
6	2017-18	18	18	77.9	96.39

The IQAC members took the above mentioned information on record and applauded the efforts of the departments. It was suggested to include more unique and interdisciplinary VACs.

SWAYAM/NPTEL/Other MOOC Certifications Earned by the Students

In the AY 2022-23, a total of **36 MOOCs** were offered across various programs in the university [Annexure-2.2] to acquire knowledge, skills and enable students to pursue their educational and career goals on their terms.

Merena Karpalia

Sr.No.	Name of the Department	No. of MOOC Courses offered	No. of Students opt for MOOC Course	No. of Students Completed MOOC Course
1.	Mechanical Engineering	04	07	07
2.	Computer Science & Technology	24	478	478
3.	Electronics & Communication Engineering	03	04	04
4.	Physics		06	06
5.	Chemistry		04	06
6.	Mathematics	01		04
7.	Law N/A		09	
8.	Education	02		42
9.	Management	02 13		13 55

The IQAC members acknowledged the same.

Integration of Technology & Experiential Learning Methods

Dean Academics explained the effect of Integration of new pedagogies and practical learning across academic fields in providing quality education. It was shared that the Engineering programs encourage hands-on problem-solving by allowing students to develop mini-projects and test prototypes, bridging the gap between theory and practical approaches. Students in the Department of Management and Commerce are acquainted with real-world business simulations and case studies, where they can practice leadership and decision-making skills. Moot court exercises, mock trials and internships in the Law programs provide an opportunity to apply legal theory to actual issues, enhancing advocacy and bargaining skills. Inquiry-based learning, in which students do experiments and inquiries to increase their understanding of scientific concepts, benefits the students of the department of Sciences. Aspiring teachers in Education study interactive tactics to ensure they can effectively engage and inspire pupils in real classrooms. These integrations ensure that students acquire not just academic information but also practical skills and expertise. A list of such technology integration techniques and experiential learning tools adopted in various courses across all the programs is provided as Annexure-2.3.

The IQAC members acknowledged the importance of this initiative and recognized the necessity to provide training for all faculty members to enable them to embrace and excel in innovative pedagogies especially use of IT tools and PBL. Furthermore, they emphasized the need to monitor the innovative pedagogy employed by the departments, ensuring alignment with the guidelines of the National Education Policy (NEP) 2020.

Decision: The IQAC noted the suggestion for future compliance.

Analysis of Feedback and Action Taken Based on Feedback

The feedback for the AY 2022-23 from different stakeholders including students, faculty members, alumni and employers was conducted on curriculum design and development with an aim to strengthen and improve the academic system at Manav Rachna University. The analysis of the feedback collated and the action taken reports by the respective departments were presented and discussed [Annexure-2.4].



The IQAC members acknowledged the feedback report. There was a consensus that enhancing the feedback mechanism with employers through the CRC is imperative. It was suggested that a meeting with the CRC be arranged to enhance communication and collaboration in this regard. This will help us further our efforts in enhancing our placement activities.

Agenda Item No. 3 - Research & Innovation Activities

To present and share the research & innovation activities report for the AY 2022-23 including:

• Summary of Faculty and Student Publications, both in Journals and Conferences

Dean Research shared the significant contributions of the faculty members & the students to the academic and research community with a total of 144 research papers publications. [Annexure-3.1]. The papers have been featured in reputed journals (110), conferences (34), books, and book chapters (41) that are listed in Scopus, Web of Science, and other platforms.

Furthermore, the students have collectively published 13 research papers in journals and an additional 09 papers in conferences.

According to the latest data from the Scopus database, the total number of research publications attributed to our university has increased to an impressive 607, up from the previous count of 583. Furthermore, our university's h index, a measure of research impact and productivity, has also seen growth, now standing at 35, compared to the previous value of 33 [Annexure-3.1].

• Update on Patents Filed, Published, and Granted

In the AY 2022-23, 02 new provisional patent applications have been filed by the faculty members, a total of 62 patent applications got published and 03 patent applications have been granted and 04 patent application got registration of design representing a wide spectrum of innovations and ideas generated within the community of faculty members and students [Annexure-3.2].

• Technical and Research-oriented Events Organized for Faculty and Students

To facilitate culture of innovation, learning, and research, MRU organized a variety of technical and research-oriented events for both our esteemed faculty and students serving as platforms for knowledge exchange and skill enhancement. In the AY 2022-23, a total of 35 events have been organised related to Skill Development (21), Entrepreneurship (08), Intellectual Property Rights (02), and Research Methodology (04). The list of events related to Skill Development, Entrepreneurship, Intellectual Property Rights, and Research Methodology in the Academic Year 2022-23 is attached as [Annexure-3.3].

• Recognition Received for Outstanding Research Endeavours by Faculty and Students

Dean Research shared noteworthy recognitions for the outstanding research endeavours

undertaken by both the dedicated faculty and talented students. The institution has achieved a remarkable total of 51 research recognitions for students and impressive 25 research recognitions for our esteemed faculty members [Annexure-3.4].

The IQAC (Internal Quality Assurance Cell) members expressed their appreciation for the university's research endeavours. However, they stressed the crucial need for implementing additional measures to elevate and encourage research activities within the institution.

Decision: The departments were requested to share the information regarding the students' publications. Additionally, the departments were encouraged to submit more proposals for seed money to support their initiatives.

Agenda Item No. 4 - Student Welfare Activities

To update and apprise the status of student welfare activities and achievements in cultural & sports events/activities during the AY 2022-23

Cultural Events and Activities Organized for the Students

Meena Kapali

The Department of Student Welfare (DSW) has consistently organized cultural and sports events that have positively impacted the student community. These events have not only enriched the academic journey but also promoted cultural appreciation, artistic expression, and talent development among students. Nearly 48 cultural and sports events were organised by the DSW that span across various artistic domains, including dance, music, and poetry [Annexure-4.1].

Student Achievements in Cultural Activities

In the AY 2022-23, our students participated in a wide range of cultural and sports activities on interuniversity platforms and won **12** awards. Their accomplishments are summarized in the **Annexure-4.2**.

The IQAC members duly acknowledged the information and stressed the importance of increasing sports initiatives in alignment with the Khelo India program. They also emphasized the need for student activities with a stronger focus on cultural, sports, research, and placement-related activities.

Decision: To implement a fortnightly student activities report to ensure consistent and effective monitoring of these initiatives.

Agenda Item No. 5 - Student Progression

To present the status of student placement and progression to higher studies for the AY 2022-23

The placement coordinator shared an overview of the status of student placement and their progression to higher studies for the AY 2022-23. A total of 198 students out of 428 (46.2%) have successfully secured employment opportunities in various reputed companies and organizations. Eight students have opted for higher studies. The highest placement package offered to a student in the AY 2022-23 was 60 LPA, a testament to the quality of education and skills development imparted at the university [Annexure-5.1].

Program	No. of Students Placed	Average Package (in LPA)	Max Package (in LPA)	Min Package (in LPA)
B.A. B.Ed.	8	2.47	3	2.16
B.Com. LL.B.(Hons.)	3	4.00	4.8	2.4
B.Ed Special Education	3	4.23	5	3.5
B.Ed.	13	3.15	3.6	2.5
B.Sc. (Hons.) Mathematics	2	4.78	5.36	4.2
B.Sc. (Hons.) Physics	1	5.82	5.82	5.82
B.Sc. B.Ed.	3	3.57	4.2	3
B.Sc. (Hons.) Chemistry	1	3.50	3.5	3.5
B.Tech. (CSE)	140	7.03	60	3.5
B.Tech. (ECE)	1	6.00	6	6
B.Tech. (ME)	7	4.82	6.5	3.8
BA LL.B.(Hons.)	1	2.40	2.4	2.4
BBA	10	3.35	6.3	1.18
BBA LL.B.(Hons.)	1	2.40	2.4	2.4
M.Sc. Chemistry	2	2.35	2.7	2
M.Sc. Physics	2	4.35	4.5	4.2
Grand Total		6.00	60	1.18



Placement Highlights:

3 International Placements

- Karan Aditya Ghosal, KPMG Canada, 60 LPA
- Sarthak Rastogi, Space & Damp; Times Labs, 55 LPA
- Deepanshu Sharma, ÉQUIPE SANTÉ INC, Canada, 30 LPA Highest Domestic Placement
- Ananya Kamra, Alto Palo Networks, 54 LPA

The IQAC members took the data on records. The members appreciated the efforts of the departments, CDC and CRC.

Decision: It was suggested developing a mechanism to collect the updated student progression data of the graduating batch at the time of convocation.

Agenda Item No. 6 - Faculty Professional Development Initiatives and Recognitions

To provide an overview of the professional development initiatives undertaken throughout the AY 2022-23

- Faculty Development Programs/STC/Orientation/Refresher/Conferences/Workshops conducted
 Seventeen of such programs have been organised each by the departments of ECE
 - Seventeen of such programs have been organised, each by the departments of ECE, Management & Commerce, Sciences (Physics & Chemistry), CST, Law and Education & Humanities [Annexure-6.1].
- Faculty participation in both external and internal Faculty Development Programs/STCs/Orientation/Refresher/Conferences/Workshops As a testament to the commitment of our esteemed faculty to their continuous improvement, 84 faculty members actively participated in a spectrum of development opportunities, both internal and external [Annexure-6.2]. These engagements include Faculty Development Programs (FDPs), Short-Term Courses (STCs), Orientations, Refresher Courses, Conferences, and Workshops, showcasing the dedication of the faculty members to stay at the forefront of education and research.

The IQAC members noted the same.

Agenda Item No. 7 - Examination Results and Grievance Report

To share the report of the examination results for the academic year 2022-23 and present a summary of any grievances or concerns raised and addressed regarding examination processes.

Out of a total of 522 final-year students who took the examinations, 428 have successfully passed, resulting in a pass rate of approximately 81.9% [Annexure-7.1].

Thirteen grievance cases have been reported for examinations collectively in the odd and even semesters in the AY 2022-23 [Annexure-7.2].

The IQAC members acknowledged the data.

Decision: It was taken on record the year-wise tracking of the academic progression of each batch to facilitate improved comparative analysis. Additionally, there was a suggestion to emphasize the importance of maintaining the quality of examination question papers, including the practice of sourcing approximately 50% of question papers from external experts.

Agenda Item No. 8 - To Apprise the Status of the Following for the AY 2022-23

Extension & Outreach Activities Conducted

Meena Capali

University's consistent engagement and participation in extension and outreach activities was presented. The initiatives, carried out in collaboration with students and faculty, reflected the institution's enduring commitment to community development, addressing pressing social and environmental issues and establishing sustainable partnerships [Annexure 8.1].

• MRCPS Initiatives Undertaken

MRCPs diverse initiatives reflected a steadfast commitment to peace, sustainability, and holistic education, making a positive impact on multiple fronts.

In the year 2022, the Manav Rachna Centre for Peace and Sustainability (MRCP) achieved significant recognition, receiving the World Congress on Disaster Management Disaster Risk Reduction Award for its outstanding efforts in mitigating the COVID-19 pandemic impact.

Collaborating with Heartfulness, MRCP promoted yoga and meditation practices, fostering holistic well-being.

The Peace and Sustainability Students Club played a pivotal role, providing peace training, meditation sessions, and yoga classes to school students, molding future leaders.

MRCPS commitment to the United Nations Sustainable Development Goals (SDGs) was evident in the integration of these goals into Manav Rachna University's curriculum.

The Essentials of Peace and Sustainability; course, approved by UNSCO-OERBW, was extended to other universities, emphasizing responsible global citizenship.

MRCPs Green Warriors, Project PEHEL, and initiatives like Kuch Kahna Hai; addressed community development, child safety, and environmental awareness.

Additionally, the Education for Sustainable Development Programme (ESDP) engaged school students through creative activities, while the Peace Corridor symbolized unity and hope, adorned with words for peace from numerous languages.

The Peace Initiatives Towards a Sustainable World wallpaper chronicled global peace efforts.

Decision: DSW office was advised to update the data and include some of the events like Sustanathon conducted by MRU.

Agenda Item No. 9 - Environment, Energy and Green Audits and ISO Certifications

To apprise IQAC members about the

- The Environment, Energy and Green Audit conducted
- The key areas assessed, identified strengths, and areas needing improvement
- ISO Certifications in Energy Management System, Environment Management System and Quality Management System

The Environment, Energy and Green Audit conducted

MRU has been assessed by EHS Alliance Services for the comprehensive study focussed on evaluating environmental impacts of institutional working framework to fulfil the requirement of Environment Audit, Energy Audit & Green Audit. The environment, energy and green initiatives undertaken by the University have been found satisfactory. The observations/recommendations by the Audit Team were shared. We commit to taking proactive measures to address these recommendations and continue our journey towards a greener and more sustainable future [Annexure 9.1].

Some of the recommendations include the following:

Environment Audit: Eco-friendly measures for purchase of articles, car-pooling practices to minimise air pollution; Environmental Monitoring, i.e. Stack Monitoring of DG sets, Water monitoring conducted by State Pollution Control Committee approved laboratory; agreement with third party authorised vendors for different types of waste management, such as e-waste, BMW, Plastic waste, etc. and increase the capacity of solar PV.

Meena tapali

Energy Audit: More LED lights replacing tube lights, regular maintenance schedule of equipment like geyser, water coolers, pumps, etc. The efficiency of DG Sets and AC were found to be satisfactory during the audit trials as per the report. However, the recommendations include a regular maintenance of the equipment, insulation of AC's refrigerant lines in order to protect energy losses and purchase of BEE 5 Star rated equipment in future. It has been advised to use solar water heater instead of electric geysers. And electronics such as computers, printers, scanners, etc. more than 3 year or 5 years (as per their life) should be replaced with new computers/laptops.

Green Audit: Increase of solar panel capacity to meet at least 70% of electricity requirement, installation of solar heaters, consideration of environmental parameters in purchase policy.

For water conservation, it has been suggested to install water meters at every building for monitoring of water consumption per capita, adopt drip irrigation and sprinklers gardening to save water in campus, and maintain the flow rate of taps at not more than 2.5 litres/minute.

For community, increase plantation drives in nearby areas to balance the carbon emission and absorption, arrange training programs on environmental management system and nature conservation, involve lower hierarchy staff in environmental awareness programs and campaigns and enhance recycling.

It has been further advised to display messages at various locations to create awareness about Energy Savings Green building guidelines.

It is to share the successful attainment of ISO certifications for Manay Rachna University with respect to Quality Management System, Environmental Management System, and Energy Management System.

The ISO certifications achieved by Manav Rachna University signify the following:

The Quality Management System of MRU is ISO 9001:2015 certified w.e.f. from Dec 26, 2022 (valid till December 25, 2023).

The Energy Management System has attained ISO 50001:2018 certification w.e.f. from Dec 26, 2022 (valid till December 25, 2023).

The Environmental Management System of MRU is now ISO 14001:2015 certified w.e.f. from Dec 26, 2022 (valid till December 25, 2023).

Decision: The IQAC members took a note of the same and advised the coordinators to prepare for the next cycle due this year.

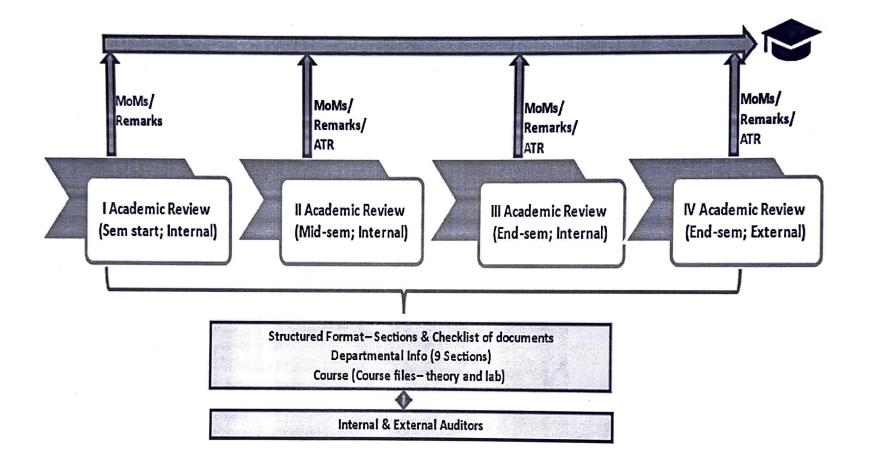
Agenda Item No. 10 - Academic Audit Proforma

To present the Academic Audit Proforma designed for the departments for the AY 2023-24.

The members were apprised about the academic audits initiated in the university to comprehensively evaluate the academic framework, focusing on departments and courses [Annexure 10.1]. It was informed that the entire academic audit process is structured into 3 internal audits (beginning of the semester, mid-semester and end-semester) followed by 1 external audit at the end of the semester. Further, the audits are being conducted by the internal auditors (experts from various departments) who undergo training sessions organised by IQAC for conducting the same.

Decision: A suggestion was made to include specific dates and agenda item numbers related to the academic bodies of the University, details on awarded PhDs, funding information, Memoranda of Understanding (MoUs) signed, and collaborative activities in each department for comprehensive documentation.





Meana Capalii

Agenda Item No. 11 - Any Other Item with the Permission of Chair

No other agenda item was presented before the members.

The meeting ended with a vote of Thanks to the chair.

F.NO. MRU/ IQAC/IQAM/2023/09/16

(Prof. Meena Kapahi)
Director – IQAC
Dated 20.10.2023

Copy to:

- 1) PS to VC for kind information to Hon'ble Vice Chancellor
- 2) Prof. Kameshwar Singh, Registrar
- 3) Prof. Sangita Banga, Pro Vice Chancellor
- 4) Mr. Atul Kalra, Director General Manager Administration, MREI
- 5) Dr. Krishan Kant, Principal, Aggarwal College, Tigaon Road
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- 35) Ms. Shefali Chopra, Deputy Registrar Academics (Special invitee)
- 36) Prof. Parneeta Dhaliwal, Director Innovation & Incubation Cell



Manav Rachna University

Annexures

First Quarterly Meeting of the Internal Quality Assurance Cell (IQAC)

For the Academic Session 2023-24
Dated 12.09.2023



Value-added Courses (VAC) Offered

Value-added Courses (VAC) Offered

Value-added courses are more than just educational supplements; they are pathways to personal and professional growth providing knowledge, and experiences needed to thrive in a rapidly evolving world, ultimately adding significant value to one's career. In the university, a total of 35 Value-added Courses (VAC) were offered in the AY 2022-23, and 98% of the enrolled students successfully completed these courses [Annexure-2.1].

S. No.	Academic Year	Total No. of VAC Offered	No. of New VAC Courses Introduced	% of Students Completed
1	2022-23	35	17	98.71
2	2021-22	36	30	95.97
3	2020-21	18	16	97.58
4	2019-20	23	21	97.43
5	2018-19	22	19	98.03
6	2017-18	18	18	96.39

S. No.	Name of the Department	Name of the VAC Course offered	Program Name & Semester	
		Processing of Polymers and Polymer Composites(new)	M.Tech. III Sem	
1.	ME	Ferrous Materials (new)	ME II Sem & M.Tech. II Sem	
		Geometric Dimensioning and Tolerancing (new)	ME III Sem	
2.	ECE	Arduino programming and hardware fundamentals using IOT(new)	ECE IV Sem	
		System modeling using Altair FEKO(new)	ECE II Sem	
3.	LAW	Socio-Legal Perspective of LGBTQIA+ Community (new)	VIII & X Semester (BBA LL.B., B.Com. LL.B. & BA LL.B.	
<u>J.</u>		Street Smart Laws (new)		
			Excel Solver	M.Sc. I Sem
		History and Fundamentals of Vedic Mathematics	B.Sc. (Hons.) Mathematics I Sem	
4.	Mathematics	-Gateway to Higher Studies in Mathematics-I	B.Sc. (Hons.) Mathematics V Sem	
		Introduction to R	B.Sc. (Hons.) Mathematics VI Sem	
		Introduction to SCILAB	B.Sc. (Hons.) Mathematics II Sem, M.Sc. Mathematics II Sem	
		Food Adulteration, Spoilage, and Preservation	B.Sc. (Hons.) Chemistry III Sem	
5	Chemistry	Food Packaging and Additives (new)	B.Sc. (Hons.) Chemistry IV Sem	
Э	Chemistry	Sustainable Application of Biosorption and Bioaccumulation (new)	B.Sc. (Hons.) Chemistry V Sem	
	Physics	Scientific Research Software	M.Sc. Physics II Sem	



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SWAYAM/NPTEL/MOOC Certifications

S. No.	Name of the MOOC Course	Semester
1	.NET Full Stack Developer	6 th
2	Agile Scrum Certification	5 th , 6 th & 7 th
3	Agile software development	6 th & 7 th
4	Angular Web Developer Certification	6 th
5	API and Microservices	6 th
6	Citizen Data Science	5 th , 6 th & 7 th
7	Corporate Finance	5 th & 7 th
8	Cyber Security Fundamentals	6 th & 7 th
9	Data Science Foundation	5 th , 6 th & 7 th
10	Design Thinking - A Primer	7 th
11	Design, Technology and Innovation	4 th
12	Ecology and Environment	5 th
13	Entrepreneurship Essentials	4 th
14	Ethics in Engineering	5 th
15	Foundational Data Science	5 th & 6 th
16	Introduction to Internet of Things	7 th
17	Introduction to Machine learning	5 th
18	Managerial Economics	5 th
19	Natural Language Processing	5 th
20	Patent Drafting for Beginners	5 th
21	PATENT LAW FOR ENGINEER AND SCIENTISTS	5 th
22	Programming Data Structures and Algorithms using Python	5 th
23	The Joy of Computing using Python	5 th
24	Water, Society and Sustainability	5 th
25	Electronic Waste Management - Issues and Challenge	4 th
26	Green Marketing	6 th



27	Role of SDGs in Management Education	6 th
28	Design Thinking	4 th
29	introduction to Early Childhood	4 th
30	Materials Science & Engineering	4 th
31	Introduction to Internet of Things	6 th
32	Literature & Copying Skills	6 th
33	Effective writing	6 th
34	Human Behaviour	6 th
35	Artificial Intelligence: Search Methods for Problem Solving	7 th
36	Innovation, Business Models and Entrepreneurship	7 th



