DHANEKULA INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dist:- Krishna, Andhra Pradesh

(Estd. 2009) www.diet.ac.in

Accredited with B⁺ Grade by NAAC

STRATEGIC PLAN

For the period

Academic Year 2022-23 to Academic Year 2031-32

INDEX

1. CURRENT STATUS OF THE COLLEGE

General Profile:

Name and address of the college   : Dhanekula Institute of Engineering and Technology, Ganguru

Year of Establishment of College : 2009

College website   : www.diet.ac.in

Institutional Status   : Private Institute.

No. of Academic Programmes offered in academic Year 2022-23

UG : 1.ECE

2. EEE

3. ME

4. CIVIL

5. CSE

6. IT

7. CSM

PG: 1. Environmental Engineering

2. Computer Science Engineering

2. ABOUT THE COLLEGE

Dhanekula Institute of Engineering & Technology was established in 2009. It is sponsored by the Dhanekula Venkata Subbaiah Charitable Trust and is located in a rural area predominantly inhabited by underprivileged sections of society. Over 15 years, the college has achieved significant success and recognition. One of the notable strengths of the college is its visionary management. The management team is known for its strategic planning, adequate documentation, record-keeping practices, and implementation of e management systems. The Institution also adopts innovative teaching practices aligned with global trends, emphasizing quality and access in the curriculum and teaching methodologies. The college alumni have made valuable contributions in various fields of Engineering and Technology globally. The institute is permanently affiliated to JNTUK Kakinada University. Five of our branches—CSE, ECE, EEE, ME and CIVIL have been accredited by the NBA. It has also received ISO 9001-2015 certification from BMQR Certification Services PVT. LTD, which further demonstrates its commitment to quality education. The Dhanekula Institute of Engineering and Technology sanctioned Technology Business Incubator for the development of IOT products in Agricultural Applications funded by MSME, Government of India. The faculty has published 46 papers in reputed journals for the academic year 2021-2022, and the Institution working on various consultancy projects. The Dhanekula Institute of Engineering and Technology has good road, rail, and air connectivity. It is a coeducational institution that attracts students from various states. In Academic Year 2021-2022, the college has 2052 students and a faculty of 129 members dedicated to fulfilling the needs and aspirations of society.

Dhanekula College of Engineering & Technology offers multiple programs, i.e. eight undergraduate and two postgraduate levels. The college campus spans over 10.29 acres and features a multi-story building. It hosts 100% smart classrooms, well-qualified and experienced faculty members, state-of-the-art laboratories, an e-resource equipped library, conference halls, seminar halls, participative management practices, and a decentralized power structure. Overall, Dhanekula College of Engineering & Technology has emerged as a reputable institution, providing quality education and shaping the careers of its students in Engineering and technology.

3. INSTITUTE VISION & MISSION

Vision

Pioneering Professional Education through Quality

Mission

- ❖ Providing Quality Education through state-of-art infrastructure, laboratories and committed staff.
- ❖ Moulding Students as proficient, competent, and socially responsible engineering personnel with ingenious intellect.
- ❖ Involving faculty members and students in research and development works for betterment of society.
- ❖ The vision of the Institution is achieved by empowering the internal as well as the external stake holders.

4. QUALITY POLICY

- ❖ Impart advanced knowledge in the student's chosen fields to make them quality Engineers.
- ❖ Provide quality environment and services to all stakeholders.
- ❖ Provide systems, resources and opportunities for continuous improvement.
- ❖ Marinating global standards in education, training and Services.

5. CORE VALUES

i. **Quality and continuous improvement**

The College always strives for quality in all activities that it does. It also strive for continuous improvement in all areas, and will measure its progress with appropriate national standards.

ii. **Student learning and student development**

The College is a student-centered institution. It strives to provide educational experiences of exceptional quality and campus life environment that stimulates healthy personal development.

iii. **Institutional integrity and community**

The College strives to develop long-term relationships based on honesty, fairness and respect. It also further strives to provide a safe environment that supports freedom of inquiry, protects diversity and fosters a sense of wellbeing.

iv. Institutional agility and entrepreneurism

The College strives to minimize bureaucracy, cost and institutional inertia in all forms. It will further strive to accept appropriate risks in pursuit of opportunity.

v. Stewardship and service

The College strives to provide responsible stewardship of all its resources while encouraging a spirit of service to society and a life style of philanthropy.

6. OBJECTIVES

The institution has a well-defined strategic plan with the following objectives.

- Achieving Academic excellence through curriculum by choosing advanced elective subjects.
- Promoting Research and development activities
- Establishment of Incubation centre.
- Strengthening of Infrastructure
- Strengthening of skill development activities
- Increasing Faculty Development Programs
- Developing sports and cultural facilities
- Enhancing employability by Training and Placement Cell activities.
- Increasing library learning resources
- Implementing Go Green Initiatives
- Improving Alumni relations
- Encouraging Entrepreneurship
- Wi-fi enabled campus
- Enhance the Industry Institute Interactions
- Increasing of MoUs with globally reputed institutions and organizations
- Encouraging the faculty and staff with welfare measures.

