



MUFFAKHAM JAH COLLEGE OF ENGINEERING & TECHNOLOGY

(Established by Sultan-Ul-Uloom Education Society in 1980)
(Affiliated to Osmania University, Hyderabad)
(Approved By The AICTE & Accredited By NBA)

Ref: 393/MJ/25/280

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UNDERTAKING

We hereby undertake that we have complied with various UGC regulations and guidelines, particularly the rules, regulations and guidelines pertaining to:

**‘Guidelines for Institutional Development Plans for Higher Education
Institutions’**

and the same has been made available on the college website prominently.

College web site: (www.mjcollege.ac.in)




Dr. Mahipal Singh Rawat

PRINCIPAL

PRINCIPAL
Muffakham Jah College Of
Engineering & Technology
Banjara Hills, Road No. 3,
HYDERABAD-500 034.(T.S.)



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(SULTAN UL ULOOM EDUCATIONAL SOCIETY)

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INSTITUTIONAL DEVELOPMENT PLAN

2025-2030

The Institutional Development Plan (IDP) of MJCET is a roadmap for the future of the institution. It outlines the institution's Vision, mission and goals, as well as the strategies that will be used to achieve those goals. The well-crafted development plan can help the institution to stay focused, make informed decisions and achieve its desired outcomes.

VISION

To be a part of the universal human quest for development and progress by contributing high calibre, ethical and socially responsible engineers who meet the global challenge of building a modern society in harmony with nature.

MISSION

- To attain excellence in imparting technical education from the undergraduate to through doctoral levels by adopting coherent and judiciously coordinated curricular and co-curricular programs.
- To foster a partnership with industry and Governmental agencies through collaborative research and consultancy.
- To nurture and strengthen auxiliary soft skills for overall development and improved employability in multicultural workspace.
- To develop scientific temper and spirit of enquiry in order to harness the innovative talents.
- To develop a constructive attitude in the students towards the task of nation-building and empower them to become future leaders.
- To nourish the entrepreneurial instincts of the students and hone their business acumen.
- To involve the students and faculty in solving local community problems through economical and sustainable solutions.

OBJECTIVES

- Nurturing students to become successful in their academics, career and future endeavors.
- Improving employability skills of the students.
- Encouraging students and faculty members to bring innovative ideas.
- Motivating students for self-employment which in turn leads to Entrepreneurship.
- Attracting the MSME investments into the incubation and startup ecosystem within the Institution.
- Networking with the stakeholders and maximizing industry academia engagement.

SHORT TERM GOALS:

- To further improvise results, increase the number of students going for higher studies by clearing various entrance exams.
- To improve sports, cultural activities and literary performances of students in inter and intra college competitions
- To encourage and support professional development and welfare of staff.
- To motivate faculty and students towards research and innovation by conducting interactive seminars and workshops with experts from Research, Innovation, Startups and Entrepreneurship.
- To conduct field visits to industries, incubation centres and research organizations.
- Conducting intra and inter institutional competitions in research and innovation.
- Extending financial support to the R & D projects.
- To encourage and guide the students to take up innovation and entrepreneurship as part of their higher education and to motivate the students to do internships at external incubation centres.
- To improve the employability skills of the students.

LONG TERM GOALS

- To strengthen R&D, Innovation Cell, Incubation Centre and IPR Cell of the institution by allocating funds in the budgets.
- To prepare long term plans for the above centers.
- To identify Key Performance Indicators and reward accordingly.
- To train young innovators and faculty members periodically in writing project proposals to various funding agencies.
- To train the students towards Entrepreneurship, Startups, Self-Employment and providing employment to others.
- To apply for patents for all novel innovations.
- To publish all the research outcomes in UGC recognized / Scopus Indexed Journals.
- Expand the engineering outreach program to reach more underserved communities.
- Develop add-on programs that incorporate the latest advances in core engineering and emerging engineering fields and industry practice.

