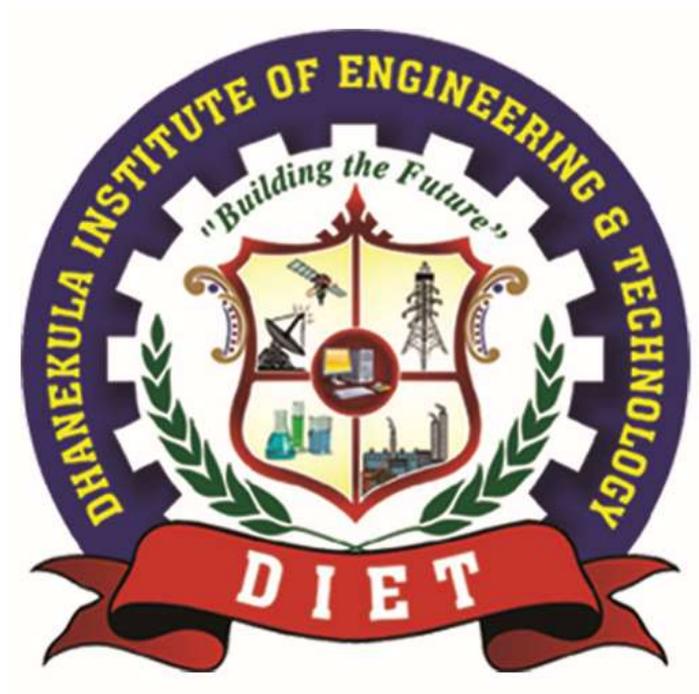


STRATEGIC PLAN 2017-22



(Accredited by NAAC, UG CE,ECE,EEE,ME Accredited by NBA)

DhaneKula Institute of Engineering & Technology
Ganguru, Penamaluru Mandalam, Vijayawada - 521139; Andhra Pradesh, India

About us

Dhanekula Institute of Engineering and Technology established in the year 2009 at Ganguru, Vijayawada, Krishna(Dist) is the first of its kind educational institution founded by Sri.Dhanekula Ravindranadh Tagore , a living legend who is famous for his versatility and excellence in promoting various agricultural and industrial organizations and known for his love and affection towards the man kind - improving their standard of living with his meticulous, measured efforts. There is no doubt in saying that in future this institution would be the touch-stone of technical expertise in and around the third world countries.

With its global standards it aims at cultivating a learner centered teaching environment imparting engineering education. Education is inseparable from the real life. The purpose of Education is to equip the student with an all-round development in solving the real life situations. We strive to promote rich academic environment with a special focus on innovative methodologies in teaching by giving an exposure to the cutting edge competence to the students in meeting the future employment challenges.

Affiliated to JNTUK, Kakinada and is approved by AICTE, New Delhi, it aims at providing a sound technical knowledge and broad vision to the technocrats of future - as they are prepared for a successful tomorrow. The institution will endeavor to fabricate accomplished and capable engineers proficient enough to face the dynamic changes of the present century. Qualified, experienced and dedicated staff who remain update with latest developments in their fields is an additional asset to the college. Founded in the year 2009, this institution started with B.Tech courses. The institution has been developed with the primary objectives to

- Produce proficient, qualified and socially responsible engineering personnel required to face the challenges of the country in the 21st century.
- Provide an opportunity to the average citizen of India willing to acquire engineering education in different fields at an affordable cost.
- To cultivate skill based learning competing with the national and international institutions like IIT's, IIIT's and NIT's
- Launch different programs in order to integrate educational and developmental activities.
- Serve as a sustained center - imparting engineering education so as to update and upgrade the existing engineering skills.

Vision : Pioneering Professional Education through Quality.

Mission:

1. Quality Education through state-of-art infrastructure, laboratories and committed staff.
2. Moulding Students as proficient, competent, and socially responsible engineering personnel with ingenious intellect.
3. Involving faculty members and students in research and development works for betterment of society.

Quality Policy

“A center of excellence with quality infra structure imparting value based education on par with international standards by adopting modern training methodologies and fulfilling the expectations of students and parents towards continual improvement in education and placement. Utmost care is taken to maintain all types of accreditations.”

CORE VALUES OF THE INSTITUTION

Respect

Showing respect is a very important component of both personal identity and interpersonal relationships. To get respect could be considered a basic human right. Furthermore, respect moves us to understand the unique contributions of every person in the society as well it leads us to value diverse perspectives. Hence, in our college practicing this value would play a pivotal role.

Excellence

Excellence is a talent or quality which surpasses ordinary standards. It is also used as a standard of performance. At our Institute we strive to develop higher benchmarks by exhibiting quality in staffing, facilities, programs, and services by promoting continuous improvement and encouragement in interdepartmental collaboration among students as well as faculty.

