

# **DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (AN AUTONOMOUS INSTITUTE)**

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to JNTUK, Kakinada)

**NAAC Accredited with A Grade and inclusion u/s 2(f) & 12(B) of UGC Act**

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

**NH-16, Anakapalle – 531002, Visakhapatnam, A.P.**

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## **Strategic Planning And Deployment Document (2024-2029)**

## **Preface:**

Strategic Planning of the institution plays a vital role in successful accomplishment of the Vision and Mission which it dreams of. Strategic planning is a continuous process with a specific focus on accomplishing institutional goals in this competitive world. Strategic Planning and deployment document (SPDD) is based on analysis of current obstacles and future opportunities and envisages the direction towards which the organization should move to achieve its set goals and objectives.

The first part of it addresses the vision, mission which the institute dreams along with core values, institutional long term & short-term goals. These are defined and guided by the stake holders through SWOC analysis. After analyzing the internal and external environment, the institutional goals were set up in all possible growth domains through continuous thought process and discussion with HODs and faculty members. The strategies with action plans were decided to achieve institutional strategic goals. While formulating the strategic plan and deployment document, care is taken to involve all stakeholders to help contribute their part which is vital for the success of every organization. Effort is taken to identify clearly the implementation processes and monitoring by identifying measurable targets in line with the desired outcomes. This will emerge to be the guiding force for DIET to achieve its goal to become an institution of academic Excellence and providing professional by skilled young Engineers and managers to the society.

## **About DIET:**

The Sarada Educational Trust was formed in the year 1993 by a renowned academician, Philanthropist, former Minister and Leader of Opposition in the Andhra Pradesh State Legislative Council Sri **Dadi Veerabhadra Rao**. The Trust established Dadi Veerunaidu Degree and PG College in the year 1993 offering U.G and P.G courses in Science, Commerce and Dadi Satyanarayana College of Education in the year 2001 offering B.Ed. course and Dadi Institute of Engineering & Technology in the year 2006 offering B.Tech., M.Tech., MBA , MCA and Diploma courses at Anakapalle, Visakhapatnam., A.P. The Trust members were into educational service since 1982 having sister concerned organizations by name Diamonds Convent & High School established in 1982 and Dr. Sarvepalle Radha Krishnan Junior College in the year 1991, The Sarada Educational Trust sole *objective is to empower the rural youth with high quality, cutting edge Technical Education for the development of the region and*

*subsequently the Nation.* Dadi Group of Institutions has wide reputation for its quality learning, excellence in Teaching, Research and Development for grooming the students in the modern world.

**Dadi Institute of Engineering & Technology (DIET)** is a self - financing Engineering Institute established in the year 2006. The Institute is making greater strides in the field of Technical Education and has emerged as a reputed institute under Jawaharlal Nehru Technological University, Kakinada, Andhra Pradesh. Now, the Affiliating University is changed to JNTUGV, Vizianagaram. The campus is located abutting National Highway-16 at Anakapalle, Visakhapatnam, Andhra Pradesh. DIET aims to become an icon of Technical Education with high Standards in this Region. Within a span of 18 years, the sanctioned intake has increased from 240 to 840. The current intake for U.G. is 720, intake for P.G. is 240 and Lateral entry into second year all with a total of 960 students. The institute is located amidst lush green and pollution free atmosphere. The ambience and atmosphere is most congenial and conducive for students to pursue their education to the best of their abilities. The aim of the institute is to impart Technical Education to the students and to develop cutting edge professionals for prospective employers in all the sectors. DIET has progressed considerably on these fronts which accomplished and bagged “**Best Infrastructure in AP**” Award in 2016, “**Engineering Excellence Award**” in 2012 & 2016 along with **International Quality Certifications**, An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 institute and **Ranked “A” Grade** by Government of AP Knowledge Mission Rankings.

