





# AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY CENTRE FOR EXCELLENCE IN ROBOTICS AND EMBEDDED SYSTEMS IN ASSOCIATION WITH "E-YANTRA LAB SETUP INITIATIVE (ELSI) – IIT BOMBAY

# PROGRAM REPORT for

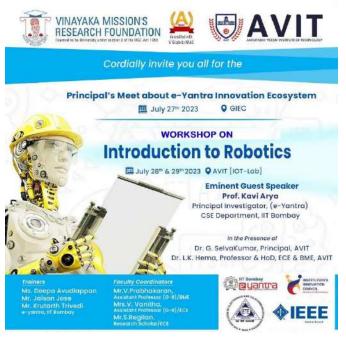
# "PRINCIPAL'S MEET" & TWO DAY'S WORKSHOP ON "INTRODUCTION TO ROBOTICS"

27th July 2023 [Principal's Meet] | 28th & 29th July 2023 [Two Day's Workshop]

AVIT- Centre for Excellence in Robotics and Embedded Systems in association with "e-Yantra Lab setup initiative (eLSI) have jointly organized "Principal's Meet" on 27.07.2023 followed by two day's Workshop on "Introduction to Robotics on 28.07.2023 & 29.07.2023.

#### **About the Principal's Meet**

The Principal's Meet was conducted at GIEC, AV-Campus on 27.07.2023. There are more than 25+ Principal's from various institution have participated in the principal's meet. Prof.Kavi Arya, Principal Investigator (e-Yantra), CSE Dept., IIT Bombay was the "Eminent Guest Speaker" for the event. Prof. Kavi Arya have emphasized on the various initiatives by e-yantra and the vision of e-Yantra.



**Event Brochure** 





## Principal's Meet | 27th July 2023 | 9.00am | Start of the Event

The event was initiated with a blissful innovation song "Tamil Thai Vazhthu" followed by a warm welcome address by "Dr.L.K.Hema, Professor and Head, ECE & BME, AVIT".



**Invocation Song - Tamil Thai Vazhthu** 



Inauguration and Welcome address by Dr.L.K.Hema, Professor & Head, ECE & BME - AVIT.







**Dr.G.Selvakumar, Principal, AVIT** had delivered the "**Presidential Address**" by giving a glimpse of this event. He also emphasized on the essence that this event is intended to deliver for a betterment in robotic education at higher education, he also addressed principals from various institutions about the features of AVIT and also the activities that are going on at AVIT's Centre of Excellence in Robotics & Embedded System Lab. He also congratulated all the coordinators for towards the conduction of the event.





Presidential Address by Dr.G.Selvakumar, Principal, AVIT

After the presidential address **Dr.G.Selvakumar**, **Principal**, **AVIT** felicitated the "Eminent Guest Speaker" – Prof.Kavi Arya, Principal Investigator, Professor of CSE department, IIT-Bombay with shawl.





Eminent Speaker felicitation by Dr.G.Selvakumar, Principal, AVIT

Followed by the speaker felicitation "Dr.S.P.Sangeetha", Vice-Principal Academics, AVIT have felicitated Dr.Deepa Avudiappan, Regional Manager, e-Yantra – IIT Bombay with a shawl





Dr.S.P.Sangeetha", Vice-Principal Academics, AVIT felicitating Dr.Deepa Avudiappan, Regional
Manager, e-Yantra – IIT Bombay











"Dr.Jagadeesh", Head of the Department, CSE felicitating "Mr.Jaison Jose", trainer e-Yantra, IIT-Bombay

The event was started formally with a brief introduction of the eminent guest speaker "Prof.Kavi Arya", Principal Investigator (e-Yantra), CSE Dept., IIT Bombay by Ms.V.Vanitha, Assistant Professor (G-II)/ECE.



Eminent Guest Speaker introduction by Ms.V.Vanitha, Assistant Professor (G-II)/ECE







Prof.Kavi Arya's talk have been inducted, he elaborated on the essentials of e-Yantra on Higher Education and the features of robotic in higher education. He also interacted with many principals of various institutions on the various schemes that e-Yantra is offering ranging from Robotic Competition (eYRC) to Robotic Innovation Challenges (eYIC). Prof. Kavi Arya explained about the features of "History Subject" in the context of robotics and also deliberated on various innovative products that has been developed by e-Yantra in IIT Bombay.

He has also commented on the influence of Artificial Intelligence in Robotics and emphasized on the automated robots having high market demand. He gave a brief insight on the e-Yantra facilities including research software's that are used for robotics training. He also explained about the strategies used for training the students in the field of robotics. Prof.Kavi Arya glimpsed on various robotics competition e-Yantra have conducted in past years and also commented on the various project idea's and also about the finalist.

