

## World IP Day 2026

### Intellectual Property Rights & Technology Transfer

*In association with*

**AVIT IIC  
ORGANIZE**

<b>Event Title</b>	INNOVATION IDEA REVIEW MEETING		
<b>Resource Person</b>	<ol style="list-style-type: none"> <li>1. Dr.Janet J, Principal, AVIT, VMRF, Chennai</li> <li>2. Mr.Gyan Prakash, Institute alumni /Industry expert</li> <li>3. Ms.S Padmamalini, GIEC, VMRF</li> <li>4. Mr.SivaPrakash P, Legal Advisor /IPR expert</li> <li>5. Dr G Kumaresan, Professor &amp; Head, MECH, Bannari Amman Institute of Technology, Erode</li> <li>6. Dr.K.Boopathy, Faculty Member (Convenor - SPOC)</li> </ol>		
<b>Academic year</b>	2025-2026		
<b>Program Type</b> (Workshop / Motivation speech / Field Visit / Competition / Others)	Competition		
<b>Program Theme</b> (IPR / R&D and Innovation / Start-up / Entrepreneurship / Design Thinking / Incubation & Pre - Incubation / others)	Idea Creation event		
<b>Start date &amp; End Date</b> (DD/MM/YYYY)	17.04.2026		
<b>Duration of the activity (in Mins) &amp; Start Time &amp; End Time</b>	Duration: Mins.	Start Time: 10:00 AM	End Time: 03.00 PM
<b>Participants</b>	Students:35	Faculty: 05	External:-
<b>Mode of session</b> (online / offline)	Online		
<b>Event Organizer / Coordinator</b> Faculty Name / Department / Designation	<b>Dr. Boopathy Kannan, Prof./EEE</b>		
<b>Target Participants</b>	II,III & IV Year students of BME,ECE, CSE, EEE & MBA		
<b>Outcome</b>	The Innovation Idea Review Meeting was effectively conducted, throughout which various innovative ideas were		

	<p>presented and evaluated by the group. Appreciated suggestions were provided to improve the proposals, and promising ideas were recommended for further development, sample training, and patent/IPR assessment. The participants were encouraged to refine their ideas and advance to the next stage of implementation. The meeting concluded with appreciation for the inspiration and innovative efforts of all members.</p>
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## Event Broucher


**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY  
Vinayaka Missions Chennai Campus

**DIAMOND**  
**OS I-GAUGE**  
INDIAN COLLEGE RATINGS


**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of HRD Initiative)


*Cordially invites you all to the*

# **Kalam Program for IP Literacy and Awareness (KAPILA) (Phase XII)**



**Innovation Idea Online Review Meeting**

 **17 April 2026**  
**10:30 AM**

**MS Teams** 

**Financial Assistance to the Institution for Filing Patents by MoE's Innovation Cell**

*in Collaboration with*


**All India Council for Technical Education (AICTE)**


*Organized by*

**IPR & TT, AVIT, IIC**

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 **VINAYAKA MISSION'S RESEARCH FOUNDATION**  
(Deemed to be University under section 3 of the UGC Act 1956)  
**Chennai Campus**

 **Accredited with 'A' Grade by NAAC**

In connection with World Ip Day 2026, IPR &TT In Association with Institution Innovation Council (IIC) AVIT organized Kapila Program for IP literacy and Awareness (Ph-12) on 17.04.2026. the following members were present and verified the topics

1. Dr.Janet J, Principal, AVIT, VMRF, Chennai
2. Mr.Gyan Prakash, Institute alumni /Industry expert
3. Ms.S Padmamalini, GIEC, VMRF
4. Mr.SivaPrakash P, Legal Advisor /IPR expert
5. Dr.G.Kumaresan, Professor & Head, MECH, Bannari Amman Institute of Technology, Erode
6. Dr.K.Boopathy, Faculty Member (Convenor - SPOC)

## REPORT ON INNOVATIVE INVENTIONS FOR INTELLECTUAL PROPERTY FILING

### 1. Hybrid Machine Learning Framework for Liver Disease Detection and Related Methods

Inventors: Mrs. K. Dhasaradhan and Dr. Jaichandran R.

