STRATEGIC PLAN
2017-22

VISION

We envision to be a recognized leader in technical education and shall aim at national excellence by creating competent and socially conscious technical man power for the current and future industrial requirements and development of the nation.

MISSION

- Introducing innovative practices of teaching and learning.
- Undertaking research and development in thrust areas.
- Continuously collaborating with industry.
- Promoting strong set of ethical values.
- Serving the surrounding region and the nation at large.

i. Preface

The strategic plan is an inevitable document for any educational institution for an effective functioning so as to achieve destined goals. This includes short-term, medium-term and long-term duration. Vignan's Institute of Information Technology (A) is having the administrative set up in a specified hierarchy for the planning and monitoring of the conceived strategic plan. Periodically, Governing Body, Academic Council, Finance Committee, Planning & Monitoring Committee, Academic Planning & Audit Committee, Training & Placement Committee, Research & Development Committee, Department Development Committee and other Committee meetings are conducted and deliberations are carried out to conceive ideas and review progress of the activities.

Deans officiate the activities identified by the Governing Body, Academic Council, Finance Committee and other Non-Statutory Committees. Heads of the Departments are involved in the implementation of the strategic plan at their respective departments and be it teaching learning, research and development or extension activities.

Various Cells and Supporting Systems are established to audit and maintain internal quality and the ambience. Green Club initiates various awareness programmes for Clean and Green campus.

The strategic plan for the years 2017-22 is projected in the following pages of this document.

ii. Executive Summary

The five-year plan for the period between 2017 and 2022 is developed for effective functioning of the Institute in the following areas:

1. Institute enhances excellence in programs and services wherein it is proposed to take the action points on the existing courses and new courses coupled with interdisciplinary flavor.

2. Student success which is an essential aspect in any educational institution as the whole planning and monitoring is to make students to achieve success in their pursuits. Under this, imparting skill-oriented training, strengthening slow learners by introducing effective counseling and mentoring system, and moulding the advanced learners for higher education and competitive exams are emphasized.

3. Five-year plan to initiate collaboration with Society and Industry to train students of different disciplines in various industrial sectors.

4. Research, wherein it is notified to establish Centers of Excellence and Department Specific Research Centers, to enhance quality publications of the Institute.

5. Focus is to update Internal Support System for an effective and transparent functioning of the Institute administration. Other points considered here are:

   - Attracting meritorious students and faculty members
   - Monitoring Internal Quality
   - Improving Learning Resources through the Institute Library
   - Organizing Periodic Alumni Meetings
   - Promoting Clean and Green campus.

1. Enhance Excellence in programs and services

a) Existing Programs:

Institute offers Seven B.Tech programs, Seven M.Tech programs and two PG programs. The curriculum of the programs is normally revised once in three years, considering changes happening and the requirements of the society, industries specific. However provision is given to introduce some specific courses of emerging technologies whenever necessity arises. The current regulation is VR17 and it will be revised periodically according to the current and future requirements of the Industry. The curriculum also contains many courses on programming skills, life skills and employability skills along with the fundamental core courses.

b) New Programs:

Keeping industrial requirements in view, new courses have been introduced at both UG and PG level. Main focus is on emerging areas like Artificial Intelligence, Machine Learning, Internet of Things, Cyber Security, Robotics, Transportation, Data Science, etc.

c) Interdisciplinary flavor

Keeping the multidimensional requirement of Industry in view, during the curriculum revision, open elective courses, courses on emerging areas and courses on python, DBMS, etc., are introduced.

A semester long Industry Internship is also introduced. Further, to produce professionals having consciousness of society, ethical values, courses on Professional Ethics, Physical Fitness, Human Values and Environment are introduced and also project based learning is made part of evaluation so that students find solutions for societal problems.

The main aim of the internship is to produce qualified professionals, rather than more certified people.

2. Student success

a. Courses on special skills

i. To make every student Industry ready, a large number of courses such as Add on courses, modular courses, technical certifications, online courses, programmes on communication skills and life skills are introduced and CRT is made part of Teaching Learning.
ii. Various teaching methodologies are introduced in classroom teaching

b. Steps to strengthen slow learners

As it is known, every class is heterogeneous as per learning skills. Hence a special method is designed to identify slow learners and help them overcome their difficulties, special classes are arranged and also they are attached to advanced learners for peer learning. An effective Counseling and Mentoring System is developed to cater diverse needs of the students.

c. Encouragement for higher studies

Advanced learners are motivated towards higher studies without opting for employment with B. Tech degree. They are also motivated to prepare for various competitive exams. Here GATE coaching is arranged & research culture is also introduced. Advanced learners are attached to all the doctorates and motivated to publish research articles.