Education at DIET spans beyond curriculum which aims at developing character and thus molding the total personality of each individual student. Besides providing the Infrastructure facilities, Workshops, Seminars, Innovative methods of teaching were accelerated in DIET. In its constant endeavor to enhance the communication skills, DIET has been allotted as “**Cambridge ESOL Examination Centre**” by prestigious Cambridge University, UK. With Team Work, Dedication and Devotion of all the Staff Members, DIET aims to become an icon of Technical Education of the Highest Standards in this region.

**Vision:**

To evolve into a Premier Technical Institution with Value based Education to nurture Competitive Technologists to Build New World

**Mission:**

- To impact high quality technical and professional education, to uplift living standards of the youth by focusing on employability, higher education and research
- To bring the gap between industry and academia by introducing add on course based on industrial and academic needs
- To develop responsible citizens through disciplined career and acceptance of ethical values→
- To be a student centric Institute imbibing experiential, innovative and lifelong learning skills→ addressing societal problems
- To promote Personality Development, Academic Excellence, Creative Technology, Disciplined Career, Human Service and Indian Culture for the up lift of the Global Society.

**Quality Policy of DIET:**

Dadi Institute of Engineering and Technology is committed to provide quality education in the field of Engineering and Management with a dedication to constantly work for the continual improvement of students in terms of technical knowledge, personality development and career advancement with a special focus on innovation and research to meet the global needs by exhibiting ethical and moral value.

**Salient features of DIET:**

- DIET Accredited by NAAC with “A” Grade and a CGPA of 3.11/4.0 valid till 13th March 2028 and achieved excellence and became a forerunner of designing and initiating novel programme that are relevant to the demands of Technical Trends.
- DIET is conferred with AUTONOMOUS status by University Grants Commission (UGC) for a period of 10 years [2023-24 to 2032-33). The developments both in terms of infrastructure as well as academic matters, have gained momentum over the last 17 years.

- DIET secured NIRF Innovation ranking in the band of 151-300 during the recent rankings released by Ministry of Education, Govt. of India on 7th June 2023
- DIET secured all India rank of 150 among universities and engineering institutes across India in the Times of India Engineering Survey Rankings 2023 released on 20th June 2023
- Rated with AAA grade as one of the best engineering institutes across India in 2023
- Secured Overall Excellence in Education Award from Bharat Education Excellence Awards 2022-23 at Andhra University on 21st April 2024
- Awarded as TOP RATED INSTITUTE with 4-star rating across India by Institution's Innovation Council, Ministry of Education, Govt. of India on 17th Nov 2022.
- One among the top six Institutes of Andhra Pradesh to receive 4-star rating along with Andhra University, KLEF, GITAM, KKR and ANITS
- Awarded BAND PERFORMER in ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENT - ARIIA by AICTE & Ministry of Education, Govt. of India for two consecutive years 2021-22 & 2022-23.
- One among the top 11 Institutes of Andhra Pradesh to receive BAND PERFORMER ARIIA consortium of Andhra Pradesh out of 647 participating Institutes
- DIET received all India 31st rank & 43rd rank in AICTE EduSkills virtual Internship Annual Ranking – 2022, 2023 respectively.
- Received the Certificate of Appreciation from IGEN (Institution of Green Engineers) as a organizing partner of "IGEN GREEN DAY" on 22nd October 2022.
- Nodal Centre for Indian Space Research Organization – ISRO for IIRS Outreach Programme focusing on strengthening Academia & User segments in Space Technology & its applications using online learning platforms
- DIET is a premier Institutional Member of EduSkills Foundation Valid till NOV 2028.
- Ministry of Micro, Small & Medium Enterprises [MSME] recognized DIET as Host Institute
- DIET bagged the Prestigious Award of "**BEST ENGINEERING COLLEGE WITH EXCELLENT INFRASTRUCTURE IN ANDHRA PRADESH**" during Asia Education Summit & Awards.
- DIET was awarded with 'EXCELLENCE IN ENGINEERING EDUCATION' award at Indo Global Summit organized jointly by HRD, GoI & Govt. of United Andhra Pradesh.

