



Marwadi
University
Marwadi Chandarana Group

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REPORT ON

Skill Development Initiatives at Marwadi University

Academic Year 2023-24



GOALS OF THE SKILL DEVELOPMENT INITIATIVES

As Marwadi University continues its journey toward academic excellence, our commitment to skill development remains a central focus. The main goals and focus areas for the upcoming year include:

- **Enhancing Multi-Disciplinary Skill Sets:** Recognizing the importance of versatility in the modern job market, Marwadi University will focus on developing multi-disciplinary skills. Our programs will encourage students to gain expertise in diverse fields, fostering a well-rounded skill set that enhances their employability.
- **Expanding Hands-On Learning Opportunities:** We will increase the practical experiences which will allow students to apply their knowledge in real-world scenarios, solidifying their skills and preparing them for successful careers.
- **Strengthening Industry Collaborations:** To ensure that our students are equipped with relevant and up-to-date skills, we will be offering industry-driven skill courses. We aim to bridge the gap between academia and the corporate world, providing students with practical, real-world experience.
- **Fostering Lifelong Learning:** In an ever-changing global economy, the ability to continuously adapt and learn is crucial. Our skill development initiatives will encourage a mindset of lifelong learning, ensuring that our graduates remain competitive and resilient throughout their careers.

These goals reflect Marwadi University's dedication to producing highly skilled, industry-ready graduates who are equipped to meet the challenges of tomorrow's workforce.

FUTURE DIRECTIONS

Upcoming Initiatives and Goals for Skill Development

As we look ahead to the next year, our university is poised to take significant strides in enhancing skill development opportunities for our students. A major highlight will be the establishment of a Center of Excellence in AI Skilling, in collaboration with Intel. This strategic partnership aims to equip our students with cutting-edge AI skills, ensuring they are industry-ready and capable of leading in the rapidly evolving techlandscape.

In addition, we are set to expand our industrial collaborations to offer more specialized skill courses. These partnerships will not only provide hands-on learning experiences but also ensure that our curriculum remains aligned with the latest industry trends and demands. By integrating practical insights from leading industry experts, we will empower our students with the skills needed to thrive in the competitive job market.

Through these initiatives, our university reaffirms its commitment to fostering an environment of continuous learning and professional growth, preparing our students to excel in their chosen fields.

MESSAGE FROM THE PROVOST

It is with great pride and enthusiasm that I present to you the Annual Skill Report of our esteemed university. This report is a testament to our unwavering commitment to fostering a culture of excellence, innovation, and lifelong learning.

In today's rapidly evolving world, the importance of skills cannot be overstated. The landscape of industry and academia is changing at an unprecedented pace, and it is imperative that we equip our students with the competencies required to excel in this dynamic environment. At our university, we have always placed a strong emphasis on the holistic development of our students, ensuring they are not only academically proficient but also adept in the practical skills that will drive their future success.

This report highlights the numerous initiatives, programs, and partnerships that have been undertaken over the past year to enhance the skill sets of our students. From cutting-edge research and industry collaborations to innovative teaching methods and hands-on training, our efforts have been geared towards creating a well-rounded and highly skilled cohort of graduates.

I extend my heartfelt thanks to our dedicated faculty, staff, and industry partners who have played a pivotal role in these achievements. Your passion and commitment have been instrumental in shaping the future leaders and innovators of tomorrow.

As we look to the future, we remain steadfast in our mission to provide an education that is not only of the highest quality but also relevant and responsive to the needs of society. We will continue to innovate, collaborate, and adapt to ensure that our students are equipped with the skills necessary to thrive in an ever-changing world.

Warm regards,

PROF.(DR.) R.B. JADEJA

Provost

Marwadi University



MESSAGE FROM THE PRO VICE-CHANCELLOR

It gives me great pleasure to contribute to our Annual Skill Report, a reflection of the collective effort and dedication that define our university's approach to education and personal development. This report not only showcases our achievements but also embodies the core values that guide us in nurturing the talents of our students.