Integration of Technology and Experiential Learning Methods

Integrating new pedagogies and practical learning across academic fields greatly improves education. Engineering encourages hands-on problem-solving by allowing students to develop mini-projects and test prototypes, bridging the gap between theory and practical approaches. Students in Management and Commerce can participate in real-world business simulations and case studies, where they can practice leadership and decision-making skills. Moot court exercises mock, trials, and internships in Law provide an opportunity to apply legal theory to actual issues, enhancing advocacy and bargaining skills. Inquiry-based learning, in which students do experiments and inquiries to increase their understanding of scientific concepts, benefits the Sciences. Aspiring teachers in Education study interactive tactics to ensure they can effectively engage and inspire pupils in real classrooms. These integrations ensure that students acquire not just academic information but also practical skills and expertise. A list of such technology integration techniques and experiential learning tools is

List of Courses on Different Pedagogies & Technology Integration

	School of Management & Commerce					
S. No.	Pedagogy Implemented	List of Courses	Technology Integration			
1	Project Based Learning	Research Methodology, Research Technique, Applied Entrepreneurship	Use of Power BI, Python			
2	Experiential	Financial Services, Warehouse Management, Logistics and International Supply Chain management, Healthcare Insurance & Management Care, Financial Analytics, Supply chain analytics, Service operation management	MS Excel, Tableau, Google Sheets			
3	Flipped classroom	Financial accounting, Operations Management, Healthcare Insurance & Management Care, Marketing Management, Strategic Management, Company Law	Canva, Moodle, Google Forms			
4	Case Study Based	Financial Services, research methodology, Family Business Governance, Operations Management, Logistics and International Supply chain, Warehouse management, Business Law, Legal & Ethical Aspects of Healthcare, Marketing Management, Strategic Management, Healthcare Insurance & Management Care, Financial Analytics, Supply chain analytics, Service operation management, New Age Entrepreneurship, Consumer Behaviour, Business Analytics, HRM,	PPTs, MS Excel			
5	e-Learning modules	Financial accounting, Business Law, Company Law, Legal & Ethical Aspects of Healthcare, Marketing Management, Strategic Management, Healthcare Insurance & Management Care, Financial Analytics, Supply chain analytics, Service operation management	e-learning platforms like LinkedIn Learning			
6	Simulation	Financial Analytics, Supply chain analytics, Service operation management,	Simulation Software			



	Department of Computer Science & Technology (School of Engineering)						
S. No.	Pedagogy Implemented	List of Courses	Technology Integration				
1	Project Based Learning	Supervised Learning, Advance Neural Network, Mobile Computing with Android, computer vision and data visualization, IOT, Visualization and cloud automation, Continuous integration and continuous deployment	Python, Image Processing, Machine Learning, Deep Learning, AWS, Google Android Developer, Containers Dockers and Kubernetes				
2	Experiential	OOPS using JAVA, Modern Web & Mobile Framework, Advance Java, Theory of Automata & Compiler Design, Network Security, IoT, DOTNET & PYTHON Programming	Implementation of OOPs features like encapsulation, abstraction, polymorphism, inheritance etc. via lab assignments and mini-projects. HTML, CSS, JavaScript, Node.js, React				
3	Flipped classroom	User Interface-II	PPTs				
4	Case Study Based	Software Engineering and Green Computing	PPTs, Assignments				
5	Collaborative	Computer Network, Computer Graphics & Multimedia	Turbo C, C++, Macromedia Flash, Mini Projects				

	Department of	f Electronics and Communication Engineering (Sc	hool of Engineering)
S.No.	Pedagogy Implemented	List of Courses	Technology Integration
1	Project Based Learning	IOT Workshop, Engineering Exploration	Real Time projects like line followers, parking system
2	Experiential	PLC Workshop, Electronic Devices and circuits Engineering exploration, Electronic Design workshop, Introduction to MATLAB, Digital Electronics and Microcontrollers	Project Based Learning, Mini Projects: Burglar alarm, Transistor Amplifier value added experiments in Labs like Automatic Door Control, Automatic Coffee Vending Machine, Smart Dustbin, Automatic Soap Dispenser
3	Flipped Classroom	Digital Logic and Hardware Design	
4	Case Studies	E- waste management, Introduction to Neural networks	Presentations, Group Discussions



	SCHOOL OF LAW				
S. No.	Pedagogy Implemented	List of Courses	Technology Integration		
1	Project Based Learning	Research Methodology, Internship Viva, Moot Court exercise, Seminar Paper	Use of Moot Court, Digital Resources for Research		
2	Experiential	Gender sensitization at workplace, Constitutional Law, Forensic Science, Law on Mergers & Acquisitions, Contract Drafting, Cyber Crimes & Law, Information technology & IP Law, Law of Crimes, Alternate Dispute Resolution, Media & entertainment Laws	Judgment Reading, writing, solving case propositions, Videos, documentaries, ppts		
3	Flipped classroom	Criminal Procedure Code, Law of Evidence, Drafting, Pleading and Conveyancing, Civil Procedure Code, Professional Ethics and Professional Accounting System	Witnessing courtroom proceedings, internships, court visits		
4	Case Study Based	Law on Mergers and Acquisitions, Constitutional law, Law of Property, Law of Crimes, Interpretation of Statutes	Judgment Analysis		
5	e-Learning modules	Information Technology and Telecommunication Laws, Management Information System, International Criminal Law, International Humanitarian and Refugee Law, International Trade Law	Different e-learning platforms like Linkedin Learning, Swayam, Edx		

	DEPARTMENT OF MECHANICAL ENGINEERING (SCHOOL OF ENGINEERING)				
S. NO.	Pedagogy Implemented	List of Courses	Technology Integration		
1	Project Based Learning	Machine Tool Design, Manufacturing Processes, Rapid Prototyping	Altair Simulation, Software, 3D Printing Machine, Smart Board, Internet		
2	Experiential	Mechatronics, Work Measurement Techniques, Fluid Mechanics & Machine, ICGT, Manufacturing Technology, Heat Transfer, Theory of Metal Cutting, Metal Forming Analysis, Engineering Mechanics, Advanced Manufacturing, Production System and Management, Strength of Materials-I, HVAC, Advanced Optimization Technique, Modern Manufacturing Process, Applied Thermodynamics, Production Ergonomics & Workplace Design, Mechatronics, Theory of Machines, Automobile Engineering, Refrigeration & Air Conditioning,	Lab Equipment and Machines, Smart Board, Internet, Ppt		



		Advanced Welding Techniques	
3	Flipped Classroom	Research Methodology, Strength of Materials-II, Optimization Technique, Global Logistics System, Machine Design-I, Machine Design-II, Thermodynamics, Operation Research, Lean Manufacturing, Technical Research Paper Writing	Ppt, Smart Board Internet
4	E-Learning Modules	Computer Integrated Manufacturing, Material Science	NPTEL, Smart Board Internet
5	Simulation	Engineering Graphics & Drawing, Computer Aided Drafting, Product Design and Development, 3d Modeling, Analysis Software, Computer Aided Design & Manufacturing	Altair, Simulation Software Smart Board, Internet Ppt
6	Collaborative	Transportation And Distribution Management, Materials for Robotics, Project Management, Operation Research, Multimodal Transportation	Ppt Smart Board Internet

School of Education and Humanities				
S.No.	Pedagogy Implemented	List of Courses	Technology Integration	
		History: Ancient Western Civilization, History: History of India till 1206, History: Nationalism and Colonialism in Asia	PPTs, Graphic Image	
1 Project Based 1 Learning	Project Based Learning	Diversity of Microbes & Thallophytes	Students were asked to grow fungus and collect algae from surroundings then observe and identify under microscope and generate a report	
		English: Renaissance & Restoration English: Twentieth Century British Literature, An Introduction to English Literature	The students made project-based learning for their better understanding about different texts	
		Genetics and Paleontology	Project report on specific cases of genetic disorder in different areas of the world	
	Experiential	Indian History 1206-1757Foundation of Education	Field-based trips to witness Sultanate and Mughal architecture	
			Educational Philosophy of Mahatma	



		Genetics and Paleontology	Gandhiji was covered with explicit coverage of Nai Talim or Buniyadi Shiksha in context of how hos ideas find the practical shape through this scheme of Education by showing them video followed by discussion. Along with this, students have also been oriented about the practical implementation of Nai Talim in NEP 2020 through a news channel debate. Virtual tour of Bird Sanctuary to study various types of birds.
		Plant tissue culture, Biochemistry and Biotechnology	Laboratory experimentation for PTC and Biochem cycles
	Reflective writing	Indian History 1206-1757, Indian History : 1757-1857, Indian History: 1857-1947, Nationalism and Colonialism in Asia	WordPress, blog
	Case Study Based	History: India and the World 1950- 2000 Knowledge and Curriculum	PPTs, canva India as a case was integrated in the topic Impact of Social Structure on Knowledge Acquisition and Teaching Learning process. Students have been oriented through group discussion and PPT about various elements encompassing Indian Social Structure and after brief orientation, their influence on Knowledge Acquisition and Teaching Learning process which they are covering through practical examples and real-life experiences.
		Genetics and Paleontology	Typical cases of genetic disorders available on internet and books References from story books about history of man
5	Roleplay	Indian History : 1757-1857 History 1206 A.D -1757 · Indian History: 1857-1947	Students enacted various roles of historical figures, dynasties



	1	I	T
		English: Renaissance & Restoration English: Twentieth Century British Literature	The students learned through playing their roles in various books on drama & fiction. They wrote the dialogue and learned about literature.
6	Movie Review/	 Indian History: 1757-1857 Indian History: 1857-1947 History of India till 1206 	Short clips, Audio-video visuals, Images
Documentary review analysis		English: Renaissance& RestorationEnglish: Twentieth CenturyBritish Literature	The students given their presentation which were based on Movies on the primary text of the literature.
7	Cooperative Approach and constructive Teaching	Pedagogy of English	Students were taught the concept of cooperative Approach—and then they were instructed to identify any topic from their course content and give grp presentations following the cooperative approach. Similarly students completed a project on constructive approach.
8	Flipped classroom	Genetics and Paleontology Plant tissue culture, Biotechnology Biochemistry An Introduction to English Literature	Experimental investigation on genetics and PTC, Biochem and Biotech followed by discussion, explanation and conclusion of the topic. The students learnt through interactive teaching learning where
9	Interactive Teaching	EDH 118	the History of English Literature were discussed by using PPT followed by discussion and conclusion of the topics.

PHYSICS PROGRAM (DEPARTMENT OF SCIENCES)			
S. NO.	Pedagogy Implemented	List of Courses	Technology Integration
1	Project Based Learning	Project Work, Mini Project-I	Origin Software, Dft, And Internet
2	Experiential	Electricity And Magnetism, Wave Optics, Physics of Electronic Devices, Thermodynamics, Laboratory Work	Lab Equipments, Smart Board, Internet, Ppt



3	Flipped Classroom	Statistical Mechanics, Solid State Physics, Atomic and Molecular Physics, Scientific Research-I, Nanotechnology, Nuclear and Particle Physics, Electrodynamics and Plasma Physics, Classical Mechanics, Mechanics	Ppt, Smart Board, Internet
4	Simulation	Computational Condensed Matter Physics, Programming for Problem Solving Using C	DFT Simulation Software, Smart Board, Internet, Ppt
5	Collaborative	Major Project	Ppt, Smart Board, Internet

	DEPARTMENT OF SCIENCES – MATHEMATICS PROGRAM				
S. No.	Pedagogy Implemented	List of Courses	Technology Integration		
1	Project Based Learning	Project Work, Minor Project, Scientific Research-I, Scientific Research-II	PPTS, Group Discussion, Team- Work, MATLAB SOFTWARE		
2	Experiential	Summer Training	Projects & Online Courses		
3	Flipped Classroom	Coding Theory , Abstract Algebra Partial Differential Equations Graph Theory Functional Analysis Operations Research Integral Equations & Calculus Of Variation Integral Transforms & Applications Probability & Statistics Differential Equations Fluid Mechanics Advance Operations Research Real Analysis Advanced Analysis Differential Geometry	Interactive Teaching Through PPTS		
4	E-Learning Modules	E-Waste management	NPTEL		
5	Simulation	Math Lab-I, Math Lab-II, Math Lab-III, Math Lab-IV, Excel Workshop	Hands-on Training & Computer Lab		



Calculus and Linear
Algebra, Probability and Statistics,
Discrete Mathematics

	DEPARTMENT OF SCIENCES - CHEMISTRY PROGRAM				
S. No.	Pedagogy Implemented	List of Courses	Technology Integration		
1	Project Based Learning	Project Work, Mini Project, Scientific Research-I, Scientific Research-II	Origin Software, Chem Drawn, Internet		
2	Experiential	Organic Laboratory Work, Inorganic Laboratory Work, Inorganic Laboratory -I, Organic Laboratory - I, Physical Laboratory -I	Lab Equipments, Laboratories		
3	Flipped Classroom	Physical Chemistry-I Inorganic Chemistry-I Organic Chemistry-I Chem-I (Atomic Structure & Bonding) Chem-III (Organic Chemistry-I) Chem-VI (Transition elements, Coordination compounds & Chemical Kinetics)	Ppt, Smart Board, Internet		
4	E-learning Modules	E-Waste management	NPTEL		
5	Simulation	Symmetry & Group Theory	DFT Simulation Software, Smart Board, Internet, ppt		
6	Collaborative	Major Project	Ppt, Smart Board, Internet		



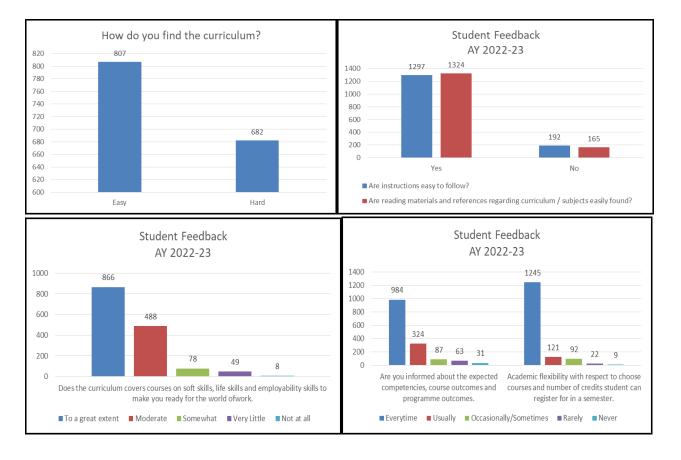
Feedback Analysis & Action Taken Report

The aim of the feedback is to monitor, review and improve the overall quality of the teaching learning process at MRU. Feedback of different stakeholders including students, faculty members, alumni and employers is conducted on curriculum design and development with an aim to strengthen and improve the academic system at Manav Rachna University. Once submitted, the feedback from the various stakeholders is collated and analyzed for taking an appropriate action on a regular basis for syllabus revisions, restructuring of the curriculum and quality improvement. The complete feedback report is hosted on the institutional website to maintain transparency. The entire feedback process is executed by a dedicated Feedback Committee.

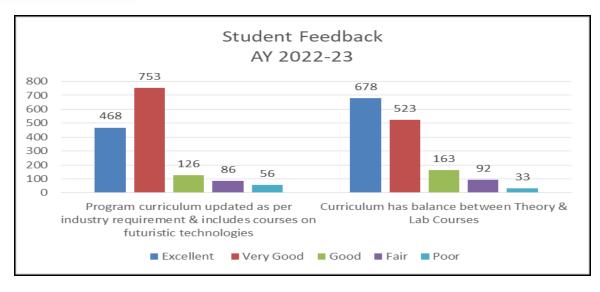
A. Student

The student feedback is an essential aspect of effective learning and enhancing his/her learning experiences. The student feedback facilitates students' engagement for constructive improvement in the teaching learning process. In the AY 2022-23, student feedback against various aspects of curriculum was taken like updation or appropriateness of the programme curriculum as per industry requirement, balance between theory & lab component, academic flexibility with respect to the choice of courses and focus on skill based & multidisciplinary courses for the holistic development of students.

Out of the 1489 respondents, **90% students responded in the category of Excellent, Very good and good** and believe that the curriculum meets the industry requirements. They also admit a good balance between the theory & practical component in the curriculum and also have an opinion that the curriculum is supplemented with modules on soft skills, life skills and employability skills to a great extent.

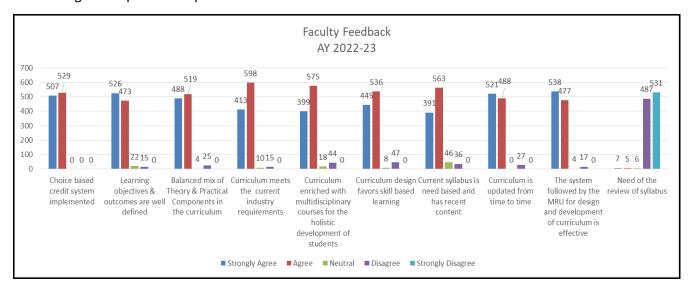






B. Faculty Feedback

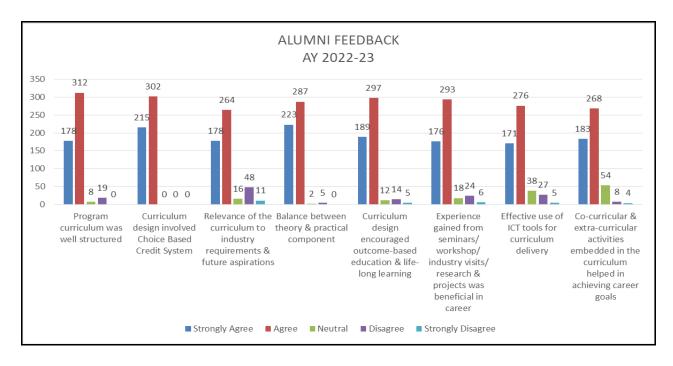
The faculty feedback on curriculum is conducted with an objective to revise/update the curricula as per the needs for students' employability, higher studies or entrepreneurship. In the AY 2022-23, faculty feedback against the 1036 offered courses on various aspects of curriculum such as effective implementation of CBCS, balance between theory & practical components in the curriculum, suitability to meet the industry demands, inclusion of skill based & multidisciplinary courses along with regular revision requirements was received. 96% of the respondents strongly agreed and agreed that the curriculum design & development process adopted by the university is effective. Detailed statistical graphs showcasing the responses are presented below:



C. Alumni Feedback

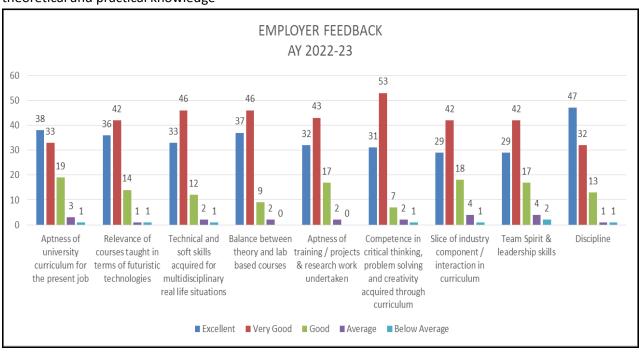
Alumni feedback on curriculum design and development is invaluable for institutions aiming to enhance their educational programs. Alumni often have a unique perspective on the curriculum's effectiveness and relevance to real-world situations, having experienced the program firsthand and subsequently entering various professional fields. The feedback was undertaken on variety of aspects such as structure of the program, availability of choice-based credit system, relevance of the curriculum to industry requirements, a balanced mix of theory and practical. Integration of outcome-based and lifelong learning, usage of ICT in curriculum delivery and hands-on practical exposure in curriculum. A graphical illustration of these components is given below to summarize student alumnus responses:





D. Employer Feedback

The Employer feedback evaluates the applicability of the concepts, tools, activities, training, case studies presented in the curriculum for employability skills among graduates. In the AY 2022-23, employer feedback on the parameters like aptness of university curriculum with respect to job market, relevance of courses in terms of futuristic technologies, balance between theory & practical, competence in critical thinking, problem solving and creativity along with life skills like Team spirit, discipline was taken. Responses from 94 employers were received. 96% of the employers were satisfied with the student's theoretical and practical knowledge





ACTION TAKEN REPORT

A. Student

S. No.	Feedback	Action Taken Report
1.	Curriculum Aspects	In theory, revisions have been made to make the syllabus as per the various entrance exams and industrial applications. New subjects were run on the basis of suggestions received from students. In laboratory, practical's lists have been revised completely to incorporate use of new instruments.
2.	Administrative system & its effectiveness	Students will be informed in detailed in the beginning of semester.
3.	Continuous Assessment in place of midterm and end term exam.	Midterm and end term for regular courses are compulsory. Though the courses in PBL mode can be assessed through viva, presentation etc.
4.	In few courses, syllabus is very vast. It must be reduced.	Syllabus of DEMC and Physics for Engineers revised.
5.	Interactive sessions would be more beneficial apart from the classroom teaching	Cooperative learning methods introduced.
6.	More focus on teaching practical things like drafting etc.	Following courses have been added to the curriculum: Entrepreneurship, Digital Marketing Leadership Skills, Course of Drafting, Pleadings and Conveyance is already being offered to the students.