SWOC ANALYSIS OF MJCET

Institutional Strengths

- Centrally located in the heart of Hyderabad city, the capital of Telangana with eco-friendly Green Campus spread over an area of 24 acres.
- Institution offers seven B.E. (900 intake) and five M.E. courses (84 intake).
- Establishment of OU recognized Research Centers in five departments. Allotment of 63 research scholars by Osmania University.
- Accreditation of 4 programs for 3 years by NBA, A⁺ grade with 5 years by NAAC in 2024.
- Institution included under sections 2(f) and 12(b) by UGC.
- Institution ranked in 150-200 band by NIRF.
- Institution ranked 42nd by India today, 52nd by The Week magazine, 68th by India Today magazine. This is national ranking given by magazines for 2024.
- Participation in all the AICTE and MHRD recommended activities.
- Wi-Fi enabled campus. Faculty and students can avail free authorized Wi-Fi service.
- ICT enabled class rooms and seminar halls.
- Well-equipped laboratory and computational infrastructure facilities with state of the art equipment.
- Fully automated Central library with over 6500 plus volumes and access to online National and International E-Journals through subscription to three databases, national journals and e-books.
- CCTV monitored campus for security
- Proactive Management support for Institute's academic and co-curricular activities.
- Qualified and experience faculty with about 25% of them possessing Ph.D. degree.
- Effective placement training and consistently good student placements in reputed companies.
- Facilitation of Faculty and Students activities by the management (faculty – Study Leave, Sponsoring of Faculty for Workshops, Seminars, Conferences, FDPs, Orientation and Refresher courses, R&D funding. Students – Industry oriented

certification and training programs, professional student chapters, incubation center etc.)

- Top ranks of students in the Osmania University Merit List.
- Financial support for research paper publication to Faculty.
- IIT Bombay nodal center for MHRD's MOOCs program under which many FDP and training programs are offered for the faculty and students.
- Recognition as NPTEL nodal center with enrolment by students and faculty.
- Good indoor and outdoor sports facilities for students and staff.
- Establishment of student professional chapters like IEEE, ACM, IEI, ICI, EWB-India, SAE, CSI, GDG, MSS, E-Cell etc.

Institutional Weakness

- Affiliated college status due to which freedom to adopt our own curriculum is not available and introduction of new courses in areas of emerging technologies is not possible. In such a scenario we have to offer these courses as out of curriculum content which will be optional and cannot be made mandatory.
- Non-availability of adequate Associate Professors to meet the norm of 1:2:6. In most cases, faculty is offered Professor's post on obtaining Ph.D. degree. Hence it is difficult to retain them in Associate Professor cadre.
- Inadequate sponsored / funded research projects and TEQIP funding. Efforts are being intensified after inclusion of the college in sections 2(f) and 12(b) of UGC.
- Weak industrial consultancy work.
- Weak placement trends in core industries of Civil, Mechanical and Electrical engineering sectors.
- Non-availability of visiting and adjunct faculty from industry.

Institutional Opportunities

- Harnessing Alumni base for Institutional growth. The college Alumni are well placed and spread across thus leveraging their professional success and global presence the college can expand its influence, foster collaborative partnerships, and create opportunities for current students.
- Take advantage of Institute's central location to improve with universities, R&D organizations, corporate and Governmental agencies.
- Take advantage of the vast IT hub in the vicinity of the institution for securing internships for the students, inviting the industry professionals for delivering guest lectures and appointing guest faculty.
- Promoting more startup registrations through the newly formed incubation center.
- Directing collaborative multi-disciplinary research of R&D cell towards solving challenges faced by community.
- Securing IPR for innovative ideas and products emerging out of R&D projects. A systematic approach can be adopted in order to identify projects with high potential for patent application with the assistance of IPR consultant.
- Counseling students to appear for competitive examinations like UPSC, GATE, CAT, GMAT, TOEFL, GRE etc.
- Organizing coaching classes for competitive examinations in collaboration with reputed institutes.

Institutional Challenges

- Retaining the national ranking of the institution in competition with autonomous colleges, deemed universities and private universities. At the national level, the college was placed in the 150-200 band by NIRF. All India ranks accorded by national level magazines for 2024 are: 42nd by India today, 52nd by The Week magazine, 68th by India Today magazine.
- Retention of qualified faculty. It is observed that on acquiring Ph.D. degree, the faculty is prone to migrate to other institutions lured by the designation of Professor. At MJCET, the recruitment norms of AICTE are followed strictly. In this

situation, efforts are made to retain the faculty by offering special allowance and fast track promotions.

- Overcoming the shortage of Associate Professors since the faculty has opportunities of being designated as Professors in other institutions on acquiring Ph.D. degree.
- Maintaining the quality of the incoming student. As more and more institutions join the league of good colleges, student quality is likely to be impacted, not only in MJCET but collectively along with other institutions.
- Providing placement to graduates in core sector industries.
- Maintaining the placement consistency in IT sector jobs. Economic slowdown of the IT sector is a more frequent phenomenon than the core sector.
- Incorporating add-on out of curriculum course modules to comply industry requirements. This is a challenge because of lack of free slots in the academic schedule and availability of qualified faculty in the emerging areas of technology.
- Strengthening networking with universities, research organizations and corporate. With the advent of internship in the curriculum, the competition is likely to intensify further for MoU with industry and corporate.
- Securing research funding from AICTE, DST and similar organizations.