In an era where the global economy is increasingly interconnected, the demand for versatile and adaptive skills is greater than ever. Our university has taken proactive steps to ensure that our students are equipped with the skills necessary to meet the challenges and seize the opportunities of the modern world. We have placed a strong emphasis on interdisciplinary learning, ensuring that our students can think critically, collaborate effectively, and innovate across a wide range of fields.

We have introduced skill courses designed to bridge the gap between theoretical knowledge and practical application, particularly in emerging areas such as digital literacy, data analytics, and sustainable development. These initiatives are aimed at preparing our students not just for their first jobs, but for lifelong careers in a rapidly evolving marketplace.

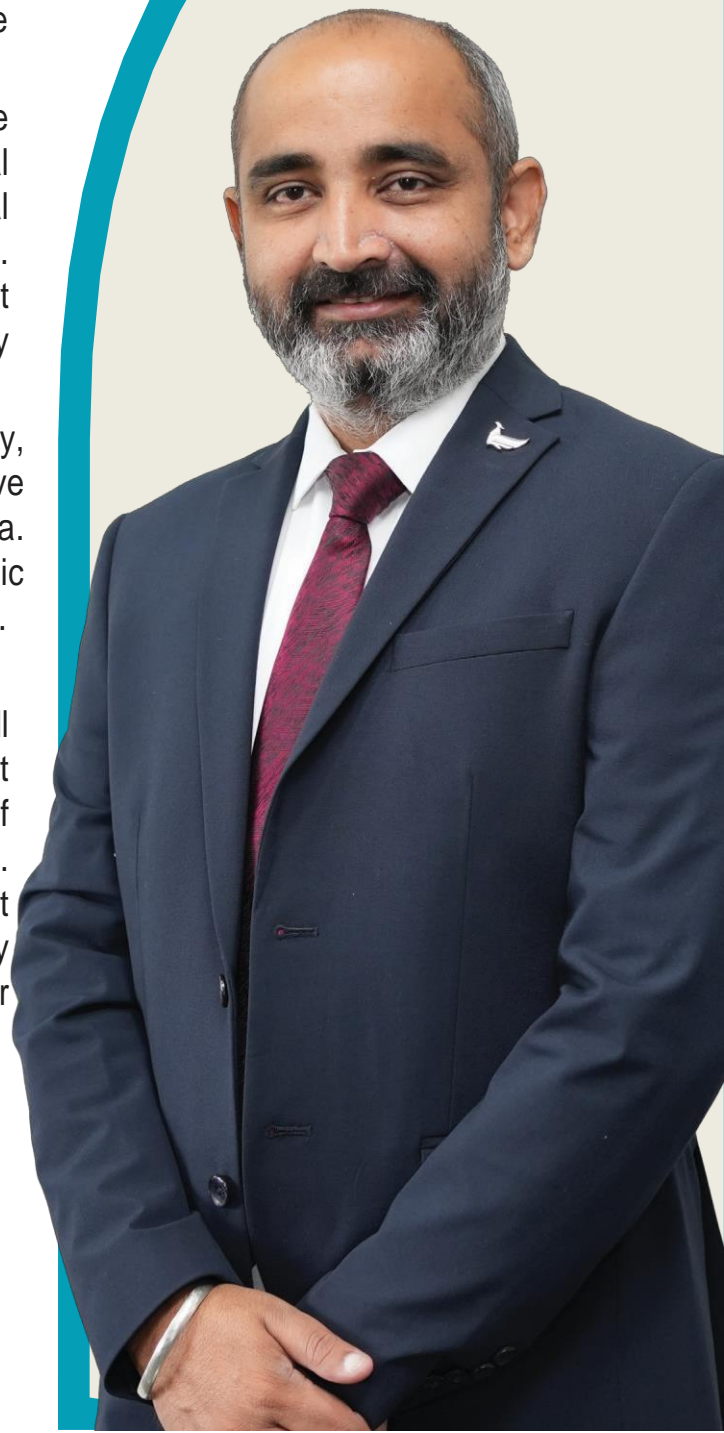
I would like to extend my sincere gratitude to our faculty, whose tireless work and innovative approaches have been crucial in advancing our skill development agenda. Your commitment to integrating skills into our academic programs and mentoring students had a profound impact.