B. Faculty

Department	Feedback	Action Taken Report
Department of Computer Science & Technology	 a) Curriculum with a well-balanced combination of theory and lab components b) Curriculum is having good academic flexibility 	 a) Every theory class has a lab component with that. b) The BOS recommends changing the curriculum in accordance with the demands of the market.
Department of Mechanical Engineering	Latest equipment should be purchased on regular basis.	List of equipment asked by faculties to improve the quality of practical classes



Department Electronics Communication Engineering	of &	 a) Introducing Job oriented Certification courses. b) Elective courses to be offered as MOOC. c) New VAC courses to be introduced. d) Syllabus revisions proposed in DEMC and Physics for Engineers. 	a)	Certification courses have been approved through BOS and BOF in Firmware developer, IOT firmware developer and Embedded systems design in collaboration with Industry Partner Embedkari.
			b)	Students have been introduced to NPTEL, Infosys Springboard and courseEra for taking up elective courses as MOOCs.
			c)	VAC courses in MATLAB, Python and PLC introduced.
			d)	Syllabus for DEMC was revised. Syllabus modified to focus more on fundamentals and reduce the number of Topics.
			e)	Syllabus for Physics for Engineers was revised. New topics introduced and topics overlapping in courses like EDC and BOEE were removed.
		 a) As per the stakeholder feedback, revision in courses offered in UG and PG programme is required. b) SR-I, SR-II credits were decreased by 2 in 	a)	Course revisions have been incorporated in the curriculum as per direction of BOF- 2022 and approved in BOS- July, 2023.
Department Mathematics	of	 the last BOF 2022 so project credit should also be decreased by 2. Need to insert some new courses in curriculum. c) Professional development courses for both UG & PG mathematics would be 	b)	SR-I, SR-II and project credit decreased by 2 in the new program structure for Batch 2023-2025 and onwards.
		beneficial for student in placements & career ahead. d) As per the industry recruitment introduces new elective Course in MSc. Mathematics. e) The course Mathematical Statistics is recommended for M.Sc Students (first	c)	Professional development courses PC-I, PC-II, PC-III, PC-IV, PC-V were added in B.Sc.(H) Maths curriculum and PC-PG, PC-PG-I, PC-PG-II were added M.Sc. Maths curriculum from batch 2022 onwards
		year) as this course provides understanding from data and has wide	d)	Based on the feedback received by faculty members,



	applications.	Mathematical Statistics and Mathematical Modelling are introduced in M.Sc Program as core courses & Advanced Discrete Mathematics and Advanced Numerical Analysis are introduced in M.Sc Program as core courses
Department of Education & Humanities	a) Needs some revision in practical syllabus and should be continuously updated according to the industry demands b) Integrating multicultural and global perspectives throughout the curriculum can help students develop a deeper understanding and appreciation of different cultures and foster a more inclusive learning environment. It is also essential to incorporate content that addresses social justice issues, promotes equity, and challenges biases and stereotypes, thus empowering students to become informed and empathetic global citizens. c) Needs more organization with practical components of the courses	a) Syllabus for Course 'ICT in Education' for was revised and the required changes were proposed in view of the emerging trends in area of digital learning. Proposed changes were approved in BOS held on 26th May 2023. 2.In view of the larger thrust being placed on various sustainable development goals and the feedback provided by the faculty, following value added courses were approved for the upcoming semester (July — Dec 2023). Syllabus of the courses was also being discussed at length and was approved in the BOS held on 26th May 2023. Approved Courses • Essentials of Life Skills • Social and Emotional Learning • Global citizenship education • Phonetics • Environmental Sustainability
Department of Physics	 a) More VAC courses having relevance in terms of futuristic technologies should be incorporated in the curriculum. b) More Elective courses should be offered as per current requirement. c) There should be an option for fast track online courses offered by other universities for final year students. 	a) VAC Course "Solar energy- Technology and systems" has been reviewed and implemented for the academic year 2022-23. b) Elective courses such as Basics of Remote Sensing, lonospheric precursors of earthquakes, Energy Environment and climate change concern have been incorporated in program



		structure. c) Courses like Waves and oscillations (IISER Pune), Thermodynamics (IIT Madras), Advanced quantum mechanics with applications (IIT Guwahati) etc. are optional for final year students that can be done in online mode also
Department of Chemistry	a) Minor revision of course content of B. Sc.(H) Chemistry program and inclusion of new electives 'Applied chemistry and Nano Chemistry' in the 5 th semester of B. Sc.(H) students admitted in 2022 batch onwards. b) Minor revision of course content of M. Sc. Chemistry program and inclusion of new electives 'Quantum Chemistry' in the 3 rd semester of M. Sc. Chemistry students admitted in 2022 batch onwards. c) Finalization the course contents of Additional Certificate Course on 'Cement Technology for all M.Sc. students admitted 2022 onwards. Finalization of Additional Certificate Course on 'Food Technology and Environmental Planning Auditing and Management Technology for all B.Sc. (H) students admitted 2021 onwards.	a) Summer training is shifted from post second semester to post fourth semester and credits has been increased from 2 to 3. Summer training is now 3 credit course. In fifth semester, domain elective basket of 2 credits has been revised as a 4 credit basket with L-T-P (3-1-0). Two new course Applied Chemistry and Nano Chemistry have been introduced in this basket and their syllabus has also been approved. In the same basket the Food Science course which was earlier being offered in 6th semester has now been incorporated in the same basket. b) Minor revision of course content of M. Sc. Chemistry program and inclusion of new electives 'Quantum Chemistry' in the 3 rd semester of M. Sc. Chemistry students admitted in 2022 batch onwards. c) In third semester a basket of Domain Elective with 2 credits has been introduced to offer course on thrust areas. Initially we are offering one course on Computation chemistry (CHS620B) and further more course related to thrust areas and Industrial requirement will be added. The syllabus of Computational Chemistry has been approved.



Department of Law	a) New VAC courses to be introduced. b) More value added courses should be added.	 a) Capsule Courses Basket created to be offered to industry experts to teach as Value added courses. b) More number of Value Added Courses are now being offered to the students.
Department of Management & Commerce	a) The curriculum is relevant and meets the industry requirements. Though time to time it should be up syllabus of Global Health Care to be reviewed, existing syllabus to be revised currently three is no changes recommended in the existing syllabus. b) Rename the operation management program to Global Operation Program dated as per recent advancements. Introduction of Project based learning (PBL Mode) in BBA-FAA 6 Sem for subject CSR & Business Ethics (Rubrics to be shared). BBA - Finance & Accounts 5th Sem- Financial Derivatives(old)-change in syllabus More Application based exercises need to be incorporated c) Few subjects taught in the BBA EFB specialization like CIE, Fundamentals of Design thinking syllabus content to be revised. d) Practical paper AEP (Applied Entrepreneurship Program) can be of 3 credits to increase the weightage of the course.	proposed on the basis of feedback from the faculty and industry expert. The nomenclature of subject introduction to healthcare to introduction to global healthcare management.



C. Alumni

S. No.	Feedback	Action Taken Report
1.	Include more visits and workshops in the department	In the current academic year, an activity calendar is planned wherein month -wise events have been scheduled and shared with students for transparency. These include regular academic workshops and field-trips
2.	Department library should contain books which are suggested by the faculty to the students	Books suggested by faculties have been added to the department library and more suggestions of reference books, journals and light-reading books have been shared with central-library for requisition in the academic year for students.
3.	Improving the credit system for PSC extra course if the student wants to take up in one semest4r.	The system of credit system per semester is fixed by UGC and NCTE guidelines; hence, if the student has PSCs then the credit per semester has to be adhered to.
4.	More industry oriented courses should be included	TrueChip courses have been introduced which are designed and delivered by industry experts.
5.	Should have training program for betterment.	CDC sessions have been arranged. Weekly two hours classes will be held.
6.	Minor/Major project should be a choice.	Kept in a basket for choice.
7.	Assignment should be based on case studies	Faculty members were advised to keep internal assessments on parameters that incorporate experiential learning methods like case study discussion, role plays, projects etc. so that the students have better teaching learning experience.

D. Employer

S. No.	Feedback	Action Taken Report
1	Can add some certification to the academic program and add some live/real life projects.	Introduced LinkedIn Learning certification courses for improving the skills required for employability. More courses were delivered through Project Based Learning.
2	Enhance Student exposure on Job training.	To cater this, industry persons and visiting faculties are invited to take student lectures.
3	Alumni connect can be helpful for students.	To cater this, placement talks from alumni are organized and students are finding really helpful.



Publications of Faculty Members

Research Publications

Our esteemed faculty members have made significant contributions to the academic and research community with a total of **144 research papers** published. These papers have been featured in reputed journals, conferences, books, and book chapters that are listed in Scopus, Web of Science, and various other respected platforms. These publications reflect our commitment to advancing knowledge and scholarship in various fields of study.

a) Journal Publications: 110

- Electrochemical and Surface Study of an Antibiotic Drug as Sustainable Corrosion Inhibitor on Mild Steel in 0.5 M H2SO4, Rajni Narang, Priya Vashishth, Sudhish K Shukla, Bindu Mangla, Journal of Molecular Liquids, Volume 384, 122277, June 2023
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- 12. Identifying Exoplanets Candidates with Machine Learning, Bhimavaram, Chaitanya Virmani, Ria Singhla, Priyanka Gupta & Hardeo Kumar Thakur in 7th International Conference on Microelectronics, Electromagnetics and Telecommunications organized by Shri Vishnu Engineering College for Women, https://doi.org/10.1007/978-981-19-8865-3_31, May 2023
- 13. Estimation of Position of Lathe Tool Using Edge Detection Technique, Shweta Kumari, **Charu Pathak, Shruti Vashist,** Prasant Kumar Mahapatra in 2023 International Conference on Intelligent Systems, Advanced Computing and Communication (ISACC), , DOI: 10.1109/ISACC56298.2023, April 2023
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- 15. Prioritization in Data Warehouse Requirements—Incorporating Agility **Hanu Bhardwaj & Jyoti Pruthi** in International Conference on IoT, Intelligent Computing and Security, IICS 2021, Volume 982, 2023, Pages 147-155, April 2023
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- 20. Optimization of Quality Power Distribution System using Artificial Intelligence, Satya Prakash Awasthi, Sanjay Singh, Urmila Pilania, Manoj Kumar, A.S. Sindhu, A.S. Sarika in 2023 5th International Conference on Smart Systems and Inventive Technology (ICSSIT) organized by Francis Xavier Engineering College, Tirunelveli, DOI: 10.1109/ICSSIT55814.2023.10061066, March 2023
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- 24. Generalization of Fourier Transformation of Scaling Function using Riesz basis on L2(K), Noida, Soni, Narendra Kumar, Y.K. Sharma, V., Aggarwal A in 2022 10th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO) organized by Amity University, DOI: 10.1109/ICRITO56286.2022.9965138, December 2022
- 25. An Optimized Hybrid Approach to Detect Cataract, Urmila Pilania, in 2022 IEEE Global Conference on Computing, Power and Communication Technologies, GlobConPT 2022 organized by India Habitat Centre, Lodhi Road, New Delhi (Sponsored by IEEE Industry Applications Society, USA, DOI: 10.1109/GlobConPT57482.2022.9938266, November 2022
- 26. From Linguistic Features to their Extractions: Understanding the Semantics of a Concept, Puneet Garg, Chandni Maggo in 2022 Fifth International Conference on Computational Intelligence and Communication Technologies (CCICT), organized by BM Institute of Engineering and Technology, Sonipat, DOI: 10.1109/CCiCT56684.2022.00082, October 2022
- Russia Against the World tweets Concept, Aparna Vyas, Hardeo Kumar Thakur in 2022 Fifth International Conference on Computational Intelligence and Communication Technologies (CCICT), Naman Gupta, organized by BM Institute of Engineering and Technology, Sonipat, DOI: 10.1109/CCiCT56684.2022.00035, October 2022
- 28. Synthesis, Electronic Structure and Magnetic Properties of FeCoGaO4 Nanoparticles in Internaional Conference on Advanced Materials for Societal Applications organized by Department of Physics, JC Bose Univ. of Sci & Technology, YMCA, Faridabad., Aditya Sharma, Yogesh Kumar and Mayora Varshney, Vol. 161, Page no 110476, October 2022
- 29. COVID 19: Identification of Masked Face using CNN Architecture, Sanjay Singh, Ankur Kumar Aggarwal, Ramesh P, Leema Nelson, P. Damodharan, M. Thurai Pandian, in 2022 3rd International Conference on Electronics and Sustainable Communication Systems (ICESC),



- organized by Hindustan Institute of Technology, DOI: 10.1109/ICESC54411.2022.9885327, September 2022
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- 32. Machine Learning Role in Cognitive Mental Health Analysis amid Covid-19 Crisis: A Critical Study, Riya Aggarwal, Nancy Girdhar, **Alpana** in 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON), organized by MRIIRS, Faridabad, DOI: 10.1109/COM-IT-CON54601.2022.9850873, August 2022
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c) Books/Book Chapters: 41

The details of books chapters are given below:

- Utility of Biogenic Nanomaterials for Rejuvenation of Heavy Metals: Nano Biotechnology for Bioremediation Fundamentals and Mechanisms, Vinayak Vandan Pathak, Sudhish Kumar Shukla, Jaya Tuteja, Anjali Garg, Bhawna, ISBN 978-0-323-91767-4, June 2023
- The Role of Technology in Women Entrepreneurship:Legal Issues and Challenges for Gen-Z: Entrepreneurship in The Modern World Perspective from Diverse Disciplines, Piyush Charan & Sumita Chaturvedi, ISBN-978-81-19281-54-1, June 2023
- Sustainability as a Catalyst of Financial Development: Perspectives on Blockchain Technology and Responsible Investing, Soumya Singhal, Khushboo Gulati, Isha Chhabra, ISBN-978-1-668-48361-9, May 2023
- 4. Defect-Induced Magnetism in Oxide Semiconductors, Parmod Kumar, **Jitendra Pal Singh**, Vinod Kumar, ISBN 978-0-32-390907-5, May 2023
- 5. Entrepreneurship is the best solution for unemployment: Global Thoughts and Opinions, **Sampriti Phukan**, ISBN 978-81-947778-0-9, May 2023
- Magnetism in Disordered HfO2 Nanoparticles and Thin Films: Defect-Induced Magnetism in Oxide Semiconductors, Aditya Sharma, Mayora Varshney, H.J. Shin, Keun Hwa Chae, Sung Ok Won, ISBN- 978-0-32-390907-5, May 2023
- 7. Lignin Chemistry, Structure, and Application, **Arpit Sand & Jaya Tuteja**, ISBN-978-1-83968-545-3, April 2023
- 8. Properties and Applications of Superabsorbent Polymers Smart Applications with Smart Polymers, **Arpit Sand & Jaya Tuteja**, ISBN-978-981-99-1101-1, April 2023
- 9. Introduction of Superabsorbent Polymers: Properties and Applications of Superabsorbent Polymers Smart Applications with Smart Polymers, Yahya Bachra, Fouad Damiri, Mohammed Berrada, Jaya Tuteja & Arpit Sand, ISBN-978-981-99-1101-1, April 2023



- 10. Future Challenges and Opportunities in the Field of Superabsorbent Polymers: Properties and Applications of Superabsorbent Polymers Smart Applications with Smart Polymers, Fouad Damiri, Yahya Bachra, Mohammed Berrada, Jaya Tuteja & Arpit Sand, ISBN-978-981-99-1101-1, April 2023
- 11. Progressive Approach of SAPs in Disposable Hygiene Industry: Properties and Applications of Superabsorbent Polymers Smart Applications with Smart Polymers, **Jaya Tuteja & Aparna Vyas**, ISBN-978-981-99-1101-1, April 2023
- 12. Introduction to Structure Properties and Application of Lignin: Lignin Chemistry, Structure, and Application, Jaya Tuteja & Arpit Sand, ISBN- 978-1-83968-545-3, April 2023
- 13. Ferrite Nanostructured Magnetic Materials Technologies and Applications, **Jitendra Pal Singh**, Keun Hwa Chae, Ovidiu Florin Caltun, ISBN 978-0-12-823717-5, April 2023
- 14. Mössbauer study of ferrite nanostructures: Ferrite Nanostructured Magnetic Materials Technologies and Applications, Ramesh Chandra Srivastava Amit Joshi, **Jitendra Pal Singh**, Shalendra Kumar, ISBN 978-0-12-823717-5, April 2023
- 15. Ion implantation in ferrites: Ferrite Nanostructured Magnetic Materials Technologies and Applications, **Aditya Sharma**, Ksh. Devarani Devi, Weon C. Lim, Keun Hwa Chae, , ISBN 978-0-12-823717-5, April 2023
- 16. Managing Career Crisis, Ajay Bhatia, Subodh Saluja, ISBN 978-9-390-12495-4, April 2023
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- 18. Sustainable Development Goals (SDGs-7) for Bioeconomy with Bioenergy Sector: Sustainable Butanol Biofuels, Richa Kothari, Kajol Goria, Anu Bharti, Har Mohan Singh, Vinayak V. Pathak, Ashish Pathak, V.V. Tyagi, by CRC Press, ISBN-978-100-31-6540-8, April 2023
- 19. Work-From-Home Security Issues and Risk Over Internet: Sustainable Environment, Manifestation and Augmentation, Zohaib Hasan Khan, **Piyush Charan**, ISBN-978-93-91303-45-7, March 2023
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- Zinc Ferrite Nanoparticles and Their Biomedical Applications: Oxides for Medical Applications, Piyush Kumar, Ganeshlenin Kandasamy, Jitendra Pal Singh, Pawan Kumar Maurya, ISBN 978-0-323-90538-1, March 2023
- 22. Role of Nanomedicine for Targeted Drug Delivery in Life-Threatening Diseases: Nanobiotechnology for the Livestock Industry Animal Health and Nutrition, Jaya Tuteja & Arpit Sand, ISBN 978-0-323-98387-7, February 2023
- 23. Utility of Nanomedicine and Nanocarriers for Noninfectious Disease Treatment: Nanobiotechnology for the Livestock Industry, **Jaya Tuteja, Aparna Vyas & Arpit Sand**, ISBN 978-0-323-95325-2, February 2023
- 24. Reliability Prediction and Its Simulation for a Friction Stir Processing Tool: Advances in Modelling and Optimization of Manufacturing and Industrial Systems, Smriti Mishra, Prashant Bhardwaj, Neha Bhadauria & Prashant Vashishtha, ISBN 978-981-19-6107-6, February 2023
- 25. Integrated approach to testing and assessment and development in arsenic toxicology in Handbook of Arsenic Toxicology, **Megha Bansal**, https://doi.org/10.1016/B978-0-323-89847-8.00020-1, February 2023
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- 27. High Performance Classifier for Brain Tumor Detection Using Capsule Neural Network: Computer Vision and Machine Intelligence Paradigms for SDGs, J. S. Thanga Purni, R. Vedhapriyavadhana, S. L. Jayalakshmi, **R. Girija**, ISBN: 978-981-19-7169-3, January 2023
- 28. Repatriation Management and Competency Transfer in a Culturally Dynamic World, **Manmeet Bali Nag**, Firdous Ahmad Malik, ISBN-978-981-19-7349-9, January 2023



- 29. AIML, **Piyush Charan,** NR Behera & Charanjeet Singh, ISBN-978-93-5625-585-2 by Scientific International Publishing House, December 2022
- 30. Algal Biofuel Sustainable Solution, Richa Kothari, **Vinayak V. Pathak** and V.V Tyagi, ISBN 978-10-3242-545-0, December 2022
- 31. Role of Meteorological Parameters on Atmospheric Aerosols Concentration and Its Control Through Modern Biomass Application: Algal Biofuel: Algal Biofuel Sustainable Solution, **Dinesh Kumar Sharma, Ananna Bardhan & Vinayak V. Pathak**, ISBN 978-10-0336-323-1, December 2022
- 32. Modern Legal English: A hand Book For Law Students, **S.K. Bose,** ISBN 978-93-5737-413-2, October 2022
- 33. Sustainable Development: Dynamics of Corporate and Commercial Laws in a Globalised World, **Sampriti Phukan**, ISBN:978-93-5574-258-2, October 2022
- 34. Understanding Gender, Sex and Justice in A Progressive Society: Women Empowerment, **S.K. Bose**, ISBN 978-93-92042-17-1, September 2022
- 35. Digital Transformation in Contemporary Times, Ashima Saxena, **Priyanka Chadha, Shivam Gaur, Ajay Bhatia,** by Namya Press ISBN 978-93-5545-098-2, September 2022
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- 37. Digital Banking and the Right to Privacy: An Insight into India's Legal Position: Digital Transformation in Contemporary Times A Panorama for Reshaping and Reimagining the future, **Chaitali Wadhwa**, by Namya Press ISBN 978-93-5545-098-2, September 2022
- 38. Internationalization of Higher Education, Regional Cooperation and Digital Integration: A Perspective: Digital Transformation in Contemporary Times A Panorama for Reshaping and Reimagining the future, **S.K. Bose**, ISBN 978-93-5545-098-2, September 2022
- Digital Transformation -Boon or A Curse: Digital Transformation in Contemporary Times A Panorama for Reshaping and Reimagining the future, Sampriti Phukan, by Namya Press ISBN 978-93-5545-098-2, September 2022
- Digitization Through SNS: Issues, Challenges, and Recommendations—A Case Study: Pattern Recognition and Data Analysis with Applications, Urmila Pilania, Rohit Tanwar Mamta Arora & Manoj Kumar, ISBN 978-981-19-1519-2, September 2022
- 41. The Role of Artificial Intelligence in the Education Sector: Possibilities and Challenges: Machine Learning, Blockchain, and Cyber Security in Smart Environments, Riya Aggarwal, Nancy Girdhar, **Alpana** ISBN 9781003240310, August 2022

d) h index and Scopus Publications of University

The total no. of research publications of university has increased to **607** from 583 as per Scopus database and University h index also increased to **35** from 33. The h-index graph is given below:

Publications of Students

Student Publications in Journals: 13

- Remodeling of a Jet Engine Mounting Bracket using Structural Analysis and Topology Optimization, Joginder Singh, Prateek Sachdeva, Rajendra Tiruwa, International Journal of Research, Volume XI, Issue XI, November/2022
- Virtual Analysis and Manufacturing of Flat Specimen of Carbon Fiber Composite for Computing Tensile Strength, Joginder Singh, M.R. Tyagi, Anshul Tripathi, Pritam Das, International Journal of Research, Vol. XI, Issue XI, November 2022



- Frequency and Static Structural Linear Analysis of Non-Flexible Pedestrian Iron Bridge by Simsolid Software, Joginder Singh, M.R. Tyagi, Sahil, Tushar Aggarwal, International Journal of Research, Volume XI, Issue XI, November/2022
- 4. Evolution of Blockchain: From Bitcoin Ethereum to Polkadot, **Aishvarj Gupta, Shruti Vashist & Meenakshi Gupta**, International Journal of Research, Vol. XI, Issue XI, November 2022
- 5. Detailed Study of Wine Dataset and its Optimization, Parneeta Dhaliwal, Suyash Sharma, Lakshay Chauhan, I.J. Intelligent Systems and Applications, 5, 35-46, October 2022
- Attosecond-XUV Pulse Generation using Laser-Based High-Harmonic Generation in Argon Gas, Shruti Gulihar, Sandeep Kumar, Mukesh Jewariya, The European Physical Journal Plus, 137, Article number: 851 (2022), July 2022
- 7. Interpretation of Gender Roles Projected in Children's Literature, Avni Bhatia, International Journal of Advances in Engineering and Management (IJAEM), Volume 5, Issue 4 April 2023, pp: 700-705, DOI: 10.35629/5252-0504700705.
- Tracking and Tackling Second Language Verbal Anxiety in Hindi EFL Students, Avni Bhatia, International Journal of Research Publication and Reviews, Vol 4, no 5, pp 622-627 May 2023, ISSN 2582-7421
- 9. Conflicts in Relationships with Respect to English Literature and Female Perspective, Deepali Kamal, Volume 11 Issue IV Apr 2023, ISSN: 2321-9653.
- 10. An Interstate Analysis of Seeing Like A Feminist (Nivedita Menon), Priya Singla, volume 4 issue 4 2023, international journal of research publication and reviews,. ISSN 2582-7421
- 11. METACOGNITION as a tool in classrooms, Priya Singla, IJRPR (international journal of research publication and reviews), volume 4 issue 5 2023, ISSN 2582-7421.
- 12. Emotional Abuse in Shashi Deshpande's "That Long Silence", Ishleen Kaur Bindra, Kajal Sharma, Sakshi Arora, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 2051-2053, ISSN: 2321-9653, Volume 11, Issue IV, DOI: https://doi.org/10.22214, April, 2023, ISSN: 2321-9653.
- 13. Happiness Index with a Comparative Study on India and Finland KajalSharma, Sakshi Arora International Journal of Research Publication and Review, May-2023, Volume 4, Issue 6, ISSN Number- 2582-7421

