







IPR CELL, INSTITUTION INNOVATION COUNCIL (IIC) - AVIT

<u>Event Report – "</u>Kapila Program for IP literacy and Awarness (Ph-10), Kapila 7

Name of the Event	Kapila Program for IP literacy and Awarness (Ph-10), Kapila 7
Date & Time	11.03.2025 & 10.00 AM (IST)
Guest Speaker	(i) Mr.Gyan Prakash- Institute alumni /Industry expert (ii) Miss Padam Malini - Incubation CEO (iii) Mr.SivaPrakash P - Legal Advisor /IPR expert
Total Participants	08
Organised By	IPR Cell, Institution Innovation Council (IIC) AVIT
Mode	Online
Venue	GIEC
Media link	https://teams.live.com/meet/9572100129166?p=3zx6D4ujiLqf I2HmDy









Event Broucher











Cordially invites you all for the

Kalam Program for IP Literacy and Awareness (KAPILA) (Phase X, Kapila - 7)









Organized by

IPR & TT HuB, IIC





IPR Cell, Institution Innovation Council (IIC) AVIT organized Kapila Program for IP literacy and Awarness (Ph-10) on 11.03.2025. the following members were present and verified the topics for finalizing the Kapila patent filling.

- (i) Dr.G.Selva Kumar Chairperson-Principal
- (ii) Mr.Gyan Prakash- Institute alumni /Industry expert
- (iii) Miss Padma malini- Incubation Head/CEO
- (iv) Mr.SivaPrakash P Legal Advisor /IPR expert
- (v) Dr.K.Boopathy, SPOC

Patent list

S.No	Name of the	Title	Field of	Claims	Remarks /
	inventors		invention		Applied
			/Objectives		
1.	Dr. S. Prakash	Musculowagon	The present	A gym equipment	Product IP
	Dr.M. Prabhahar	Mechbox	invention	organizer system,	
	Dr. M. Saravana		relates to the	MUSCULOWAGON	
	Kumar		field of fitness	MECHBOX, comprising:	
	Mr. A.Lokeshwaran		equipment	• A main storage	
	Mr. B.		storage and	compartment (1) defined	
	Manuneethichola		organization	by a rectangular	
			solutions,	framework constructed	
			specifically a	from a durable,	
			modular and	lightweight material,	
			portable gym	facilitating portability and	
			equipment	reinforced edges for	
			organizer.	enhanced strength;	
			Designed for		
			gym enthusiasts		
			and fitness		
			professionals,		
			this invention		
			provides an		
			innovative,		
			space-saving		
			system that		
	<u> </u>		securely stores		

			various gym		
			tools while also		
			functioning as a		
			foldable gym		
			bench		
			The principal		
			object of this		
			invention is to		
			provide a		
			modular gym		
			equipment		
			organizer that		
			efficiently		
			organizes and		
			protects		
			workout tools,		
			enhancing		
			accessibility and		
			convenience for		
			users.		
2.	Dr.Bubesh	Advanced	It is one of the	The invention provides a	Product
	Kumar.D	Deep Learning	present	wearable exoskeleton with	
	Mr.K.Vijaykumar	Based	inventions	hands and legs with foot.	
	Dr.M.Prabhahar	Exoskeleton	which include a		
	Dr L.Prabu	for Paralytic	lightweight	Which represents the	
		Patients	carbon	design of an exoskeleton	
			composite	robotic technology to	
			exoskeleton	assist the paralyzed	
			body, offering	people to move on their	
			increased	own, by supporting them	
			strength-to-	physically and move their	
			weight ratio	leg and hand	
			which also	independently like a	
			includes	human	
			ultrasonic		
			obstacle		
			avoidance		
			system, CCD		
	<u>'</u>	I	camera sensors		

			ensuring the patients safety by detecting obstacles along their path.		
3.	Dr.R.Abirami Dr.S.P.Sangeetha Dr.Bubesh Kumar.D Dr.M.Prabhahar Dr. R.Divahar	Environment- Friendly Prefabricated Housing For Villages	The present invention aims to build houses using natural environment friendly materials available in the villages. Another aspect of the present invention includes a mould for fabricating prefabricated walls with a tensioning provision for the sisal fiber composite mixture, enhancing the strength-to-weight ratio of the prefabricated wall.** The main object of the present invention is to offer a house	The natural materials for constructing environment friendly house for villages. Comprises of Wooden mould for prefabricated wall Prefabricated Roof slab is made up of wood Natural Composite Material (clay, limestone, rice husk and sisal fiber) Interlocking wall	Product

			1 C		
			made from		
			natural		
			materials		
			available from		
			farmers own		
			land in the		
			villages		
4.	Dr.L.Chitra	Design And	The invention	The safe and secure bike	Product
1	Mr	Development	relates to the	system comprises the bike	Troduct
	Veeramunishwaran	Of Safe And	field of bikes	unit (100), ESP 32	
	veerainumsnwaran				
		Secure System	including		
		In Bike	electric bikes,	connected with GPS	
			specifically	module (101),	
			focusing on	temperature sensor (102),	
			enhancing their	smoke sensor (103),	
			safety and	battery (104), colour	
			security through	display (105), alarm	
			technologies	system (106), Wi-Fi	
			using IOT.	module (107), ESP 32	
			**	microcontroller (108),	
			To develop a	central IoT server (202)	
			robust anti-theft	and mobile app (300)	
			mechanism that	and the training to the	
			includes secure		
			Wi-Fi		
			connectivity and		
			an OTP-based		
			unlocking		
			system for		
			ensuring only		
			authorized		
			users can access		
			the e-bike		
5.	Malathi V	Block Chain	The present	(i) Registration: All	Process
J.	Jaichandran R	based Hybrid	invention	voters are required to	(N- avoid
	jaichanai it	Electronic	generally relates	register their voter details	vote
		Voting System	to block chain	before the election.	rigging)
		using DMECC-	based hybrid	(ii) Authentication:	Y 433
		RLMDS-	electronic	Digital signatures will be	Is- Adding

