

# EXECUTIVE SUMMARY

## 1.1 INTRODUCTION

Medi-Caps University, Indore is one of the most reputed organizations for technical and professional education in central India. Since its inception, the group has constantly sought to foster an environment that assist nascent technocrats develop into actual professionals. Started from 1999, four colleges were established: International Institute of Foreign Trade and Research, Medi-Caps Institute of Technology and Management, Medi-Caps Institute of Science and Technology, and Medi-Caps Institute of Techno Management. Medi-Caps University was established in 2015 with a mission to build a conducive environment for aspiring technocrats and help them to become true professionals. Faculty at University are its greatest asset. They are highly competent. Since last 23 years, this has aided in honing the credentials of our graduating students in a variety of sectors, including engineering, management, pharmacy, agriculture, and sciences.

University offers 25 UG, 15 PG, 1 Integrated PG and 17 Doctoral programs in across 7 faculties i.e. Engineering, Management Studies, Commerce, Science, Pharmacy, Agriculture and Arts & Humanities. In academic year 2022-23, university had around 400 faculty members and around 10,000 students.

There are seven Departments of Engineering i.e. Civil Engineering, Computer Science & Engineering, Electrical Engineering, Electronics and Communication Engineering, Information Technology, Mechanical Engineering, Computer Application; five Departments of Science i.e. Computer Science, Chemistry, Forensic Science, Mathematics, Physics; one Department of Management Studies i.e. Management Studies; one Department of Agriculture i.e. Agriculture; one Department of Art and Humanities i.e. Communication Skill; one Department of Commerce i.e. Commerce; one Department of Pharmacy i.e. Pharmacy. From year 2023-24, a new department of Biotechnology is introduced.

All the B.Tech., MTech., M.C.A. and M.B.A. programs are AICTE approved, B Pharm. Program is PCI approved and remaining programs are approved by UGC. The University is also recognized in 2(f) category of UGC Act. Campus area of university is 28.62 acres and build up area is 83513.78 sq. mts.

## Vision

Be an internationally acclaimed University recognized for its excellent teaching, research, innovation, outreach and creating top class technocrats and professionals who can serve mankind as multi skilled global citizens.

## Mission

- Establish state-of-the-art facilities for world class education and research.
- Conduct scholarly research and creative endeavours that impact quality of life.
- Attract quality staff and students to cater for diverse needs and preferences and widen participation.

- Build a foundation for students to be successful at all levels through high-quality, innovative programs.
- Collaborate with institute, industry, and society to address current issues through research and align curriculum.
- Involve in societal outreach programs to identify concerns and provide sustainable ethical solutions.
- Encourage life-long learning and team-based problem solving through an enabling environment.

## 1.2 Strength, Weakness, Opportunity, and Challenges (SWOC)

### Institutional Strength

1. One of the prestigious private universities of Central India.
2. 58 academic programs across 18 departments in areas of technology, management, agriculture, science, pharmacy, and arts.
3. Choice Based Credit System (CBCS) and Outcome Based Education is implemented in all these 44 programmes. All the courses have components which enhance employability, entrepreneurship, and skill development.
4. Remarkably good Faculty Student Ratio leading better student mentoring
5. Highly qualified faculty members
6. Good faculty retention
7. Transparency in Examination system (answer books are shown to the students before the declaration of results)
8. 100% automation in Examination system leading to quick release of results
9. Innovative practice of giving seed money to teachers for their research work
10. Technology Business Incubation facilities in the name of Medi-Caps Innovation and Incubation Centre (MIIC) with 05 start-ups incubated during the last five years.
11. 170 MoUs with national and international research laboratories/ institutes/industries
12. All the building of the campus are Wi-Fi enabled with 1 GBPS internet support
13. Decentralized and participative management with representation from government, academicians, experts from industries, local bodies, students etc.
14. Strong alumni network
15. Geographic location advantage such as well-connected location on national highway Mumbai-Agra Road and near to Special Economic Zone (SEZ) Pithampur.
16. Affordable fee structure
17. Able leadership
18. Excellent student discipline
19. Excellent placements
20. High demand for admissions
21. Better internship opportunities
22. Effective teacher guardian scheme
23. Good grievance redressal mechanism
24. Better general infrastructure
25. State-of-the-art library and auditoriums.

