

**UNIVERSITY INSTITUTE OF CHEMICAL TECHNOLOGY,
NORTH MAHARASHTRA UNIVERSITY,
JALGAON-425001 (M.S.), INDIA
Strategic Plan year 2015-2020**

PREAMBLE

Guided by focused vision and dedicated research and academic efforts, University Institute of Chemical Technology founded in the year 1994 (formerly known as UDCT), has established its own identity in the field of Chemical Engineering and Technology. The Department offers AICTE recognized five Bachelor of Technology (B. Tech.) and Five Master of Technology (M. Tech.) degree courses and pursues Ph. D. Research Programs in Science, Chemical Engineering, and chemical Technology to fulfill the growing demands of entrepreneurs, Technocrats and Scientists. Besides this, the Department has full-fledged and well-equipped Engineering Workshop, Sophisticated Instrumentation Center (including instruments like FESEM, AFM, and XRD), Entrepreneurship Development Cell (EDC) and Training and Placement Cell. The Department has received research project grants from various agencies like DST, CSIR, DRDO, UGC, AICTE, ISTRO etc. and has been covered under NON-SAP Scheme of UGC, FIST Scheme of DST and Innovative Programs of UGC (M. Tech. in Nano Science and Technology), TEQIP- II. Recently, Department has been covered under SAP scheme of UGC with the interdisciplinary theme of research work of Nano Science and Technology. Number of research scholarships are available to the Ph. D. students through research project grants and/or University fund. Where focus is placed on creating new opportunities for education and research that are aligned with global challenges to meet the current and growing industrial needs.

VISION

To develop knowledge-based society by imparting creative and innovative quality technical education through excellence in teaching, research, and extension.

MISSION

To provide quality education in conducive environment in order to engender world-class technocrats and scientists for the betterment of society.

In view of vision and mission of department and as per the guidelines of AICTE and University, SWOT analysis of the department has been carried out and based on the analysis a strategic plan is prepared for the academic year 2015-2020.

STRATEGIC OBJECTIVES AND REQUIRED MEASURES

- 1. Education**
- 2. Research**
- 3. Institutional Governance**
- 4. Collaboration**

1. Education:

- To enrich academic and research environment of the department
- To implement various reforms in teaching, learning, research, evaluation, and administration
- To establish association of stakeholders

Required Measures -

- i. Periodic upgradation of curricula of B. Tech. and M. Tech. courses to fulfil societal and industrial needs and requirements
- ii. With consent of higher authorities develop and design plan for more space and infrastructure for the future requirements of classrooms and laboratories
- ii. Implementing academic reforms in conducting exams, evaluation, and feedback
- iii. Making available well-furnished classrooms with audio visual aids, LCD projectors and Wi-Fi
- iv. Academic support for weak students conducting extra coaching classes and remedial classes
- v. Inviting experts from industry for expert lectures, promoting students for taking industrial projects and motivating for industrial visits
- vi. Use of new teaching-learning tools such as online mode of teaching.
- vii. Organization of conferences, seminars, and workshops
- viii. Upgradation of qualification of faculty and motivating them to do refresher and orientation courses
- ix. Increase interactions between students and alumni

x. Enhancing the educational experience by strengthening professional development opportunities for the students.

2. Research:

- To focus research on local, current, and future societal needs
- To motivate students to enroll for basic and multidisciplinary research programs
- To develop education programs that enable students to identify and pursue their personal and professional goals during degree program

Required Measures-

- i. With consent of higher authorities develops and design plan for more space and infrastructure for the future requirements of classrooms and laboratories
- ii. Enhancing basic and applied multidisciplinary research
- iii. Development of center of excellence in analytical facilities
- iv. Motivating students for higher education such as M. Tech. and Doctoral study

3. Institutional Governance

- To improve administrative workflow
- To support the stakeholders to build confidence, trust, and compliance

Required Measures –

- i. Execution of management, recruitment, and procurement reforms by use of advanced tools and software
- ii. Staff will be trained by participation in orientation, workshop etc. for new e-Governance policies
- iii. Re-examination of responsibilities of staff and faculty to increase work effectiveness, efficiency, and workload distribution

4. Collaboration

- To motivate and support faculty, colleagues and research scholars for institute, research organization collaboration
- To develop industry-institute interactions

Required Measures –

- i. Enhancing industry-institute interaction

ii. Development of collaborative agreements with different organization/ experts for employment oriented, value addition courses, new teaching-learning methodologies

iii. To start entrepreneurship development center

iv. Signing MoUs with industry and research organization for industrial training and for research projects

The collective efforts will be taken by the department to work as per the objectives and measures of strategic plan 2015-2020, so that the overall development of department in different areas will takes place which will benefits the students.

