

# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

## AN AUTONOMOUS INSTITUTE



Approved by AICTE., New Delhi & Permanently Affiliated to JNTU GV  
Accredited by NAAC 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.

Website: [www.diet.edu.in](http://www.diet.edu.in), 9963993229 E-mail: [principal@diet.edu.in](mailto:principal@diet.edu.in)

### CRITERIA-3

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year 2024-2025 (INR in Lakhs)

#### List of projects and grant details

Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Month and Year of receiving the fund	Funds provided (INR in lakhs)	Duration of the project
Dr. ASLK Gopamma/ Dr. J. Ganesh Prasad Reddy	Unitech Systems	Non-Government	EEE	Jan-25	1,50,000	12 months
Dr. P. Poorna Priya/ Mr. R Suneel Kumar	DATAPRO Computers Pvt Ltd	Non-Government	ECE	Jan-25	50,000	3 months
Dr. P. Poorna Priya/ Dr. Anjanees Kumar B	Pratyusha Enterprises	Non-Government	ECE	Mar-25	50,000	3 months
Dr. K. Sujatha	ICT Academy of Tamil Nadu	Non-Government	CSE	Mar-25	12500	3 Days
Dr. K. Sujatha	ATAL FDP-AICTE	Government	CSE	May-25	3,50,000	5 Days
					<b>6.125L</b>	



*Raivanta*

Dr. R Vaikunta Rao  
Principal

Dadi Institute of Engineering & Technology  
Autonomous  
Anakapalle - 531002

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### E copy of the grant award letters

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Dr. R. Vaikunta Rao  
Principal  
Dadi Institute of Engineering & Technology  
Autonomous  
Anakapalle - 531002

Date: 20-01-2025

To  
M/s DADI INSTITUTE OF ENGINEERING & TECHNOLOGY  
Anakapalle.

PO Ref No: 2024-2025/01-03

With reference to your proposal and based on your quotation, Unitech Systems. is pleased to fund the project for Dadi Institute of Engineering and Technology (DIET). We look forward to seamless coordination and fostering a strong relationship with DIET to facilitate future projects and meet our human resource requirements.

S.No	Principal Investigator(s)	Description & Concept	Cost for Development
1.	PI: Dr. A. S. L. K. Gopamma Assoc. Professor in EEE, DIET Co-PI :Dr. J. Ganesh Prasad Reddy Professor in EEE, DIET	Pico Hydro Power Generation in wastewater systems	Rs. 1,50,000/-  (One Lakh Rupees only)

**The overall Major objectives of the project are**

1. To study the selected wastewater system area arial specifications like humidity level, temperature and the impact of the regional constraints.
2. Modeling the pico hydro power generation system.
3. Designing the prototype at the test site.
4. Case study on impact analysis.
5. Final product and validation

9948176606, 7989608893 | 

D.No: 1-69-5/1, Ganesh Nagar, Chinnamushidiwada  
Pendurthi, Visakhapatnam, Andhra Pradesh - 531173 | 

unitechsystems.ap@gmail.com | 

GSTIN: 37ASKPP3632K2ZA | 

The specifications are mentioned below

Floating pico – Hydro Specifications	
Specification	Unit
Material	Aluminum
No. of Float	2
Dimension of float	30cm x 100cm x 30cm
Total length	100cm
Total width	120cm
Diameter ratio pulleys wheel and generator	10:1

**Terms and conditions:**

1. The funds provided by the funder will be used exclusively for the execution and completion of the project as described in the project proposal or any amendments agreed upon by both parties.
2. The Funder agrees to provide a total of Rs. 1,50,000/- to the recipient, subject to the terms outlined in this Agreement. The funds will be disbursed according to the schedule agreed upon by both parties.
3. The funds will be released after completion of the project.
4. The Recipient must use the funding exclusively for the Project, including costs for materials, labor, and services directly associated with the completion of the Project. Any deviation from the agreed-upon budget must be approved by the Funder in writing.
5. The Recipient agrees to provide progress reports, financial statements, and other documentation as requested by the Funder to ensure that the funds are being used as intended.