Accountability and Transparency

In our institute we endeavor towards developing an atmosphere where every member takes responsibility for personal and professional growth. We often assess and enhance our policies to establish and impart characterized and explained objectives which ensure that our work increases the value of the college and society. We believe in having complete transparency at all levels of hierarchy to promote a healthier working and learning atmosphere to students as well as faculty.

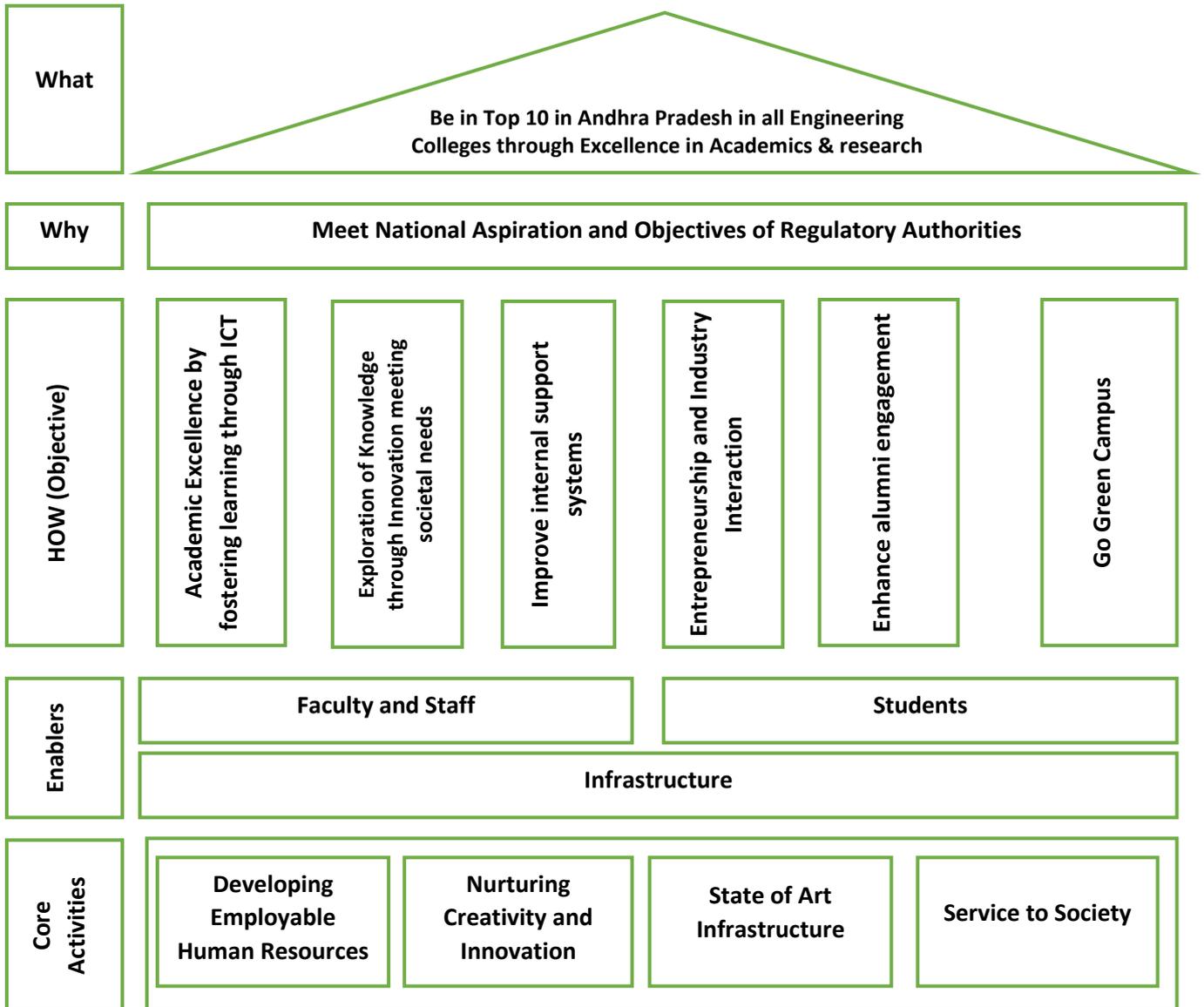
Encouragement

Encouragement helps our students to develop critical thinking, effective communication, ethical decision making and social obligation. In addition to that through encouragement our institute is able to produce a highly productive staff which will help us to achieve our organizational goals and vision. Hence, we as an Institute work in the direction of a motivated environment for staff and students.

