

Annual Report 2020-21

Dadi Institute of Engineering & Technology

NAAC Accredited Institute, Inclusion under 2(f) & 12(B) of UGC Act
Anakapalle, Visakhapatnam, Andhra Pradesh



A. About IIC Institute

- **Vision / Mission of IIC established at the Institute**

Vision

Dadi Institute of Engineering & Technology

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

DIET IIC

To evolve into a Technology based Incubator with research and startup orientation to compete with present day challenges with society.

Mission

Dadi Institute of Engineering & Technology

To Promote Personality Development, Academic Excellence, Creative Technology, Disciplined Career, Human Service, Ethical Values & Indian Culture for enlightenment of the Global Society

DIET IIC

To promote startups & Entrepreneurship in DIET

To inculcate research thoughts and formulate innovative ideas in budding Engineers.

- **Journey of IIC established at the Institute**

DIET IIC was registered in 2019 with MoE's Institution's Innovation Council. It has conducted numerous activities such as Workshops, Impact Lecture Series, Ingenious contests for students, Research Talks for faculty and so on from July 2020 onwards. Many students have participated in Toyhacathan and other contests under the mentoring of Institute staff members.

- **Diversified representation in the IIC established at the institute from industry, Interdisciplinary&Departments/ Units etc.**

The members are included from all departments including Department of Computer Science & Engineering, Department of Electronics & Communication Engineering, Department of Electronics & Electrical Engineering, Department of Civil Engineering, Department of Master of Business Administration, Department of Humanities & Basic Sciences.

B. Brief mention of key functionaries at the IIC Institute

- **President**
Supports financially the DIIC in conducting activities in the Institute
- **Hel**
Head of the Institute guiding the activities every moment
- **Convenor**
Functional Head responsible as Convenor for executing the activities in the Institute
- **Coordinators etc.**
Assisting the Convenor in conducting several programmes at department level and

C. Portfolio/graphical/Tabular representation of Resource strength (human capital and Physical capital) of the IIC institution

- **Total No. of IIC Members – 17**

Name	Email	Contact	Department	Designation	Qualification	Position	Experience in years	Organization	Roles
Sri Dadi Ratnakar	dadiratnakar@diet.edu.in	9849399933	-	Chairman	-	President	-	Dadi Institute of Engineering & Technology	President
Prof. Dr. Challa Narasimham	principal@diet.edu.in	9963993229	CSE	Principal	Doctorate	HOI	30	Dadi Institute of Engineering &	Hel

									Technolog y	
Dr. K. Sujatha	prc@diet.edu.in	9963993228	CSE	R&D Convenor	Doctorate	Conve nor	27	Dadi Institute of Engineerin & Technolog y	Convenor	
Dr. M. Srinivasa Rao	drmsrinivasarao@ diet.edu.in	9676754069	CSE	Professor	Doctorate	IPR Activir y Coordi nator	16	Dadi Institute of Engineerin & Technolog y	IPR Activiry Coordina tor	
Dr. P.B.Rama Kumar	hodmba@diet.ed u.in	9963994047	MBA	Professor	Doctorate	Social Media	14	Dadi Institute of Engineerin & Technolog y	Social Media	
Dr. Ch. Prabhakara Rao	hodhumanities @diet.edu.in	9963994048	H&B S	HOD	Doctorate	Vice Presid ent	20	Dadi Institute of Engineerin & Technolog y	Vice President	
Dr. J. Babu	igac@diet.edu.i n	9948184848	ECE	IQAC Convenor	Doctorate	NIRF Coordi nator	26	Dadi Institute of Engineerin & Technolog y	NIRF Coordina tor	
Dr. P. Poorna Priya	ppriya@diet.ed u.in	8143129056	ECE	Associate Professor	Doctorate	ARIIA Coordi nator, Memb er	15	Dadi Institute of Engineerin & Technolog y	ARIIA Coordina tor, Member	
Dr. K. S. Eswara Rao	viceprincipal@di et.edu.in	9963994042	H&B S	Vice principal	Doctorate	Memb er	35	Dadi Institute of Engineerin & Technolog y	Member	
Dr. L. Prasanna Kumar	hodcse@diet.ed u.in	9963994893	CSE	HOD	Doctorate	Memb er	13	Dadi Institute of Engineerin & Technolog y	Member	
Dr. K. V. Uma Kameswari	drkameswari@d iet.edu.in	9885062256	H&B S	Associate Professor	Doctorate	Memb er	17	Dadi Institute of Engineerin & Technolog	Member	

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Mr. G. Jagadeesh	jagadeesh@diet.edu.in	8500263833	EEE	Assistant Professor	Post Graduate	Innovation Activity	6	Dadi Institute of Engineering & Technology	Innovation Activity
Mr.M.V.R.S.G Gupta	gupta@diet.edu.in	7702050022	Civil	Assistant Professor	Post Graduate	Start up Activity Coordinator	7	Dadi Institute of Engineering & Technology	Start up Activity Coordinator
Ms. K. Sunita	Sunita.k@diet.edu.in	9348857698	English	Assistant Professor	Post Graduate	Member	13	Dadi Institute of Engineering & Technology	Member
Mrs. B. T. Archana	btarchana@diet.edu.in	9494402141	ECE	Assistant Professor	Post Graduate	Internship Activity Coordinator	6	Dadi Institute of Engineering & Technology	Internship Activity Coordinator
Mr.P.S.V.S.V. Rama Raju	ramaraju@diet.edu.in	9491789153	CSE	Associate Professor	Post Graduate	Member	12	Dadi Institute of Engineering & Technology	Member
Mr. K. Vijay Kumar	vijaykumar@diet.edu.in	9866927593	EEE	Associate Professor	Post Graduate	Member	26	Dadi Institute of Engineering & Technology	Member
Mr. J. Deleep Kumar	jdkumar@diet.edu.in	9966357385	EEE	Assistant Professor	Post Graduate	Member	14	Dadi Institute of Engineering & Technology	Member
Omni Suresh	sureshommi@diet.edu.in	9985402048	Civil	Assistant Professor	Post Graduate	Member	4	Dadi Institute of Engineering & Technology	Member

