



## **FACULTY OF ENGINEERING AND TECHNOLOGY**

### **ROAD MAP**

#### **VISION STATEMENT**

To transmit the impact on society through continual innovation in the arenas of Education, Research, Creativity and Entrepreneurship.

#### **MISSION STATEMENT**

- To provide excellent aura of educational platform that can cater the perception and needs of the community and help the students to meet productive social, economic and environmental challenges to become active participants in shaping the world of the future.
- Technical education determines the development and socio-economic condition of a nation. High quality faculty, infrastructural facility, National and International high bandwidth connectivity, and availability of knowledge sources are essential for realizing excellence in education.
- In addition to this, a good learning environment, collaborative environment, exposure to the International best practices and constant promotion of innovation and creativity are also needed. The higher the research intensity in a University environment better will be the teaching quality.

- To develop a systematic roadmap for the development of Faculty of Engineering and Technology the following points are to be taken into consideration.
  - a) Systematic Institutional development starting with Vision and Mission statements, SWOT analysis, long-term and short-term plans etc.
  - b) Establishing Incubation Centers, Research Parks, Intellectual Property Rights Bureaus and Technology Transfer Centres.
  - c) Promoting collaborative learning.
  - d) Trying to introduce web tools in teaching and research.
  - e) Ensuring guidance and counseling to students as well as stress inoculation to teachers and students.
  - f) Training and re-training as well as updating subject knowledge of faculty with a motto "Training is Survival".

**Objectives of the Faculty of Engineering and Technology: -**

1. The FENT shall strive to achieve excellence in imparting Technical education by offering need-based and value-based academic programmes of studies which are interdisciplinary in their approach.
2. The FENT will have a global outlook and international orientation to its programmes and services, and will adopt a holistic approach to Technical education by taking into account opportunities for peer-group learning, self-learning, work experience, individual initiatives and group work by harnessing the latent talents of students.
3. The FENT will strive to match up with global benchmarks with respect to educational facilities, physical infrastructure and research environment.

4. The FENT will be committed to ensuring working conditions, work ethics, work culture and services that promote welfare of all stakeholders - the students, the faculty, staff and society at large.
5. The FENT will aim at attracting the best and most eminent Faculty through a multi-mode recruitment policy - full time, adjunct, chair professorship, scholar-in-residence, part-time, visiting and guest faculty.
6. Adopt pedagogic methods which recognize that each individual learner is unique in his/her abilities, talent, dedication, commitment, devotion and approach to life and that each one will have to be provided opportunity to learn at his/her own pace and unique way.
7. The FENT will organize its academic activities such as to create conditions for focused attention to the development of specific disciplines and advancement of knowledge through cross-fertilization of ideas and by bringing together a cross section of disciplines.
8. The FENT will have Departments and Research Centres representing all domains of higher learning thereby offering a wide variety of academic programmes at all levels of higher education and across academic and professional disciplines in a modular curricular framework and multi-disciplinary mode, benchmarked with the best global practices.
9. To make special provisions for integrated courses in humanities, social sciences, sciences and technology in its educational programmes.
10. To take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and research.
11. To educate and train manpower for the development of the country.
12. To establish linkages with industries for the promotion of science and technology.

13. To pay special attention to the improvement of social and economic conditions and welfare of the people, their intellectual, academic and cultural development.
14. Innovative Courses and programme of studies shall be introduced with provision for periodic review and restructuring.

### **Action Plan**

- a) In order to fulfill, the objectives in setting up FENT, we intend to undertake, on priority basis and in a time bound manner, the following:
- b) Designing of academic architecture, curricular framework, schools, departments and centres of studies, programme of studies, admission policy, examination system, fee policy, such as to make a world class university, promoting innovation and excellence.
- c) Strategic policies for attracting, nurturing and retaining quality faculty and professionals required for translating into action the vision, mission and objectives of the university.
- d) Devising strategies and plans for accessing adequate funding with assured flow of resources for unhindered and fast-tracked development of the required infrastructure and autonomous functioning of the academic and administrative activities of the university.
- e) Networking and collaborating with institutions of global repute in the areas of curriculum development, student and faculty exchange, collaborative research, knowledge sharing and knowledge development;
- f) The general strategy proposed here for achieving this aspiration is captured by two words: focus and connectivity.
- g) Focus on strong or potentially strong academic programs that are strategically important to the university and maintaining areas of excellence within each of the basic academic groupings—humanities and the arts; life sciences and agricultural sciences; physical sciences and engineering; social sciences; and professional schools. In other words, creating and maintaining academic leadership across all of the broad areas.

h) Build greater connectivity among the diverse colleges, schools, and programs around these basic academic areas by developing new integrations, boundary crossing structures, and productive synergies. Greater connectivity implies that it will be easy for students and faculty to cross college and program boundaries in pursuit of their academic goals.

**This will be achieved by:**

1. Sustaining excellence in teaching, research, and public engagement.
  2. Treating all individuals with dignity, respect, and fairness.
  3. Embracing difference and diversity.
  4. Being collaborative, collegial, and caring towards the fraternity and student body as also the larger community.
  5. Making FENT education accessible and affordable to all who meet high academic standards.
  6. Maintaining and selectively strengthening in cost-effective ways the core infrastructures for research, scholarship, and creativity, including in particular libraries and shared research facilities.
  7. Encouraging productive, mutually beneficial collaborations between faculty.
- i) Developing better data, criteria, and procedures for evaluating and tracking the quality of research, scholarship, and creativity of faculty, departments, and colleges.
- j) Encouraging departments to develop strategic plans for enhancing or achieving academic distinction and leadership.
- k) Selectively maintaining and promoting core shared facilities in the sciences and social sciences, taking account of the research needs of local, national, and international scientific communities, external funding opportunities, and cost efficiency.

- l) Clearly defining the roles and responsibilities for effective and efficient governance in a decentralized academic environment.
- m) Implementing cost-effective investments in support systems and infrastructure that meet mission-based needs.
- n) Recognizing, anticipating, and managing the different types of institutional risk (e.g., operational, compliance, reputational) and promote a university-wide sense of responsibility for the management of such risks.
- o) Aligning support operations with the core academic mission and university strategic plan by maintaining clear priorities, metrics for assessing them, and appropriate internal controls.
- p) Develop and improve the skills of unit leaders to promote and manage change, especially given the need for continuous improvements in administrative and academic functions.
- q) Support and, where feasible, strengthen data-informed, collaborative, and transparent decision making.
- r) Effectively coordinate the delivery of IT services and infrastructure that support academic and research missions as well as business needs of the university in a financially responsible way.
- s) Ensure that information technology services and infrastructure support the access, security and privacy needs for information stored within the infrastructure.

**The FENT as a part of its strategy wishes to adopt the following strategy:**

- 1) Achieving Educational Excellence
- 2) Curricular Excellence
- 3) Examination, Assessment & Evaluation System
- 4) Administration

- 5) Physical Infrastructure to be constructed
- 6) Research and Development
- 7) Financial Strategy.
- 8) Extension: The University wishes to design an outreach and community engagement programme to deliver tertiary education to marginalized and financially challenged individuals and communities. We also aim to foster knowledge, creativity, soft skills and spirit of inquiry leading to enhancing the employability quotient of the members of disadvantaged.
- 9) Information and Communication Technology: Use information technology to create competitive advantage in education and research. To use technology to enhance and expand educational services used by students. To provide appropriate and adequate technology and training for all faculty members and staff to support the objectives of academic program.



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