He also intimated on the funding value that e-yantra is sponsoring onto the selected idea. He wished and interacted to all the college principals and had a healthy discussion on the implementation and enhancement of new/updation of "e-Yantra Lab facility" at all regional colleges. Finally, the talk has ended-up with Question & Answer session

Finally the event was ended with a formal "Vote of Thanks" by Ms.Deepa Avudiappan, Regional Manager, e-Yantra-IIT Bombay

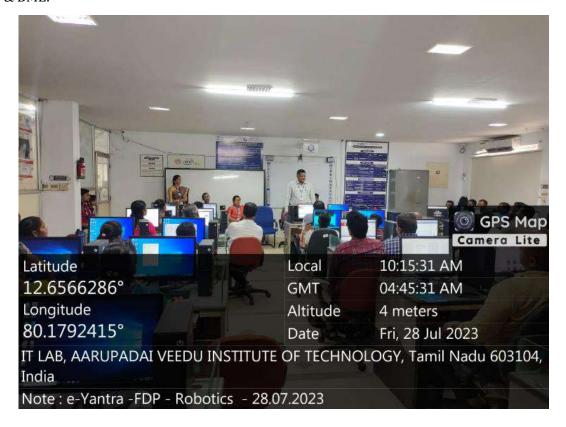






#### TWO DAY'S WORKSHOP ON "INTRODUCTION TO ROBOTICS"

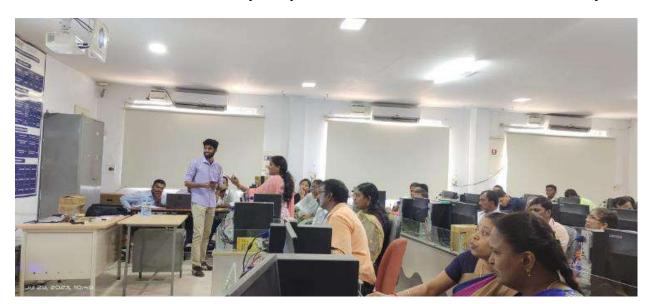
The event was started formally with a warm welcome address by Dr.L.K.Hema, Professor & Head ECE & BME.



Welcome Address by Dr.G.Selvakumar, Principal, AVIT

Dr.G.Selvakumar, Principal, AVIT have delivered the presidential address indicating the various initiatives that AVIT's Centre for excellence for Robotics & Embedded Systems have taken and also about various activities conducted. He also welcomed all the participants/faculty members from various institutions for taking their efforts in attending the two day's workshop.

There are around 75 external participants from various institutions across the country.











Ms. Deepa Avudiappan, Regional Manager, e-Yantra – IIT Bombay addressing the participants

We had Ms.Deepa Avudiappan - Regional Manager, Mr.Jaison Jose- Trainer and Mr.Krutarth Trivedi - Trainer from e-Yantra-IIT Bombay as a subject matter expert for conducting the Workshop

Day 1 | 28.07.2023 | 9.00am - 4.00pm









The Fore-noon session of the Day 1 Workshop started with the introduction of Robotics and their current market demand. Mr.Deepa Avudiappan had explained about the fundamentals of robotic components viz. sensors, actuators, micro-controllers, relay's circuits, types of motor's, motor controllers/driver circuit, etc. She has explained about the basics of robotic programming tools with various syntax used for programming.

Mr.Krutarth Trivedi – Trainer emphasized on the programming fundamentals with various logics involved in microcontroller coding. He demonstrated the components and working of "Fire Bird – V" Robot – (an self-programmable robotic kit). He gave a good insight on dealing with basic syntax for coding the controller.

He gave a hands-on-experience on motor programming which includes forward, reverse actions. He also showed the participants about dumping the program onto the "Fire Bird V Robot" and triggering the motor action by changing the duty cycle of the motor.

He also gave a hands-on-experience on various sensors & actuators used in the "Fire Bird V Robot" and also taught the participants about the programming protocols involved configuring the sensors and actuators.

The After-noon session of the Day 1 Workshop has been handled by Mr.Jaison Jose-Trainer e-Yantra-IIT Bombay. He started with the programming logic of interfacing LED/LCD to the microcontroller, he taught the logic/syntax behind LCD interfacing with its pin configuration. He trained the participants to deal with strings, numbers and alphanumeric characters.

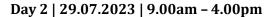
He also trained the participants on fixing the bugs in programming and troubleshooting the hardware circuits. He gave a good insight on algorithm design while writing own program logic depending on the application intended to design. He demonstrated on the 2D & 3D robotic model design in CAD.