7. STRENGTH, WEAKNESS, OPPORTUNITY AND CHALLENGES (SWOC)

Institution Strengths

- Excellent infrastructure and the institution is surrounded by lush green fields.
- Qualified and dedicated faculty members with good teamwork.
- Progressive and Committed Management.

- Clear Vision, Mission, Goals and Objectives.

- Every year, around 85- 90 % of admissions are filled despite good competition from surrounding and age-old institutions.

- Four UG Programs (ECE, ME, EEE, CSE) are accredited by NBA

- More than 40 MOUs with Industry and Institute of National Importance for curriculum enrichment, FDPs and Students Training Program

- Separate hostels for boys and girls.

- Transport facility to nearby towns and villages.

- Proactive Internal Quality Assurance Cell (IQAC) to ensure quality in the Teaching-learning process.

- Effective mentoring and monitoring for the students.

- An excellent placement opportunity for students as the number of companies recruiting is increasing yearly.

- Constituted various clubs and CSI, ISTE, ICI, IE, ISHAE, IETE, and IFERP chapters to facilitate co- curricular and extension/outreach activities

- In-house newsletters and magazines are published regularly

- Facilities available for various indoor and outdoor games and sports

- Financial support to participate in national and international level events.

- APSSDC –CM's Centre of Excellence for Software Training

- APSSDC – Dassault 3D Experience Centre

- Oracle Work Force Development Program

- Green Initiatives and Waste Management System

- Extension and service to society through NSS and other government bodies.

- Constant Endeavour to upgrade quality.

Institutional Weakness

- Departments yet to get recognition as research centres.

- Declining enrolment of students in conventional streams.

- Funded research projects are yet to be granted.

Institutional Opportunity

- Scope for consultancy and research projects.

- Tie-up with research laboratories to promote knowledge

- Strong Alumni Association – a chance for industry-offered courses in Curriculum enhancement. Setting up a Multi-Disciplinary Research Centres.

- National Educational Policy 2020 has opened up new avenues of growth and development.

- Growing demand for quality education from stakeholders

- Networking and harnessing of alumni spread all over the globe.

- The flourishing economy and the influx of foreign investment in Vijayawada have increased job opportunities.

- Development of incubation centres and start-ups.

Institutional Challenge

- Most of the students joining the institution are from rural backgrounds.

- To achievement of placements in core engineering areas.

- Keeping up with the needs of National Educational Policy 2020

- The enhancement of on-campus and off-campus placements.

- There is a need for high-quality, interdisciplinary research in all the departments.

- Improve research facilities and labs in synchrony with new and emerging areas.

- To improve Entrepreneurship and Innovation.

8. RECOMMENDATIONS OF NAAC COMMITTEE REPORT 2017-18

- Funding the faculty for paper presentation in National and International Conferences.

- All allowances need to be paid with 6th pay scales for attracting and retaining good and motivated faculty

- Internal Quality assurance Cell needs to monitor quality at all levels

- Setting up mechanism for getting effective feedback from all the stake holders on curriculum and taking up following actions

- Decentralization of decision making to the level of faculty members

- Steps to improve the pass percentage and securing universities gold medals

- Introducing outcome based education

- Need to appoint more qualified faculty and maintain proper faculty cadre ratio as per norms

- Programs for enhancing the communication skills of students and entry level faculty

- Deputing faculty for higher education trough Quality Improvement program

9. INSTITUTIONAL STRATEGIC PLAN

The passionate team of DIET after several discussions and planning and guided by the Mission and Vision of the institute's Quality Policy, Core Values, Stake holder's expectations, and SWOC analysis framed the Institutions' strategic Goals.

Institution Strategic Goals:

- To follow an effective teaching-learning process
- To become one of the best institutions offering technical education with the current Industry and societal needs.
- Developing and following leadership and participative management
- Establishing a continuous Internal Quality Assurance System
- Providing good governance.
- Ensuring student's development and participation
- Ensuring staff development & welfare
- Emphasize Institute–Industry interaction and partnership
- Developing financial management
- To inculcate innovative and start up culture
- To promote an entrepreneurial climate on the campus
- Encouraging research and development work
- Increasing Alumni Interaction & participation and Outreach activities
- Engagement in Community Services and Activities

The Components of strategic plan, plan of implementation and responsible person(s) are summarized in Table 1:

Table 1 Components of Strategic Plan, Plan of Implementation and Responsible Person(s)

Strategic Plan	Plan of Implementation	Responsible Person(s)
Development of Physical Infrastructure	(i) To establish the latest technology labs in all departments to meet the requirements of affiliating bodies. (ii) To upgrade all classrooms, laboratories and in seminar halls with projectors and projector screens. (iii) To upgrade the existing internetbandwidth	Principal, All HODs and Committee Coordinators.