Student Publications in Conferences: 09

- Deep Anime Recommendation System: Recommending Anime Using Collaborative and Contentbased Filtering, Varun Prakash, Sagar Raghav, Shubham Sood, Mrinal Pandey, Mamta Arora in 2022 4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N), organized by Galgotias College of Engineering & Technology, Greater Noida, , DOI: 10.1109/ICAC3N56670.2022.10074101, March 2023
- Time Series forecasting of Agriculture Yield of Cotton with Regression Model Implementation, Neetu Agarwal, Susmita Ray, K.C Tripathi in 2022 OPJU International Technology Conference on Emerging Technologies for Sustainable Development (OTCON), DOI: 10.1109/OTCON56053.2023.10113947, May 2023
- Identifying Exoplanets Candidates with Machine Learning, Bhimavaram, Chaitanya Virmani, Ria Singhla, Priyanka Gupta & Hardeo Kumar Thakur in 7th International Conference on Microelectronics, Electromagnetics and Telecommunications organized by Shri Vishnu Engineering College for Women, https://doi.org/10.1007/978-981-19-8865-3_31, May 2023



- 4. Stack Tag Predicting the Stack Overflow Questions' Tags Using Gated Recurrent Unit Networks, Varun Prakash, Sagar Raghav, Shubham Sood, Mrinal Pandey & Mamta Arora in International Conference on Intelligent Systems Design and Applications virtually organized by Machine Intelligence Research Labs (MIR Labs), May 2023
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- An Optimized Hybrid Approach to Detect Cataract, Urmila Pilania, in 2022 IEEE Global Conference on Computing, Power and Communication Technologies, GlobConPT 2022 organized by India Habitat Centre, Lodhi Road, New Delhi (Sponsored by IEEE Industry Applications Society, USA, DOI: 10.1109/GlobConPT57482.2022.9938266, November 2022
- 9. Bridging the Gap Through Community connect: A Case Study of Desh Ke Mentor Programme, Aishwariya Mariyam Aji, Shristi Aishwariya Mariyam Aji, Shristi, presented in National conference and published as a book chapter in the book titled as Covid 19 Impactig Teaching Learning Scenario: Challenges, Threats, Opportunities ISBN 979-88-90660-18-3.



IPR Cell (Patent Filed/Published/Granted)

In the AY 2022-23, 2 new provisional patent applications have been filed by the faculty members, a total of 62 patent applications got published and 03 patent applications have been granted and 04 patent application got registration of design representing a wide spectrum of innovations and ideas generated within the community of faculty members and students.

The details are given below:

a) Filed Patent Application-02

S. No.	Title of Patent	Inventors Name	Application No.	Filing Date
1	A Method for Mitigating Corrosion Properties of Electrodes in Secondary Energy Storage Batteries	Pradeep K. Varshney, Harsha Devnani & Priya Garg	202211060626	23.10.2022
2	Al Based Vehicle Theft Prevention System	Drishti Uppal, Anish, Shivam Minz, Priyanka Gupta, Hardeo Kumar Thakur & Pradeep K. Varshney	202211051354	08.09.2022

b) Published Patent Application-62

S. No.	Title of Patent	Inventors Name	Application No.	Filing Date
1	The Composition for Increasing Flame Longevity and Reducing Camphor Volatility	Pradeep K. Varshney, Meena Kapahi, Abhishek Basoya, Mukul Raghav, Chandvi Sharma	202111061475	30.06.2023
2	TEATEST	Meena Kapahi, Roopa Rani, Kashish Kohli	202111061579	30.06.2023
3	Lead-Acid Battery Cell Reconfigurable Arrangement for Enhanced Battery Life	Yogita Khanna, Pradeep K. Varshney, Y K Awasthi, J.P. Sharma, Rudra Pratap, Aryan	202111061504	30.06.2023
4	Refrigeration Automation System	Charu Pathak, Shruti Vashist	202111061566	30.06.2023
5	The Impact of using Automation is Transforming the Supply Chain Industry	Prof. Dr. Nita H Shah, Dr. Neelam Sharma, Dr. Praveen B.M, Dr. Ankita Gaur, Dr. Seema Agarwal, Dr. Ajay Singh Yadav	202321026411 A	12.05.2023
6	Machine Learning and Wireless Sensor Networks Based Approaches for Analysis Environment Pollution on Smart Cities	Dr. Jaidev Kumar, Syed Rehan, Dr. Piyush Charan, Dr. Vishal kumar vaidya, Dr.Jadhav Sudam Shivajirao, Dr. Srinivasa Rao	202311016337 A	12.05.2023
7	Driver Less Vehicle Controlled by Using Voice	Dr. Shimpy Goyal, Richa Malhotra, Dr. Gagandeep Kaur, Nitika, Neetu Settia, Shivani Duggal, Varsha Gupta	202311013974 A	17.03.2023



8	Blockchain-Based Finance Tracking System and Method Thereof	Nidhi Tandon, Tapas Kumar, Mamta Arora	202311008208	17.02.2023
9	A Kind of Multi-Dimensional Data Analytical System Based on Business Object Dr. Ram Naresh Saraswat, Vinod Gill, Dr. Ruchi Gupta Kirti, Mr. Mukesh Kumar S		202311003702 A	27.01.2023
10	Solar Powered Sea Water Desalination Apparatus	Dr. Ajit Katiyar, Mr. Gianender Kajal , Ms. Pratibha Malik & Dr. Naveen Sharma	374692-001	20.01.2023
11	DIY Power Bank with Plasma Lighter	Anisha, Arko Bagchi, Vijay Kumar Gill, Chandni Maggo	202311000807	13.01.2023
12	Voice-Based Water Dispensing System and Method Thereof	Prerna Kakkar, Rajeev Kumar, Yogita Gupta, Priti Gupta	202311000810	13.01.2023
13	Anti-Theft System for Vehicle and Method Thereof	Vinay, Simple Sharma, Jyoti Pruthi, Gianender	202311000809	13.01.2023
14	Internet of Things (IOT) Based intravenous (IV) Fluid Monitoring and Alerting System and Method Pratima Manhas, Monika Garg, K. Deepa, Manpreet Kaur 2023		202311000806	13.01.2023
15	Student College Smart Card	Deepa Bura, Ramesh Chandra Sahoo, Prinima Gupta, Susmita Ray	202311000812	13.01.2023
16	Mobile Phone & Cash UV Disinfector for COVI	Sarvesh Kumar, Pardeep Kumar, Anshuman Sahai, Deepti Maikhuri	202311000811	13.01.2023
17	Image Forgery Detection System and Method Thereof	Kritika Taneja, Tanvi Gupta, Shruti Vashist, Sachin Lakra	202311000808	13.01.2023
18	Radio Frequency Identification (RFID) Based Travel Ticket Booking System and Method Thereof	Ashish Grover, Amrinder Kaur, R. Girija, Charu Jain	202311000813	13.01.2023
19	Automated System for Governing Traffic Lights	Geeta Nijhawan, Ashish Grover, Shruti Vashist, Lokesh Bhardwaj	202211075717	06.01.2023
20	IR Based Obstacle Detection For Load Switching Project	Amrinder Kaur, Amit Atri, Niharika Thakur, Yogita Gupta	202211075718	06.01.2023
21	Plant Soil Moisture Monitoring System and Method Thereof	Abhilasha Shourie, Vimlesh Singh, Meena Kapahi, Priti Gupta	202211075723	06.01.2023



22	Smart Burglar Alarm - Complete Patent Application	Sushant, Richa Adlakha, K. Deepa, Vijay Kumar Gill	202211075714	06.01.2023
23	System for Monitoring a Health and a Fuel Usage of a Vehicle and Method Thereof	Devendra Vashist, Gurpreet Singh, Piyush Mahendru, J. P. Sharma	202211075722	06.01.2023
24	Energy Monitoring System	Anita Khosla, Dinesh Chawla, Shruti Vashist, Charu Pathak	202211075715	06.01.2023
25	Smart Shopping Cart	Poonam Tanwar, K. Deepa	202211075721	06.01.2023
26	Sustainable Rotating Biological Contactor (SRBC)	Sadiqa Abbas, Shagufta Jabin, Meena Kapahi	202211075724	06.01.2023
27	Distance Pruning	Basanta Kumar Bhuyan, Rajender Kumar, Prashant Bhardwaj, Joginder Singh	202211075716	06.01.2023
28	Home Automation System using MQTT Protocol and ESP32	Savita Sindhu, Shefali Singhal, Niharika Thakur, Bhanu P. Choudhry	202211075725	06.01.2023
29	Water Heater Bottle	Nitin kumar Waghmare, Seema Mahto, Gianender, Ajit Katiyar	202211075719	06.01.2023
30	Water Health Monitoring System and Method Thereof	Sushant, Anupama Rajput, Roopa Rani	202211075726	06.01.2023
31	First Information Report (FIR) Lodge and Assistance System and Method Thereof	Krishan Kumar, Neha Gadhok, Jyoti Pruthi, Susmita Ray	202211076379	06.01.2023
32	A novel motor vehicle window pane closure detector	Gurpreet Singh, Devendra Vashist, J. P. Sharma, Bhanu P. Choudhry	202211076376	06.01.2023
33	System for Generating Alert Against Infectious Diseases and Method Thereof	Jyoti Verma, Kanchan Bhardwaj, Nitika Munjal, Meenakshi Gupta	202211076380	06.01.2023
34	Intelligent Security System for Bank Lockers	Rachna Behl, Shobha Tyagi, Manpreet Kaur, Chandni Maggo	202211076374	06.01.2023
35	Video Calling/Recording Smartphone Stand	Pronika, Geeta Nijhawan, Parneeta Dhaliwal, Hanu Bhardwaj	202211076378	06.01.2023
36	Home Air Quality Monitoring System Project	Yaman Hooda, Vishnu Raj, Ananna Bardhan, D.K. Sharma	202211076381	06.01.2023



37	Rain Sensing Automatic Car Wiper	Meeta Singh, Gurpreet Singh, Shruti Vashist, Yogita Khanna	202211069264	30.12.2022
38	Electronic Voting System using Blockchain	Abhiruchi Passi, Pratima Manhas, Sachin Lakra, Manpreet Kaur	202211069265	30.12.2022
39	Eye ball Sensor for automatic Wheel Chair for paralyzed patients	Manoj Nayak, Nitesh Malhotra, Niharika Thakur, Yogita Khanna	202211069266	30.12.2022
40	Android Smart Ticketing Using RFID	Parul Gandhi, Vimlesh Singh, Vijay Gill, Lokesh Bhardwaj	202211069261	30.12.2022
41	Ultrasonic Blind Walking Stick	Charu Virmani, Irshad Ahmad, Meenakshi Gupta, Bhanu Choudhary	202211069263	30.12.2022
42	Cancer Prediction System using Data Mining Techniques and Method Thereof	Tapas Kumar, Kanchan Bhardwaj, Agha Imran Hussain, Manoj Kumar	202211069262	30.12.2022
43	Solar Energy Based Multipurpose Agricultural Robotic Vehicle	Dain Thomas, Vimlesh Singh, Joginder Singh, Ajit Katiyar	202211072396	30.12.2022
44	Solar Panel Power Generation using ESP32	Dinesh Chawla, Ashish Grover, Ajit Katiyar, Jai Prakash Singh	202211072397	30.12.2022
45	Sound Enabled Polling Machine for Visually Challenged Voters and Method Thereof	Abhiruchi Passi, Manoj Nayak, Jyoti Pruthi, Manpreet Kaur	202211072393	30.12.2022
46	Biometric Student Attendance System App	Shobha Tyagi, Vimlesh Singh, Hanu Bhardwaj, Susmita Ray	202211072398	30.12.2022
47	Brain Tumor and Alzheimer's Detection Flutter App	Rashmi Rameshwari, Manisha Vashisht, Chandni Magoo, Susmita Ray	202211072394	30.12.2022
48	Smart Solar Grass Cutter with Lawn Coverage	Manoj Nayak, Ashish Grover, Jai Prakash Singh, Joginder Singh	202211072395	30.12.2022
49	Smart Mosquito Repellant Device	Abhiruchi Passi, Pratima Manhas, Yogita Gupta, Nitika Munjal	202211075713	30.12.2022
50	Remote Assisted Refrigerator Door Monitoring with IoT	Pankaj Shakkarwal, Neha Chaudhary, Yogita Gupta, Lokesh Bhardwaj	202211075720	30.12.2022
51	Intelligent and Portable Rain Water Harvesting Kit for	Prof. (Dr.) Hukam Singh, Dr. R. Girija, Varun Kumar Gera, Dr. S.L.	202211073374 A	30.12.2022



	Smart Gardens Based on Biconvlstm	Jayalakshmi, Ms. S.L. Jothi Lakshmi		
52	Horizontal Aerobic & Biodegradable Composting	Meena Kapahi, B.M. Bahl	317375-001	23.12.2022
53	System and Method for Product Identification For Visually Impaired Users	Tapas Kumar, Poonam Tanwar, Hanu Bhardwaj, Prinima Gupta	202211068867	02.12.2022
54	Orange Fruit Recognition System using Image Segmentation and Method Thereof	Neha Gupta, Indu Kashyap, Chandni Magoo, Sachin Lakra	202211068868	02.12.2022
55	Brain Tumor Detection Using Image Segmentation	Sabiha Imran, Sachin Sharma, Manpreet Kaur, Susmita Ray	202211068869	02.12.2022
56	Blockchain-Based Cloud File- Sharing System and Method Thereof	Charu Virmani, Shobha Tyagi, Prinima Gupta, Manoj Kumar	202211068870	02.12.2022
57	Position Based Attendance System (CN)	Rosy Madan, Srishty Jindal, Manoj Kumar, Agha Ram Hussain	202211068871	02.12.2022
58	Medical Assistance System and Method of Generating Reminders Using the Same	Savita, Nitasha Soni, Susmita Ray, Chandni Maggo	202211068865	02.12.2022
59	Voice Based Notice Board Using Android	Arko Bagchi, Tanu Dua, Jyoti Pruthi, Prinima Gupta	202211068866	02.12.2022
60	Fruit Harvesting Inchworm Robot	Dr. Ajit, Priyanka Gupta, S.N. Deepa, Rajakumar B.R., Binu Dennis,	202211057825 A	28.10.2022
61	Autonomous Blockchain based System for Generation and Delivery of Photographic Aadhaar linked Birth Certificates	Dr. Riya Sapra, Dr. Shraddha Arora, Dr. Parneeta Dhaliwal	202211058422 A	21.10.2022
62	Big Data and Machine Learning Based Approach for Wireless Network Resource Management	Dr. Senthil Kumar Kathiresan, Dr. Sri Hari Nallamala, Dr. Amit Singla, Dr. Vijendra Singh, Dr. Ankita Gaur, Dr. Ajay Singh Yadav	202241047440 A	26.08.2022



b) Granted Patent Application-03

S.No.	Title of Patent	Inventors Name	Application No.	Granted/Registration of Design Date
		Dinesh Singh, Shalu Singh, Purnendu Bikash		
	An IOT Based Swirling	Acharjee, Sushil Bhardwaj, Abinash Rath,		
1	Bath Shower System	Tripti Rani Borah, Bhupaesh Ghai, Indu	2022/03855	26.08.2022
	Batti Silowei System	Sharma, Surbhi Sharma, Ramesh Chandra		
		Panda		
		Jolly Masih, Dr. Abhishek Pandey, Abhay		
		Singh Lodhi, Dr. Narendra Ranga, Prof. Dr.		
	A Novel Cost Effective	Tirthankar Datta, Dr. Gufran Ahmad Ansari,		
2	Home Gardening	Dr. (Mrs) Dhanashri M. Tumme, Dr.	2022/04878	27.07.2022
	System	Narinder Kumar, Mr. Manohar Golait, Dr.		
		Meenakshi Awasthi, Dr. Mohd Ashaq, Dr.		
		Shalu, Prof. Ramesh Chandra Panda		
	Microcontroller Based	Prof. Ramesh Chandra Panda, Dr. Shalu,		
	Hydroponic System	Ms. Poonam Dhiman, Ms. Neha Saini, R	348854-001	08.07.2022
3	and Ultrasound Pump	Venkata Simhadri, KVS AKHIL, Bheri kalyan		
	Control Apparatus	Chakravarthy, B.Vasantha Lakshmi		

c) Registration of Design Patent Application-04

S.No.	Title of Patent	Inventors Name	Application No.	Registration of Design Date
1	Wearable Health Monitoring Jacket	Dr. Rajan Ethiraj Ugandar, Pushpraj Singh Rajawat, Mr. Zohaib Hasan Khan, Dr. Piyush Charan, Dr. Arunkumar Thangavel, Dr. Mohd Ahmer	UK Design Patent- 6287661	14.06.2023
2	Exhaust Fan with Air Filter	Prof. (Dr.) Parul Jhajharia, Dr. Pragati Chauhan, Yogita Sharma, Dr. Pooja Kapoor, Dr. Ashima Saxena & Dr. Priyanka Chadha & Venkatesh Bharti	Design Patent 365421-001	12.05.2023
3	A IoT Based Coagulation Analyzer	Shubhangi Pandurang Tidake, Rani Pandurang Tidake, Pritee Sagar Uttarwar Dr. Shalu, Prof.Ramesh Chandra Panda	356093-001	25.01.2023
4	Artificial Intelligence Based Skin Cancer Inspection Device	Dr. Shalu, Ms. Neha Saini, Prof. Ramesh Chandra Panda, Dr. P Karthigeyan	348302-001	09.12.2022



Technical and Research-Oriented Events Organized for Faculty and Students (July 2022 to June 2023)

To facilitate culture of innovation, learning, and research, MRU organizes a variety of technical and research-oriented events for both our esteemed faculty and students serving as platforms for knowledge exchange and skill enhancement. In the AY 2022-23, a total of 35 events have been organised related to Skill Development (21), Entrepreneurship (08), Intellectual Property Rights (02), and Research Methodology (04). The list of events related to Skill Development, Entrepreneurship, Intellectual Property Rights, and Research Methodology in the Academic Year 2022-23 is attached as **Annexure-3.3**.

S. No.	Department	Name of the Workshop/Seminar	Number of Participants	Date From – To
		Research Methodology		
1	Management & Commerce	One-Day Workshop on SPSS and AMOS for PhD Scholars	22	06-05-2023
2	Education & Humanities	Session on Research Methodology	62	15-02-2023
3	Management & Commerce	Three-Day Business Simulation Workshop	40	21-11-2022 to 23-11-2022
4	Management & Commerce	Problem Solving and Ideation Workshop	41	13-01-2023
		Intellectual Property Rights		
1	IPR Cell	One-Day Workshop on "IPR Awareness Session"	30	12- 01-2023
2	IPR Cell & CST	One-Day Workshop on "Youth and IPR: for a Better Future"	150	21-07-2023
		Entrepreneurship		
1	Management & Commerce	StartUp Conclave Dr. Yogita Sharma	48	10-11-2022
2	E-Cell	Quizander 2k23	60	24-04-2 023
3	E-Cell	Session on Encouraging Entrepreneurial Mindset in the youth	100	02-02-2023
4	E-Cell	Webinar on "Funding Winter- Not all Doom and Gloom"	100	31-01-2023
5	E-Cell	National Start-Up Day organized by BYST	80	17-01-2023
6	E-Cell	Webinar on Design Thinking	80	10-01-2023
7	E-Cell	Business Simulation Workshop	45	21-112022 to 24-11-2022
8	E-Cell	Sanrachna - E week	100	19-11-2022 to 25-11-2022
	1	Skill Development	1	1
One Day National Sym 1 Law Aspects of Forensics ii		One Day National Symposium: Practical Aspects of Forensics in Criminal Investigation	43	14-03-2023
2	Law	6 days Training program on Mediation	37	26-08-2022 to 27-08-2022; 02-09-2022 to 03-09-2022;



				09-09-2022 to
				10-09 2022
3	Law	National Conference on Juvenile Delinquency: Sociological and Psychological Perspective	55	28-04-2023
4	Law	Workshop on Forensic Science	58	12-04-2023
5	Education & Humanities	"Communication and Stress Management skills Enhancement for Aspiring Teachers"	100	24-02-2023
6	Education & Humanities	Creating an interactive and engaging educational website using Google Sites'	30	3-11-2022
7	Management & Commerce	"Encouraging Entrepreneurship Mindset in the Youth"	28	02-02-2023
8	Management & Commerce	Webinar in association with Her Money Talks and Bombay stock exchange	52	11-11-2022
9	Science (Physics)	Bacterial resilience from single cell to colony scale using Mathematical Models	22	13-01-2023
10	Sciences (Mathematics)	Python Programming Workshop	16	05-08-2022 to 06-08-2022
11	RCC	Capacity Building on Innovation	40	11-1-2023 to 21-01-2023
12	RCC	Web Week	28	07-8-2023 to 12-08-2023
13	RCC	APP Development Workshop	23	21-08-2023 to 25-08-2023
14	IIC	Workshop on Design Simulation for Prototype Development	47	10-12-2022
15	IIC	Robotics Workshop	38	21-11-2022 to 25-11-2022
16	IIC	Business Simulation Workshop	49	21-11-2022 to 23-11-2022
17	IIC	My Story- Motivational Session by Successful Entrepreneur/Start-up Founder: "Expert Talk by Successful Entrepreneur"	98	16-11-2022
18	IIC	My Story- Motivational Session by Successful Entrepreneur/Start-up Founder: Startup Conclave		10-11-2022
19	CST	Informative session on Cyber Shiksha Fundamentals	60	16-02-2023
20	CST	How to be corporate-ready from Day 1	109	26-07-2023
21	ECE	NITTTR WORKSHOP "Scilab programming for beginners"	36	24-07-2023 to 28-07-2023



Recognition Received for Outstanding Research Endeavors by Faculty and Students

Our institution has had the privilege of receiving noteworthy recognition for the outstanding research endeavors undertaken by both our dedicated faculty and talented students. Our institution has achieved a remarkable total of 51 research recognitions for our students and impressive 25 research recognitions for our esteemed faculty members (Annexure-3.4).