## **Institutional Weakness**

1. Being a state private university, success in attracting diverse talent from other states is limited
2. Sole dependence on self-funding for sustenance
3. Limited scope for infrastructure expansion due to land constraints.
4. Being predominantly a techno management university, limited scope for Student Progression to Higher Education
5. Limitation of fund utilization because of moderate fee structure compared to more aggressive styles of private chain of universities.
6. The university needs more experienced teaching staff to meet the benchmarks of Faculty Cadre Ratio.
7. Average quality of laboratories
8. Less research work and grants received
9. Less advantage of Fellowships

## **Institutional Opportunity**

1. Student admissions and faculty recruitments from other states and abroad need to be improved for better diversity
2. From being a reputed state private university, potential to emerge as an Institution of Eminence in India.
3. Start new programmes and revamp existing curriculum in line with New Education Policy
4. Scope to implement a better and transparent faculty Career Advancement Scheme (CAS)
5. Scope for improvement in faculty and student training system
6. Scope for improvement in teaching-learning pedagogy for better implementation of Outcome Based Education (OBE)
7. Strengthen the Make in India and Atmanirbhar Initiatives by introducing new programmes and courses aimed at national requirements
8. Strengthen the Problem Based Learning (PBL) culture
9. Make the best out of the Start-up India initiative by scaling up existing incubation centre and actively promoting entrepreneurship
10. Take benefit from the Digital India flagship programme of the Government of India started with a vision to transform India into a digitally empowered society and knowledge economy and start a Digital University
11. The State Government's policy of keeping Higher Education as a top priority for the next five years
12. Initiatives by the state government to promote industry academia collaboration and start-up ecosystem
13. Potential to tap into the emerging skill development market opportunities by aligning with policies of Central and State Governments
14. Scope for increase in faculty with quality publication
15. Scope for more prospective faculty-research/community project funding at national and international levels.
16. Scope for enhanced alumni engagement in academic and research projects
17. Scope for better Interdisciplinary Research and inter-disciplinary academic programmes
18. Scope for improvement of perception/community reputation
19. Scope for improvement in rankings by various agencies
20. Scope for increase in accommodation facilities available for outstation students
21. Improving accommodation for faculty in the campus

## **Institutional Challenge**

1. Attracting the best students from outside states and countries
2. Direct competition from more aggressive styles of private chain of universities.
3. Attracting diverse national and international faculty and promoting diversity.
4. Documentation of all the academic and non-academic activities on campus
5. Ensuring national level accreditation for all programmes on campus
6. Providing a global learning ambiance to students/ scholars/ faculty
7. Achieving 100% placement for the registering candidates
8. Inappropriate Faculty Cadre Ratio
9. Lack of Online programs
10. Less number of MOOC courses run by faculties
11. Challenge to adopt sustainable development due to shortage of land area

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

Each programme of university has clearly defined goals that are reflected in the curriculum, Programme Outcomes (POs), Programme Specific Outcomes (PSOs), and Course Outcomes (COs). POs, PSOs, and Cos have been chosen to support local, national, regional, and global development.

After getting feedback from all stakeholders, curriculum is created to meet the needs of the market. This helps students transition from the classroom to the workplace and helps them develop their skills and entrepreneurialism. Additionally, included in the curriculum, are the development of soft skills and personality development.

University has a Choice-Based Credit System (CBCS) for all programs to offer flexibility in at UG and PG levels, thus allowing them to select courses of their choice thereby fulfilling their credit requirements. University has adopted the new National Education Policy (NEP) across various programs to allow multidisciplinary and holistic education.

University offers various elective courses across all disciplines and has also implemented CBCS and Elective course systems across all programs run by the university.

29.7% new courses added across all the program offered. 509 courses are focused on employability.

We consider societal issues including gender equality, environmental awareness, professional ethics, moral values, and human values to be integrated into the curriculum at our university.

For the first year, an orientation course focused on morals and values is conducted. Courses like "Understanding the Human Being Comprehensively Human Aspirations and Its Fulfilment," "Universal Human Values & Professional Ethics," and others are crucial components of the curriculum. It offers pupils a free environment for instilling principles and fostering ethical competence. It is in response to a long-felt and pressing need to combine decision-making abilities with value education in their personal, social, and professional lives.

The university has provided more than 60 value-added courses to teach students practical and life skills.

University has a robust feedback system. Feedback for syllabus revision and new course design are taken from our stakeholders, students, parents, teachers, alumni, also from industry experts/employers. It helps in improving the syllabus as per local and global industry needs. University follows the defined procedures to revise/amend the existing curricula based on feedback analysis.

## **Teaching-learning and Evaluation**

Admission processes are governed by the rules of government, UGC and other applicable regulatory bodies for various programs. 13428 seats were filled against 13493 sanctioned seats making enrolment percentage more than 99 percent.

Above 80% of seats were filled against reserved categories as per applicable reservation policy during the last five years.

University has a clear system for tracking and grading its students continuously.

Slow learners receive separate coaching from teachers. Advanced students receive specialized tutoring to improve their performance. Healthy Student-teacher ratio is maintained.

Student-centred teaching strategies are used. ICT-enabled learning, project-based learning, internships and field projects, seminars/workshops and industrial visits are some of the student-centric approaches used.