As we continue to build on this momentum, I encourage all of us to remain committed to fostering an environment where skill development is not just a component of education but a cornerstone of our university's mission. Together, we will continue to push the boundaries of what is possible and ensure that our graduates are not only knowledgeable but also skilled and ready to lead in their chosen fields.

Warm regards,

DR. SANJEET SINGH

Pro Vice-Chancellor
Marwadi University



MESSAGE FROM THE REGISTRAR

It is my privilege to share this message as part of our university's Annual Skill Report, a document that not only chronicles our progress but also underscores our dedication to the holistic development of every student who walks through our doors.

Skill development programs are more than just educational offerings—they are the pillars that uphold our commitment to excellence and inclusivity. Over the past years, we have made significant advancements in streamlining the integration of skill development into our academic and extracurricular activities. By refining our processes and leveraging technology, we have ensured that our students have easier access to the resources, guidance, and support they need to cultivate their skills effectively.

Our commitment has been crucial in helping our students develop not only the technical skills required in their fields but also the soft skills that are essential for personal and professional growth.

I would like to extend my deepest appreciation to our administrative staff, faculty, and partners who have worked tirelessly to implement these enhancements. Your dedication to providing a supportive and efficient environment has made a significant difference in the lives of our students.

As we look ahead, we remain committed to continuous improvement and innovation in our processes, ensuring that our university remains a leader in skill development and student success.

Sincerely,

MR. NARESH JADEJA

Executive Registrar
Marwadi University



At Marwadi University, skill development is a cornerstone of our educational philosophy, designed to equip students with a comprehensive set of competencies that will prepare them for success in the modern workforce. The scope and coverage of our skill development initiatives are extensive, encompassing a wide range of areas:

1. Technical Skills:

- **Industry-Aligned Programs:** Skill development courses offered at Marwadi University reflect the latest advancements in technology and industry standards. Students have access to specialized courses in areas such as Automation, Artificial Intelligence, Data Science, Cybersecurity, and more, ensuring they are well-versed in the technical skills that are in high demand.
- **Practical Application:** We emphasize hands-on learning through labs and workshops allowing students to apply theoretical knowledge to real-world problems.
- **Certification Programs** In collaboration with industry leaders like Bosch-Rexroth, AWS, Cisco, Intel, etc. we offer certification programs that validate student's technical expertise and enhance their employability

2. Soft Skills:

- **Communication and Interpersonal Skills:** We recognize the importance of soft skills in the workplace. Our programs include training in effective communication, teamwork, and interpersonal skills, which are critical for professional success

3. Entrepreneurial Skills:

- **Innovation and Creativity:** We foster an entrepreneurial mindset by encouraging students to think outside the box and develop innovative solutions to real-world challenges. Marwadi University has established Marwadi University Centre of Innovation, Incubation and Research (MUIIR). Our innovation labs and startup incubators provide the resources and mentorship needed to turn ideas into viable businesses.
- **Networking and Mentorship:** Students have access to a network of industry professionals and entrepreneurs who provide guidance and mentorship, helping them navigate the challenges of entrepreneurship

4. Lifelong Learning and Adaptability:

- **Continuous Learning Programs:** Understanding the importance of lifelong learning, Marwadi University offers continuous learning opportunities through online courses, workshops, and seminars, enabling students to stay updated with evolving industry trends.

Marwadi University's skill development programs are comprehensive, aiming to produce well-rounded graduates who possess the technical expertise, soft skills, and interdisciplinary knowledge necessary to excel in a rapidly changing world.

The skill requirement analysis is performed on the basis of Courera reports on Job Requirement Report and Global Skill Repot.