Recognitions won by faculty members: 25

S. No.	Deptt.	Date of Award	Details	Name of the Awardee	Name of the Awarding Agency with contact details
1	SMC	19-01-2023	Best Paper Presenter	Srishti Bathla	Amity University, Noida
2	SMC	17-01-2023	Start-up Mentor of the Year	Ms. Vandna Zutshi Bhat	Scope Convention Centre, Lodhi Road
3	SMC	20-01-2023	BYST mentor	Dr. Chand Prakash	International Conference on Global Business Strategies for Sustainability (GLOBUSS), Amity School of Business, Amity University, Noida
4	SMC	20-10-2022 to 21-10-2022	Session Chair, Certificate of Appreciation	Dr. Chand Prakash	KR Mangalam University, Gurugram
5	Education and Humanities	2023	Selected as Reviewer by UGC for reviewing the proposal invited under Dr. S. Radharkrishnan Post- Doctoral Fellowship Scheme	Dr. Savita Sharma	University Grant Commission
6	Education and Humanities	01-02-2023	Selected as Expert Reviewer for the manual on Sports Integrated Education developed by District Institute of Education and Training Karkardooma (SCERT- Delhi)	Dr. Savita Sharma	DIET (SCERT)
7	Education and Humanities	01-03-2023	Selected as mentor for the project under OER4BW project (UNESCO)	Dr. Savita Sharma	UNESCO
8	Education and Humanities	01-03-2023	Mentor to Ms. Lalita Mutreja for the project title "Gauging emotional intelligence using a live interface" under Hub Education-2 for OE4BW 2023	Dr. Rashee Singh	under Hub Education-2 for OE4BW 2023



9	Deptt. of Sciences Program Mathematics	09-12-2022 to 11-12-2022	Chaired the technical session in 6th International Conference of Recent Advances in Computational Mathematics and Applied Sciences (IC-RA-CMAS-2022)	Dr. Ruchi Gupta	Conference of Vijnana Parishad of India (VPI) organized by Department of Applied Sciences, Faculty of Engineering and Technology, MRIIRS,
10	CST	29- 01-2023	Best Paper Presentation Award	Ms. Gunjan Chandwani	Faridabad 5th International Conference on Communication and Computational Technologies (ICCCT 2023)
11	CST	29-09-2022	Guest Speaker at FDP on IEEE R10 EAC Funded Two Day Workshop on Outcome Based Education Framework & Preparing Institution for NBA SAR Filing	Dr. Sachin Lakra	MRU, IEEE
12	CST	17-12-2022	Young Researcher Award, 2022	Dr. Mamta Arora	STEM Research Society
13	CST	24-12-2022	Session Chair	Ms. Charoo Jain	PIET, Jaipur
14	CST	07-01-2022	Mentor	Dr. Mamta Arora	BYST
15	CST	19-01-2023	Professional Certification	Priyanka Gupta	Microsoft Azure
16	CST	12-01-2023	Professional Certification	Dr. Jyoti Pruthi	Scrom.org
17	CST	12-01-2023	Professional Certification	Dr. Hanu Bhardwaj	Scrom.org
18	CST	31-01-2023	Educator Award	Dr. Sanjay Singh	Google
19	CST	10-02-2023 to 11-02-2023	Reviewer Certificate	Dr. Mamta Arora	The National Institute of Engineering, Mysuru (Dept of ECE)
20	CST	30-01-2023 to 04-02-2023	Mentor Certificate	Dr. Mamta Arora	Sharda University
21	CST	11-11-2022	BVICAM' Coding Challenge 2022	Dr. R. GIRIJA	Bharatiya Vidyapeeth Institute of Computer Application and management (BVICAM).
22	CST	25-03-2023	Women Researcher Award	Dr. Alpana	5th Edition of Global Research Awards on Artificial Intelligence and Robotics
23	CST	16-1-2022 to	Project presentation in AGRANI, an International	Ms. Priyanka Gupta, Dr.	FGSI & NOSTC



		18-11-2022	Level Exhibition organized by FGSI & NOSTC , GOA	Ranjna Jain	
24	Sciences (Physics)	09-12-2022	Best Oral Presentation Award	Sciences (Physics Program)	International Conference on Futuristic Materials (ICFM-2022), MRU
25	Sciences (Chemistry)	02-01-2022	Selected as Expert Reviewer for the UGC Research Schemes	Dr. Meena Kapahi	UGC

Recognitions won by students: 51

S. Date of Date of Name of the Name of the Award						
No.	Deptt.	Award	Details	Awardee	with contact details	
140.		Awaiu	WIE Coordinator for IEEE	Simar Jyot Singh	with contact details	
1	CST	24-07-2022	Delhi SSN	,	IEEE	
				Narang		
	CCT	Secured AIR 217 in		A - h : C :	ALCTE LICC Coding Nining	
2	CST	12-08-2022	Innovative India coding	Ashwani Soni	AICTE-IICC Coding Ninjas	
			Championship			
			Secured AIR 206 in			
3	CST	12-08-2022	Innovative India coding	Yash Goel	AICTE-IICC Coding Ninjas	
			Championship			
			Three teams of RCC, MRU	Aniire,		
			CST Department had	Drishti Uppal,		
			qualified for HACKATHON	Shivam Minz, Anish,		
			3.0, Dehradun campus,	Harsh Kumar	Tenjin Technologies	
4	CST	05-08-2022	got the opportunity of	Vashisth, Tuhin		
4	CST	03-06-2022	online internship with	Tarafder, Harsh	CrossTower India Trading	
			Tenjin Technologies and	· ·	Private Limited.	
			offline internship with	Tejas Singh, Priyam		
			CrossTower India Trading	Garg, Mukul Sharma,		
			Private Limited.	Himanshu Pandey		
		23-12-2022	Bank Closing Price	Aman Singh,	Poornima Institute of	
5	CST	to	Prediction Using Deep	Basireddy Vamsidhar	Engineering & Technology,	
		24-12-2022	Learning Techniques	Reddy	Jaipur, Rajasthan	
		22.42.2022	Forecasting	T. C. W. H.	-	
	CCT	23-12-2022 Cryptocurrency Price		Teja Kolla,	Poornima Institute of	
6	CST	to	using Sequential and Time	Siddhartha Das	Engineering & Technology,	
		24-12- 2022	Series Model	Gupta, Ravi Yadav	Jaipur, Rajasthan	
		23-12-2022	Dikasia Dalas Duradiatian A	Teja Kolla,	Colootio University Const.	
7	CST	to	Bitcoin Price Prediction: A	Siddhartha Das	Galgotia University, Greater	
		24-12-2022	Deep Learning Approach	Gupta, Ravi Yadav	Noida	
			Deep Anime			
		16-12-2022	Recommendation System:		Calcula Callana (Fact	
8	CST	to	Recommending Anime	Shubham Sood	Galgotia College of Engineering,	
		17-12-2022	Using Collaborative and		Noida	
			Content-based Filtering			
		12-12-2022	Stack Tag - Predicting the	Varun Prakash, Sagar	A A colition to talk 112	
9	CST	to	Stack Overflow	Raghav, Shubham	Machine Intelligence Research	
		13-12-2022	Questions' Tags using	Sood	Labs (MIR Labs)	
	<u> </u>	_	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			



			Gated Recurrent Unit Networks		
10	CST	23-12-2022 to 24-12-2022	A Comparative Study on drowse Detection While Driving	Divyansh Kambhoj, Devansh Rao	Galgotia University, Greater Noida
11	CST	23-12-2022 to 24-12-2022	Weed Detection and Classification using Deep learning techniques: A Review	Akash Singh, Dinesh Khatana, Prateek	Galgotia University, Greater Noida
12	CST	16-12-2022 to 17-12-2022	Application of AI techniques for Face Mask Detection	Metrey Arora	Galgotia College of Engineering, Noida
13	CST	22-12-2022 to 23-12-2022	Chilly Leaf Classification Using Deep Learning Techniques	Chenchupalli Chathurya, Diksha Sachdeva	Poornima Institute of Engineering & Technology, Jaipur, Rajasthan.
14	CST	22-12-2022 to 23-12-2022	Fruit Leaf Classification Using Transfer Learning Technique	Taha Siddiqui, Surbhit Chopra	Poornima Institute of Engineering & Technology, Jaipur, Rajasthan.
15	CST		Finalists for the biggest Databricks Hackathon of the year: Data-O-Thon by Celebal Technologies	Khushi Arora	Celebal Technologies
16	CST	19-10-2022	Hacktoberfest 2022 Challenge (Hacktoberfest 2022 t-shirt or opt for a carbon-friendly tree in the DigitalOcean Forest planted in your name)	Abheer Mehrotra	Hacktoberfest
17	CST	19-10-2022	Hacktoberfest 2022 Challenge (Hacktoberfest 2022 t-shirt or opt for a carbon-friendly tree in the DigitalOcean Forest planted in your name)	Bhavesh Krishan Garg	Hacktoberfest
18	CST	19-10-2022	Hacktoberfest 2022 Challenge (Hacktoberfest 2022 t-shirt or opt for a carbon-friendly tree in the DigitalOcean Forest planted in your name)	Arsh Lakhina	Hacktoberfest
19	CST	19-10-2022	Hacktoberfest 2022 Challenge (Hacktoberfest 2022 t-shirt or opt for a carbon-friendly tree in the DigitalOcean Forest planted in your name)	Kunal Arora	Hacktoberfest
20	CST	19-10-2022	Hacktoberfest 2022 Challenge (Hacktoberfest 2022 t-shirt or opt for a carbon-friendly tree in	Kunal Arora	1"



			the DigitalOcean Forest planted in your name)		
21	CST	19-10-2022	Hacktoberfest 2022 Challenge (Hacktoberfest 2022 t-shirt or opt for a carbon-friendly tree in the DigitalOcean Forest planted in your name)	Khushi Arora	Hacktoberfest
22	CST	19-10-2022	Hacktoberfest 2022 Challenge (Hacktoberfest 2022 t-shirt or opt for a carbon-friendly tree in the DigitalOcean Forest planted in your name)	Swastik Vasistha	Hacktoberfest
23	CST	19-10-2022	Hacktoberfest 2022 Challenge (Hacktoberfest 2022 t-shirt or opt for a carbon-friendly tree in the DigitalOcean Forest planted in your name)	Sarthak Pant	Hacktoberfest
24	CST	19-10-2022	Hacktoberfest 2022 Challenge (Hacktoberfest 2022 t-shirt or opt for a carbon-friendly tree in the Digital Ocean Forest planted in your name)	Harsh	Hacktoberfest
25	CST	15-03-2023	Shortlisted for NewGenIEDC scheme for prototype development grant	Rehan Aziz	Manav Rachna University
26	CST	15-03-2023	Shortlisted for NewGenIEDC scheme for prototype development grant	Tuhin Tarafdar	Manav Rachna University
27	CST	2023	J.K Pal Memorial award	Khushi Kathuria	IEEE MRU
28	CST	2023	WIE COORDINATOR	SimarJyot Singh Narang	IEEE MRU
29	CST	2023	Outstanding Student Volunteer Award	Khushi Arora	IEEE MRU
30	CST	2023	Outstanding WIE Student Volunteer Award	Charu Goyal	IEEE MRU
31	CST	2023	Position 1	Rajat	INNOSKILL 2023
32	CST	2023	Position 2	Jai	INNOSKILL 2023
33	CST	2023	Position 1	Riya	INNOSKILL 2023
34	CST	April 2023	ACM International Collegiate Programming Contest (ICPC)	Ashwani Soni	All Indian Rank 104
35	CST	April 2023	ACM International Collegiate Programming	Pratyush Mishra	All Indian Rank 104



			Contest (ICPC)		
36	CST	April 2023	ACM International Collegiate Programming Contest (ICPC)	Dheeraj	All Indian Rank 104
38	CST	23-05-2023	3rd International Conference on Advance Computing and Innovative Technologies	Ms. Charu Goyal	Galgotias College of Engg. and Technologies
39	CST	April 2023	Hand Gesture Recognition in Indian Sign Language	Tuhin Trafdar, Harsh Vashisth, Rehan Aziz	MRIIRS
40	CST	April 2023	ROBORace Competition	Rajat, Krishna, Riya	MRIIRS
41	CST	April 2023	ROBORace Competition	Jai, Mukul Sharma, Adrian, Neha	MRIIRS
42	CST	Nov 2022	Manav Rachna Coin	Harsh Vasishth, Shivam Minz, Kolla Teja	FGSI & NOSTC
43	CST	March 2022	Robo Fire Extinguisher	Shivam Minz	IMS, Gaziabad
44	CST	2022	J.K Pal Memorial award	Mr. Anuj Singh Govind	IEEE Delhi Section
45	CST	2022	Outstanding Student Volunteer award	Gourav Vashisht	IEEE Delhi Section
46	CST	2022	WIE COORDINATOR"	Ms. Khushi Kathuria	IEEE Delhi Section
47	CST	2022	Outstanding WIE Student" Volunteer Award	Ms. Khushi Kathuria	IEEE Delhi Section
48	ECE	25-08-2022	Robotics Competition	Mr. Rudranand Sahu	e-Yantra competition ("hardware MOOC") organized by MoE's Innovation Cell, AICTE
49	Law	29-12-2022	Best Paper Presenter and Best Research Paper Award in the Conference	Akansha Tripathi	International Conference on the Role and Impact of Digital and Forensic Evidence in the Criminal Justice System in Delhi and Indian Society of International Law
50	RCC	16-11-2022 to 18-11-2022	Won Silver Medal in Project presentation in AGRANI	Shivam Minz, Kolla Teja, Harsh Vasishth	FGSI & NOSTC
51	RCC	04-08-2022	Awarded the Judge's Choice Award in UHACKATHON 3.0	Harsh Kumar Vashisth, Tuhin Tarafder, Harsh Chaudhary	UPES Dehradun Campus





Cultural Events and Activities Organized for the Students

The Department of Student Welfare (DSW) has consistently organized events that have positively impacted the student community. These events have not only enrich the academic journey but also promote cultural appreciation, artistic expression, and talent development among students. Nearly 48 cultural and sports events were organised by the DSW that span across various artistic domains, including dance, music, and poetry (Annexure-4.1).

S. No.	Name of the Event/Session	Date	No. of Students Attended/Participated
1.	Open the Board of Dialogue	29-07-2022	15
2.	Patriotic Saga (poetry, poster and essay competition)	16-08-2022	25
3.	Orientation 22	24-08-2022 to 30-08-2022	309
4.	Debate Competition	25-08-2022	27
5.	In Campus Photography	08-09-2022	51
6.	Tie and Run Event	15-09-2022	170
7.	Edude Festa 2K22 (Echelon fest participation)	23-09-2022	15
8.	Poster Making Competition	24-9-2022	28
9.	Stand-up Against Street Harassment	06-10-2022	200
10.	Get into e-Sports	3-11-2022	200
11.	zest 2K23 (Fest participation)	03-11-2022	19
12.	Scavenger Hunt	17-11-2022	25
13.	Session on Sexual Harassment at Work Place	10-12-2022	150
14.	Bharatiya Bhasha Diwas	11-12-2022	15
15.	Cooking Without Fire	10-01-2023	20
16.	Youth March	12-01-2023	60
17.	Talk Show	19-01-2023	50
18.	Republic Day Ceremony	26-01-2023	19
19.	Poster Making Competition on Health Awareness	02-02-2023	60
20.	Ankahe Alfaaz	16-02-2023	14
21.	Art Competition	16-02-2023	63
22.	The Corruption Chronicles: A Theatre Competition	23-02-2023	69
23.	Poetry Writing Competition	23-02-2023	85
24.	Noora's Participation in Zest 2k23	24-02-2023	13



25.	Essay Writing Competition	09-03-2023	60
26.	Slogan Writing Competition	23-03-2023	35
27.	Resurrection	27-03-2023 to 31-03-2023	131
28.	Debate Competition	06-04-2023	29
29.	Rangoli Making Competition	13-04-2023	28
30.	Reel Making Competition	04-05-2023	28
31.	Donate Blood Save Life	16-09-2023	400
32.	Ojasvi - Diwali Celebration	21-10-2023	54
33.	Khalbali Auditions	04-11-2023	12
34.	Rarefied: Poster & Slogan Competition	07-06-2022	150
35.	Nai Disha: Creative Writing Competition	16-10-2022	34
36.	Lekh: Poem Writing Competition on Sexual Harassment	08-12-2022	9
37.	Inspire: Poster Making Competition	08-12-2022	8
38.	Mann Ki Awaz: Speech Competition	08-12-2022	6
39.	Visual Competition: Videography	08-12-2022	4
40.	Poetry Writing Competition	01-06-2023	10
41.	Poster Making Competition	07-06-2023	10
42.	International Online Poem Competition on Say No to Plastics	15-08-2022	11
43.	Pledge for a Plastic Free Campus and Plastic Free Nation	15-08-2022	64
44.	Slogan Writing Competition on Fly Ash	30-08-2022	49
45.	Poster Making Competition	30-08-2022	52
46.	Nukkad Natak on Plastic Waste Menace	10-10-2022	8
47.	Ad-Mad Show	12-11-2022	20
48.	Jal Shakti Abhiyan with Two Competitions – Poster Making and Quiz	19-04-2023	48





Student Achievements in Cultural Activities

In the AY 2022-23, our students participated in a wide range of cultural and sports activities on interuniversity platforms and won many awards. Their accomplishments are summarized as follows:

Year	Name of the Award/Medal	Team/ Individual	Inter-university/State/ National/International	Name of the Event	Name of the Student/s
1	I Position	Team	Manav Rachna University	Ad-Mad Competition	Saksham Mittal
2	I Position	Team	Manav Rachna University	Poster Making Competition	Saksham Mittal
3	I Position	Individual	Manav Rachna Educational Institutions	INNOSKILL 2022	Saksham Mittal
4	II Position	Individual	Manav Rachna University	Ad-Mad Competition	Aastha
5	II Position	Individual	Manav Rachna University	Poster Making Competition	Shivika
6	I Position	Team	Manav Rachna University	Ad-Mad Competition	Shivika
7	II Runner up	Team	O.P. Jindal University, Sonipat	Global Finance Conclave	Abhijit Nair
8	I Position	Team	Manav Rachna University	Ad-Mad Competition	Abhijit Nair
9	III Position	Team	Manav Rachna University	Quizander	Abhijit Nair
10	I Position	Individual	Manav Rachna Educational Institutions	INNOSKILL 2022	Prabha Kothari
11	IV Position	Team	DAV Institute of Management	Inter-College Business Quiz	Ayush Tyagi
12	IV Position	Team	DAV Institute of Management	Inter-College Business Quiz	Saksham Mittal



Student Progression

The report aims to provide an overview of the status of student placement and their progression to higher studies for the AY 2022-23. A total of 198 students out of 428 (46.2%) have successfully secured employment opportunities in various reputed companies and organizations. Eight students have opted for higher studies. The highest placement package offered to a student in AY 2022-23 was 60 LPA, a testament to the quality of education and skills development imparted at the university. To present the status of student placement and progression to higher studies for the AY 2022-23 [Annexure-5.1].