Exam's questions were framed using Bloom's taxonomy. Teaching techniques include Microsoft Team, Zoom for online mentoring.

Online resources are continuously added to the central library. Keeping in mind, the objectives of Object-Based Education, format of course file has been revised accordingly.

Training needs of the faculty are identified, and it is used to depute/train the faculty member in the required domain. University also offers various career enhancement schemes. Above 90% of full-time teachers are appointed against the number of sanctioned posts.

Reforms to evaluation introduced by the University are online examination, in-semester examination, and credit-based system are adopted by the University. Continuous evaluation of practical work, assignments, and tutorials forms part of formative assessment whereas summative assessment takes into account the in-semester examination and end-semester examination with due weightage to formative assessment. Industry representatives/working professionals are involved in project review.

Transparency is ensured for internal assessment by declaring the outcomes and the scores to the students. Before declaration of results, students are allowed to view their exam copies. As a result, less than one percent of students filled grievances.

To determine the degree of target achievement, the learning outcomes are evaluated and measured. On average, the pass percentage during the last five years has been around 94%.

We collect student's satisfaction through feedback forms on various parameters like Courses offered, coursework, quality of teaching, knowledge of teachers, testing methods, grading methods, teaching aids, extracurricular activities, infrastructure, and transport facilities.

## **Research, Innovations and Extension**

Medi-Caps University has a clear research policy. It also offers infrastructural facilities, financial support for research papers/patents and seed money for promotion and research. For supporting research, the University has well established Central Instrumentation Centre having research labs with sophisticated instruments and other supporting facilities.

Above Rs. 10 Crores has been given to the teachers for research and innovation. Around 72 JRFs/Research Associates enrolled

In last five years a total of 18 Rs Lac has been received as grant for research funding by university and its faculties through government and non-government sources. This amount encompasses 78 research projects.

Medi-Caps Innovation and Incubation Center (MIIC) was established in 2018, encourages young talents and innovators, helping them develop commercially viable products and services and transform their business ideas into successful startups.

University sensitizes students and faculty to enroll in Indian Knowledge System (IKS) courses. Faculty members have done some courses and attended seminars and conferences.

IPR cell was established in the year 2021 under MIIC. It supports Incubation and Pre-Incubation in various domains and provides need-based services. University has a Technology Enabling Centre (TEC), which creates an Ecosystem for Technology Development in the Universities and provides a platform to network researchers with other institutes, National laboratories and industry. National Institute of Agricultural Extension Management (MANAGE), ministry of Agriculture and Farmers Welfare, Government of India has recognized Faculty of Agriculture, as Nodal Training Institute for Agri-Clinic and Agri-Business scheme.

University has a stated Code of Ethics for research. Around 30 research scholars have been awarded Ph.D. Around 705 research in referred journals and 650 books/book chapters have been published. Faculties have developed e-content that is available on institutional LMS and some other MOOC platforms.

University conducts outreach programs throughout the year through NSS/NCC.

For the academic and research development of teachers and students, University has engaged in several joint activities with other organizations, research establishments, and industries. For internships, industry internships, project work, student and faculty exchanges, and collaborative research, university has signed around 190 MoUs with numerous institutions and industries in India and overseas.

## **Infrastructure and Learning Resources**

Campus of Medi-Caps University Indore has been created with contemporary amenities and educational resources. Each faculty member has a fully equipped workspace with 1 GBPS internet connectivity. The laboratories and classrooms are all roomy. Students have access to a variety of sports facilities. There are enough meeting rooms, theatres, and amphitheatres to host literary, cultural, and indoor sporting events. There is an indoor and an outdoor gym in campus as well. Faculty accommodation for around 50 faculties and a students' hostels for around 900 students are available. A Yoga room and temple is also there to spread positive vibrations. University has done an expenditure of around 40% for infrastructure development and augmentation.

University has a separate 3 floored building for the central library which has a total built-up area of 29240.6 Sq Feet. The total seating capacity of the central library is 500. Central library has 1.1 Lac. Books, 18000 online books and more than 3.2 Lac. e-Journals. It has around 50 desktop computers used to access online books and journals via National Digital Library, Delnet, J-gate etc. It is automated using open software "KOHA". Central Library also purchased Trunitin Plagiarism Detection software.

A round 2200 computers are available for use of students. University has facilities for e-content like Audiovisual center, mixing equipment, editing facilities and Media Studio, Lecture Capturing System(LCS), Central Instrumentation Centre, Museum, Business Lab, Research/statistical database, Theatre and Art Gallery.

University has systems and procedures for maintaining and utilizing physical, academic and support facilities laboratory, library, sports area, computers, classrooms etc. Feedback/inputs are taken from stakeholders for effective maintenance. Through complaint/requisition Books and QR codes, complaints/requisitions are registered and then assigned to different staff/departments. University has well-established Systems and procedures for utilization of physical, academic, and support facilities.