Leadership

Leadership motivates the people to a higher level of performance through their strong human relations. Leadership is an important function of management which helps to maximize efficiency and to achieve organizational goals. In fact leadership is an essential part and a crucial component of effective management. At our institution we mold our students as leaders who excel in addressing the challenges of 21st century. Furthermore in our students we cultivate critical thinking, creativity and joy of lifelong learning to serve the society with whole heart and soul boldly.

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Goal 1: Academic Excellence by fostering learning through ICT

Values-based Education creates a strong learning environment that enhances academic achievement and develops students' social and relationship skills that last throughout their lives. The positive outcomes are achieved through teaching-learning methods blended with ethical values and cross domain research in cutting edge technologies. This leads to the all-round personality development of the students. It also provides social capacity to students, equipping them with social and relationship skills, intelligence and attitude to succeed at every aspect of their lives. A high quality of academic excellence can provide value-added experience for the students.

Strategies:

1. Curriculum Enrichment and Value Addition

Being an affiliating College the HEI has insignificant role in curriculum designing and development. However measures have been taken for Industrial certificate Course, Value added courses and activities sensitizing students to cross-cutting issues such as gender, environment and sustainability, human values and professional ethics, development of creative and divergent competencies.

2. Pedagogy and Delivery Modes

The day to day classroom delivery is through modern pedagogy evenly balancing the traditional methodology. The classrooms are equipped with the required infrastructure to facilitate the new modes of delivery. The faculty are trained on the ICT methodologies and continuous apprise of the same is provided through conduct and participation in faculty development programmes, workshops and seminars. An exclusive teaching/ learning center is in place to support faculty teaching, student learning and communication. E- learning / online learning will be encouraged in addition to the traditional class room teaching-learning practice. Faculties and students are encouraged for MOOC- SWAYAM-NPTEL Certification.

Metrics / Measures

Key Result Areas	Measures
Curriculum Enrichment	Industrial Certificate Courses
	Courses focusing on Skill development and Employability
	Value Added Courses
Learner Centric Curriculum delivery	Academic Plan as per OBE & Academic calendar
	Quality projects
	ICT utilization / Pedagogy Tools
	Online Self learning Resources

	Industry exposure through Internships
	Workshops/FDPs on Pedagogy/Technology
	Learning Management System
Smart Classrooms	Multimedia and support equipment
	E-Learning Facilities.
Laboratories	Periodic maintenance and up gradation
	Virtual Laboratory
	Additional Design and open ended experiments

Goal 2: Exploration of Knowledge through Innovation meeting societal needs

The Institute addresses and enhances students' imagination, initiative and practical skills and equips them to innovate and confidently cross the threshold of challenges. Added to the academic activity additional open ended experiments, Micro/ Mini Projects, Industrial based projects, Product based projects are encouraged. The innovative idea of students are transformed into reality by:

- **Project Based Learning from micro to macro levels involving processes and products.**
- **Enhancing collaborative projects with academic institutes, industry.**

Metrics / Measures

Key Result Areas	Measures
Research Publications	Numbers of papers published in reputed National and international journals
	Numbers of papers presented in reputed National and international conferences
	Faculty as reviewers for reputed journals
Frontiers of knowledge	Operational Centers of Excellence
	Conferences/seminars/workshops conducted.
	MOUs with higher learning institutes in India & broad.
Patents and copyrights	IPR Workshops
	Number of Indian Patents
	Books and Monographs, Copy rights

Goal 3: Improve internal support systems

The Institute has installed a modern and comprehensive Enterprise Resource Planning (ERP) system after streamlining all processes with the aim of improving efficiency and transparency of operations. The number of technical staff in the departments will be increased, including senior staff with higher qualifications. The Institute will provide additional administrative staff to departments to manage routine work such as, arranging admissions and examinations, maintenance, recording minutes of meetings, as well as specialized activities such as publishing newsletters, maintaining website and engaging with industry and alumni.

The Institute will enhance the purchase section to provide greater support for facilitating purchases in a timely manner. A conference/FDP/STTP course support cell will be set up to help arrange conferences/ FDPs/STTPs. The Institute will provide adequate staff and online systems to enable maintenance of the estate and buildings at a higher standard.

Action points

- Simplify systems and processes with a modern ERP system.
- Appoint and empower departmental managers to support and co-ordinate purchase, maintenance and administration in the Department.
- Conduct annual satisfaction survey.
- Service orientation and training for staff, service response and online complaint systems.
- Establish improved faculty orientation and mentorship programme for new faculty members.
- Create a conference organizing support cell as a part of CEP.