S. No.	Passou t Year	Year of Placement	Name of Student Placed	Program Graduated From	Name of the Employer with Contact Details	Pay Package (INR/Annum)
1	2023	2022	Sakshi	M.Sc. Chemistry	Space Technology and Education Pvt. Ltd., Dwarka, New Delhi 110075	2
2	2023	2022	Shreya Adlakha	B.Sc. Chemistry	Soul Serfer, Gurugram 122011	3.5
3	2023	2023	Simran Mehra	M.Sc. Chemistry	Kaimfin Industries, Ballabgarh, Faridabad 121004	2.7
4	2023	2023	Allan George	BBA	Avanta Business Centre, New Delhi 110001	1.18
5	2023	2023	Hemant Sharma	BBA	Sambhav Engineering, Faridabad	1.8
6	2023	2023	Mansi	BBA	Au Small Finance Bank, New Delhi 110024	3
7	2023	2022	Aarzoo Gupta	B.Tech. (CSE)	British Telecom (BT), Gurugram	6.92
8	2023	2022	Aditi	B.Tech. (CSE)	Infozech Software Private Limited, New Delhi 110044	4
9	2023	2022	Akshat Arora	B.Tech. (CSE)	Capgemini	5.75
10	2023	2022	Aman Sharma	B.Tech. (CSE)	GlobalLogic Hitachi Nyati Unitree, Pune 411006	5.5
11	2023	2022	Ankit Sharma	B.Tech. (CSE)	Brillio	6
12	2023	2022	Ankush Verma	B.Tech. (CSE)	Avizva Solutions Private Limited, Gurugram - 122002, Haryana	6
13	2023	2022	Anuj Rawat	B.Tech. (CSE)	Brillio Technologies, Bangalore	6
14	2023	2022	Ayush Garg	B.Tech. (CSE)	TechMatrix, Noida	5
15	2023	2022	Devashish Basu	B.Tech. (CSE)	Coforge Ltd, Greater Noida (UP) - 201308, India	4.25
16	2023	2022	Gourav Vashisth	B.Tech. (CSE)	Prolifics, Hyderabad- 500081	6.5
17	2023	2022	Hitesh Mittal	B.Tech. (CSE)	Amadeus Software Labs Pvt. Ltd.,	11.77



					Bengaluru, Karnataka 560103	
18	2023	2022	Kuleen Chopra	B.Tech. (CSE)	Nokia Green, Noida, UP	6
19	2023	2022	Kunal Kukreja	B.Tech. (CSE)	ADP Private Limited, Hyderabad, Telangana - 500008	10.8
20	2023	2022	Lakshay	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
21	2023	2022	Lakshya Vats	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
22	2023	2022	Manish Gupta	B.Tech. (CSE)	Amadeus Labs, Bengaluru, Karnataka 560103	7.5
23	2023	2022	Mayank Bhatia	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
24	2023	2022	Pradeep Kumar	B.Tech. (CSE)	Ericsson India Pvt. Ltd, Meerut, Uttar Pradesh 250001	3.75
25	2023	2022	Rohit Aggarwal	B.Tech. (CSE)	Yamaha motor solution, Gr. Noida Distt. Gautam Budh Nagar (U.P.) India.	6
26	2023	2022	Sachin Sharma	B.Tech. (CSE)	Avizva Solutions Private Limited, Gurugram - 122002, Haryana	6
27	2023	2022	Sahil Jhangar	B.Tech. (CSE)	Futures First, Gurugram-122002, Haryana, India	12.11
28	2023	2022	Saurav	B.Tech. (CSE)	Ericsson India Pvt. Ltd, Meerut, Uttar Pradesh 250001	3.75
29	2023	2022	Shivam Tanwar	B.Tech. (CSE)	Axeno Consulting Private Limited, Noida, 201305 India	5.5
30	2023	2022	Uttam Kumar Gupta	B.Tech. (CSE)	Coforge Ltd, Greater Noida (UP) - 201308, India	4.25
31	2023	2022	Vaibhav Gaur	B.Tech. (CSE)	Legato Health technologies, Bengaluru, Karnataka – 560045	5.76
32	2023	2022	Yamini Sharma	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
33	2023	2022	Yash Sharma	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
34	2023	2022	Advitiya Sharda	B.Tech. (CSE)	Prolifics Prolifics Corporation Private Ltd., 14th Floor, Raheja Mindspace Hitech City Madhapur, Hyderabad – 500081, Telangana, India	4.25
35	2023	2022	Anish Ojha	B.Tech. (CSE)	Avizva Solutions Private Limited, Gurugram - 122002, Haryana	6



36	2023	2022	Bhavesh Adlakha	B.Tech. (CSE)	Crowe Horwath LLP, Noida, Uttar Pradesh 201309	5
37	2023	2022	Bhrigu Bajaj	B.Tech. (CSE)	Zimyo HR Software, Gurugram, Haryana 122003	4.8
38	2023	2022	Deepanshu Thakur	B.Tech. (CSE)	GlobalLogic, Noida, Uttar Pradesh 201304	5.5
39	2023	2022	Gautam Suri	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
40	2023	2022	Himanshu Vashishth	B.Tech. (CSE)	Intellect Partners Consulting LLP, New Delhi 110018, India	4
41	2023	2022	Jiya Bhatia	B.Tech. (CSE)	Avizva Solutions Private Limited, Gurugram - 122002, Haryana	6
42	2023	2022	Manan Mathur	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
43	2023	2022	Manvi Arora	B.Tech. (CSE)	Legato Health technologies, Bengaluru, Karnataka – 560045	5.76
44	2023	2022	Md Raunak Ansari	B.Tech. (CSE)	Coforge Ltd, Greater Noida (UP) - 201308, India	4.25
45	2023	2022	Naman Gupta	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
46	2023	2022	Nipun Gera	B.Tech. (CSE)	Axeno Consulting Pvt Ltd Noida, Uttar Pradesh 201305	5.5
47	2023	2022	Pranav Thakur	B.Tech. (CSE)	UOLO, Gurugram, Haryana 122003	4.25
48	2023	2022	Pratyush Sharma	B.Tech. (CSE)	Cloudsufi India Private Limited, Noida, Uttar Pradesh 201031	6
49	2023	2022	Prince Ojha	B.Tech. (CSE)	Credex technology Noida sector 62	5
50	2023	2022	Rakhi Jha	B.Tech. (CSE)	ADP Private Limited, Hyderabad, Telangana - 500008	9
51	2023	2022	Saksham Kashyap	B.Tech. (CSE)	Axeno Consulting Private Limited, Noida, Uttar Pradesh 201305	5.5
52	2023	2022	Sanchit Bajaj	B.Tech. (CSE)	Techcurators Private Limited, New Delhi-110049	4.25
53	2023	2022	Sanjeev Kumar	B.Tech. (CSE)	Uno Minda Ltd, Gurgaon, Haryana- 122004	4.81
54	2023	2022	Satvik Bareja	B.Tech. (CSE)	Infozech Software Pvt. Ltd., New Delhi 110044	4
55	2023	2022	Swati Nautiyal	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	5.75
56	2023	2022	Tushar Juneja	B.Tech. (CSE)	Ericsson India Pvt. Ltd, Meerut, Uttar Pradesh 250001	3.75



57	2023	2022	Venna Amareswara Reddy	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
58	2023	2022	Yogesh Arora	B.Tech. (CSE)	MAQ Software	7.5
59	2023	2022	Aakif	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	6
60	2023	2022	Aayush Kumar Singh	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
61	2023	2022	Aniket Ray	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
62	2023	2022	Anjani Pandey	B.Tech. (CSE)	Celebal Technologies, Noida, Uttar Pradesh 201305	6.5
63	2023	2022	Ashish Alichen	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
64	2023	2022	Ashutosh	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
65	2023	2022	Chetna Batra	B.Tech. (CSE)	Prolifics, Pune, Maharashtra 411009	4.25
66	2023	2022	Deepak Kumar Jaisawal	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
67	2023	2022	Devansh Rao	B.Tech. (CSE)	Tata Consultancy Services, New Delhi - India	7
68	2023	2022	Gaurav Arya	B.Tech. (CSE)	Physics Wallah Pvt. Ltd., Noida, Uttar Pradesh 201309.	5
69	2023	2022	Gautam Negi	B.Tech. (CSE)	Infozech Software Private Limited, New Delhi, Delhi 110044	4
70	2023	2022	Harkirat Bhurji	B.Tech. (CSE)	SK Global Impex, New Delhi, Delhi 110015	4.8
71	2023	2022	Ishika Kataria	B.Tech. (CSE)	Intellect Partners Consulting LLP, New Delhi 110018, India	4
72	2023	2022	Jatin Goyal	B.Tech. (CSE)	Noventiq, Noida, Uttar Pradesh 201305	3.5
73	2023	2022	Jatin Jain	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
74	2023	2022	K Komal	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	6.92
75	2023	2022	Kajiman	B.Tech. (CSE)	Legato Health Technologies,	5.76



			Lawati		Gurugram, Haryana 122016	
76	2023	2022	Kartik Sachdeva	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
77	2023	2022	Kartik Sahani	B.Tech. (CSE)	Cloudsufi India Private Limited, Noida, Uttar Pradesh 201031	6
78	2023	2022	Malika Malika	B.Tech. (CSE)	NOKIA, Noida, Uttar Pradesh 201305	6
79	2023	2022	Maneet Singh	B.Tech. (CSE)	Credex, Noida, Uttar Pradesh 201309	5
80	2023	2022	Prerna Rajput	B.Tech. (CSE)	Avizva Solutions Private Limited, Gurugram - 122002, Haryana	6
81	2023	2022	Prince Pandey	B.Tech. (CSE)	Magic Ed tech, Noida, 201303.	6
82	2023	2022	Rachit Arora	B.Tech. (CSE)	Noventiq, Noida, Uttar Pradesh 201305	4
83	2023	2022	Ritik Kwatra	B.Tech. (CSE)	HCL Technologies, Noida, Uttar Pradesh 201303	4.25
84	2023	2022	Roman Ojha	B.Tech. (CSE)	NOKIA, Noida, Uttar Pradesh 201305	6
85	2023	2022	Shiv Samantaray	B.Tech. (CSE)	ACPL systems Pvt Ltd, Gurugram, Haryana 122018	4.25
86	2023	2022	Shivam Minz	B.Tech. (CSE)	NOKIA, Noida, Uttar Pradesh 201305	6
87	2023	2022	Shivam Thakur	B.Tech. (CSE)	Axeno Plot 111, Riana Towers, Sector 136, Noida, Uttar Pradesh 201305	5.5
88	2023	2022	Siya Sharma	B.Tech. (CSE)	NOKIA, Noida, Uttar Pradesh 201305	6
89	2023	2022	Swastik Rai	B.Tech. (CSE)	KPMG India Gurgaon, Haryana	6
90	2023	2022	Tushar Grover	B.Tech. (CSE)	Prolifics, Pune, Maharashtra 411009	6.92
91	2023	2022	Ujwal Garg	B.Tech. (CSE)	Legato Health Technologies, Bengaluru, Karnataka – 560045	5.76
92	2023	2022	Vasu Tanwar	B.Tech. (CSE)	Hanu Software Solutions, Greater Noida, Uttar Pradesh 203202	6
93	2023	2022	Yash Goel	B.Tech. (CSE)	Ex Squared Solutions Pvt Ltd. , Faridabad, Haryana 121003	9
94	2023	2022	Yashasvi Bhatnagar	B.Tech. (CSE)	Coforge Ltd, Greater Noida (UP) - 201308, India	4.25
95	2023	2022	Yatin Narula	B.Tech. (CSE)	S&P Global, Gurugram, Haryana 122002	9
96	2023	2022	Shivangi Jaitly	B.Tech. (CSE)	E) Coforge Ltd, Greater Noida (UP) - 201308, India 4.2	
97	2023	2022	Abhinn	B.Tech. (CSE)	HCL Technologies, Noida, Uttar Pradesh 201303	4.25



			,	T		
98	2023	2022	Anish Bansal	B.Tech. (CSE)	Nagarro Software, Gurugram, Sarhol, Haryana 122015	4.5
99	2023	2022	Archita Paul	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
100	2023	2022	Arjun Kanojia	B.Tech. (CSE)	Avizva Solutions Private Limited, Gurugram - 122002, Haryana	6
101	2023	2022	Aryaman Jayaswal	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
102	2023	2022	Deepanshu Sharma	B.Tech. (CSE)	ÉQUIPESANTÉ INC	30
103	2023	2022	Hardik Arora	B.Tech. (CSE)	Crisp Analytics Private Limited, Noida, Uttar Pradesh 201307	8
104	2023	2022	Keshav Thakur	B.Tech. (CSE)	Trilyo, Bengaluru, Karnataka 560095	23
105	2023	2022	Lokdeep Saluja	B.Tech. (CSE)	Cross Skills, New Delhi, Delhi 110017	10
106	2023	2022	Mohita Dalal	B.Tech. (CSE)	Insight Unit F2, Greater Noida, UP- 201308	6
107	2023	2022	Nvya Dhariwal	B.Tech. (CSE)	Cloudsufi India Private Limited, Noida, Uttar Pradesh 201031	6
108	2023	2022	Rishab Chaudhary	B.Tech. (CSE)	British Telecom, Gurugram , Haryana 122010	6.92
109	2023	2022	Rohit Tandon	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
110	2023	2022	Satvik Mittal	B.Tech. (CSE)	HCL Technologies, Noida, Uttar Pradesh 201303	4.25
111	2023	2022	Sayam Sobti	B.Tech. (CSE)	Xebia Manav Rachna University, Faridabad, Haryana-121004	6.49
112	2023	2022	Shikhar Kapasia	B.Tech. (CSE)	HCL Technologies, Noida, Uttar Pradesh 201303	4.25
113	2023	2022	Shubham Yadav	B.Tech. (CSE)	Vinove Software & Services Pvt. Ltd, Gurugram, Haryana 122003	6
114	2023	2022	Abhishta Singh	B.Tech. (CSE)	Nokia Solutions Networks India, Noida –201301, Uttar Pradesh, India	6
115	2023	2022	Aditi Singhal	B.Tech. (CSE)	ADP Private Limited, Hyderabad, Telangana - 500008	6
116	2023	2022	Aman Singh Chauhan	B.Tech. (CSE)	Nokia Solutions Networks India, Noida –201301, Uttar Pradesh, India	6
117	2023	2022	Ananya Kamra	B.Tech. (CSE)	Palo Alto Networks, Bengaluru, Karnataka 560093	54
118	2023	2022	Bhavya Ratra	B.Tech. (CSE)	Hanu Software Solutions, Greater Noida, Uttar Pradesh 203202	6



119	2023	2022	Bony Vincent	B.Tech. (CSE)	KPMG Building No.10, 8th Floor, Tower B, DLF Cyber City,Gurgaon	6
120	2023	2022	Harsh Bhardwaj	B.Tech. (CSE)	Techmatrix, Noida, Uttar Pradesh 201031	5
121	2023	2022	Isha Kaushik	B.Tech. (CSE)	Cloudsufi India Private Limited, Noida, Uttar Pradesh 201031	6
122	2023	2022	Khushi Kathuria	B.Tech. (CSE)	Cloudsufi India Private Limited, Noida, Uttar Pradesh 201031	6
123	2023	2022	Kolla Teja	B.Tech. (CSE)	AIW Works Pvt Ltd, Gurugram – 122018	19
124	2023	2022	Mayank Saxena	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
125	2023	2022	Ravi Yadav	B.Tech. (CSE)	Avizva Solutions Private Limited, Gurugram - 122002, Haryana	6
126	2023	2022	Ria Singhla	B.Tech. (CSE)	MAQ Software, Noida	7.5
127	2023	2022	Richa Aggarwal	B.Tech. (CSE)	Ex Squared Solutions Pvt Ltd. , Faridabad, Haryana 121003	9
128	2023	2022	Rishiwar Asija	B.Tech. (CSE)	Nokia Solutions Networks India, Noida –201301, Uttar Pradesh, India	6
129	2023	2022	Sarthak Bajaj	B.Tech. (CSE)	Cloudsufi India Private Limited, Noida, Uttar Pradesh 201031	9
130	2023	2022	Siddhartha Das Gupta	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
131	2023	2022	Ujjwal Chauhan	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
132	2023	2022	Vaibhav Singh	B.Tech. (CSE)	HCL Technologies, Noida, Uttar Pradesh 201303	4.25
133	2023	2022	Varun Bhadana	B.Tech. (CSE)	Comviva, Gurugram-122102,Haryana	3.75
134	2023	2022	Sonali Singh	B.Tech. (CSE)	Nokia Solutions Networks India, Noida –201301, Uttar Pradesh, India	6
135	2023	2023	Ayush Gupta	B.Tech. (CSE)	HCL Technologies, Noida, Uttar Pradesh 201303	4.25
136	2023	2023	Rudra Kant Verma	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
137	2023	2023	Sarthak Rastogi	B.Tech. (CSE)	Space and Time Labs, Newport Beach, California, United States	55
138	2023	2022	Karan Aditya Goshal	B.Tech. (CSE)	KPMG Canada	60
139	2023	2023	Ankit Pandey	B.Tech. (CSE)	Genpact Noida	7.5



140	2023	2023	Rishabh Garg	B.Tech. (CSE)	Entrepreneurship BOBBY VIDEO WORLD, https://www.bharatsignage.com/	
141	2023	2023	Milan Nain	B.Tech. (CSE)	VVPL	4
142	2023	2023	Aditi Sharma	B.Tech. (CSE)	Axtria India private limited, Gurugram-122002, Haryana	5
143	2023	2023	Rahul Raghav	B.Tech. (CSE)	My Social Fox Faridabad	10.00
144	2023	2023	Harsh mittal	B.Tech. (CSE)	Techcurators, New Delhi-110049	3.50
145	2023	2023	Nishant Singh	B.Tech. (CSE)	Capgemini Technology Services India Limited, Navi Mumbai 400708, Maharashtra, India.	4.25
146	2023	2023	Kautilya Bhardwaj	B.Tech. (CSE)	Ex Squared Solutions Pvt Ltd. , Faridabad, Haryana 121003	4.2
147	2023	2023	Soumyadeep Manna	B.Sc. (H) Physics	Hike Education Private Limited, Gurugram, Haryana 122016	5.82
148	2023	2023	Muskan Malhotra	M.Sc. Physics	Space Technology and Education Pvt. Ltd., New Delhi, Delhi 110075	4.2
149	2023	2023	Khushbu Rawat	M.Sc. Physics	Exploring Infinities Edtech Pvt. Ltd. Hyderabad, Telangana 500018	4.5
150	2023	2022	Divya Bisht	B.Com. LL.B.(Hons.)	Lawrato	4.8
151	2023	2022	Shanu Aggarwal	B.Com. LL.B.(Hons.)	Lawrato	4.8
152	2023	2022	Divya Mishra	BA LL.B.(Hons.)	Intygrat Law Offices	2.4
153	2023	2022	Kartik Sharma	BBA LL.B.(Hons.)	Intygrat Law Offices	2.4
154	2023	2022	Harshita	B.Com. LL.B.(Hons.)	Intygrat Law Offices	2.4
155	2023	2023	Avishi Garg	B.Ed.	Mris Central Team	3.6
156	2023	2023	Swati Mishra	B.Ed.	Mount Columbus School	2.5
157	2023	2023	Himanshi Arora	B.Ed.	MRIS-21C	3.6
158	2023	2023	Naresh Sharma	B.Ed.	ST. Giri Public School	3.36
159	2023	2023	Rumie Goyal	B.Ed.	Adarsh Model Public School	2.5
160	2023	2023	Poorav Panchal	B.Tech. (ECE)	Brillio Technologies Pvt. Ltd.,	6
161	2023	2023	Ayush Kumar Jha	B.Tech. (ME)	ADP Private Limited, Hyderabad, Telangana - 500008	4.5
162	2023	2023	Karan Chaudhary	B.Tech. (ME)	JBM, Gurgaon, Harayana-122003	6.5



163	2023	2023	Lakshay Sharma	B.Tech. (ME)	Carrier Airconditioning and Refrigeration Ltd., Gurugram Haryana , 122004	3.98	
164	2023	2023	Mandeep Singh	B.Tech. (ME)	Lutron GL Sales & Services Pvt Ltd India, Gurugram Haryana, 122004	5.24	
165	2023	2023	Nishant Dwivedi	B.Tech. (ME)	Lutron GL Sales & Services Pvt Ltd India, Gurugram Haryana , 122004	5.24	
166	2023	2023	Pritam Das	B.Tech. (ME)	JTEKT India, Gurugram - 122 001, Haryana, India.	3.8	
167	2023	2023	Vinay Vats	B.Tech. (ME)	ADP Private Limited, Hyderabad, Telangana - 500008	4.5	
168	2023	2023	Divija Sekhri	B.Sc. (H) Mathematics	Ernst & Young	5.36	
169	2023	2023	Shrey Bisht	B.Sc. (H) Mathematics	SPACE GROUP	4.2	
170	2023	2023	Vishal Jain	BBA	Zion Express Cargo Pvt. LTD. Navi Mumbai – 400614.	3.66	
171	2023	2023	Mayank Batra	BBA	Asco Industrial, New Delhi -110006	06 1.68	
172	2023	2023	Hardik Bhatia	BBA	VASUNDHRA ENTERPRISES New Delhi 110005	6.3	
173	2023	2023	Anil Nagpal	BBA	HIND PLASTICS 2A/1, B.P., NIT Faridabad 121001 (Hr)	6.12	
174	2023	2023	Jalaj Gupta	BBA	M/s Jalaj Trading Co., Ballabgarh- 121004	1.2	
175	2023	2023	Vivek Sharma	BBA	Amazon Development Centre (India) Private Limited Bangalore - 560 055. Karnataka India	4.51	
176	2023	2023	Himanshu Mishra	BBA	Lucky Mannequins.in New Delhi- 110024, Delhi, India	4	
177	2023	2023	Riya Chauhan	B.Sc. B.Ed.	MRIS Sector-14, Faridabad	4.2	
178	2023	2023	Kajal Mudgal	B.A. B.Ed.	Employee Pooling Resources	2.4	
179	2023	2023	Ritul Kondal	B.A. B.Ed.	Heights INC	2.75	
180	2023	2023	Anmol Behl	B.A. B.Ed.	Muni International School	2.4	
181	2023	2023	Sakshi Arora	B.A. B.Ed.	G.D Goenka World School	2.4	
182	2023	2023	Avni Bhatia	B.A. B.Ed.	Manav Rachna University	3	
183	2023	2023	Muskaan Aggrawal	B.A. B.Ed.	Radiant Public Sr Sec School	2.5	
184	2023	2023	Kasak Rathi	B.Sc. B.Ed.	d. Arwachin Bharti School		
185	2023	2023	Tripti Sharma	B.Sc. B.Ed.	Faridabad Model School	3	



186	2023	2023	Nishika Chauhan	B.A. B.Ed.	Kundan Global School	2.16
187	2023	2023	Chavi Sharma	B.A. B.Ed.	ATC Infocom Solutions PVT LTD	2.16
188	2023	2023	Pragya Sharma	B.Ed Special Education	MRIS-14	4.2
189	2023	2023	Nikita Vats	B.Ed Special Education	Shiksha Bharti Global School	3.5
190	2023	2023	Khushi Goswami	B.Ed Special Education	KR Mangalam World School	5
191	2023	2023	Avishi Garg	B.Ed.	MRIS CENTRAL TEAM	3.6
192	2023	2023	Swati Mishra	B.Ed.	Mount Columbus School	2.5
193	2023	2023	Himanshi Arora	B.Ed.	MRIS-21C	3.6
194	2023	2023	Kirti Sharma	B.Ed.	Blue Angels Global School	3.6
195	2023	2023	Naresh Sharma	B.Ed.	ST. Giri Public School	3.36
196	2023	2023	Rumie Goyal	B.Ed.	Adarsh Model Public School	2.5
197	2023	2023	Muskan Saini	B.Ed.	GD Goenka Public School	2.64
198	2023	2023	Tanya Kaur	B.Ed.	Amity International	3.6

Student Progression to Higher Studies

S. No.	Name of student enrolling into higher education	Roll No.	Year of Admission	Program graduated from	Name of institution admitted to	Name of programme admitted to
1	Mukul Nagar	2K20MCUN02015	2023	BBA FAA	Deakin University	Master of Professional Accounting
2	Simmi	2K20MCUN02022	2023	BBA FAA	Lambton College	Business Management
3	Reetika Tyagi	2K19CSUN01049	2023	B.Tech (CSE)	Birla Institute of Management Technology (BIMTECH), Greater Noida	Post Graduate Diploma in Management (PGDM)
4	KANISHK SHARMA	2K19CSUN01025	2023	B.Tech. (CSE)	The Ohio State University	MS
5	CHAITANYA VIRMANI	2K19CSUN04009	2023	B.Tech. (CSE)	RMIT University	Master in data Science
6	Soumyadeep Manna	2K20PHUN01003	2023	B.Sc. (H) Physics	IGNOU University	M.Sc. Physics
7	Saksham Arora	2K20PHUN01001	2023	B.Sc. (H) Physics	NIT Kurushetra	MCA
8	Dheeraj	2K20MCUN04001	2023	вва ом	UPES, Dehradun	МВА





Faculty Development Programs/STC/Orientation/Refresher/Conferences/ Workshops organized

S. No.	Department	Title of the professional/ administrative development program organized for the teaching staff/ non-teaching staff	No. of participants	Date
1	EDUCATION	Training session on EBSCO Full Text Education & Teacher Reference	41	22-05-2023
2	MANAGEMENT & COMMERCE	Business Innovation, Transformation, Sustainability: Changing Global Paradigm' 2023 (BITS-2023)	64	28-04-2023 to 29-04-2023
3	ECE	STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	15	05-12-2022 to 09-12-2022
5	Sciences (Chemistry)	2nd International Conference on Green & Sustainable Chemistry	88	17-11-2022 to 19-11-2022
6	Sciences (Physics)	International Conference on Futuristic materials ICFM-2022	100	08-12-2022 to 09-12-2022
9	CST	Xebia Orientation Program 2022	4	20-10-2022
10	CST	Distinguished Seminar Series on Computational Techniques for Gait Profiling in Children with Cerebral Palsy for Rehabilitation" & "Advancement and Current Trends in Autism Spectrum Disorder using Artificial Intelligence	50	14-10-2022
11	CST	Introductory Workshops on Latest Technical Domains	80	10-10-2022 to 19-10-2022
12	CST	Distinguished Seminar Series on Risk and Behaviour Assessment of Indian Traffic	47	15-09-2022
13	Law	National Conference on Juvenile Delinquency- psychological and socio-legal perspectives	42 Presentees 150 Participants	28-04-2023
14	Law	Mediation Training Program	35	Dates: 26-08-2022 27-08-2022 02-09-2022 03-09-2023 09-09-2023 10-09-2023
15	Law	One-day National Symposium on "Practical aspects of forensic in criminal investigation"	50	14-03-2023
16	Law	One-day National workshop on "Recent legal and regulatory issues in infrastructure laws in India"	100	20-02-2023
17	Law	Online Workshop on Intellectual Property Rights (IPR); Patents and Design Filling.	140	17-06-2022





Faculty participation in both external and internal Faculty Development Programs/STCs/ Orientation/Refresher/Conferences/ Workshops (July 2022 to June 2023)

As a testament to the commitment of our esteemed faculty to their continuous improvement, the following faculty members actively participated in a spectrum of development opportunities, both internal and external. These engagements include Faculty Development Programs (FDPs), Short-Term Courses (STCs), Orientations, Refresher Courses, Conferences, and Workshops, showcasing the dedication of our faculty members to stay at the forefront of education and research.