This invention presents a computer-implemented hybrid machine learning framework for the early detection and diagnosis of liver diseases. The proposed system integrates clinical laboratory parameters and medical imaging data to improve diagnostic accuracy and support timely clinical decision-making. By combining multiple machine learning algorithms, the framework identifies patterns associated with liver disorders and provides an efficient disease prediction mechanism. The invention has significant potential in healthcare applications, particularly in improving early diagnosis and reducing dependency on manual interpretation. The invention is categorized as a **Process IP** and is presently under the process of intellectual property filing.

### 2. A Multimodal Deep Learning Framework for Blindness Progression Prediction in Diabetic Retinopathy Using Retinal Fundus Images and Clinical Risk Factors

Inventors: Mrs. K. Dhasaradhan and Dr. Jaichandran R.

This invention proposes a multimodal deep learning framework that predicts the progression of blindness caused by diabetic retinopathy by integrating retinal fundus images with clinical risk factors and laboratory data. The system utilizes convolutional neural networks (CNN) and advanced deep learning techniques to analyze both image-based and patient-specific clinical information for accurate disease progression prediction. The framework facilitates early

intervention and personalized treatment planning, thereby reducing the risk of vision loss among diabetic patients. The invention is classified as a **Process IP** and is currently under the intellectual property filing process.

### 3. Decentralized Pyroplast Fuelizer Reactor

Inventors: Dr. M. Prabhakar, Dr. S. Prakash, Dr. M. Saravana Kumar, Dr. S. Sangeetha, Mr. M. Saravanan, Dr. J. Senthil, Dr. C. Thiagarajan and Dr. K. Surendra Babu.

The Decentralized Pyroplast Fuelizer Reactor is an innovative system designed for converting plastic waste into useful fuel through a decentralized pyrolysis process. The reactor provides an environmentally sustainable solution for plastic waste management by transforming non-biodegradable waste into alternative energy resources. The proposed technology aims to reduce environmental pollution, promote waste-to-energy conversion, and support circular economy initiatives. The invention possesses both commercial and environmental significance and is categorized as a **Product IP**. The inventors are in the process of submitting Form-2 for patent filing.

### 4. Curing Sheets for Concrete

**Inventors:** Dr. P. Subathra, Dr. S.P. Sangeetha and Dr. P. Keerthi.

This invention relates to the development of a high-performance, reusable self-curing composite sheet for concrete applications. The curing sheet consists of a three-layer structure comprising a UV-stabilized impermeable top barrier, a moisture-retention layer containing alkali-resistant superabsorbent polymers, and a porous bottom layer that comes into direct contact with the concrete surface. The composite stores and gradually releases moisture to maintain optimal hydration conditions, thereby enhancing the strength and durability of concrete structures while reducing water consumption. The invention has both **Process and Product IP** components and demonstrates significant potential for sustainable construction practices.

### 5. Waste Segregation Dustbin

Inventor: Dr. Kavitha Kumari K.S.

The Waste Segregation Dustbin is an intelligent waste management system that integrates artificial intelligence, computer vision, machine learning, and Internet of Things (IoT) technologies for automatic waste classification and segregation. The system is capable of identifying and separating different categories of waste materials and provides real-time monitoring and smart collection logistics. The invention addresses the challenges of mixed-waste management in Indian households and municipalities and contributes towards cleaner and more sustainable urban environments. The technology offers an innovative approach to smart waste management and has strong commercialization potential.