Thank you for your proposal and the excellent coordination extended to us.  
Kind Attn to : Dr.A S L K Gopalamma, Assoc. Prof, HOD EEE

**For UNITECH SYSTEMS**



9948176606, 7989608893 | 

D.No: 1-69-5/1, Ganesh Nagar, Chinnamushidiwada  
Pendurthi, Visakhapatnam, Andhra Pradesh - 531173 | 

unitechsystems.ap@gmail.com | 

GSTIN: 37ASKPP3632K22A | 

April 2, 2025

To  
DADI INSTITUTE OF ENGINEERING & TECHNOLOGY-AUTONOMOUS  
Anakapalle

With reference to your proposal and based on your quotation, DATAPRO COMPUTERS PVT. LTD. is pleased to fund the project for Dadi Institute of Engineering and Technology (DIET)-Autonomous. We look forward to seamless coordination and fostering a strong relationship with DIET to facilitate future projects and meet our human resource requirements.

S.No	Principal Investigator(s)	Description & Concept	Cost for Development	Duration
1.	PI: Dr.P. Poorna Priya Professor, HOD ECE Co-PI: Mrs.P.Amrutha, Assistant Professor, ECE	Hand Gesture Driven Drone using Computer Vision Technology	Rs. ₹ 50,000 (Fifty thousand Rupees only)	6-January-2025 to 26 <sup>th</sup> March - 2025
2.	Mr. R.Suneel Kumar Assistant Professor, Department of ECE			

## 1. Introduction & Concept

- Develop a drone control system that responds to hand gestures using computer vision.
- Utilize a camera-based vision system to track and interpret hand gestures in real time.
- Eliminate the need for a physical controller, making drone control intuitive & user friendly.

## 2. Objectives

### Hardware Development

- Select and integrate a drone platform suitable for gesture-based control.
- Equip the drone with a camera (or use an external camera for gesture recognition).
- Ensure **stable flight control with onboard sensors (gyroscope, accelerometer, etc.)**.

### Computer Vision & Gesture Recognition

- Implement a hand-tracking algorithm using OpenCV, MediaPipe, deep learning model.
- Train a machine learning model to recognize predefined hand gestures.
- Optimize real-time gesture detection for smooth drone control.

### Drone Control Mechanism

- Map recognized gestures to specific drone actions (e.g., takeoff, land, move forward, rotate).
- Establish communication between the vision system and the drone (Wi-Fi, Bluetooth, or RF).
- Ensure low-latency response to hand gestures for a seamless user experience.

### Software & Algorithm Development

- Develop a software interface to process video input and extract hand gesture data.
- Implement filtering techniques to improve recognition accuracy in different lighting conditions.
- Integrate gesture commands into the drone's flight control system.

### Testing & Optimization

- Conduct real-world testing to validate gesture recognition accuracy.
- Optimize system performance for different hand sizes, angles, and lighting conditions.
- Improve robustness to avoid unintended gestures triggering drone movement.

### User Interface & Safety Measures

- Design an intuitive UI for users to configure gestures and control settings.
- Implement emergency stop and fail-safe mechanisms for safe operation.
- Ensure compliance with aviation and drone regulations.

### Terms and Conditions

- The clients have to meet the System Requirements as specified in manual.
- The developers are not responsible for incorrect diagnoses resulting from inaccurate data input or system misuse.
- Users must ensure that they are trained and authorized to use the system in a clinical environment.

Thank you for your proposal and the excellent coordination extended to us.