Department	Name of teacher who attended the program	Title of the program	Date From – To
ECE	Du Dirwah Changa	FDP on Decoding Tax on Salary under NEW TAX REGIME	05-05-2023
ECE	Dr. Piyush Charan	STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	05-12-2022 to 09-12- 2022
ECE	Mr. Bhanu Partap	STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	05-12-2022 to 09-12- 2022
ECE	Dr. Charu Pathak	STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	05-12-2022 to 09-12- 2022
ECE	Dr. K. Deepa	STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	05-12-2022 to 09-12- 2022
ECE	Dr. Meenakshi Gupta	STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	05-12-2022 to 09-12- 2022
145	Mr. Nazish Ahmed	STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	05-12-2022 to 09-12- 2022
ME	Shamsi	FDP on Modern Manufacturing in Industry 4.0	07-02-23 to 12-02- 2023
ECE	Dr. Niharika Thakur	STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	05-12-2022 to 09-12- 2022
ECE	Dr. Shruti Vasisht	STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	05-12-2022 to 09-12- 2022
ECE	Mr. Vijay Gill	STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	05-12-2022 to 09-12- 2022
ECE	Vijenderpal Singh	STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	05-12-2022 to 09-12- 2022
ECE	Dr. Yogita Khanna	STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	05-12-2022 to 09-12- 2022



Sciences(Maths)	Dr. Ruchi Gupta	FDP on Innovative Technologies for Village Development	30-01-2023 to 03-02- 2023
Sciences(Maths)	Ms. Seema Aggarwal	FDP on Innovative Technologies for Village Development	30-01-2023 to 03-02- 2023
Sciences(Maths)	Dr. Ramapati Maurya	FDP on Innovative Technologies for Village Development	30-01-2023 to 03-02- 2023
Sciences(Maths)	Dr. Bhawna Singla	FDP on Recent Trends in Artificial Intelligence& Cyber Security	01-11-2022 to 05-11- 2022
Sciences(Maths)	Dr. Y K Sharma	Workshop on Applicable Mathematics for Science and Engineering - Recent Advances (AMSE - 2023)	16-02-2023 to 20-02- 2023
Sciences(Maths)	Dr. Deepa Arora	FDP on Transforming Higher Education for the New Globalized World: International Perspective	27-06-2022 to 02-07- 2022
Sciences(Maths)	Dr. Aparna Vyas	FDP on Transforming Higher Education for the New Globalized World: International Perspective	27-06-2022 to 02-07- 2022
Sciences (Chemistry)	Dr. Jaya Tuteja	FDP on "Chemistry and Biology Interface for Scientific Transformations"	27-06-2022 to 02/07/2022
Sciences (Chemistry)	Dr. Priti Gupta	FDP on Transforming Higher Education for the New Globalized World: International Perspective	27-06-2022 to 02-07- 2022
Sciences (Physics)	Dr. Aditya Sharma	FDP on Transforming Higher Education for the new globalized world: International perspective	27-06-2022 to 02-07- 2022
Sciences (Physics)	Dr. Ananna Bardan	FDP on Transforming Higher Education for the new globalized world: International perspective	27-06-2022 to 02-07- 2022
Sciences (Physics)	Dr. Moditma	FDP on Matlab & Simulink	03-07-2023 to 07-07- 2023
Sciences (Physics)	Dr. Shiv Kr. Dixit	AICTE Recognized Faculty Development Programme UHV	25-07-2022 to 29-07- 2022
Sciences (Physics)	Dr. Dinesh Kr. Sharma	AICTE Recognized Faculty Development Programme on UHV	10-10-2022 to 14-10- 2022
Sciences (Physics)	Dr. Shiv Kr. Dixit	FDP on Transforming Higher Education for the new globalized world: International perspective	27-06-2022 to 02-07- 2022
Management & Commerce	Ma Vhushaa Cul-ti	Workshop on Mixed Method and Research Ethics at Research Solutions group	09-01-2023 to 14-01- 2023
	Ms Khusboo Gulati	Workshop on Microsoft Excel at MRIRS	03-04-2023 to 07-04- 2023
Sciences (Physics)	Dr. Deepti	STC on Challenges and Opportunities in VLSI Design	25-07-2022 to 29-07- 2022



		STC on Nano electronics Devices and Circuit Design	22-08-2022 to 28-08 2022
Sciences (Physics)	Dr. Anshuman Shahi	AICTE Recognized Faculty Development Programme	10-10-2022 to 14-10 2022
CCT	Dr. Daarti Thalanal	STC on Insights into AI and ML for Image Processing Techniques	28-11-2022 to 02-12 2022
CST	Dr. Deepti Thakral	FDP on Agile Software Development	02-01-2023 to 06-0 2023
CCT	Ms. Anupriya	STC on Insights into AI and ML for Image Processing Techniques	28-11-2022 to 02-12 2022
CST	Sharma	FDP on Train the Trainers for Cloud Security and Artificial Intelligence	22-05-2023 to 26-09 2023
CST	Dr. Shalu	STC on Insights into AI and ML for Image Processing Techniques	28-11-2022 to 02-12 2022
CST	Dr. Manpreet Kaur	STC on Insights into AI and ML for Image Processing Techniques	28-11-2022 to 02-12 2022
CST	Dr. Mamta Arora	FDP on IOT & Drone	27-02-2023 to 04-0 2023
CST	Mr. Manoj Kumar	STC on Insights into AI and ML for Image Processing Techniques	28-11-2022 to 02-1 2022
CST	Dr. Urmila	STC on Insights into AI and ML for Image Processing Techniques	28-11-2022 to 02-12 2022
CST	Dr. Harsh Bhasin	STC on Insights into AI and ML for Image Processing Techniques	28-11-2022 to 02-12 2022
CST	Dr. Ranjna Jain	STC on Insights into AI and ML for Image Processing Techniques	28-11-2022 to 02-12 2022
CST	Ms. Dimple Chehal	STC on Insights into AI and ML for Image Processing Techniques	28-11-2022 to 02-13 2022
CST	Dr. Susmita Ray	STC on Insights into AI and ML for Image Processing Techniques	28-11-2022 to 02-12 2022
CST	Dr. Sachin Lakra	STC on Insights into AI and ML for Image Processing Techniques	28-11-2022 to 02-1 2022
CST	Dr. Prinima Gupta	STC on Insights into AI and ML for Image Processing Techniques	28-11-2022 to 02-1 2022
CST	Ms. Chandni Magoo	STC on Insights into AI and ML for Image Processing Techniques	28-11-2022 to 02-12 2022



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		FDP Higher Education 2022	11-07-2002 to 15-07- 2022
CST	Mr Anup Singh	FDP AI and ML	18-07-2022 to 22-07- 2022
		FDP on Research in Engineering	04-07-2022 to 08-07- 2022
		FDP on Transforming Higher Education for the New Globalised World: International Perspective	27-06-2022 to 02-07- 2022
		MOOC Course on Machine Learning with Imbalanced Data	04-07-2022 to 16-07- 2022
CST	Mr. Ram	MOOC Course on KNIME - A crash course for Beginners	13-08-2022 to 19-08- 2022
CST	Chatterjee	Online Webinar: Everything you wanted to know about Data Science	24-8-2022 to 24-08- 2022
		MOOC course on Data Science & Data Preparation with KNIME	05-09-2022 to 12-09- 2022
		MOOC course on End to End Data Science Practicum with KNIME	05-11-2022 to 11-11- 2022
		FDP on Entrepreneurship Development	19-06-2023 to 02-07- 2023
CST	Dr Yojna Arora	FDP on Teamwork & Collaboration	20-05-2023
		Online Workshop on Adobe Creativity Skill	09-06-2023
EDUCATION	Dr Nibedita Hazarika	STC on Indian Traditional Knowledge(ITK) in University Curriculum: A Pathway for Sustainable Transitions	19-12-2022 to 24-12- 2022
EDUCATION	Ms. Kriti Dagar	STC on Indian Traditional Knowledge(ITK) in University Curriculum: A Pathway for Sustainable Transitions	19-12-2022 to 24-12- 2022
LDUCATION	WS. KITCI Dagai	STC on Quantitative Data Management and Analytical Writing in Labour Research	09-01-2023 to 13-01- 2023
EDUCATION	Mrs. Eram Aziz	STC on Indian Traditional Knowledge(ITK) in University Curriculum: A Pathway for Sustainable Transitions	19-12-2022 to 24-12- 2022
EDIICATION	Dr. Dity Charma	STC on Indian Traditional Knowledge(ITK) in University Curriculum: A Pathway for Sustainable Transitions	19-12-2022 to 24-12- 2022
EDUCATION	Dr. Ritu Sharma	STP on Applied Coursework and Instruction to serve as a Training Facilitator	13-12-2022



EDUCATION	Mr Sharv Datt Anand	STC on Indian Traditional Knowledge(ITK) in University Curriculum: A Pathway for Sustainable Transitions	19-12-2022 to 24-12- 2022
		STC on Indian Traditional Knowledge(ITK) in University Curriculum: A Pathway for Sustainable Transitions	19-12-2022 to 24-12- 2022
EDUCATION	Dr Arvinder Kaur	FDP on E Content Creation, orgranized by Gurushala and K Mangalam University, Gurugram	02-12-2022 to 07-12- 2022
EDOGITION	Bi in vinuel hadi	FDP entitled Pedagogical Technique for Quality Higher Education	02-12-2022 to 07-12- 2022
		FDP on Indian Knowledge Systems	02-01-2023 to 08-01- 2023
EDUCATION	Dr Shweta Tewari	STC on Indian Traditional Knowledge(ITK) in University Curriculum: A Pathway for Sustainable Transitions	19-12-2022 to 24-12- 2022
EDUCATION	Dr Ritu Sharma	FDP on Holistic Pedagogy	09-01-2023 to 15-01- 2023
EDUCATION	Ms. Eram Aziz	FDP on Indian Knowledge Systems	03-01-2023 to 08-01- 2023
		Workshop on Quantitative Data Management and Analytical Writing in Labour Research	09-02-2023 to 13-02- 2023
EDUCATION	Dr. Nibedita Hazarika	STC on Social Protection and Livelihood Security	14-03-2023 to 15-03- 2023
		STC on Quantitative Data Management and Analytical Writing in Labour Research	09-01-2023 to 13-01- 2023
EDUCATION	Dr. Shweta Tewari	FDP on Indian Knowledge Systems	03-01-2023 to 08-01- 2023
EDUCATION	Dr. Akhilesh Kr. Dwivedi	AICTE course on Introductory UHV FDP	02-01-2023 to 06-01- 2023
		STC on Inclusive Education	02-01-2023 to 06-01- 2023
EDUCATION	Dr. Savita Sharma	STC on Digital Pedagogy: Transforming Teaching and Learning	01-05-2023 to 7-05- 2023
		FDP on Achieving Excellence in Analysis, Organized by SNDT Women University Mumbai	25-05-2023 to 27-05- 2023
EDUCATION	Dr. Bushra	STC on Inclusive Education	02-01-2023 to 06-01- 2023
EDUCATION	Dr. Arvinder Kaur	STC on Inclusive Education	02-01-2023 to 06-01- 2023
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EDUCATION	Dr. Bushra Sumaiya	Workshop on 'MOOCs Development Delivery' by UGC HRD centre Jamia Milia Islamia, New Delhi	03-03-2023 to 11-03- 2023
ME	Dr. Joginder Singh	FDP on Teaching Learning Process Effective	25-06-2018 to 29-06- 2018
MANAGEMENT	Dr Gurbir Singh	STC on Executive Program in Management Cornwell University	01-02-2023 to 01-08- 2023
& COMMERCE	Khera	eMDP on AIMLBE-Batch03, Senior Level 10 months Programme at IIMK, eMDP 10 - Self-funded, leading to alumni status.	01-04-2022 to 01-03- 2023
MANAGEMENT	Dr. Madhvi Kush	FDP on Research Paper Writing	21-08-2023 to 26-08- 2023
& COMMERCE	Dr. Madnvi Kush	FDP on Innovative Teaching and Learning Pedagogy	26-08-2023 to 30-08- 2023
MANAGEMENT & COMMERCE	Dr. Khusboo Gulati	FDP on Research Skills and Quality Publications	28-08-2023 to 01-09- 2023
ME	Mr. Piyush Mahendru	FDP on Materials Testing & Characterization for Academia and Industries	22-07-2022 to 26-07- 2022
		FDP on Transforming Higher Education for the new globalized world: International perspective	27-06-2022 to 02-07- 2022
ME	Mr. Pradeep	Workshop on Basic and Advance Structural Equation Modeling-SEM with AMOS	25-07-2022 to 26-07- 2022
	Kumar Mouria	FDP on International Youth Seminar on Heartfulness	12-08-2022 to 14-08- 2022
		Workshop on India Weld Synergy 2022	22-12-2022 to 23-12- 2022
ME	Mr. Sanjay Taneja	Workshop on Basic and Advance structural equation Modelling-SEM with AMOS	25-07-2022 to 26-07- 2022
ME	Mr. Mandeep Bhadana	Workshop on Basic and Advance structural equation Modelling-SEM with AMOS	25-07-2022 to 26-07- 2022
		Workshop on Summit on Sustainable textile 2022	22-09-2022 to 23-09- 2022
ME	Dr. Vineet Dubey	Workshop on Smart Manufacturing & Industry 4.0	11-10-2022 to 15-10- 2022
ML	Di. vineet bubey	Seminar on Industry 4.0	18-10-2022
		Training Program on Advances in Gear Engineering	11-10-2022 to 15-10- 2022



		Training Program on Industrial Automation and IIoT using soft-PLC	26-12-2022
		FDP on Research Scope in Electric Vehicles (In collaboration with ANSYS)	05-12-2022 to 09-12- 2022
		STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	05-12-2022 to 09-12- 2022
		FDP on Research Scope in Electric Vehicles (In collaboration with ANSYS)	05-12-2022 to 09-12 2022
ME	Mr. Gianender	FDP on Modern Manufacturing in Industry 4.0	07-02-23 to 12-02- 2023
		STC on Research Scope in Electric Vehicles (in collaboration with ANSYS)	05-12-2022 to 09-12 2022
		Workshop on Hands-on Introduction to Additive Manufacturing Simulation	03-02-2023
ME	Dr. Mayank	Dr. Mayank FDP on Modern Manufacturing in Industry 4.0	
		Workshop on Basic training program in Nano Science & Technology	13-03-2023 to 15-03 2023
ME	Dr. Ajit	FDP on Modern Manufacturing in Industry 4.0	07-02-23 to 12-02- 2023
		FDP on FOURTH GENERATION OF HUMAN RIGHTS, organized by School of Law, KR. Mangalam University	23-01-2023 to 29-01 2023
LAW	Dr. Shaharyar Asaf khan	FDP on Innovative Practices in Higher Education and Research organized by UGC HRDC and AMU Mallapuram	02-01-2023 to 07-01 2023
		Participated in an FDP on "Innovative Pedagogies, Assessments, Outcome Based Education, Rankings and accreditations" at MRU	07-06-2022 to 16-06 2022
		FDP on FOURTH GENERATION OF HUMAN RIGHTS, organized by School of Law, KR. Mangalam University	23-01-2023 to 29-01 2023
LAW	Dr. Kaveri Sharma	FDP ON Innovative Practices in Higher Education and Research organized by UGC HRDC and AMU Mallapuram	02-01-2023 to 07-01 2023
LAW	Mr. Bharatendu Agarwal	Faculty Development Program on International Law for Early Career Academics organized by Jindal Global Law School, OP Jindal University	25-06-2022 to 26-06 2022
LAW	Adnan Irshad	"We Lead" organized by Centre for Learning and development under the aegis of Lloyd Law College and Lloyd School of Law	16-01-2023 to 21-01 2023



LAW	Ms. Vani	One month national level online Refresher Course on Teaching law in 21st century-1st edition organized by Gujarat Maritime University, Gandhinagar.	03-07-2023 to 05-08- 2023
LAW	Ms. Yamini	One month national level online Refresher Course on Teaching law in 21st century-1st edition organized by Gujarat Maritime University, Gandhinagar.	03-07-2023 to 05-08- 2023
		Refresher Course-15 days on Teaching Pedagogy in Legal Studies & Social Sciences as Resource Person organized by Ministry of Education & Barkatulah University	24-07-2023 to 07-07- 2023
LAW	Dr SK Bose	FDP on Law & Economics organised by Rajiv Ganadhi national Law University, Punjab	10-03-2023 to 16-03- 2023
		FDP on Legal Research & Pedagogy- Five days organised by Techno India University, Kolkata	23-08-2022 to 27-08- 2022
		UGC- sponsored FDP on Multi Faceted Justice: Law and Beyond organised HRDC, Punjab University, Punjab	18-08-2022 to 24-08- 2022
		One week FDP on National Education Policy-2020 organised by University of Delhi in collaboration with Ministry of Education, Government of India	18-06-2022 to 24-06- 2022
LAW	Ms. Sampriti Phukan	One month national level online Refresher Course on Teaching law in 21st century-1st edition organized by Gujarat Maritime University, Gandhinagar.	03-07-2023 to 05-08- 2023
		15 days Refresher Course on Advanced Research Methodology organised by University of Delhi in collaboration with Ministry of Education, Government of India	22-07-2023 to 05-08- 2023
LAW	Dr Kaveri Sharma	Participated in an FDP on "Innovative Pedagogies, Assessments, Outcome Based Education, Rankings and accreditations" at MRU	07-06-2022 to 16-06- 2022





Program wise pass percentage of the students eligible for degree during the academic year 2022-23

Pass percentage of students (Academic Year – 2022-23)								
S. No.	Program Code	Program Name	No. of Students Appeared in Final Year Exam	No. Of Students Passed in the Final Year Examinations	Pass Percentage (%)			
1	CSU01	B.Tech. Computer Science & Engineering	215	179	83.26%			
2	ECU02	B.Tech. Electronics & Computer Engineering	11	10	90.91%			
3	MEU01	B.Tech. Mechanical Engineering	24	21	87.50%			
4	MEP01	M.Tech. Mechanical Engineering	3	3	100.00%			
5	CSP01	M.Tech. Computer Engineering	2	2	100.00%			
6	PHU01	B.Sc. (Hons.) Physics	4	4	100.00%			
7	CHU01	B.Sc. (Hons.) Chemistry	9	9	100.00%			
8	MAU01	B.Sc. (Hons.) Mathematics	8	5	62.50%			
9	PHP01	M.Sc. Physics	9	9	100.00%			
10	CHP01	M.Sc. Chemistry	10	9	90.00%			
11	MAP01	M.Sc. Mathematics	5	5	100.00%			
12	MCU01	Bachelor of Business Administration	60	50	83.33%			
13	EDU01	B.Ed.	30	27	90.00%			
14	EDU02	B.Sc. B.Ed.	27	24	88.89%			
15	EDU03	B.A. B.Ed.	28	20	71.43%			
16	EDU04	B.Ed. Spl. Ed. (Learning Disability)	3	3	100.00%			
17	LWU02	BBA LL.B. (Hons.)	20	13	65.00%			
18	LWU01	BA LL.B. (Hons.)	31	14	45.16%			
19	LWU03	B.Com. LL.B. (Hons.)	13	12	92.31%			
20	LWP02	LL.M. (Two year part time)	1	0	0.00%			
21	LWP01	LL.M.	9	9	100.00%			
	Pass Percent	tage of students	522	428	81.99%			