#### 6. An Automatic Groundnut Weeding Vehicle

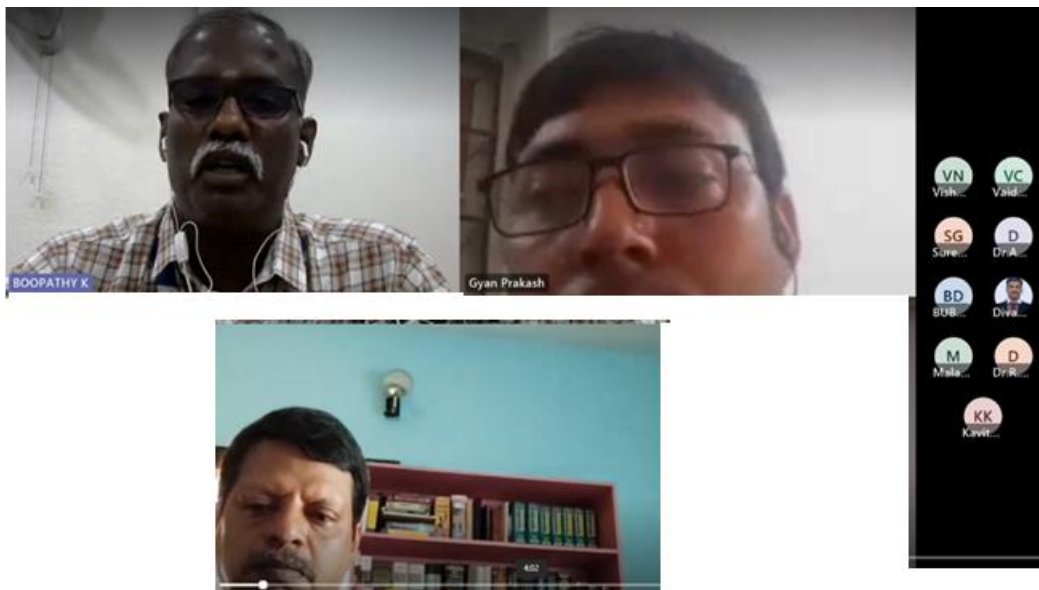
Inventor: Dr. K. Boopathy, and Team

The Automatic Groundnut Weeding Vehicle is an advanced agricultural machine designed to automate weed removal operations in groundnut cultivation. The vehicle incorporates a rotating roller weeder, curve-shaped blower tool, AI-based camera weed detection system, BLDC motor drive, solar charging unit, and weed collection chamber. The system enables efficient identification and removal of weeds while minimizing labor requirements and improving agricultural productivity. The invention promotes sustainable farming practices through automation and renewable energy integration. The technology is categorized as both **Process and Product IP** and has significant potential for commercialization in the agricultural sector.

**TITLE OF INVENTION: ENVIRONMENT FRIENDLY  
PREFABRICATED HOUSING FOR VILLAGES**

Name of the Inventors

1. [Dr.R.Abirami](#)
2. [Dr.S.P.Sangeetha](#)
3. [Dr.D.Bubesh Kumar](#)



# Inventors' details

**Dr.Bubesh Kumar.D**

Professor, Department of Mechanical Engineering, AVIT

**Mr.K.Vijaykumar**

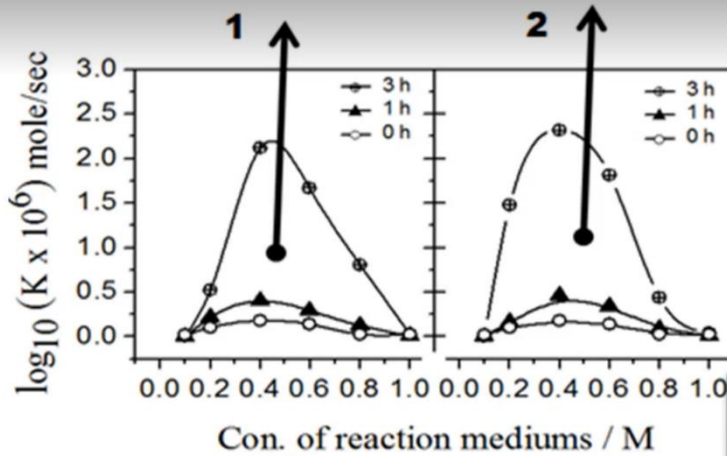
Assistant Professor, Department of Mechanical Engineering, AVIT