Kind Attn to :Dr.P. Poorna Priya Professor, HOD ECE

- Thank you



Datapro Computers Pvt Ltd



# PRATYUSHA ENTERPRISES

## Appreciation Letter

Date: 25.03.2025

To

**Dr. P Poorna Priya (PI)**  
Associate Professor,  
Department of ECE,  
**DADI INSTITUTE OF ENGINEERING & TECHNOLOGY- Autonomous**

**Dr. B Anjaneer Kumar (Co-PI)**  
Associate Professor,  
Department of ECE,  
**DADI INSTITUTE OF ENGINEERING & TECHNOLOGY- Autonomous**

Dear Professor,

I would like to extend my sincere appreciation for the successful fulfillment of the project “**Design and Prototyping of Metamaterial Structure based Antenna for Sub 6 GHz Wireless System Applications**” within the given duration and with good outcomes. The following antenna modules are fabricated with good accuracy and meet the given specifications and are suitable to our requirements. Your efforts put into this project and your professional expertise are appreciated. The Project amount as ₹ 50,000/- is processed to the **DADI INSTITUTE OF ENGINEERING & TECHNOLOGY** account as per the project work order.

S.NO	Antenna Models	Qty	Amount
1	Design of Metamaterial Structure based Antenna for Sub 6GHz Applications	1	₹9700/-
2	Optimization and Analysis of the Antenna with FEM based EM-Tool	1	₹8300/-
3	Prototyping of the metamaterial antenna on Rogers substrate with Fully Automated Prototype Machine/Chemical Etching Process	1	₹15,500/-
4	Experimental Validation with testing on VNA and Anechoic Chamber	1	₹16,500/-
Total			₹50,000/-

We would like to give a few more consultancy projects in the near future. I hope you will continue your spirit in our future projects too. I extend my wishes to all your team members of your research center.

Yours sincerely,  
For PRATYUSHA ENTERPRISES

*Pratyusha Kumar*  
Proprietor/Manager

## INVOICE

Date: 23-03-2025

To  
ICT Academy of Tamil Nadu  
Module No E-6-03,  
6<sup>th</sup> Floor Block -E,  
IIT Madras Research Park,  
Kanagam Road, Taramani,  
Chennai- 600113.

INV. NO.	DETAILS	AMOUNT (Rs.)
1/2024-25	Towards setting up the "Advanced IT Skills Training - A CSR Initiative by IBM India Pvt Ltd" - A joint Certification Skill Training on "Certificate Course on DATA ANALYTICS"  Batch ID: G4468  Students Count: 63  Training Start Date: 26-03-2025  Training End Date: 29 -03-2025	Rs. 12,500.00
	Total	Rs. 12,500.00

Amount in words: Twelve Thousand Five Hundred Only

Payment may please be released in favor of **DADI INSTITUTE OF ENGINEERING & TECHNOLOGY** (or) Transfer Online.

Bank: HDFC BANK LTD  
A/c. No: 10321450000023  
Branch: ANAKAPALLE  
IFS Code: HDFC0001032  
PAN No: AACTS1180R



*R. Srinivas*  
23/03/25

Principal  
**Dadi Institute of  
Engineering & Technology**  
Autonomous  
Anakapalle - 531 002



# All India Council for Technical Education



(Statutory body under Ministry of Education, Govt. of India)  
Nelson Mandela Marg, Vasant Kunj, New Delhi 110 070  
Website link: <https://www.aicte-india.org/atal>

Training and Learning Bureau  
Sanction Letter

F. No. 1743583519/AICTE/ATAL/2025-26

Dated : 03/06/2025

To

The Drawing and Disbursing Officer,  
All India Council for Technical Education  
Nelson Mandela Marg, Vasant Kunj,  
New Delhi-110070

**Sub: Release of a sum of Rs. 2,50,000/ (Rupee Two Lakh Fifty Thousand only) being the first instalment of the Grant-in-Aid under AICTE Training and Learning (ATAL) Academy Programme for the Academic year 2025-26 - reg.**

Sir/Madam,

This is to convey the sanction of the Competent Authority of the Council for payment of **Rs. 3,50,000/- (Rupees Three Lakhs Fifty Thousand Only)** as Grant- In -Aid for conducting of Face to Face **ATAL Basic Faculty Development Programme** under AICTE Training and Learning (ATAL) Academy Programme and to make payment of **Rs.2,50,000/- (Rupee two Lakh Fifty Thousand only)** as first instalment of Grant-in-Aid as per details given below:

1	Name of the Beneficiary Institute (University/College/Institute)	<b>DADI INSTITUTE OF ENGINEERING &amp; TECHNOLOGY (DIET)</b>
2	Address	<b>Anakapalle, Visakhapatnam, Andhra Pradesh-531002</b>
3	Name of the Coordinator	<b>Dr.Karimisetty Sujatha</b>
4	Permanent ID of Institute	<b>1-8547648</b>
5	Title	<b>Empowering Innovators with Progressive Design Thinking Approach</b>
6	Dates of FDP	<b>6/30/2025 to 7/5/2025</b>
7	FDP Type	<b>ATAL BASIC FDP</b>
8	Total Amount Sanctioned	<b>Rs. 3,50,000/-</b>
9	Amount to be released as 1 <sup>st</sup> Instalment	<b>Rs. 2,50,000/-</b>
10	Amount to be released as 2 <sup>nd</sup> Instalment (Case to case basis upon submission of Statement of Expenditure )	<b>Rs.1,00,000/- (Cap Limit)</b>

**The instructions/guidelines to be followed by University/Institution**

**I. Release of funds**

a. The maximum cost for conducting per programme will be of **Rs. 3,50,000/-** as per detail given as under:

Sr. No.	Particulars	Sanctioned amount for <u>2025-26</u> for ATAL Basic FDPs
1.	Honorarium to Co-ordinator	Rs. 8,000/-
2.	Honorarium to Co-Co-ordinator	Rs. 5,000/-
3.	Honorarium for computer operators/lab-Technicians	Rs. 5,000/- (in total)
4.	Honorarium for experts (Rs. 7000/- per session)	Rs. 70,000/- (10 sessions)
5.	TA to External experts engaging sessions (reimbursement in actual against original bills)	Rs. 1,00,000/-
6.	Refreshment & Lunch	Rs. 60,000/-
7.	Consumable items, inauguration and velidictory functions, and Miscellaneous Charges etc.	Rs. 22,000/-
8.	TA to Participants (Only for external participants)	Rs. 60,000/- per External Participant, lamp sum Rs. 1200/- payable only for those with >=90% attendance and travelling beyond 20 KM one side)
9.	Industrial Visit (Travel expense and visit charges, if any)	Rs. 20,000/-
	<b>TOTAL</b>	<b>Rs. 3,50,000/-</b>

- (b) The grant is subject to the adjustment on the basis of Utilisation Certificate in the prescribed proforma to be submitted by the University/College/Institution. Further, the accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.
- (c) The amount of the Grant-in-Aid bill shall be disbursed and credited to the account of **DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (DIET)** through **RTGS**.
- (d) This Grant-in-Aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated vide the scheme document.
- (e) The sanctioned grant-in-aid is debitable to the AICTE Training and Learning (ATAL) Academy Programme and is valid for payment during the financial year 2025-26 only.
- (f) Funds once released for organising the approved topic/area of FDP cannot be utilised for any other programme.
- (g) In case the event is cancelled/not conducted/could not conduct due to lack of required participants on the first day first session, the Grant- In-Aid shall be **refunded to AICTE within 07 days**.
- (h) In case it is revealed that any vigilance case/ grievance is pending against the institute or punitive action has been initiated against the institute for violation of AICTE norms, the Grant-In-Aid released to the institute will be liable to be refunded along with interest @ of 10% per annum.

**2. Maintenance of Account by the Institute/University**

- (a) The University/College/ Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilised only on approved items of expenditure as given above.
- (b) Funds covered by this grant shall be kept separately and would not be mixed up with other funds, so as to know the amount of interest accrued on the grant from AICTE.

