



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
(Formerly WEST BENGAL UNIVERSITY OF TECHNOLOGY)
Main Campus: NH 12, Haringhata, Post Office - Simhat, Police Station – Haringhata, Pin - 741249
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Strategic Plan of Maulana Abul Kalam Azad University of Technology, West Bengal (MAKAUT, WB)

The Strategic Plan of Maulana Abul Kalam Azad University of Technology, West Bengal (MAKAUT, WB) is an umbrella document which envisages the goals of the different constituent Schools, Departments, Centers and administrative Sections of the University, in different time horizons, and integrates these into one single entity. Each School of the University has also devised its own strategic plan, in consonance with the strategic plan of the University, as a whole.

It is believed that collective efforts of the stakeholders will lead towards effective implementation of the Strategic Plan. Brainstorming sessions have been held with the functional Heads of different Units, systematic analysis carried out for development of the external and internal environment and policy guidelines laid down in such direction. A SWOC (Strengths, Weaknesses, Opportunities, and Challenges) analysis has been undertaken pertaining to different components of the University framework. The challenges of training the 'Generation Z' for 'Industry 4.0' through 'Education 4.0' have been assessed documented and plans drawn for meeting these formidable challenges.

As the Strategic Plan demands timely actions, its success is determined by the fulfilment of the targets, the result achieved and correction of the deviations, if any, from the desired outcome. Prioritization for implementation is essential to see that maximum outcome is achieved by focusing on crucial parameters. On recognizing the Vision, Mission and Core Values of the University, analyzing current and expected future scenarios in the event horizon available and SWOC analysis of the institution, both Long Term Plans (2018-2028) and Short Term Plans (2018-2023) have been developed after factoring in the inputs from all the stakeholders including students, teachers, staff members, alumni, employers, parents/guardians, Government and society.



Long Term Plans (2018-2028):

1. To create Centres of Excellence through Industry/University collaborations in the fields of Artificial Intelligence, Machine Learning, Business and Data Analytics, Cybersecurity, Biotechnology, Pharmaceutical Technology, Geo-informatics, Robotics, 3D Printing, Additive Manufacturing, Electric Vehicles, Renewable Energy etc.
2. To attain Ranking in International Ranking Frameworks and thus benchmark ourselves against the internationally recognized players.
3. To create Innovation and Incubation Centres in Information Technology, Business & Data Analytics, Biotechnology, Food Sciences, and other domains, leading to the formation of start-up companies and entrepreneurial ventures.
4. To establish different interdisciplinary research and academic Centers in Technology, Management, Law, Agriculture, Health Sciences and Social Sciences.
5. To leverage the technical prowess of the University in spreading the use of technology and technology assisted services in different areas.
6. To offer training and consultancy services extensively in different industries, professional bodies, academic and other organizations.
7. To elevate the University to the highest echelons of academic institutes in the country by delivering research work of the highest quality having relevant applications in industry and society.

Short Term Plans (2018-2023):

A. Improvement in the Status of the Institution

1. To obtain NBA accreditation for all eligible Under Graduate and Post Graduate Programs of the University.
2. To attain NIRF ranking among the top 100 Institutions in the country
3. To attain a high grade in NAAC accreditation
4. To achieve a strength of over 5000 students.
5. Addition of new Undergraduate and Post Graduate programs in emerging areas of science, technology and management through networking collaboration with industries, professional bodies, academic institutes and research organizations.
6. To embark upon a number of Green Initiatives to transform the University to a truly green campus.

B. Implementing Good Governance

1. To usher in transparency in the administrative set-up by introduction of e-Governance in the University





2. To strengthen the IQAC, Program Assessment Committees, Departmental Committees, Board of Studies, Department and School Research Committees by involving internal and external experts belonging to both academia and industry for ensuring Quality Assurance in the academic and administrative processes of the University.
3. To evaluate the progress of the University through Academic, administrative and financial audits to be carried out periodically.
4. To form different Committees comprising faculty, staff and student representatives to monitor and implement various activities of the University and to suggest course corrections, if deemed necessary.

C. Physical and IT Infrastructure

1. To establish a Smart Campus comprising smart classrooms, strong ICT facilities and video conferencing arrangements powered by campus wide high bandwidth network facility.
2. To set up additional hostels and associated facilities, shops for stationary items, multicuisine food court, arrangement for e-learning, sports infrastructure, Gymnasium and Yoga facilities, Medical Centers etc.
3. To construct additional buildings in the campus to take care of the increasing number of students, cater to the growing number of academic programs and serve as spaces to accommodate conducting high end research.
4. To strengthen Green Campus initiatives like rainwater harvesting, tree plantation, recycling of wastewater through Sewage Treatment Plants, installation of solar panels, use of discarded shipping containers in constructing academic blocks etc.

D. Teaching – Learning Resources

1. To recruit faculty members with PhD with excellent academic background and research credentials and /or extensive industry experience.
2. To set up digital studios for developing and recording e-content as well as Community Radio Centres for facilitating the teaching-learning process.
3. To set up state-of-the-art laboratory infrastructure which is well equipped and fully functional, as well as smart classrooms for blended learning.
4. To introduce a Faculty Performance Appraisal system to sustain and enhance quality in teaching, training, research, consultancy, outreach and innovation and incubation activities.



