



**PERIYAR
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INSTITUTE OF SCIENCE & TECHNOLOGY
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PROGRAMME REPORT ON

Faculty Development Programme-Recent Advancements in Industry Perspectives - AI & IoT

Resource Person

Mr. Kumarasamy.R , Pantech 91 9566133338

Organized by

CA- PMIST



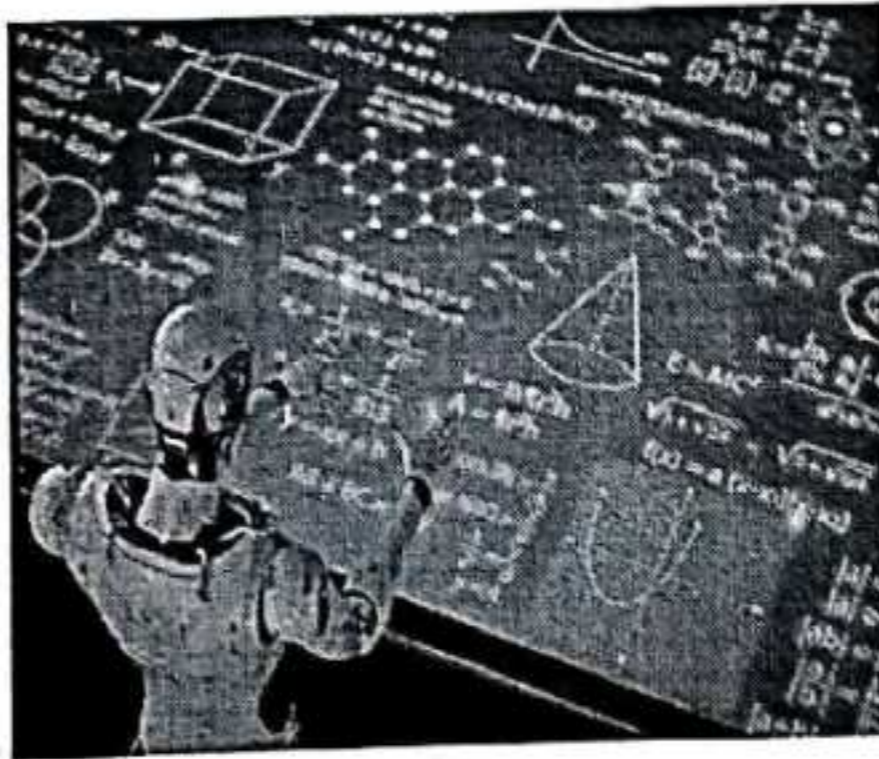
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**Consolidated Report on One Week
Faculty Development Programme
on
RECENT ADVANCEMENTS IN INDUSTRY
PERSPECTIVES – AI & IoT**

Date: 25.11.2024-30.11.2024

**Organizer: Dr. G. PREETHI, AP(SG).
Mr. M. ANAND, AP.**



Organized by

**DEPARTMENT OF COMPUTER APPLICATIONS
PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY
THANJAVUR, TAMILNADU**

Report on 'One Week FDP on
Recent Advancements in Industry Perspectives – AI & IoT

NameoftheEvent/Activities/competitions:	One Week Faculty Development Programme on Recent Advancements in Industry Perspectives – AI & IoT
Organized by:	Department of Computer Applications
Organizer:	Dr. G. Preethi and Mr. M. Anand
Date:	25.11.2024 – 30.11.2024
Venue:	Zoom Platform, https://us06web.zoom.us/j/86251906584?pwd=0YyYm7T8zHx429TDNAQ1W0zMcPbvBi.1 Meeting ID: 862 5190 6584 Passcode: 702696
No.ofParticipants	1951

Description of the Event/Activities/Competitions:

The Department of Computer Science and Applications had organized one week faculty development programme on Recent Advancements in Industry Perspectives from 25.11.2024 to 30.11.2024. The FDP were inaugurated by the Dr. J. Jeyachidra, Dean (Learning & Development), Periyar Maniammi Institute of Science & Technology, Thanjavur, India.

The main theme of this FDP had help to disseminate the knowledge in the domain of AI and Internet of Things, Cloud Computing Techniques. Since data is overwhelming, organizations are struggling to extract theme an insights, which might help to make smarter research decisions.