- Total No. of IAs – 10 [Attached two of them]



- **Total No. of faculty Mentors From Portal**
6 Members
- **Pre-Incubation Units, If any**
12
- **Incubation Units, If any**
1
- **IP Facilitation Unit, If any**
MoA signed with NRDC helping faculty and students in guiding and funding their patents and designs

D. Highlight Facilities, Infrastructure of Pre-Incubation & Incubation kind and Student bodies/clubs engaged in promotion of Innovation and Entrepreneurship in the campus.

- **Facilities**
 1. R&D Centre – 878 sqft
 2. Acer Laptops – Intel Core i5 2.5. GHz – 10 systems
 3. Internet Facility– 55 MBPS
 4. LED Projector
 5. Laser Printer
- **Infrastructure of Pre-Incubation & Incubation kind**
 1. Incubation Centre – 650 sft
 2. Internet Facility – 55 MBPS
- **Student bodies/clubs engaged in promotion of Innovation and Entrepreneurship in the campus**
 1. C-Club - Civil
 2. Coding Club – CSE
 3. Sparks Club - EEE
 4. E-Club - ECE
 5. Business Club

E. Highlight Achievements (Narrative/Graphical/tabular representation)

- **Number and Different types of I&E and IPR activities Conducted**
6
- **No. of student's & faculty ideas generated**
102
- **No. of student's & faculty Innovation/prototypes developed**
45
- **No. of IPs generated, published and granted**
10
- **No. of Student & Faculty Start-ups/Ventures established.**
1
- **Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus**
68000
- **Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR**
28000
- **No. of Technology Transfer and Commercialisation happened**
2

F. Highlight few best IIC Faculty/Student members and their achievements/ Rewarded for the innovations at different forum

Mr. MRVSG Gupta – Working on Light transmitting Concrete and has applied for patent

Dr. K. Sujatha – Working on Online Teaching Tool and applied for Design

G. Highlight selected best Innovations & images with mention of inventor/innovation name

1. Automated Water Flow Control System in Overhead Tanks using Internet of Things and Mobile application - Dr. K. Sujatha, Professor, CSE



Automated water flow Control System in Overhead Tanks using Internet of Things and Mobile Application uses reliable sensors and mobile application. The application is being developed after testing various sensors and finding the best basing on the cost and work efficiency.

2. LIGHT TRANSMITTING CONCRETE - M RVSG GUPTHA, M TECH (STRUCTURES), ASSISTANT PROFESSOR



Natural light in building is obstructed by development of high rise buildings.

- To overcome this problem use of artificial light increases large amount. This become necessary to decrease the amount of artificial light by introducing transparent concrete.
- From the steel industries more quantity of slag comes out and disposal of that requires large quantity of land, water and energy and its fine particles if not disposed properly by virtue of their weightless can become airborne and affect to environment.
- This slag consists of some same similar properties as like SAND, because of this reason the sand can be replaced with slag to reduce the cost of transparent concrete.
- The slag enhance the use of waste product and make concrete environment friendly
- In this experiment we are going to deal with comparison of few parameters like strength, density, economical and its applications

H. Highlight selected start-ups established by students/faculties with mention of founder/cofounder name



I. List if any break through Innovations / Technology Developed at the institute (2-3 technology with 2-3 lines about technology and innovation

1. Autostart mobile controlled Pump Started – A product that helps farmers and other users to automatically switch on the pump basing on the requirement and avoiding unnecessary wastage of water.
2. Online Teaching Tool – Used by students and faculty for online teaching and submitting the work online.

J. Participation of IIC-institute in various programs of Central and Stage Govt. Highlighting specially for the schemes or programs

- **ARIIA – participation and Rank**
Participated but not Rank not yet revealed.
- **NISP Adoption status - Trained Faculty, Policy Formulation, Policy Implementation**
NISP Implementation is done and attended training programme
- **Smart India Hackathon etc.**
Participated in Toyathon

K. Detail of Social Media & Connections of IIC institute

Facebook – sharing the information regarding all the events over Institute facebook account.



L. Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell

1. Dr. B.K. Sahu, NRDC – The faculty and students of DIET are actively participating by sending their ideas for patent verification, filing and funding.
3. Sri M.P. Dubey – DIET Innovation & Incubation Centre is motivating and faculty & students are participating in Chunauti contest.
4. Sri Sridhar Kosaraju, State President, Information Technology Association of Andhra Pradesh (ITAAP), MD & Chief Architect@Nimaisoft Systems Pvt Ltd - I am the jury member of Chunauti 2020 and only two Institutes from Visakhapatnam participated in the contest and among them one is DIET. This shows that significant step towards Startups and Entrepreneurship is initiated in DIET.

M. Images



N. Contact

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 9963993228