The Fastest-Growing Skills: Overall

SKILL	RANK	DEFINITION
Marketing Associate	1	A professional responsible for supporting the planning and execution of marketing and advertising activities
Web Developer	2	A web developer makes and maintains websites.
Computer Systems Engineer	3	Manages and monitors all installed systems and infrastructure for the organization to be in line with company guidelines or SOP
	4	A database administrator, or DBA, is responsible for maintaining, securing, and operating databases and also ensures that data is correctly stored and retrieved.
Engineering Manager	5	Engineering managers are experienced engineers who currently manage technical activities in both large and small organizations.
Business Analyst	6	Prioritizing technical and functional requirements, identifying what clients want, and determining what is feasible to deliver.
Network Engineer	7	Establishes and maintains network performance.
Data Engineer	8	Build systems that collect, manage, and convert raw data into usable information for data scientists and business analysts to interpret.
SEO Specialist	9	Optimize a website to increase traffic and engagement
Market Research Analyst	10	Gather data and study other information to help a company promote its products or services

*Source: Coursera Global Skill Report.

SKILL DEVELOPMENT INITIATIVES

Curriculum Enhancements

Skill courses play a vital role in enhancing modern curricula by bridging the gap between theoretical knowledge and practical application. In today's dynamic and competitive environment, employers seek graduates who not only excel academically but also possess the practical skills necessary to solve real-world challenges. Skill courses ensure that students are equipped with industry-relevant skills that meet the current demands of the job market. Skill courses promote holistic development by focusing not only on academic achievement but also on personal attributes.

Following are the details of Skill Courses which are embedded in Teaching scheme of various programme at Marwadi University.

FACULTY OF COMPUTER APPLICATIONS:

Programme: Bachelor of Computer Applications

Skill courses Embedded in Teaching Scheme:

SUBJECT CODE	SUBJECT NAME	TEACHING SCHEME (HOURS/WEEK)			CREDITS
		THEORY	PRACTICAL	TUTORIAL	
05BC3306	Programming in JAVA	2	4	0	4
05BC3405	Python Programming	2	4	0	4
05BC3507	Web Development using PHP	2	4	0	4
05BC3605	Mobile Computing	2	4	0	4

FACULTY OF SCIENCE:

Programme: Bachelor of Science (Chemistry and Micro Biology)

Skill courses Embedded in Teaching Scheme:

SUBJECT CODE	SUBJECT NAME	TEACHING SCHEME (HOURS/WEEK)			CREDITS
		THEORY	PRACTICAL	TUTORIAL	
02SL0105	Communication Skills - I	2	0	0	2
02SL0203	Communication Skills - II	2	0	0	2
02CR0301	Career Readiness Program: I	2	0	0	2
02CR0401	Career Readiness Program: II	2	0	0	2

Programme: Bachelor of Science (Agriculture)

Skill courses Embedded in Teaching Scheme:

SUBJECT CODE	SUBJECT NAME	TEACHING SCHEME (HOURS/WEEK)			CREDITS
		THEORY	PRACTICAL	TUTORIAL	
16SL0101	Comprehension and communication skills in English	1	2	0	2
16AS0305	Farm machinery and Power	1	2	0	2
16AS0511	Landscaping	2	2	0	3
16GS0201	Human Value and Ethics	1	0	0	1
16AS0410	Intellectual Property Rights	1	0	0	1
16AS0608	Post Harvest Management and value addition of fruits and vegetables	1	0	2	2

FACULTY OF HEALTH SCIENCES:

Programme: Bachelor of Pharmacy

Skill courses Embedded in Teaching Scheme

SUBJECT CODE	SUBJECT NAME	TEACHING SCHEME HOURS/WEEK			CREDITS
		THEORY	PRACTICAL	TUTORIAL	
13PH0706	Practice School	0	12	0	6

Programme: Bachelor of Physiotherapy

Skill courses Embedded in Teaching Scheme

SUBJECT CODE	SUBJECT NAME	TEACHING SCHEME HOURS/WEEK			CREDITS
		THEORY	PRACTICAL	TUTORIAL	
17PT0308	Clinical Hours	0	720	0	18
17PT0407	Clinical Hours	0	960	0	24



FACULTY OF LAW:

Programme: Bachelor of Arts, BALLB Hons & BCom LLB Hons

Skill courses Embedded in Teaching Scheme

SUBJECT CODE	SUBJECT NAME	TEACHINGSCHEME(HOURS/WEEK)			CREDITS
		THEORY	PRACTICAL	TUTORIAL	
10BH1107	Creative Writing	2	0	1	3
10BH1206	Critical Thinking and Argumentative Skills	2	0	1	3
10BH1304	Understanding India	1	0	1	2
10BH1508	Health, Wellness and Yoga	1	0	1	2
10BH1509	Universal Human Values and Life skills	1	0	1	2
10BH1608	Advanced Excel Programme	2	0	1	3
10SL1302	Basics of French Language French- I	2	0	0	2
10SL0402	Basics of French Language French-II	2	0	0	2
10FL1506	Legal Writing	0	0	2	2
10FL0702	Drafting, Pleading & Conveyance	0	0	4	4
0FL0704	Alternative Dispute Resolution	0	0	4	4
10FL0805	Public Interest Lawyering, Legal Aid & Para Legal Services	0	4	0	4
10FL0901	Professional Ethics & Professional Accounting System	3	0	1	4
10FL0903	Professional Training (Judiciary/Litigation/ Corporate Counselling)	0	8	0	4

FACULTY OF MANAGEMENT STUDIES:

Programme: Bachelor of Business Administration

Skill courses Embedded in Teaching Scheme

SUBJECT CODE	SUBJECT NAME	TEACHING SCHEME (HOURS/WEEK)			CREDITS
		THEORY	PRACTICAL	TUTORIAL	
04BB0107	Tally Prime	2	0	0	2
04BB0108	Jewelry Designing	2	0	0	2
04BB0206	Advanced Spreadsheet Applications	2	0	0	2
04BB0207	Fashion Designing	2	0	0	2
04BB0306	Tourism Management	2	0	0	2
04BB0307	Graphic Design	2	0	0	2
04BB0406	Mutual Funds	2	0	0	2
04BB0407	Financial Statement Analysis	2	0	0	2
04BB0506	AI And ML in Management	2	0	0	2
04BB0507	Block Chain Technology	2	0	0	2
04BB0508	Cyber Security	2	0	0	2
04BB0606	Indian Language	2	0	0	2
04BB0706	Six Sigma	2	0	0	2
04BB0806	Softwares For Literature Review	2	0	0	2

INDUSTRY COLLABORATIONS

Marwadi University is committed to providing its students with cutting-edge skills that align with industry standards and emerging trends. To achieve this, the university has established strategic collaborations with leading industry partners and NSDC (National Skill Development Corporation) sector skill councils. These partnerships aim to equip students with practical, industry-relevant skills through a range of specialized courses.

Following are Highlights of the Courses offered in collaboration with Industries

BOSCH REXROTH AUTOMATION



A Bosch Company

Courses offered:

- Basic and Electro Pneumatics Control
- Basic and Electro Hydraulics Control
- PLC programming
- Sensorics

CISCO NETWORK ACADEMY



Courses offered:

- Programming Essentials in C++
- Networking Essentials
- NDG Linux Essentials
- Introduction to Cyber Security
- Cyber Security Essentials
- Switching, Routing, and Wireless Essentials
- Introduction to Networks
- Get Connected

COGNITIVE AI CLASSES BY IBM



Courses offered:

- Python for Data Science

INFOSYS SPRINGBOARD:



Courses offered:

- Basic C Sharp Programming
- Advanced Java Programming
- Advance Your Career with MATLAB Programming
- Data Visualization Using Excel

AMAZON WEB SERVICES



Courses offered:

- Cloud Foundation
- Data Engineering

ORACLE ACADEMY



Courses offered:

- Java Programming
- Database Programming with SQL

CAPITAL GOODS SKILL SECTOR COUNCIL:



Courses offered:

- CNC Programmer

The collaboration between Marwadi University and its industry partners, along with the NSDC sector skill councils, plays a pivotal role in bridging the gap between academic learning and industry requirements. These specialized courses not only enhance the employability of our students but also ensure that they are well-prepared to meet the demands of a rapidly evolving job market. Through these initiatives, Marwadi University continues to uphold its commitment to providing high-quality education and training that aligns with industry standards and practices.