Students Grievance List July-Dec-2022

S.No.	NAMES	ROLL NO.	SEMESTER	SUBJECT	REMARKS
1.	Chetna Diwakar	2K20CSUN01025	5 th	Digital Electronics & Microcontroller	Theory Rechecking Marks entered were wrong on ERP (12) Correct marks is 20
2.	Lakshay Chaudhary	2K20CSUN04033	5 th	(DEMC) AIML 5 TH SEM	Theory Rechecking Marks entered were wrong on ERP (26) Correct marks is 36
3.	Simarjyot Singh Narang	2K20CSUN04047	5 th	(DEMC) AIML 5 TH SEM	Theory Rechecking Marks entered were wrong on ERP(10) Correct marks is 25
4.	Srishti Singh	2K20CSUN04048	5 th	(DEMC) AIML 5 TH SEM	Theory Rechecking Marks entered were wrong on ERP (9) Correct marks is 13
5.	Ayush Singh	2K20CSUN04008	5 th	(DEMC) AIML 5 TH SEM	Theory Rechecking Marks entered were wrong on ERP (13) Correct marks is 25
6.	Agashya Singh	2K20CSUN03001	5 th	(DEMC) CDA	Theory Rechecking Marks entered were wrong on ERP (23) Correct marks is 27
7.	Prajawal Paul	2K20CSUN03007	5 th	(DEMC) CDA	Theory Rechecking Marks entered were wrong on ERP (19) Correct marks is 30
8.	Abhinav Kapoor	2K21CSUN01051	3 rd	(DBMS) OOPS USING JAVA	Theory Rechecking Marks entered were wrong on DBMS – ERP (24) correct marks 40 OOPS – ERP (34) correct marks 42

Students Grievance List Jan-June 2023

S.No.	NAMES	ROLL NO.	SEMESTER	SUBJECT	REMARKS
1.	Balaj Iqbal	2K21LWUN02006	4 th	Constitutional Law II	Theory Rechecking No Change in Result
2.	Pratush Mishra	2K21CSUN01137	4 th	French	Theory Rechecking Passed in rechecking
3.	Aryan Gupta	2K21CSUN01106	4 th	French	Theory Rechecking Passed in rechecking
4.	Abhishek Bhati	2K21CSUN01002	4 th	Professional Competency	Theory Rechecking No Change
5.	Surbhi Chopra	2K20CSUN04049	6 th	Professional Competency	Theory Rechecking No Change





List of extension and outreach programs conducted by the institution for the AY 2022-23

S.No.	Name of the Activity	Year of the Activity	Number of Students Participated in such activities	Organising unit/ agency/ collaborating agency
1	Awareness Campaign Creating Clean and Green Minds	28-07-2022	8	Jagriti Seva Trust
2	ESDP Inauguration (project)	29-07-2022	5	Prakashdeep School
3	Ek Muthi Daan	August – September 2022	1862	Dr. O.P. Bhalla Foundation/NGOs like SHEOWS, Tau Devi Lal Old Age Home, Hostel for Rescued Boys, Prabhath on Awakening, Global Orphanage Trust, Parnav Karuna Sangha, Earth Savior Foundation, Red Cross De-addiction Centre, Dayalpur Gurudwara and People for Animals
4	Plantation drive	27-08-2022	30	Dr. O.P. Bhalla Foundation
5	Vatsalya SDG awareness through bookmarks	14-09-2022	50	MRCPS
6	Animal shelter visit	10-12-2022	15	Dr. O.P. Bhalla Foundation
7	Donate Blood Save Life	16-09-2022	400	MRU Leo club
8	Workshop on composting and dealing with kitchen waste	26-11-2022	12	Govt. School village Gadkheda
9	Cleanliness drive, pledge taking, plastic waste awareness and poster distribution drive at village Dayalpur	15-10-2022	48	Govt. School ,Village Dayalapur
10	Plastic waste awareness, pledge taking and poster distribution drive at village Gadkheda	15-10-2022	47	Govt. School village Gadkheda
11	Plantation drives and plastic waste awareness drive at village Alampur, Kot and Govt. Schools	27-08-2022	15	Govt. School , Alampur
12	Learning How to Learn	21-07-2022, 23-08-2022, 03-08-2022, 12-08-2022	18	Dr. O.P. Bhalla Foundation
13	Raddi Recycling Drive	2022-23	53	Dr. O.P. Bhalla Foundation
14	Village visit for 1st year students	15-10-2022	58	Dr. O.P. Bhalla Foundation
15	Cloth and blanket donation	20-01-2023	7	Dr. O.P. Bhalla Foundation/MRU Leo club





Environmental, Energy and Green Audits and ISO Certifications

MRU has been assessed by EHS Alliance Services for the comprehensive study focused on evaluating environmental impacts of institutional working framework to fulfil the requirement of Environment Audit, Energy Audit & Green Audit. The environment, energy and green initiatives undertaken by the University have been found satisfactory. The observations/recommendations by the Audit Team were shared. We commit to taking proactive measures to address these recommendations and continue our journey towards a greener and more sustainable future.

Some of the recommendations include the following:

Environment Audit: Eco-friendly measures for purchase of articles, car-pooling practices to minimise air pollution; Environmental Monitoring, i.e. Stack Monitoring of DG sets, Water monitoring conducted by State Pollution Control Committee approved laboratory; agreement with third party authorised vendors for different types of waste management, such as e-waste, BMW, Plastic waste, etc. and increase the capacity of solar PV.

Energy Audit: More LED lights replacing tube lights, regular maintenance schedule of equipment like geyser, water coolers, pumps, etc. The efficiency of DG Sets and AC were found to be satisfactory during the audit trials as per the report. However, the recommendations include a regular maintenance of the equipment, insulation of AC's refrigerant lines in order to protect energy losses and purchase of BEE 5 Star rated equipment in future. It has been advised to use solar water heater instead of electric geysers. And electronics such as computers, printers, scanners, etc. more than 3 year or 5 years (as per their life) should be replaced with new computers/laptops.

Green Audit: Increase of solar panel capacity to meet at least 70% of electricity requirement, installation of solar heaters, consideration of environmental parameters in purchase policy.

For water conservation, it has been suggested to install water meters at every building for monitoring of water consumption per capita, adopt drip irrigation and sprinklers gardening to save water in campus, and maintain the flow rate of taps at not more than 2.5 litres/minute.

For community, increase plantation drives in nearby areas to balance the carbon emission and absorption, arrange training programs on environmental management system and nature conservation, involve lower hierarchy staff in environmental awareness programs and campaigns and enhance recycling.

It has been further advised to display messages at various locations to create awareness about Energy Savings Green building guidelines.

It is to share the successful attainment of ISO certifications for Manav Rachna University with respect to **Quality Management System, Environmental Management System, and Energy Management System.**

The ISO certifications achieved by Manay Rachna Quality Management signify the following:

Quality Management System of MRU is ISO 9001:2015 certified w.e.f. from Dec 26, 2022 (valid till December 25, 2023).

Energy Management System has attained ISO 50001:2018 certification w.e.f. from Dec 26, 2022 (valid till December 25, 2023).

Environmental Management System of MRU is now ISO 14001:2015 certified w.e.f. from Dec 26, 2022 (valid till December 25, 2023).



Quality Management System ISO 9001:2015



CERTIFICATE OF REGISTRATION

INTERCERT hereby certifies that the Quality Management System of

MANAV RACHNA UNIVERSITY

(Declared as State Private University vide Haryana Act 26 of 2014)

Sector - 43, Delhi-Surajkund Road, Faridabad - 121004, Haryana, India

Has been successfully assessed as per the requirements of

ISO 9001:2015

For the scope of

Education, Research, Industry Alignment & Additional Services.

Initial Certification Date

: December 26, 2022

Certificate Issue Date

: December 26, 2022

Surveillance Validity Date

: December 25, 2023

Recertification Date

: December 25, 2025

Registration Number: IC-QM-2212155



Issued on behalf of InterCert Head - Certifications







The validity of this certificate can be verified at www.intercere.com or through email at info@intercert.com. The the property of INTERCERT INC, 2001 Timberloop Place - Sure 500. The Woodlands, Texas. 77360, United States, returned on request.



Energy Management System 50001:2018



CERTIFICATE OF REGISTRATION

INTERCERT hereby certifies that the Energy Management System of

MANAV RACHNA UNIVERSITY

(Declared as State Private University vide Haryana Act 26 of 2014)

Sector - 43, Delhi-Surajkund Road, Faridabad - 121004, Haryana, India

Has been successfully assessed as per the requirements of

ISO 50001:2018

For the scope of

Education, Research, Industry Alignment & Additional Services.

Initial Certification Date : December 26, 2022
Certificate Issue Date : December 26, 2022
Surveillance Validity Date : December 25, 2023
Recertification Date : December 25, 2025

Registration Number: IC-En-2212157

Aubjait



Issued on behalf of InterCert Head - Certifications







The validity of this certificate can be verified at www.intercert.com or through email at info@intercert.com. This certific the property of INTERCERT INC, 2001 Timberloch Place - Suite 500, The Woodlands, Texas 77380, United States and must returned on request.



Environmental Management System 14001:2015



CERTIFICATE OF REGISTRATION

INTERCERT hereby certifies that the Environmental Management System of

MANAV RACHNA UNIVERSITY

(Declared as State Private University vide Haryana Act 26 of 2014)

Sector - 43, Delhi-Surajkund Road, Faridabad - 121004, Haryana, India

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ISO 14001:2015

For the scope of

Education, Research, Industry Alignment & Additional Services.

Initial Certification Date
Certificate Issue Date
Surveillance Validity Date

: December 26, 2022

December 26, 2022

: December 25, 2025

Registration Number: IC-EM-2212156



Recertification Date

Anhymiti

Issued on behalf of InterCert Head - Certifications







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CERTIFICATE



CERTIFICATE

PRESENTED TO

MANAV RACHNA UNIVERSITY

Sector 43, Aravali Hills, Delhi-Surajkund Road, Faridabad, Haryana 121004

Has been assessed by EHS Alliance Services for the comprehensive study of Energy Audit on institutional working framework to fulfill the requirement of

ENERGY AUDIT

The energy-saving initiatives carried out by the University have been verified in the report submitted and were found to be satisfactory.

The efforts taken by management and faculty towards all types of energy used in the University and sustainability are highly appreciated and noteworthy.



01.02.2023 DATE OF AUDIT

EHS ALLIANCE SERVICES, PLOT A-72, SURYA VIHAR, GURUGRAM, 122001 WWW.EHSALL.IN | BUSINESS@EHSALL.IN | EHSALLIANCE@GMAIL.COM







Prepared for: Manav Rachna University

Prepared by: EHS ALLIANCE SERVICES

CERTIFICATE



CERTIFICATE

PRESENTED TO

MANAV RACHNA UNIVERSITY

Sector 43, Aravali Hills, Delhi-Surajkund Road, Faridabad, Haryana 121004

Has been assessed by EHS Alliance Services for the comprehensive study of environmental impacts on institutional working framework to fulfill the requirement of

ENVIRONMENT AUDIT

The environment legal compliances and initiatives carried out by the University have been verified on the report submitted and was found to be satisfactory.

The efforts taken by management and faculty towards environment and sustainability are highly appreciated and noteworthy.



01.02.2023 DATE OF AUDIT

EHS ALLIANCE SERVICES, PLOT A-72, SURYA VIHAR, GURUGRAM, 122001 WWW.EHSALL.IN | BUSINESS@EHSALL.IN | EHSALLIANCE@GMAIL.COM







CERTIFICATE



CERTIFICATE

PRESENTED TO

MANAV RACHNA UNIVERSITY

Sector 43, Aravali Hills, Delhi-Surajkund Road, Faridabad, Haryana 121004

Has been assessed by EHS Alliance Services for the comprehensive study of environmental impacts on institutional working framework to fulfill the requirement of

GREEN AUDIT

The green initiatives carried out by the institution have been verified on the report submitted and was found to be satisfactory.

The efforts taken by the management and the faculty towards environment and sustainability are appreciated and noteworthy.



01.02.2023 DATE OF AUDIT

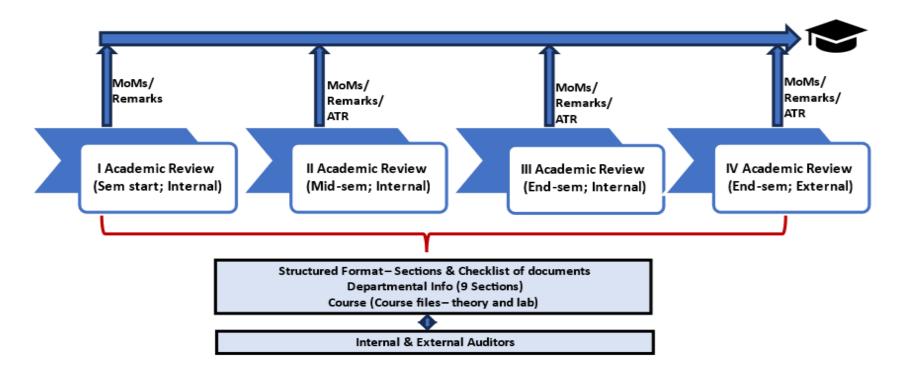
EHS ALLIANCE SERVICES, PLOT A-72, SURYA VIHAR, GURUGRAM, 122001 WWW.EHSALL.IN | BUSINESS@EHSALL.IN | EHSALLIANCE@GMAIL.COM



Annexure-10.1

Academic Audit Proforma

To present the Academic Audit Proforma designed for the departments for the AY 2023-24. This is to share that the academic audits have been initiated in the university to comprehensively evaluate the academic framework, focusing on departments and courses [Annexure-10.1]. The entire academic audit process is structured in to 3 internal audits (beginning of the semester, mid-semester and end-semester) followed by 1 external audit at the end of the semester. The audits are being conducted by the internal auditors (experts from various departments) as per the schedule shared well in advance. Before that, we would like to share that training sessions were conducted by the IQAC for sharing the objective and details of the audit format.





Section - A

a. DEPARTMENT DETAILS

Name of Department					
Name of School					
Academic year	2023-24				
Semester	I	III	v	VII	IX
Name of the program [For eg: B.Tech. Computer Science & Engineering]					
No. of Theory courses offered					
No. of Lab courses offered					
Note: Insert more rows as per the no. of UG & PG programs offered by the department					

b. FACULTY DETAILS AND TEACHING LOAD

S. No.	Name of the Faculty Member	Designatio n	Courses Taught	L—T—P	Total Theory Hrs	Total Lab Hrs



c. COURSE DELIVERY

Vear/ 9	Semester	From Core Deptt		From C	From Other Deptt		er Deptt
Year/ Semester		No. of Courses (Theory & Labs)	Hrs	No. of Courses (Theory & Labs)	Hrs	No. of Courses (Theory & Labs)	Hrs
	I semester						
	III semester						
UG	V semester						
	VII semester						
	IX semester						
PG	I semester						
PG	III semester						

d. VALUE ADDED COURSES OFFERED

S. No.	Name of the Value-added Courses (with 30 or more Contact Hours) Offered	Semester	Duration of Course (Hours)	Date From - To	No. of Students Enrolled	No. of Students Completing the Course



e. ACADEMIC PREPAREDNESS

Parameter	Review I (at the start of the semester)	Review II (during the semester)	Review III (at the end of the semester)	Remark (action taken)	Documents to be produced during Audit
No. of courses whose lesson plans(Theory & Lab both) are prepared before the commencement of the academic session					Departmental academic committee MoMs
No. of courses whose lesson plans (Theory & Lab both) are not prepared before the commencement of the academic session					Departmental academic committee MoMs
No. of course files (Theory & Lab both) reviewed by internal verifier(s) (Senior Faculty/HOD)					Departmental academic committee MoMs
Whether the CAPs have been approved in the BoS					BoS MoMs
Whether the course material has been prepared as per the					Departmental academic committee MoMs



approved CAPs			
Whether the assessment of the courses is as per the approved CAPs			Departmental academic committee MoMs
Whether the academic regulations like graduation requirements and promotion policy have been shared with the students			Student orientation report/ Interaction/meeting MoMs with students for the same
Whether the records of the following are maintained by the respective mentors a) Semester credit registration b) MOOCs/Electives opted c) List of students & courses Not registered/dropped d) MRLSP details e) Details of PSC students			a) ERP report(signed by HoD) b) List of Student registrations in MOOCs/ Electives(signed by HoD) c) List of students & courses Not registered/dropped(signed by mentor & HoD) d) Details of MRLSP points (signed by mentor & HoD) e) List and their status (Signed by HoD & Mentor)
List of External Paper			BoS MoM (signed) along with attendance



setters & Examiners approved by BoS			
Vision and Mission of the University well displayed at prominent places			Geotagged photographs
Vision, Mission and PEOs of the Department well displayed at prominent places			Geotagged photographs
Display of Time Table & important Notices			Geotagged photographs

f. DEPARTMENTAL LAB SETUP

			Geotagged photographs
Timetable, Lab incharge			
details, List of			
experiments with			
signatures displayed on			
the notice board			



Equipment issue/usage register (log book)	Register
Whether the Lab Stock Register is Maintained properly? (Up to date)	Updated Stock Register along with Bills (copy)
Whether Lab Equipment is maintained properly?	Maintenance Agreements/ AMC details
Whether lab manuals for all lab courses are there?	Lab manual
List of Dos and Dont's displayed on lab notice boards	Geotagged photograph
Safety Measures Posters/ Instructions displayed in lab	Geotagged photograph
Proper waste disposal mechanism adopted	Manual/ SoP & Geotagged photograph of the facility



(manual/SoP)			
Availability of well- maintained First Aid box in the labs to address any emergency, if any			Geotagged photograph

g. LIST OF COURSES ON DIFFERENT PEDAGOGIES

S.No.	Pedagogy Implemented	List of Courses	Document required
1	Project Based Learning		MoMs of DAC To be verified through CAPs & Course files
2	Collaborative		along with rubrics
3	Experiential		
4	Cooperative		
5	Flipped classroom		
6	Case Study Based		
7	Role Play		

8	e-Learning modules	
9	Inclusion of appropriate complementary co-curricular activities	
10	Any other (insert rows as required)	

h. ATTENDANCE, RESULT, FEEDBACK & CO-PO ATTAINMENT ANALYSIS

Parameter	Review I	Review II	Review III	Documents to be produced during Audit
Attendance Analysis				Attendance analysis reports Records for corrective action implementation
Internal Assessment Result Analysis				 Internal assessment analysis reports (Mid Term during review - II and overall in review III Records for corrective action implementation
External Assessment Result Analysis				Overall analysis reports Records for targets achieved



Feedback Analysis from all Stakeholders(Students, Faculty, Alumni, Employer)	a)Feedback Analysis report & sample filled form from ERP/Google form b) Records of Action taken
Regular Analysis of effectiveness of teaching methods & instructional material	DAC moms
CO-PO Attainment Analysis	CO-PO attainment report and action taken
Placement Records of all graduated/ graduating students are maintained and updated regularly	Placement Record File with all offer letters/ joining reports
Record of all of all graduated/ graduating students Progressing to Higher Studies is maintained & updated regularly	Higher Studies Record file with admission letters, I-card and Fee receipt
Record of all graduated/ graduating students appearing/ qualifying competitive examination is maintained & updated regularly	Qualifying competitive examination file Admit card, Result card



i. Research Environment - Promotion & Activities

Parameter	Review I	Review II	Review III	Documents to be produced during Audit
The faculty effectively communicates the program's research environment, values and priorities to current and prospective students & other audiences				MOMs of the session
The program engages graduate students in inquiry and contemporary research in collaboration with the faculty				Proof of the activity

j. SWOC ANALYSIS

SWOC	ANALYSIS
STRENGTH	
WEAKNESS	
OPPORTUNITIES	
CHALLENGES	



k. LIST OF BEST PRACTICES FOLLOWED IN THE DEPARTMENT (PLEASE ATTACH PROOF & OUTCOME ACHIEVED)

Review I (at the Start of the Semester)	Review II (During the Semester)	Review III (End of the Semester)
HoD Signature	HoD Signature	HoD Signature
Remarks by the Auditor(s) & Signature	Remarks by the auditor(s) & sign	Remarks by the auditor(s) & sign



Section - B

a. **COURSE INFORMATION**

Program Name	
Year/Semester	
Faculty Name	
Course Title/Code	
L-T-P/ Course Credits	
Teaching Pedagogy Used	

b. COURSE FILE DOCUMENTATION

Parameter	Review I (at the start of the semester)	Review II (during the semester)	Review III (at the end of the semester)	Remark (action taken)
Vision and Mission of the University				
Vision, Mission and PEOs of the Department				
POs and PSOs of the department				
Course Coordinator & List of faculty members teaching the course				





Continuous Course evaluation as per the approved CAPs		
Solutions of assessment sheets (tutorials/ Quiz/ Assignments/ Test/ etc)		
Question paper of all assessment sheets, including mid-term and end term examination		
Lecture notes or course material (At onset - first 6 weeks course material, II Review - Complete course material)		
MOMs of the course coordinator's meeting, feedback analysis and action taken		
List of slow and advanced learners of the course		
Action taken for slow learners(with proof)		
Action taken for advanced learners(with proof)		



Innovations in Teaching		
CO-PO attainment & action taken		

For lab

Parameter	Review I (at the start of the semester)	Review II (during the semester)	Review III (at the end of the semester)	Remark (action taken)
Course Description (including) Syllabus with Textbooks and Reference books Course Outcomes Lesson Plan Course Assessment Plan with well defined rubrics CO-PO Mapping				
Number of experiments conducted as per course plan				
Attendance Record for classes and (First, second and Final Attendance review and action taken report)				



CO-PO attainment sheet		

c. MONITORING & EVALUATION PROCESS OF MAJOR & MINOR PROJECTS/INTERNSHIPS/ITR/ SR

Parameter	Review I (at the start of the semester)	Review II (during the semester)	Review III (at the end of the semester)	Remark (action taken)
Formation of Project Batches, Supervisor Allocation				Process of allocation & list of allocated supervisors
Whether the assessment committee is formed or not?				List/ office order
Continuous Evaluation of Project/Internship/ SR/ITR as per defined rubrics				Related documents - approved rubrics, assessment sheets
For Internships/Project (outside)- NOC, Approval, Attendance record, project report, Completion certificate				Related Documents

COMMENTS OF THE AUDITOR

DATE

NAME, DESIGNATION & DEPARTMENT OF ACADEMIC AUDIT EXPERTS