Metrics/Targets

- Reduction in average processing times
- Continuous improvement on satisfaction survey scores
- Tracking and reduction in complaint redressal times

Goal 4: Entrepreneurship and Industry Interaction

The Institute aims to create an ecosystem for deeper collaboration with industry in several modes, including consultancy, sponsored research projects, technology transfer and continuing education. Measures are taken to transform classroom learning to a project based experience. The idea to innovate is encouraged through the **Innovation Competition** and the best idea is rewarded. Infrastructure is provided to implant the ideas. Young technocrats get opportunities to exploit their full potential by setting up their own ventures thus becoming "job generators" rather than "job seekers". Strategy to provide a platform to business Start-ups to develop the innovative ideas into commercially viable products.

Training and mentoring to the students is given through **Entrepreneurship Development Cell** to realize the idea into application/ product at institute. Initial awareness on entrepreneurship is facilitated by conducting awareness camps, guest lectures, seminars, workshops, and skill development programmes.

The **Industry Institute Interaction** Cell proactively builds partnerships with industry in areas of strengths of the Institute. Collaboration with the industry is built through well-structured student internships and appointment of industry professionals as Visiting Faculty. A significant quantum of research will originate from problems identified as a result of the faculty's engagement with industry.

Metrics / Measures

Key Result Areas	Measures
Industry Collaboration	Industry Supported Labs
	Student Internships
	Knowledge exchange through seminars and workshops
	Faculty as Corporate Trainer
	Consultancy and Testing to industry
	Sponsored and funded collaborative research
	MOUs with Premier industries
Innovation and Entrepreneurship	Exclusive incubation facility
	Proactive participation of Students and Faculty
	Focus on Product development
Resources & Infrastructure	Exclusive facility for R&D
	Licensed Technologies

Goal 5: Alumni Engagement

Alumni have been key stakeholders in the Institute's evolution and growth. Alumni achievements have been a source of pride for the Institute and have contributed significantly in society. Plan for active alumni chapters in various cities in India and several initiatives from the alumni to support some of the Institute goals. Donations from the alumni will result in creation of new infrastructure (convention centre, innovation centre) and support towards student facilities and counseling. The Faculty Alumni Network (FAN) will help the Institute in identifying and attracting young researchers and academics to faculty positions at the Institute. The Institute has Distinguished Alumnus. The Institute conducts several events to engage with alumni within India and around the world. A dedicated committee manages alumni interactions, supported by a new entity. The Institute will make efforts to enhance the engagement with all alumni. The focus will be on a two way interaction.

The Institute is committed to lifelong involvement with all students who will continue to be part of DIET family even after they graduate. The Institute will build its engagement on adding value and support to the alumni in their careers and professions with specialized training, lectures, access to the latest research and help with networking. The Institute will welcome alumni visits to the hostels and departments and will provide opportunities for alumni to interface with students and faculty and participate in the research and educational activities at the Institute.

Action points

- Create an Alumni Centre at the Institute to support alumni visits, activities and engagement.
- Initiatives for supporting alumni needs for continued learning and career improvement. Lifelong Learning Modules targeted for Alumni.
- Multiple interaction modes such as, interaction between alumni and students, mentoring, interaction between alumni and faculty, alumni inputs for curriculum development, alumni support for student placements and internships, alumni involvement in Department Advisory Committees and in enhancing the innovation ecosystem at DIET.
- Engage alumni as adjunct faculty.

Metrics/Targets

- Number of alumni visitors to Alumni Centre and the Institute: 500 per year
- Number of meets/networking events for alumni: 3-4 per year

Goal 6: Go Green Campus

The Institute is committed to grow sustainably and develop as a model clean, green campus. The existing Green Campus Committee which consists of representatives from students, faculty and staff decides campus policies to promote sustainable practices and maintain the flora and fauna of the campus. This committee will be supported by a cell that will monitor, implement and enable the policies and initiatives of the Committee. Initiatives will include smarter buildings, energy efficient appliances, increased use of renewable energy, improved solid waste and waste water management systems, increased recycling, and making the campus more pedestrian and cycling friendly. The campus will move towards a reduced energy and carbon footprint (low carbon campus) and a zero discharge campus. New innovative technologies for energy, waste management and emissions control will be showcased on the campus and their viability assessed. The Institute will engage with the municipal authorities and the local community to maintain and improve the health of The Krishna River.

Action points

- Low carbon campus growth.
- Involve students in campus planning including green campus initiatives.
- Monitor metrics by creating a network of sensors and report sustainability metrics.

Metrics/Targets

- Setup a cell which will monitor, implement and enable policies and initiatives of the Green Campus Committee
- Establish Green Campus metrics and work towards reducing carbon footprint water footprint, energy footprint
- Improvement on green metrics