**Dr.M.Prabhakar**

Professor and HOD, Department of Mechanical Engineering, AVIT

**Dr.L.Prabhu**

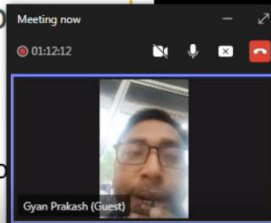
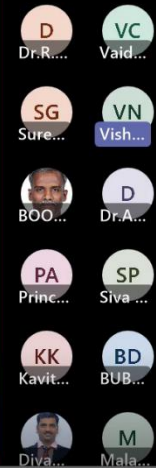
Professor & Vice-Principal (Administration), AVIT



Graphical representation of specific rate of hydrogen peroxide decomposition, according to the present invention



Gyan Prakash





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AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

**AARUPADAI VEEDU  
INSTITUTE OF TECHNOLOGY**  
OMR, PAIYANCOOR, CHENNAI - 603104



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## **ASSISTOCARE- An Integrated Intelligent Assistive Device**

### **Inventors**

**1. Dr. L.K. Hema, 2. Vinjamuru Lakshmi, III BME 3. Hira Parveen, III BME**  
**PROFESSOR & HoD,**  
**DEPARTMENT OF ECE & BME,**



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**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



## **Title of Invention**

**Block chain based e-voting system for secure  
transaction and verifying vote counts using DMECC-  
RLMDS-HSEASE-ERCA method**

## **Inventors Name**

**Mrs. Malathi V & Dr.R. Jaichandran**

**Department of CSE,  
Aarupadai Veedu Institute of Technology,  
Vinayaka Mission's Research Foundation – DU.**

List of Audience:

S.No.	Name of the Participant	Year	Department
1.	Bavani	III	BME
2.	Dipesh	III	BME
3.	Mohamed Sulthan Ali	III	BME
4.	Mothe Rohi Kumar	III	BME
5.	Ruth Kumari Das	III	BME
6.	Sanka Manasa Sai Naga Lakshmi	III	BME
7.	Kesavardhan .V	III	EEE
8.	Vignesh .R	III	EEE
9.	Janarthanan.L	III	EEE
10.	Pradeep.P	III	EEE
11.	Sharukesh .G	III	EEE
12.	Mohammed Ameen.P.V	III	EEE
13.	Md Jamal	IV	CSE
14.	Asarutheen.R	IV	CSE
15.	Pradeep Kumar	IV	CSE
16.	Sanjit Kumar	IV	CSE
17.	Karunakaran.K	IV	CSE
18.	Amjad Ali	IV	CSE
19.	Shaik Abdul Azeez	IV	EEE
20.	Alok T Jayapal	IV	EEE
21.	Prakash S	IV	EEE
22.	Shabin K	IV	EEE
23.	Penjerla Rajiv Chandran	IV	EEE
24.	Devika Aji	IV	EEE
25.	Niraj Kumar	IV	CSE
26.	Divyanshu Kumar	IV	CSE

27.	Charan Sai	IV	CSE
28.	Shubham Saurabh	III	MECH
29.	Mohammed Abbas S B	III	MECH
30.	Prakash S	STAFF	EEE
31.	K.S.Kavitha Kumari	STAFF	EEE
32.	Shaukat Ansari	III	AI&DS
33.	Ibrahim Siddique	III	AI&DS
34.	Babu Lal Singh	III	AI&DS
35.	Pravash Kumar Parida	III	AI&DS
36.	Motheeshwaran.Y	III	AI&DS
37.	Ayub Ansari	III	AI&DS
38.	Rajmohan Kumar	III	AI&DS
39.	Asif Ali	III	AI&DS

We would like to sincerely thank the Management, Principal, VPs and HOD's for having given us an opportunity to organize a Kapila meeting in connection with World IP Day . My heartfelt thanks to President, Vice President, and IPR Students /Faculty members, for providing constant support.

Special thanks to our respected Principal, Dr J Janet, for his valuable guidance and support.