## **Student Support and Progression**

Entrepreneurship Cell (E-Cell) and Career Development Cell (CDC) have coordinated training programmes focused on interview skills, current trends in job prospects programmes aimed at enhancing soft skills. Seminars and expert lectures on career guidance and counseling help students gain the knowledge, skills, and experience needed to understand opportunities, consider alternatives, and succeed in society.

Mentoring through Mentor-Mentee scheme, conducting sessions on communication and personality development.

Around 70% students are benefited by scholarships and freeships provided by the institution, Government and non-government agencies (NGOs). Student welfare schemes such as health check-ups, Bank facilities etc. are provided.

Around 70% students have got the job placement, 5% students have progressed to higher studies in India/abroad and 1.5% students have qualified in state/national/international level examinations.

Student council is present for institutional development and student welfare. There are various clubs formed

and run by pupils. As a result of that a good number of students have won awards.

University has a rich heritage of over 23 years and over 20,000 graduates. The Medi-Caps Alumni Association has been steadily creating local chapters in a variety of places like Pune, Bangalore, Mumbai and Indore. Many alumni are serving in the government as IAS, IES, IPS, and other officers.

Alumni Association has already granted financial support to some of the needy students in the sum of Rs. 60 lakhs.

Our alumni also help their alma matter by mentoring them under Mentor-Mentee. Alumni regularly deliver expert talks, motivation sessions etc. Alumni are part of many important bodies like Departmental Council, IQAC, BoS etc. This practice helps in incorporating alumni' views/feedback in framing various policies, resulting in an inclusive learning environment.

## **Governance, Leadership and Management**

University is committed to achieve its vision and mission which is clearly reflected in its working methodologies and policies.

For decentralization, bodies as per the statue of the University are present like Governing body, Board of management (BoM), Academic Council (AC), Board of Studies (BoS), Departmental Council (DC), Finance committee, Examination Committee etc., that are properly functioning in University.

Leadership of University with the participation of its all stakeholders decides it's short term and long term goal in its enthusiastic journey towards achieving its mission and its vision.

University's Planning and Development Board plans major things such as the addition of new UG/PG programmes and/or applying for additional intake for the existing programmes. It is responsible for executing, the strategic plan with respect to the creation of development of new infrastructural facilities such as departments/ playgrounds/ library hostel & other amenities, starting of new courses, recruitment of staff members etc.

There are many schemes for the welfare of the teaching and non-teaching staff. At Medi-Caps School and University, fee concessions is granted for wards of the employee, Fee concession is provided to the staff who enroll for Doctorate programme at the University, Paid Maternity leave are given to the female employees for 45 days, Staff welfare policy is available to grant funds to the faculties in case of any emergency situation, incentive for research work are also provided, best faculty awards are given to the faculties of every department, In Employee's Provident Fund, University contributes equally, group insurance policy is available for the staff, gratuity is provided to the staff, medical facility viz. OPD (dental, general medicine, ophthalmic) is available for staff in campus etc.

University raises resources through self-financing and a variety of courses offered by the university. Since 2016 the Internal Audit & Inspection Section in the Finance section of university has been staffed with skilled individuals under the direction of the Finance Officer to ensure the upkeep of the university's annual accounts and balance sheets.



Internal Quality Assurance Cell helps in streamlining their operations and achieving goals for learning outcomes and objectives. IQAC was established in 2016.

## **Institutional Values and Best Practices**

To create a safe, secure, and healthy environment on campus, University educates students and staff on gender equity and gender sensitivity. University also accepts the social duty of responding to events occurring in society through various projects and actions.

University Campus is surrounded by lush greenery and sumptuous natural beauty. The practice of reducing, recycling, and reusing common items and accessories has been created to make the campus environment friendly. Awareness has been created on the campus through sign boards of directions and venues for visitors.

The waste like paper, plastics, glass, metals, food, etc, that is generated by all sorts of routine activities carried out in departments, labs, canteen, mess, hostels, cafeteria etc. is segregated at each level.

Recycled wastewater is used in gardening.

For the promotion of unity in diversity, NSS Cell was developed. The objective of NSS cell was to sensitize stakeholders about the importance of communal harmony, national integration, and fraternity. University organizes National Festivals as well as Anniversaries for the Great Indian Personalities such as Teachers Day, Engineers Day, International Women's Day, International Yoga Day, Independence Day, Republic Day, World Environment Day, Science Day, NSS Day, etc.

University has adopted several best practices like up-skilling and re-skilling of faculty and non-faculty members and Robust academic monitoring system.

University is working distinctively in the field of Transparent Evaluation System.