	(iv) To upgrade wifi internet facility to all the department blocks and hostels (v) To establish the center of excellence in each department. (vi) To upgrade an indoor gym.	
Strengthening the faculty	(i) To ensure academic and research ambiance on the campus with most of the faculty having Ph.D. qualifications. (ii) To encourage faculty participation in FDP/workshops to update their knowledge with current technological changes with financial support. (iii) To encourage the faculty to publish patents, papers in reputed journals and conferences with research incentives. (iv) To motivate the faculty towards self- learning through MOOC platforms (NPTEL, Coursera, etc.)	Principal, All HODs and Faculty
Teaching Learning Process	(i) Revision of curriculum and syllabus as per the industry needs. (ii) To adopt innovative teaching aids. (iii) To encourage students with self-learning and e-learning. (iv) To promote project-based learning (v) To offer interdisciplinary courses (vi) Increased the usage of online tools for assessment and evaluation of courses.	Chairman, Principal, All HODs and Committee Coordinators.
Revenue Generation	(i) To apply for DST projects in all departments by Prof./Assoc. Prof./Asst. Prof., to improve research funds revenue towards. (ii) To apply the ATAL and SERB-sponsored FDP's and conferences. (iii) Enhancing faculty participation in various consultancy projects.	Principal, All HODs and Faculty
Research and	(i) To establish R&D cell in each department.	Principal, All

Development Cell	(ii) To develop infrastructure for in-house R&D and training purposes. (iii) To enhance the MoUs with premier institutions and research organizations. (iv) To apply the patents and Research papers publications in reputed journals	HODs and Faculty
Improve Institution's Ranking and Accreditations	(i) To apply and achieve Institute NIRF Ranking. (ii) To become a NAAC A++ institute (iii) Continue the NBA Accreditation for all the departments and acquire NBA accreditation for all eligible departments. (iv) To become an autonomous institute.	Principal, All HODs and Faculty
Student Support Activities	(i) To conduct various technical events like seminars, workshops, value added/add on courses, etc. (ii) Student participation in Project Expos and Hackathons have to be increased. (iii) Student registration for internships. (iv) Student's registrations and certifications in MOOC courses (NPTEL certifications) (v) Participation of students in sports and cultural events at the state and national levels. (vi) Participation of students in industrial visits. (vii) Provide institutional awards to high academic performance students.	Principal, All HODs and Faculty
Student Career Development	(i) To ensure more than 90% placements for all eligible students. (ii) Arranging pre-placement training and conducting mock tests. (iii) To conduct awareness programs on abroad education	Principal, All HODs and T&P Cell Coordinator
Social Engagement and Community service	(i) Encouraging students to participate in social activities. (ii) Students visit surrounding villages for awareness programs on various government schemes and contribute for	Principal, All HODs and NSS

	development of adopted villages.	Coordinator
Entrepreneurship and Incubation	(i) Strengthening ED cell activities by arranging guest lectures by industrialists (ii) Industries visit. (iii) Establishment of Incubation Centre	Principal, All HODs and ED Cell Coordinator

10. STRATEGIC PLAN IMPLEMENTATION AND MONITORING

During implementation, the progress of the strategic plan is measured from time to time. The Principal along with SC Chairperson and members will look after the implementation of the strategic plan and its deployment.

Implementation at Institute Level

The implementation of various components of the strategic plan is shown in Table 2

Table 2. Implementation of various components of the strategic plan

Strategic Plan	Responsible Person(s)
Statutory Compliance	SC Chairperson, All HODs and Committee Coordinators.
Development of Physical Infrastructure	Principal, All HODs and Committee Coordinators.
Strengthening the faculty	Principal, All HODs and Faculty
Teaching Learning Process	Principal, All HODs and Faculty
Internal Revenue Generation	Principal, All HODs and Faculty
Research and Development Cell	Principal, All HODs and Faculty
Improve Institution's Ranking and Accreditations	Chairman, Principal, All HODs and Committee Coordinators.
Student Support Activities	Principal, All HODs and Faculty
Student Career Development	Principal, All HODs and T&P Cell

	Coordinator
Social Engagement and Community service	Principal, All HODs and NSS Coordinator
Entrepreneurship and Incubation	Principal, All HODs and ED Cell Coordinator

Monitoring of strategic plan

The implementation of the strategic plan will monitor regularly by SC Chairperson through periodic review. The benchmarking of quality standards and its monitoring, and evaluation of attainment are carried out by the SC Chairperson independently. The SC Chairperson reports the findings to the Principal, along with the analysis of outcomes. The strategic committee will recommend the corrective actions that were needed for further improvements and the deployment of resources. All these reports will be forwarded for further discussions and approval by the Board of Trustees.

CONCLUSION

The Strategic Plan Document preparation is an effort for paving a pathway towards the accomplishment of goals DIET's dreams to achieve. Just formulating the strategic plan doesn't ensure success, but it provides a guiding framework which is a collective effort delivered by the process of participative brain storming of stakeholders. The proper implementation of strategies through teamwork with good spirit leads to success and sustainability over a longer time through a dynamic process. It needs continuous evolution to incorporate the lessons learnt during the implementation and emphasizes the role of SC Chairperson in ensuring the quality of implementation.