

## **PALLAVI ENGINEERING COLLEGE**

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

A lot of thrust is put on by the institution for innovation and to cite a few examples, students have taken up interesting projects and developed the following close to products, during their projects phase, including Go-kart, E-car, water purifier, e-yantra robotics, etc.

The Institute truly believes the need for an ecosystem for sustained innovation and is continuously taking initiatives to help evolve innovation from both teachers and students.

An incubation center is set up and the center supports students with guidance, hand-holding and expertise in shaping their ideas from ideation to reality phase by inviting people from industry and academia.

The institute is equipped with most sought after reference books, theses and publications to help students dive into their research areas and in the process develop workable prototypes.

The students are supported by R&D cell, comprising of Research coordinator and senior faculty members of all the departments.

The institution has secured funding from JNTUH TEQIP III for creating entrepreneurship awareness.

Water testing consultancy services have been taken up by the Chemistry Department for the benefit of local community and schools.

The departments also conduct hands-on-training, workshops and project exhibitions to demonstrate the new innovative ideas of the students.

Research facilities are made available to students to develop innovative projects. Recently the project expo PRAGATHI has been conducted in association with Indian Meteorological Department, Hyderabad under the guidance of the Member secretary, Telangana State Council of Science & Technology.

Memorandum of Understandings (MoUs) is signed by the Institution paving way

for students to internalize the necessary knowledge acquisition in emerging technologies.

- IIT-Bombay (NMEICT)
- IIT-Kharagpur (NMEICT)
- Paramount Auto Bay Services
- Niraja Research and Technologies
- Shalivahana Green Energy Limited
- Dhanush Engineering Service Pvt ltd
- Dell EMC
- Canter CADD

Consultancy projects are being carried out in association with companies like

- Niraja Research and Technologies Pvt Ltd,
- Shalivahana Green Energy Ltd, and
- Truvolts Research Centre Pvt. Ltd etc.

The students are mandated for industrial visits and internships every year and students are encouraged to identify the processes and work towards finding better ways to process improvisation.

The following cells/committees support creating an innovative ecosystem on campus:

- Projects and incubation centre
- Recenter & Development cell
- TEQIP
- Jalasiri, water testing lab
- Industry-Institution interaction cell
- Entrepreneurship development cell

PEC identifies an ecosystem to share technical knowledge between the students and faculties for innovation with the incubation center. The college builds up with R&D cell to promote research activities headed by Dean R&D. The R&D cell focuses on mini and major projects of the students along with funding agencies that are to be carried out during the study. The R&D cell facilitates faculty and students to publish quality papers in referred journals with a high impact factor. The R&D cell conducts workshops on how to write a paper, important steps to avoid plagiarism, and identifying, quality journals which help the faculty and students to meet their research requirements. The management is very much keen on research activities

and promotes faculty and students to come up with new innovative ideas by providing suitable infrastructure and financial assistance whenever needed. The event Ideathon is conducted every year irrespective of all disciplines to bring up new innovative ideas from students. The R&D cell finds various government funding agencies like AICTE, SERB, UGC, CSIR, etc. and, other local bodies to complete the innovative ideas into a prototype model.

**Entrepreneur Development Cell (EDC):** of the College targets to develop entrepreneurs to generate employment through technology and also to improve the competence of the students by providing opportunities to enhance their managerial skills and leadership qualities, to attend and participate in workshops, to visit the industries to meet the global demand and new challenges to generate employment. The students are motivated to take a step forward and take up a career of self-employment and set up a small and micro-enterprise as an entrepreneur. The skill set required for the development of an entrepreneur includes resources planning, manpower management, financial planning, marketing management, and manufacturing expertise. EDC aims to expose budding engineers in these domains of requirements to convert them into successful entrepreneurs.

**IIC Cell:** The vision of the IIC cell identifies the gap between industry and academia which provide a learning opportunity and implementation platform that cherishes students' expertise in Science and Technology, Research interests, and Social Responsibilities.