3. Collaborations with Society and Industry

a. Start-ups

i. A culture of entrepreneurship is also introduced to encourage the students who are interested to be an Entrepreneur. Entrepreneurship Development Cell is created for this purpose.

b. MOUs with Industry

To provide hands on experience, Institute has signed MoUs with large number of Industries. These industries provide summer and semester long internship. This helps the students to get placement immediately after the internship in the same company or allied companies.

c. Project based on Societal Issues

It is made mandatory for every branch of Engineering to take societal problems and convert problems into extension projects.

d. Tie-up with Industries for providing special skills

In pursuit of providing specific skills to suit specific industry needs, Institute involves industry persons and provides modular courses to small batches of students. As a result of this, every year nearly 100 students are being absorbed by industries.

e. Tie-up with Skill Development Centers

In order to provide required employability skills for the students, Institute prefers to tie-up with Skill Development Centers of the government. Institute also extends its support to establish Skill Development labs in collaboration with the government agencies.

4. Enhance Research Activities and Library facilities

a. Innovative research:

Learning inevitably accompanies innovative ideas. Innovation is generated through research inclination. Institutions of higher learning are the centers of learning as the prevailing infrastructure and faculty are conducive for the promotion of research. Research coupled with innovations results into patents, start-ups, publications, monographs and books.

b. Establishment of Centers of Excellence

Incipient attempts in developing research centers in the Departments with more number of Doctorates to nurture contemporary research topics have to be initiated. This facilitates both the faculty and students to acquaint with techniques to explore and unravel topics related to societal needs and contemporary interest.

c. Identification of Department Specific Research Centers

The departments encompass students, scholars and experienced and junior faculty. They all deal with the discipline at a depth to disseminate its contents and concepts. The lacunae and applications in the respective discipline have to be identified to establish Research Centers. This attempt incessantly motivates students and scholars to attempt to unfold lacunae in the respective discipline.

d. Library Facilities

Despite the abundant literature available through GOOGLE search engine, there is an inevitable requirement for online journals, hardcopy journals, video lectures, online books and hardcopy books to

be maintained in the serene environment in the Library which makes learners in the institute to explore the unsolved issues.

5. Update Internal Support System

a. Institute Website

The website of the institute meets the requirement of several prospective students and faculty. Also, provides information for the existing students particularly academic calendars, examination schedules, research and development activities, details of department and faculty, NAAC and NBA accreditations, activities, both curricular and co-curricular planned etc., Hence, the institute website needs to be updated on a periodical basis considering the future growth and complexity of the institute.

b. Paper-less Administration

Yet other requirements warranted are swift transfer of information and minimize the wastage in the campus. The same needs to be given top priority and modalities for its implementation have to be worked out.

6. Periodic Alumni Meets

The glory of any academic institution reflects on the number of Alumni students settled in various domains in the society and their career growth. Hosting the annual meetings of Alumni invariably promotes steps to be improved in the curriculum and placements. Further, it also spreads the fame of the Institute far and wide. These Meets also help to establish tie-ups with various industries.

7. Promote Clean and Green Campus

i. The campus enriched with plantation and grass gives elegance in its appearance. Further, the neatness in the campus enhances the affinity and propensity of students to stay for long in the campus to utilize laboratory and library facilities.
ii. The QR codes for each plant present in the campus need to be displayed.
iii. Students are made part of Clean and Green campus activities

8. Action Points

- Establish an Office for In-reach and Out-reach with departments and local community.
- Establish Entrepreneurship Cell and Business Incubation Centre.
- Conduct domain-specific workshops and joint research by providing seed funding.
- Initiate new undergraduate and postgraduate programs on emerging areas
- Strengthen Institution Library
- Establish Centers of Excellence
- Identify Research Centers in Departments.
- Initiate curricular revisions to incorporate skill-based courses.
- Simplify systems and processes to update internal support system
- Implement appropriate recruitment rules to attract qualified staff at various levels.
- Attract quality students and faculty.
- Conduct annual student satisfaction survey.
- Organize co-curricular and extra-curricular activities.
- Implement Physical Fitness Courses.
- Conduct conferences and workshops to promote incubation and start-ups.
- Conduct staff orientation and induction programmes.
- Promote steps to beautify the Campus.