CERTIFICATION PROGRAMS

FACULTY OF ENGINEERING AND TECHNOLOGY

Mechanical	Computer Aided Modelling
	Design Thinking and Problem solving
	Advance Welding Technology
	Basic & Electro Hydraulics Course
	CNC Programmer
Chemical Engineering	Parametric Analysis of Fluid Flow Behaviour Using Ansys-Fluent
	Water Quality Testing and Analysis
	Process Simulation Using DWSIM
	MATLAB For Chemical Engineers
Electrical Engineering	Panel Wiring with AutoCAD Electrical
	PCB Designing and Fabrication
	Rooftop Solar Grid Engineer
	Plc Automation
	Internet Of Things (IoT)
Computer Engineering	Database Programming with SQL
	Networking Essentials
	CCNAv7: Introduction to Networks
	NDG-Linux Essentials
	CCNAv7: Switching, Routing, and Wireless Essentials
Information Technology	Data Visualization Using Excel
	Advance Your Career with MATLAB Programming
	Oracle: Database Programming with SQL
	Python for Data Science
	Advanced Java Programming
	NDG Linux Essentials
	Basic C Sharp Programming
	Networking Essentials
	Java Programming
	Programming Essentials in C++

Information and Communication Technology	API Postman
	AWS Academy Data Engineering
	Data Analysis using Power BI
Civil Engineering	Land Surveying Technique
	Design & Maintenance skills for Pavements
	Construction site supervision skill
	Assistant Surveyor Roads
	Construction Supervision for Roads and Runways
	Site supervisor for environment, health and safety
CE- Bio Informatics	Python for Biologist
	Bioinformatics Data Processing and Analysis: A Beginner Practical Guide
CE-AI	Oracle: Database Programming with SQL
	AWS Academy Cloud Foundations (ACF)
	Data Visualization with Python
	Data Structures & Backend with Java
	Networking Essentials
	CISCO: Linux Essentials
	CPA: Programming Essentials in C++

FACULTY OF COMPUTER APPLICATIONS

Bachelor of Computer Applications	Graphics Designing Tool
	Word press & Joomla
	Django
B.Sc. I.T.	C# .Net
	Web Designing UI/UX
	Game Development
B.Sc. Data Science	Excel for data science
	Power BI
Master of Computer Applications	Web designing UI/ UX
	Mean Stack

FACULTY OF SCIENCE:

Microbiology	Basics of Statistics in Life Sciences
	Human Value and Ethics
	Personality Development
Chemistry	Basics of Statistics in Life Sciences

FACULTY OF HEALTH SCIENCES:

Physiotherapy	Yoga (Basics)
	Yoga Wellness Trainer

STUDENT PARTICIPATION AND ENGAGEMENT

ENROLLMENT STATISTICS

In the academic year 2023-24, Marwadi University took significant strides in enhancing its students' skill sets by offering 70 diverse certification skill courses across various programs. These courses were instrumental in providing practical knowledge and hands-on experience, benefiting approximately 6,700 students from different faculties and programs. The university's commitment to fostering skill development is evident through the wide range of subjects offered, designed to prepare students for the evolving demands of the job market and ensure they are equipped with industry-relevant skills.

Within the Faculty of Engineering, the emphasis on skill enhancement was particularly strong, with 41 different courses conducted, enrolling over 4,500 students. These courses covered a broad spectrum of technical and emerging areas, with some of the most sought-after courses being Linux Essentials, Introduction to Networks, Database Programming with SQL, and Python. These courses attracted a high number of students due to their relevance to modern engineering practices and industry needs. Additionally, advanced courses in Automation and IoT (Internet of Things) also saw considerable interest.

The Faculty of Computer Applications also made a substantial contribution to the skill development initiative, offering 9 specialized courses that benefited over 1,300 students. These courses were carefully curated to address the increasing demand for expertise in web and application development. The most popular courses included Web Designing, UI/UX (User Interface/User Experience) Design, Graphics Designing Tools, and MEAN Stack Development.

Beyond engineering and computer applications, other faculties also played a pivotal role in promoting skill development. The Faculty of Health Sciences, Faculty of Law, and Faculty of Sciences collectively offered 20 different skill courses, with around 900 students benefiting from these specialized training programs. These courses covered a variety of topics relevant to their respective fields, enabling students to gain practical skills and knowledge that complement their academic studies.