- (c) The Council or its nominee shall have the right to check/ verify the account to satisfy that the fund has been utilised for the purpose for which it was sanctioned.
- (d) The Institute shall send a confirmation to AICTE within 15 days of receipt of grant on the receipt of the same.
- (e) All mandatory documents **in original in hardcopy** be submitted to The Director, Training & Learning Bureau, All India Council for Technical Education, Nelson Mandela Marg, Vasant Kunj, New Delhi -110070 within **fifteen days of completion** of the FDP

**II. Distribution of funds to institutions,**

Amount of the grant sanctioned will be released in two instalments; first as advance of Rs. 2,50,000/- and then as reimbursement against the utilization Certificate and Statement of Expenditure, limited to Rs. 1,00,000/- to the University/Institute through electronic transfer in the account of the University/Institute after submission of mandate form.

**Institute Bank Account Details**

Institute PAN No.	Bank Name	Bank Branch	Bank Branch Address	Account Holder Name	Account type	Account number	IFSC Code
AACTS1 180R	HDFC BANK LTD	MAIN BRANCH, 1032	Main Road, opp Satyanarayan Thearter, Anakapalle - 531001	Dadi Institute of Engineering & Technology	Saving	1032145 0000023	HDFC00 01032

**III. Refund of Grant by way of a Demand Draft in favour of Member Secretary, AICTE, New Delhi**

The unutilized Grant-in-Aid should be refunded to the Council **within fifteen days** of conduct of the FDP. If the university/institute does not conduct FDP on the prescribed dates, or fails to follow directions in regard to conduct of FDPs as laid out in the scheme document the entire amount will be liable to be refunded within 07 days. The amount has to be refunded to AICTE through RTGS as per details given below:

Account Number	55113200222
Name of the Account Holder	Member Secretary, AICTE, New Delhi
Bank Name	State Bank of India
Branch Name	Shastri Bhawan, New Delhi
IFSC Code	SBIN0050203

**IV Submission of documents by University / Institution**

- (a) The following mandatory relevant documents are required to be submitted by the University / institution in original in hardcopy within fifteen days of the completion of the programme.
  - (i) Utilization Certificate (UC) as per Annexure –I of Scheme Guidelines
  - (ii) Statement of Expenditure (SoE) as per Annexure-II of Scheme Guidelines
  - (iii) Original bills
  - (iv) FDP Report duly acknowledged and signed by Coordinator and Hol

**(b) Documents required to be uploaded in soft/scanned format in the ATAL Portal.**

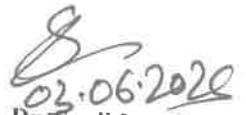
- (i) List of participants who have successfully completed the FDP on the basis of the continuous, comprehensive assessments (in EXCEL Format).
- (ii) FDP Report including photographs, YouTube links and Media report (News/Media/Magazine cuttings/clippings)
- (iii) Utilization Certificate & Statement of Expenditure as per Annexure I & II
- (iv). Assessment questionnaire and Results of assessment (EXCEL format)

**V General Instructions**

- (a) Maximum 50 and minimum 30 minimum number of participants relaxed to 20 for North Eastern states Jammu, Kashmir, Ladakh and Andaman & Nicobar Islands).
- (b) A test has to be conducted on the last day accordingly. Scheme document 2025-26 and those who score more than 70% will be termed as successful candidates. Those who have attendance 80% or more and also score more than 70% in the test will be issued a digital certificate.
- (c) Eligibility for institutions and participants are as laid out in the scheme guidelines
- (d) No fees shall be charged from any participant for attending ATAL FDP.
- (e) The institute should bear the expense incurred in addition to the fund granted by AICTE from their own resources.
- (f) Terms and conditions laid out in the Scheme Guideline for ATAL FDPS 2025-26 will be final and binding.

This Sanction Letter may be treated as Offer Letter for all purposes.

Yours Sincerely,

  
02.06.2020  
Dr. Sunil Luthra,  
Director,  
Training and Learning Bureau, AICTE

Copy forwarded for information and necessary action to: -

1. Dr.Karimisetty Sujatha, Email: sujathakota22@gmail.com
2. VAIKUNTA RAO RUGADA, Anakapalle, Visakhapatnam, Andhra Pradesh-531002
3. Guard File