### Patents:

Sl.No	Application Number	Date of Filling	Applicant Name	Title of Invention	Field of Invention
1	202241004751	28/01/2022	Arya Bhanu	An Artificial Intelligence-Enabled Framework for Human Emotion Recognition	Computer Science Department
2	201841003971	2018	Dr.K.Naga Jytohi	Wearable Device for Curing Eye Problems	H & S Department
3	201941038678	25/09/2019	Dr.R.SUBASH CHANDRA BOSE	HIGH PERFORMANCE OF HEEDLESS GLASS FIBER REINFORCED CONCRETE	Civil Engineering Department

				PANELS	
4	201941041653	15/10/2019	Dr.R.SUBASH CHANDRA BOSE	INVESTIGATING THE EFFECT OF HYBRID NANOMATERIALS ON THE MECHANICAL PROPERTIES AND DURABILITY OF CONCRETE	Civil Engineering Department
5	201941031691	06/08/2019	Dr.R.SUBASH CHANDRA BOSE	DESIGN FOR EARTHQUAKE LOAD MODELLING USING THE CRITICAL EXCITATION METHOD	Civil Engineering Department
6	201941035722	05/09/2019	Dr.R.SUBASH CHANDRA BOSE	LONG-TERM PERFORMANCE OF FREEZE-THAW AND CORROSION RESISTANCE OF STEEL FIBER-REINFORCED CONCRETE APPLICATIONS	Civil Engineering Department
7	201941052209	17/12/2019	1. ANIL KUMAR PATHAKAM URI  2. P JYOTHI	AN INTELLIGENT MONITORING DEVICE FOR ELEVATORS	Electronics and Communication Department
8	2020102818	06/01/2021	1. T.SRAVANTI 2. K.NAGA JYOTHI	A SMART AND EFFICIENT WASTE MANAGEMENT SYSTEM TO	Electronics and Communication Department

				SAFELY DISPOSE OF THE WASTE TO AVOID PANDEMICS SUCH AS COVID 19	
9	201941006917	2019	Dr. MANGALI BALRAJU	SYSTEM AND METHOD FOR DECOMPOSING ORGANIC AND FOOD WASTE	Computer Science And Engineering Department
10	369233-001	2022	Dr. I. V. PRAKASH	SMART LED WITH IOT TECHNIQUE	Electronics and Communicat ion Department





*On the recommendation of the Research Team and virtue of authority  
vested on them, the Regents of Allinnov  
Gave conferred upon*

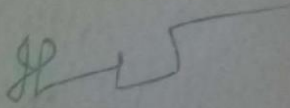


*The Proud Award of*  
**INVENTOR**  
**Dr. K NAGAJYOTHI**

Patent Appln. No.: 201841003971.

Title: **WEARABLE DEVICE FOR CURING EYE PROBLEMS**

*With all rights and privilege appertaining thereto  
In witness thereof, this Award duly signed has been issued on this  
12<sup>th</sup> Day of February A.D. Two Thousand and Eighteen.*

  
Director



Allinnov Research and Development Private Limited



# Certificate of Honour

*Best Researcher*

proudly presented to

*Dr. K. Naga Lyothi*

In Recognition for her performance in research for the year 2017-18.

by sharing her vision and views to National Research organization Committee on

06 November-2018.



*Oruganti Rakesh*  
Executive Editor - IJEMR



*T. Kranthi Kumar*  
Organising Secretary



*B. Venkateshwar Reddy*  
Convener





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vested on them, the Regents of Allinnov  
Gave conferred upon*



*The Proud Award of*  
**INVENTOR**

**Dr.MANGALI BALRAJU**

Patent Appln. No.: **201941006917**

Title: **SYSTEM AND METHOD FOR DECOMPOSING ORGANIC AND FOOD WASTE**

*With all rights and privilege appertaining thereto  
In witness thereof, this Award duly signed has been issued on this  
1<sup>st</sup> Day of March A.D. Two Thousand and Nineteen*

**Director**



**Allinnov Research and Development Private Limited**



*On the recommendation of the Research Team and virtue of authority  
vested on them, the Regents of Allinnov  
Have conferred upon*



*The Proud Award of*  
**RESEARCHER**

**Dr.MANGALI BALRAJU**

Enrollment No : **AL1617**

Module No. : **1**

*With all rights and privilege appertaining thereto  
In witness thereof, this Award duly signed has been issued on this*

*1<sup>st</sup> Day of March A.D. Two Thousand and Nineteen*

*Director*



**Allinnov Research and Development Private Limited**