- Achieved Green Campus award by Environmental Protection Society on 25th Dec 2021 in recognition with outstanding performance in Green Campus to build a sustainable environment in educational institutions.
- DIET is Registered as IIC [Institution's Innovation Council] by Ministry of Education (MoE), MHRD Innovation Cell in collaboration with AICTE to systematically foster innovation culture &
- start-up ecosystem on 03-01-2022
- **Memorandum of Understandings (MOUs)** with National Research & Development Corporation - **NRDC**, **NIT - Warangal**, **APSSDC**, **BSNL**, Visakha Container Terminal Private Limited (**VCTPL**), **Microsoft** IT Academy, **Oracle** Academy, Tata Consultancy Services (**TCS**) ION, EduSkills, **Blue Prism** Academia, **Celonis** Academic Alliance, **RedHat**, **AWS** Academy, **CISCO** Academy, **Microchip**, **MSME**, **Paloalto** Academy, etc..
- One and only **Authorized Cambridge University (UK) English Centre** in Andhra Pradesh, for conducting Cambridge English Language Certifications like BEC – Business English Certification, Business Preliminary Certification, Business Vantage Certification, Business Higher Certification, Linguaskill etc.,
- Associated with global professional bodies and maintaining active student branches through DIET IEEE Student Branch, DIET ACM Student Chapter, DIET CSI Student Chapter, DIET ISTE Student Branch, DIET IETE Student Chapter etc.,
- Nodal Centre for Indian Space Research Organization – **ISRO** for IIRS Outreach Programme focusing on strengthening Academia & User segments in Space Technology & its applications using online learning platforms
- DIET is a member of the Confederation of Indian Industry (CII), bearing Membership No. S44051 and a member of the AP Chambers of Commerce and Industry Federation
- DIET IEEE Student Chapter is awarded as the Most VIBRANT STUDENT Branch at IEEE Student Congress.
- **Strong Mentoring and Counseling System** with frequent updates of student progress to Parents.
- **100% Purified RO Mineral Water** plant and drinking facility in all floors.
- **DIET participated and qualified in** NIRF Innovation Ranking with a band 150-300 for AY 2021-22
- Special Initiatives as a part of **Women Empowerment Cell** with provision of Sanitary Vending & Disposal Machines in the campus for girl students
- Strong Student Support System with maximum involvement of student volunteers through DVC - DIET Volunteering Club, EDC - Entrepreneurship Development Cell, Professional bodies, DIET Literary & Cultural Club [DLCC], Women Empowerment Cell, Departmental Student Clubs etc.,
- **English Communication Classes** to improve student communication skills from experts invited from various parts of the country.
- **Large Cafeteria (250 seating capacity)** with hygienic food at subsidized prices.
- **KONE Glass Elevator** facility to all Floors.