5. To establish research culture amongst students by engaging them in live projects, project based learning and experiential learning, involving them in writing research papers etc.
6. To organize seminars/webinars, expert talks through professional bodies, conferences and events in emerging technologies for faculty members and students.
7. To encourage holistic development of the students through the practice of Mandatory Additional Requirements (MAR) which must be completed by the students before grant of the degree.
8. To complete the appointment of faculty members for all sanctioned posts in all Departments of the University.
9. To have a Faculty Student Ratio which fulfills the requirements set by the regulatory bodies of the Higher Education Institutes.

E. Research and Development, Patents and Consultancy

1. To setup research facilities in specialized areas like Cybersecurity, Artificial Intelligence, the Internet of Things, Geoinformatics, Business & Data Analytics, Biotechnology, Food Science, Renewable Energy etc through commissioning of infrastructure, hardware and software in different departments utilizing University funds as well as Extra-Mural Research Projects.
2. To focus on quality research publications in high impact factor national and international journals by faculty members, researchers and students.
3. To identify thrust areas of Research in emerging areas of science, technology and management which have relevant societal and industrial applications.
4. To initiate Training & Consultancy Services and explore the possibilities for Training Modules and Consultancy projects among faculty members.
5. To aim for more collaborative, interdisciplinary, socially relevant, and industry-sponsored research to be realized through collaboration with industries and academic institutes having core competence in areas complementary to those of the University.
6. To increase impactful Research Outcomes and generate IPRs which would be useful value addition to the University.
7. To scale up the number of full-time doctoral students by offering a greater number of University scholarships, fellowships and incentivizing such research practices.
8. To earmark budgetary provisions for Faculty and Student Projects in different Departments of the University.

F. Collaboration with Industry and Academia

1. To collaborate and network with reputed National and International Universities and Research Organizations for Research and Development, Training and Certifications, Patents, Product Development etc.





2. To collaborate with different industries, industry bodies and professional organizations for facilitating student internship and apprenticeship, establishing Centres of Excellence to provide hands-on training on the latest technologies, organizing lectures, seminars, workshops by reputed industry personnel, devising innovative projects and fostering incubation leading to start-up and entrepreneurial activities.

G. Placement, Entrepreneurship and Incubation Facilities

1. To ensure full placement to interested students in all Departments of the University.
2. To strengthen the Placement and Training Cell for stepping up the placement activities and identification of more companies for the recruitment process
3. To setup an effective Industry-Institute Partnership Cell as well as one Career Guidance Cell for conducting counselling activities
4. To set up a Centre for assisting the students in different national and international entrance examinations such as NET, GATE, TOEFL, IAS, WBCS etc.
5. To identify students having innovative ideas, nurture these ideas and incubate them. The Departments of the University should be involved in this activity.
6. To encourage all the Schools/ Departments to set up their own Departmental Innovation & Entrepreneurship Cell for fostering Innovation, Incubation and Start-up activities.
7. To provide financial support and seed money to students who want to become Entrepreneurs through the Technology Business Incubation Cell of the University.

H. Build an Alumni Network

1. To strengthen the Alumni network by updating the alumni database and initiating new Alumni Chapters in different locations of the country.
2. To involve the Alumni for placement, talks, mentoring, projects, sponsorships, student interaction in the University.
3. To encourage the alumni to contribute liberally to the corpus fund of the University.

I. Financial Management

1. To draw up detailed budgetary plans for the different academic and administrative Departments of the University.
2. To monitor the expenses of these different Departments as per the planned budget, to point out the deviations from the budgetary plan and to suggest necessary course correction.
3. To plan for expansion in budget provision, depending on the utilization of the funds initially allocated.

J. Extracurricular and Co-curricular Activities

1. To set up various clubs such as Music Club, Photography Club, Drama Club etc. to nurture the talents of the students.





2. To enhance outdoor and indoor sports facilities of the University.
3. To set up state of the art gym facilities for boys and girls
4. To conduct technical fests, cultural festivals and state-level sports tournaments as per a calendar to be published at the beginning of the academic session.
5. To observe all important days having national significance like Independence Day, Republic Day, Constitution Day, International Yoga Day, birthdays of luminaries etc. in a befitting manner with due respect and protocol.

With the pandemic induced lockdown Information and Communication Technologies have gained traction as a primary requirement for continuing the University activities. The tasks of addressing the students' needs through online learning resources and video lectures, conducting online examinations, facilitating faculty members with the infrastructure of online assessment of semester-end exams, arranging the meetings and conferences online have all been addressed. The University and its Schools and Departments have designed their pedagogical practices in such a way that self-learning skills are inculcated among the students so that they become lifelong learners, who can effectively face the challenges of an unpredictable future in a limited event horizon.

The university is trying its best to effectively implement and monitor the progress of the Short Term Strategic Plan. The plan is being implemented and monitored by a core team that meets frequently and reviews the progress. The IQAC also holds review meetings to facilitate proper implementation of the Strategic Plan.