Institutional Development Plan: 2025-30

Our IDP is a road map of strategies to achieve the vision, mission and goals of the institution. It is prepared by taking inputs from all stakeholders.

Strategy #1: Good Governance and Quality Assurance.

- Decentralization of governance, starting from Board of Governors to Governing Council, IQAC, various statutory committees, etc., for ease of governance and to ensure standards are maintained.
- To adopt e-governance.
- To continue to get accredited by NBA and NAAC.
- Applied for UGC Autonomous status.
- Participation in NIRF and ARIIA rankings by Ministry of Education.
- To adopt and implement National Education Policy (NEP) and National Innovation and Start-Up Policy (NISP) of Government of India.

Strategy #2: To establish better academic practices and curriculum enrichment.

- To adopt learner centric academic practices and procedures to train quality teachers.
- Improving the course delivery to meet learning & assessment as per Bloom's Taxonomy levels.
- To enrich the curriculum to fulfil the curricular gaps and introduce skill-based courses and certificate programs.
- Strengthening of Outcome Based Education (OBE).
- Promoting the use of latest ICT tools in teaching and learning.
- Revision of examination regulations & procedures.

Strategy #3: To encourage Staff Professional Development and provide Staff Welfare thus increasing their competency.

- Encourage staff participation in refresher courses organized by reputed institutions.
- Organizing faculty development programs, workshops and refresher courses.

- Encouragement for publishing books, research papers in UGC Care Journals, Scopus etc.
- Encouragement for participation in Conferences and Seminars.
- Encouragement for Qualification Improvement and all possible help for pursuing Ph.D. programs.
- Awards to faculty for overall contribution and faculty incentive schemes.
- Encouraging non-teaching staff to upgrade their qualifications and skills followed by rewards.

Strategy #4: To produce professionally competent and ethically strong graduates.

- Strengthening of courses on life skills.
- Encourage students to participate in games, sports and cultural activities.
- Strengthening of courses to promote entrepreneurial skills.
- Strengthening of values and inculcating a professional code of ethics in the students.
- Introduction of 'Student Portfolio' to consolidate the work done during their course.

Strategy #5: To encourage Research, innovation, incubation entrepreneurship and Consultancy.

- Strengthen the R&D activities through R&D center, Institution's Innovation Council and SU knowledge hub.
- To nurture innovation, incubation and entrepreneurship skills.
- Encourage Faculty to do Research and apply for Research Grants.
- Encourage Students towards innovative research works.
- Approach funding agencies for research grants.
- Institute awards for achievements in the areas of R&D, innovation, incubation and consultancy.
- MoUs with Government organizations, NGOs and research institutions for Consultancy.

Strategy #6: To develop a smart campus. Upgrade infrastructure facilities and library.

- Maintain and improve ICT facilities in classrooms and labs.
- Improvising library automation further and upgrade e-learning.
- Increasing the scope of Campus Surveillance System.
- Enhancement of energy conservation systems.
- To create awareness and practice to conserve natural resources by saving water, electricity and preventing pollution.
- More informative/interactive Website.

Strategy #7: To strengthen placement facilities.

- Energize the Placement Cell and Placement Committee.
- Provide latest college brochures and upgrade the presentation materials.
- Aim at 100% placement of eligible students.
- Training Programs to improve student's skills so that they perform well in Group Discussions and Oral Interviews.

Strategy #8: To increase the outcomes of social and outreach activities.

- Encourage participation of students in community work and extension activities through NSS, UBA, MGNCRE, Swachh Bharat, Jal Shakti Abhiyan and other Government of India programs.
- Conducting blood donation drives, awareness programs and health camps.
- Celebrating national commemorative days by conducting various programs.
- Conducting national and international days such as yoga day, constitution day etc.
- By conducting and celebrating the above socially relevant and outreach activities, students will be developed into responsible citizens.

Strategy #9: To build a healthy and productive relationship with the alumni.

- Networking with Alumni Entrepreneurs to improve placements.

- Utilizing Alumni contacts for industrial visits and internships of the students.
- Inviting Alumni for delivering talks to the students and motivating them.