- Specially designed **Teaching Learning Process** for the all-round development of the students to meet industry requirements.
- Automation of Student **Data Base** with all details of each Department & Admin Office through ECAP Portal with access provided to parents & students.
- Uninterrupted Power Supply to Institute with Generator Backup.
- 685 High End latest configuration Computer Systems with 1 GBPS LAN Connectivity.
- Highly Configured **Incubation Centre and Research Laboratory** to develop research activities among staff and students.
- **Smart Class room, Media Center & E-Lecture halls** in all departments with latest Audio-Visual equipment.
- Bar Coded and **Computerized Central Library** with more than 29000 volumes, 85 reputed hard copy journals, E-Books of all genres.
- E-Library with NPTEL Video Lectures, Multimedia Facilities, Online Subscription to IEEE, J- GATE, TAYLOR & FRANCIS, DELNET, N- LIST, NDL, ASME journals and to more than 7000 Electronic Journals
- **Fully Equipped Medical Centre Facility** for both Girls and Boys separately with full time ANM and a visiting MBBS doctor. First Aid kits available in all departments.
- **DIET NSS units** since 2010 have been rendering service to the society and also undertakes Unnat Bharat Abhiyan program by adopting five villages in Anakapalle Mandal.
- **Internet** across the campus with 100 MBPS dedicated Broadband & **Satellite Access**.
- **Dynamic Website, Face book and Instagram** with all necessary hourly updates of the institute activities.
- **DIET organizes** regular Industrial Visits, Guest Lectures, Workshops and Field Trips etc.
- **Licensed Software's** by Microsoft, Oracle, Auto CAD, PSpice, MATLAB etc.,
- **Sponsorship of Medical Insurance premium** every year by Management with an insurance coverage of Rs. 8 Lakhs to Staff and Rs. 3 Lakhs to Students.
- **Centre for all Online Examinations** for Prestigious Government / Reputed Organizations.
- Institute **Gmail IDs** allotted to **all students & staff** with domain name diet.edu.in
- Usage of authorized Google Classroom platform from Google for online teaching & Learning
- DIET is one of the very few Institutes abutting National Highway with 24x7 accesses to public transportation.
- Central Vigilance Commission, Government of India has appreciated the Institute with the certificate of Commitment for upholding the highest standards of integrity & good governance for following ethical practices.
- Mission Amrit Sarovar-Jal Dharohar Sanrakshan as a part of Azadi ka Amrit Mahotsav, AICTE funded internship for 16 students and one Nodal Officer of Civil Engineering Department with funding of INR 2 Lakhs

## **Core Values:**

- Imparting Education and disseminating knowledge among youth, which is one of the best ways of nation building.
- Give due respect to all students and staff members
- Gender biasness is strictly prohibited.
- Enhance professionalism with good human values.
- Promote team spirit and healthy competition.
- Create healthy atmosphere for effective teaching–learning process.
- Promote creativity and innovation in all activities.
- Promote equality, integrity, patriotism and brotherhood.
- Promote communal harmony and religious tolerance.
- Value individual differences and dignity of labor.
- Sharing of experience, knowledge and skills.

## **SWOC ANALYSIS:**

### **Institutional Strength:**

- Well equipped and Advanced Laboratory infrastructure
- Effective Teaching and Learning processes
- Motivated faculty, administrative and support staff
- Staff Effective Mentoring and Proctoring systems
- Effective Curriculum implementation through structured action plans
- Conduction of Value-Added courses to enhance employability
- The quality of faculty is monitored and maintained via online Feedback collected from stakeholders
- Orientation/induction programs for newly appointed faculty
- Special tutorials for bridging the knowledge gap
- 75 % of classrooms are ICT- enabled
- Duly constituted Research Committee in place
- Structured Research Incentive Policy in place

- Adequate Library resources, including e-Resources
- Optimal speed Wi-fi enabled campus
- Well maintained, clean, green, and ambient campus
- Recognized NSS Unit
- Yearly self-appraisal of faculty in place
- Implementation of norms and requirements of Autonomous status

### **Institutional Weakness:**

- Limited PG and Inter-disciplinary courses
- Limited networking with IITs, NITs, IISc and other premier institutes
- Limited Academic flexibility, being an Affiliated Institute
- Relatively low PG admissions
- Very few externally Funded Research projects
- Need to strengthen Advanced Software facilities

### **Institutional Opportunity:**

- Attainment of Autonomous status
- Enhancement of research capabilities among staff and students
- Initiation of need based academic and Skill-based programmes
- Participation in National and International collaborations
- Spearhead the economic development of the region
- Blended learning using e-resources to enhance
- Feedback on curriculum delivery from other stake holders needs to be used effectively
- Faculty need to attend greater number of workshops, conferences and symposiums
- Need to explore the possibility of industry funding for research projects
- Need to reinforce Inter-institutional library networking