BASIC & ELECTRO HYDRAULICS



CNC PROGRAMMER



CAD (MECHANICAL ENGINEERING)



SURVEYOR



DESIGN & MAINTENANCE SKILLS FOR PAVEMENTS



QUALITY CONTROL



ORACLE: DATABASE PROGRAMMING WITH SQL



AWS ACADEMY DATA ENGINEERING



LINUX ESSENTIALS



PLC PROGRAMMING FOR AUTOMATION



WEB DESIGN USING UI/UX



MEANSTACK



FARM MACHINERY



LIFE SCIENCE



WATER QUALITY TESTING



CLINICAL TRAINING



PYTHONFOR BIOLOGIST



PHARMACEUTICAL MANUFACTURING TRAINING



PHARMA INDUSTRIAL TRAINING



DESIGN THINKING AND PROBLEM SOLVING

FEEDBACK FROM STUDENTS

Feedback was collected from students who underwent training in skill development courses, focusing on several key parameters. These included the quality of course content, the effectiveness of course delivery, the perceived usefulness of the course in practical applications, the efficiency and impact of the instructors, and the overall satisfaction with the training experience. This comprehensive feedback provides valuable insights into how well these skill courses are equipping students with the necessary competencies and meeting their expectations.

COURSE CONTENT

Students overwhelmingly praised the course content, with many expressing that it was well-structured and highly relevant to their skill development needs. The majority found the materials both challenging and applicable to real-world scenarios, reflecting a strong alignment between course objectives and industry standards.

COURSE DELIVERY

The effectiveness of course delivery was another highlight, with students commending the instructors for their clear and engaging teaching methods. The use of a variety of teaching aids, such as multimedia presentations and interactive sessions, was particularly appreciated. This diversified approach helped maintain student interest and facilitated a deeper understanding of complex concepts.

USEFULNESS OF THE COURSE

When it comes to the usefulness of the course, students reported high levels of satisfaction, indicating that the skills and knowledge gained were directly applicable to their current or future careers. Many felt more confident in their abilities and prepared to tackle professional challenges, which underscores the effectiveness of the courses in bridging the gap between education and employment.

EFFECTIVENESS OF INSTRUCTORS

The instructors received high praise for their expertise and ability to communicate complex ideas in an understandable manner. Their willingness to provide extra help and address individual student queries was also noted as a significant positive aspect. Students appreciated the instructors' deep knowledge of the subject matter and their enthusiasm for teaching, which greatly contributed to a positive learning environment.

OVERALL SATISFACTION

Overall satisfaction with the skill courses was impressively high. Students expressed a strong likelihood of recommending these courses to others, citing the combination of relevant content, effective instruction, and practical application as key reasons for their positive experiences. The feedback highlights that the skill development courses are successful in meeting the educational and professional needs of the students.

CONCLUDING REMARKS

The Academic Year 2023-24 marks a significant chapter in Marwadi University's commitment to skill development, reflecting its proactive approach to equipping students with industry-relevant skills. The university's strategic focus on hands-on learning, interdisciplinary expertise, and strong industry collaborations has provided students with a holistic education that blends theoretical knowledge with practical applications. The introduction of 70 diverse certification courses has been instrumental in enhancing the competencies of approximately 6700 students across various faculties.

Through specialized programs in areas such as Automation, Artificial Intelligence, Data Science, and Web Development, the university has ensured that its students are well-prepared to meet the evolving demands of the global job market. The focus on soft skills, entrepreneurial training, and continuous learning has further reinforced Marwadi University's role in fostering graduates who are not only technically proficient but also adaptable and forward-thinking.

The positive feedback from students, with high satisfaction rates in course content, delivery, and instructor effectiveness, underscores the success of these initiatives. As Marwadi University continues to innovate and expand its skill development offerings, it remains steadfast in its mission to produce graduates who are not just academically qualified but are also skilled professionals ready to lead in their chosen fields.

With a robust framework in place for future growth, including initiatives like the AI Center of Excellence and expanded industry collaborations, the university is poised to maintain its leadership in skill development, ensuring its students are well-equipped for the challenges and opportunities of tomorrow's workforce.



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