The Fore-noon session of the Day 2 Workshop started with sensor interfacing and the pin configuration of various sensors by Mr.Jaison Jose-Trainer e-Yantra-IIT Bombay. Further, he explained on the various sensing elements that are involved in sensing the physical parameters. He gave a good insight on interfacing protocols with controllers. He also dealt with the programming of robotic actuator for picking and placing the object.

In the afternoon session, Ms.Deepa Avudiappan, Regional-Manager explained on various robotic competitions and innovation challenges that are organized by e-Yantra-IIT Bombay and also she deliberated on how to apply for the same. She gave good insight on the various training programmes that are conducted by e-Yantra to train the faculty/students in designing the robots and also to attend the robotic competition and innovation challenges.











#### VALEDICTORY @ AVIT-INDOOR AUDITORIUM | 3.30PM

The valedictory was started by 3.30pm at AVIT, Indoor auditorium. Initially, welcome address was delivered by Dr.L.K.Hema, Professor & Head [ECE & BME], she welcomed all the faculty members from various institutions to the valedictory after completion of two day's workshop.



Dr.G.Selvakumar, Principal, AVIT has delivered presidential address by indicating the knowledge they have gained in the two day's workshop. He also emphasized on the essence of robotics and artificial intelligence which are the key factors that are going to change the future. He also shared on the various facilities that AVIT is providing for collaborative research. He also enlightened on various center of excellence in AVIT with its on-going projects. He commented on the various up-lifting strategies that AVIT is intended to deliver on collaborative research.











After Principal's address, many participants have shared their feedback on the two day's workshop with respect to the resource person, hospitality, knowledge they gained from workshop, presentations, hands-on-experience on the robotic kits, etc.







**Feed Back from Participants** 

Ms.Deepa Avudiappan, Regional Manager, e-Yantra-IIT Bombay has shared her feedback on the workshop, participants enthusiasm, hospitality, accommodation, etc.



Feedback from Ms.Deepa Avudiappan, Regional Manager, e-Yantra-IIT Bombay

Participation Certificates has been distributed to all the participants by Dr.Selvakumar, Principal, AVIT as a sign of successful completion of the two day workshop.













 $\label{lem:participation} \textbf{Participation certificate distribution by Dr.G.Selvakumar, Principal - AVIT.}$ 

# Finally,









"Token of Appreciation" received from "e-Yantra - IIT Bombay" officials



"Group Click" of Robotic Workshop Participants





# **EVENT GALLERY**



























# **AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY** VINAYAKA MISSIONS RESEARCH FOUNDATION (DEEMED TO BE UNIVERSITY)

#### PRINCIPAL'S MEET ABOUT E-YANTRA INNOVATION ECOSYSTEM

#### **REGISTRATION FORM**

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4 Velammal Institute Of Technology	Mrs.Hemalatha	7010621855	hema06.vit@gmail.com	1	1		
5 Velammal Institute Of Technology	Dr.S.PADMAPRIYA	9962562307	hod.ai@velammalitech.edu.in	i	١		
6 Jaya Engineering College	Mr. J. Saravanan	9884166172	jsarav78@gmail.com	J. 12.	J. Rod		
7 Jaya Engineering College	Mr. N. Venkatesan	9384601275	prvenkatrému@gmail.com	this of	Kry. S.		
8 Jaya Engineering College	Mr. B. Muralidharan	9865643952	jayammuralidh@gmail.com	of Nigh	A.d.		
9 Jaya Engineering College	Dr. B. B. Billing i lavay	9701352591	bgsetZ6@gmail.com	2 DE -	N.O.		_
10 Loyola Institute of Technology	Dr V L RAJA	9626262596	vlraja73@gmail.com	必	老		_
11 Loyola Institute of Technology	DR.SUJATHA JAMUNA ANAND	9840696274	iitprincipaloffice@gmail.com	,	1.		
12 Loyola Institute of Technology	Lakshimipriya	3		ı	1		
13 College of Engineering, Guindy	KARTHIKA P S	9791063640	karthi12divya@gmail.com	1	1		
14 Madanapalle Institute of Technology and Science	P.KALIYAMOORTHI	9543879763	kaliyamoorthi@mits.ac.in	ı	1		
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16 Adhiparasakthi College of Engineering	S. Narasimman	8825995601	sivanarasi@gmail.com	E	F		1
17 CPCL POLYTECHNIC COLLEGE	JEGATHEESWARAN S	8122238633	jegatheescpcl@gmail.com	1	,		ı
18 Sri Krishna College of Technology	BHARANI PRAKASH T	9750894448	bharaniprakash.t@skct.edu.in	TO SE	TO TO	P	1
19 J.N.N Institute of Engineering	Dr. Ganeshan k	9087774111	principal@jnn.edu.in	1 9	1 1/2		1
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