### **Institutional Challenge**

- Seeking external funding for research and collaborative laboratories
- Retaining and attracting senior qualified faculty
- Upgrading research facilities keeping pace with technological advancements
- Motivation for quality research and publications
- Augmentation of quality placements for the students

## **Strategic Goals**

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

### **Institution Strategic Goals:**

1. Following effective teaching - learning process
2. Developing and following leadership and participative management
3. Establishing a continuous Internal Quality Assurance System
4. Ensuring good governance
5. Ensuring student's development and participation
6. Ensuring staff development & welfare
7. Developing financial management
8. Put emphasize on Institute – Industry interaction and partnership
9. Development of entrepreneurship
10. Encouraging research and development work
11. Increasing internal revenue generation
12. Increasing Alumni Interaction and participation and Outreach activities
13. Engagement in Community Services and Extension Activities
14. Developing physical infrastructure
15. To enhance the skill development and innovative activities
16. Getting memberships of professional bodies, Local chapters, student's chapters etc.,

The Strategic Plan 2023-2028 has been developed in the context of the capacity expansion of the Institute as mandated by the AICTE norms. Given this setting, the broad objectives for the next spell are clear before us. These include the creation of the requisite infrastructure for the expansion, betterment of teaching and learning process, increasing the faculty strength and increasing the number of research activities and the research output. These goals have been formulated in a manner that builds on the strengths of the institute and the aspirations of the faculty, staff and students.

The key pillars that will help the institute achieve this vision are course programmes, research, engagement with industry and entrepreneurial activity. True to its vision statement, the institute aims to consistently provide and sustain an invigorating work environment that fosters a culture of excellence, innovation and entrepreneurship.

The key focus areas are identified through the gap analysis, with respect to the global developments, performance of the competitors and the perceived status of the Institution. Preferences of the potential students in seeking admission (during admission of first year students), assessing the preference of the parents and potential students (by regular visits made to different schools, organizing 10+2 / polytechnic student empowerment programme), factors that influence the admission criteria as perceived by the potential students (assessed through market surveys by the Institute), assessing the state of the institute in comparison with that of emerging / competing institutions (through surveys / ranking process followed by the popular magazines & AICTE and rating given by the University & NGOs). The key participants in the strategic Planning include Members of the Governing Body, Faculty members, Students, Representatives from the Industry and the Parents.

The short term planning time horizon is one year (Department Development Plan) and the long term planning time horizon is five years (Perspective long term Plan). These time horizons for planning are set on the basis of cycle time involved in the academic activities (one academic assessment period, revision of academic regulations and curriculum and time involved in two consecutive quality assurance assessment planned). Long term sustainability measures are included in the strategic plan, Work systems and the work groups are continuously sensitized to understand the importance of being a sustainable institution. Innovative programmes, renovation of curriculum, introduction of novel teaching methods, and continuous focus on research and development, developments and factors that result in the success of the competitors, industry and societal requirements, and stern focus on the vision of the institution are promoted as the sustenance measures in the Institute. The senior members of faculty along with the Heads of the Department and Governing Body review the status of the plan and also to analyze the achievements.