HSEASE-ERCA	voting system	created for all registered	block chain
HOLAGE-LINGA	that combines	voters.	at vote
	both manual	(iii) Vote casting: All	
	voting and		Storing
	online and	their votes and casted	
	electronic	votes will be transferred	Application
			1 1
	voting.	and stored in block chain	for any
	Specifically, the		
	invention	encryption method.	voting
	relates to a	(iv) Vote counting: All	system
	system and		
	method for	block chain networks are	
	secure vote	counted after decryption	
	casting, vote	process.	
	transactions and		
	verifying vote		
	counts in block		
	chain network.		
	object of the		
	present		
	invention is to		
	present a hybrid		
	system and		
	method for		
	block chain		
	based electronic		
	voting system		
	with Doubling		
	mechanism		
	based Elliptic		
	Curve		
	Cryptography-		
	Reformed		
	Lamport Merkle		
	Digital		
	Signature-		
	Hidden		
	Structure		
	Enhanced		

			Attailant -			1
			Attribute			
			searchable 			
			encryption-			
6.	Vijay J	Efficient	Solid State	The typical power flow	Product	
	Hema L K	Power	Transformer,	model employs a DAB		
		Management	Renewable	converter with phase shift		
		System By	Energy, Power	modulation. This model		
		Implementing	Electronics (includes resonance		
		Solid – State	Not as per	converter transmission,		
		Transformer	format -Ip)	dead time, and a few		
		(Sst)		losses.		
7.	Mr. Atiqur Rahman	Secure	The present	A face recognition-based	Process	/
	Dr.Balakrishnan S	Resource	invention	access control system,	Product	
	K.Boopathy	Access	relates to	comprising:		
		Through Face	biometric-based	A camera module for		
		Recognition	secure access	capturing real-time facial		
		System With	control.	images of users.		
		Alarm	Specifically, the	A preprocessing unit for		
			present	converting images to		
			invention	grayscale and enhancing		
			relates to secure	features.		
			resource access	• facial recognition		
			through face	module utilizing		
			recognition	the Local Binary		
			system that	Pattern Histogram		
			utilizes face	(LBPH) algorithm		
			recognition	for feature		
			technology for	extraction and		
			authentication.	authentication.		
			The said system			
			_	enabling real-time		
			is applicable to	monitoring and		
			smart homes,	notification.		
			offices, banking,	• To interface an		
			healthcare, and	electrical sensor		
			high-security	with computer		
			environments	system to alarm to		
			where enhanced	the respective		
			security and	person through		
			convenience are	Arduino controller		

			ma arrima d			
			required.			
			To develop a			
			secure and			
			reliable face			
			recognition-			
			based access			
			control system			
			for			
			authentication.			
8.	Dr LK Hema and	An Integrated	Hardware	Hardware	instrument	Product
0.	Vinjamuru	Intelligent	configuration	survey report		Troudet
	Lakshmi,Hira	Assistive	and	added.	Siloula be	
	Parveen, III BME	Device	results/outcome	addcu.		
	Tarveen, midmi	Device	should add with			
			elaboration.			
			Product IP			
			process flow			
			and system			
			architecture			
			explanation			
			should be			
1			clearly			
			Clearly			
			represented.			



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
- 4. Dr.M.Prabhahar
- 5. Dr.R.Divahar



Inventors' details

Dr.Bubesh Kumar.D

Professor, Department of Mechanical Engineering, AVIT

Mr.K.Vijaykumar

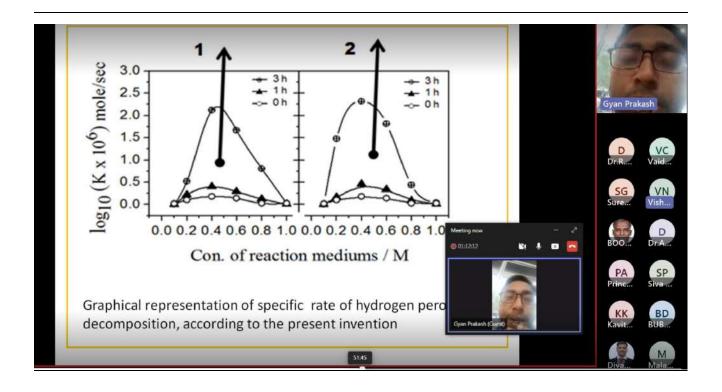
Assistant Professor, Department of Mechanical Engineering, AVIT

Dr.M.Prabhahar

Professor and HOD, Department of Mechanical Engineering, AVIT

Dr.L.Prabhu

Professor & Vice-Principal (Administration), AVIT





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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,









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.

OUTCOME

After the successful completion of the meeting, 7 patents are selected for filing in the kapila portal

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

Special thanks to our respected Principal, Dr.G.Selvakumar, for his valuable guidance and support.

K.Boopathy & IPR Members