### Strategic Plan for five years

S.No	Key Progress Area	2024-25	2025-26	2026-27	2027-28	2028-29
1	Smart class (AV Hall)	1	2	2	1/Dept	1/Dept
2	Modernization lab	1	1	1	1	1
4	Library - e books	50	50	50	60	60
5	Additional seminar hall facility	1	1	-	-	-
6	Introduction of new UG & PG courses and additional intake	Change of course from M.Tech - SSP to VLSI	Two new courses and additional intake in CSE	--	UG-I	PG-I
7	e-Governance	LMS with TLM & Fee payment	All academic process	Continuous improvement	Continuous improvement	Continuous improvement
8	Sports Facilities	Additional shuttle court	Expansion of Indoor stadium	-	-	-
9	Incubation cell (Start up's)	2	2	3	4	4
10	Interdisciplinary courses / Projects	2 / Dept.	2 / Dept.	2 / Dept.	2 / Dept.	2 / Dept.
11	NIRF Ranking	Applied	Within good Ranking	Within 1000	Within 1000	Within 1000
12	Professional Society tie-up	1/ Dept	1/ Dept	1/ Dept	1/ Dept	1/ Dept
13	Institutional Rankings	THE and ARIIA Ranking	THE and ARIIA Ranking	THE and ARIIA Ranking	THE and ARIIA Ranking	THE and ARIIA Ranking
14	Innovative Teaching & Learning	Enhance & Improve	Enhance & Improve	Enhance & Improve	Enhance & Improve	Enhance & Improve
15	Outcome based education (OBE)	Enhance & Improve	Enhance & Improve	Enhance & Improve	Enhance & Improve	Enhance & Improve
16	NBA	--	--	CSE	ECE	-
17	NAAC	Accredited with A			Apply for Reaccreditation	
18	Admission (UG)	80%	85%	95%	95%	100%
19	Placement (UG)	60%	75%	80%	90%	90%

20	Admission (PG)	50%	55%	65%	80%	90%
21	Lateral Entry Admission	50%	55%	60%	70%	80%
22	Institutional scholarships	20%	20%	20%	20%	20%
23	GATE - Appeared	20%	25%	30%	30%	30%
24	GATE - Qualified	10% of Registered count	10% of Registered count	15% of Registered count	20% of Registered count	20% of Registered count
25	Higher Education	10%	10%	10%	10%	10%
26	Entrepreneur Development	4	5	6	7	8
27	Pass % (UG)	80%	>80%	>85%	>=90%	>=90%
28	Pass % (PG)	90	90	95	>=95	>=95
29	Faculty Avg. Experience	5 years	5 years	7 years	8 years	8 years
30	Student-Faculty Ratio	1:18	1:18	1:18	1:18	1:18
31	Publication per Faculty	70%	80%	100%	100%	100%
32	Number of Doctorate	30%	30%	40%	40%	40%
33	Workshop / FDP Attended - External	2/Faculty	2/Faculty	2/Faculty	2/Faculty	2/Faculty
34	Industrial Training	2/Dept	2/Dept	2/Dept	2/Dept	2/Dept
35	Publication (UG & PG) – Journal / Conference	50%	60%	70%	80%	100%
36	Product based Projects (UG&PG)	3/Dept	4/Dept	4/Dept	4/Dept	4/Dept
37	Workshop / Seminar Attended	1/Year	1/Year	1/Year	1/Year	1/Year
38	Industrial Visit per Dept	1/Year	1/Year	1/Year	1/Year	1/Year
39	Internship	4 weeks	4 weeks	6 weeks	8 weeks	12 weeks
40	Patents/Grants	1/ Dept	1/ Dept	1/ Dept	2/ Dept	2/ Dept
41	Ph.D. completion	1/ Dept				

42	Research Center	2	2	3	3	3
43	Ph.D. registration per Research Center	2	2	3	4	5
44	Ph.D. Supervisor Recognition	2	2	3	3	3
45	Funded Project - applied	2	2	3	4	5
46	Sponsored seminar / workshop conducted	2	2	4	5	6
47	International Conference	1	1	1	2	2
48	Major Faculty Project Sanctioned	-	-	1	1	1
49	Funded Student Project	-	-	1/ Dept	1/ Dept	1/ Dept
50	MoU with industry	2/dept	2/dept	3/dept	4/dept	4/dept
51	Consultancy work	1	2	3	3	3
52	Patent Published	1/dept	1/dept	1/dept	1/dept	1/dept
53	Establishment of R&D Labs	1 Dept	1 Dept	1 Dept	1 Dept	1 Dept
54	New Block construction to enhance the infrastructure	--	Started construction	New block with 5 floors	--	--
55	Deemed to be University	-----	-----	-----	Apply for Deemed to be University	



  
**Principal**  
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