Topic covered

- Fundamentals of Machine Learning and Artificial Intelligence
- Python with Hands on Sessions.
- Text Analytics using Machine Learning Algorithms
- Imaging applications using AI and its Impacts.
- Insights and Implementations of AIIoT.
- Implementation of an Industrial sensors and advancements of Arduino.
- Next generative AI and Prompts.
- Download and install AI tools and Arduino board.
- Understand the Electronic device of Ultrasonic sensors
- Arduino UNO kit professional is more than enough to learn and understand basics of microcontroller with their interface on different hardware's.

Circular

Event : One Week Online Faculty Development Programme

Date : 25.11.2024 to 30.11.2024

Organizing Secretary : 1. **Dr.G. PREETHI**
Assistant Professor(SG).

2. **Mr. M. Anand**
Assistant Professor

Organized by : Department of Computer Applications
Periyar Maniammai Institute of Science & Technology,
Thanjavur.

Online Notification (Invitation)

Dear Sir/Madam,

Greetings from PMIST(Deemed to be University), Thanjavur, TamilNadu! We are happy to inform you that our department is organizing a One week faculty development programme on "Recent Advancements in Industry Perspectives – AI & IoT" held from 25.11.2024 to 30.11.2024.

Zoom Platform Link: <https://forms.gle/1erE68bQ4jQPdFh4A>

Note:

*NoRegistrationFee

This is open to all the Faculty members, Research Scholars and Industrial Persons.

Mail Communication with Guest :

Periyar Maniammai University Mail - Invitation mail to speaker for webinar

Dr.G.PREETHIAP(SG)/CSAG <preethig@pmu.edu>

Invitation mail to speaker for webinar

Dr.G.PREETHIAP(SG)/CSAG <preethig@pmu.edu>

Fri, OCT 27, 2024 at 5:56 PM:

-----Forwarded message-----

From: Dr.G.PREETHIAP(SG)/CSAG <preethig@pmu.edu> Date: Fri, 27 Oct 2024, 12:16pm

Subject: Invitation mail to speaker for webinar

To: <kumarsamy@pantechelearning.com>, <support@pantechelearning.com>

I Dr. G. Preethi, AP (SG), am writing this letter on behalf of Periyar Maniammai Institute of Science and Technology to invite you to this Faculty Development Programme as a Partner. The FDP will take place on 25/11/2024 to 30/11/2024 at 02.00PM to 4.00.PM (not compulsory, will be extended).

Your sincerity and determination have taken you to this position today and it will be no less than an honour if you can kindly educate our staff members from inside and outside campus on **“Recent Advancement in Industry Perspective – AI & IoT”**. By sharing your views, you can motivate them to do their best and knowing you will be the speaker, each and every scholar, staff member of our institution is excited. They look upon you as their role model.

I am looking forward to a positive response from you, but in case you have prior commitments then I would like to request you kindly let us know about that by mailing at preethig@pmu.edu/mqpreethi@gmail.com or by calling at mobile number: 9994484992.

Thanking you



With Regards
Dr.G.Preethi
CA/PMIST
Thanjavur.

<https://mail.google.com/mail/u/1/?ik=a1b3fc3c04&view=pt&search=all&permmsgid=msg-a%3A/2089482934376976262&dsqt=1&siml=msg-a%3A/20...>

CA/FDP: Recent Advancements in Industry Perspectives – AI & IoT


5


Invitation:



**PERIYAR MANIAMMAI INSTITUTE OF SCIENCE
AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)**
DEPARTMENT OF COMPUTER APPLICATIONS ORGANIZING
One week NATIONAL LEVEL FACULTY DEVELOPEMENT PROGRAMME on

RECENT ADVANCEMENTS IN AI & IOT - INDUSTRY PERSPECTIVE



 25th - 30th Nov 2024

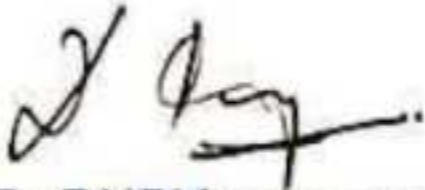
 2:00 - 3:00 PM



Convenor: Dr.D Ruby
Associate Professor & Head

Co-Convenors:
Dr. G. Preethi, Asst. Professor (SG)
Mr.M.Anand , Asst. Professor

 9566133338
 www.pantechelearning.com

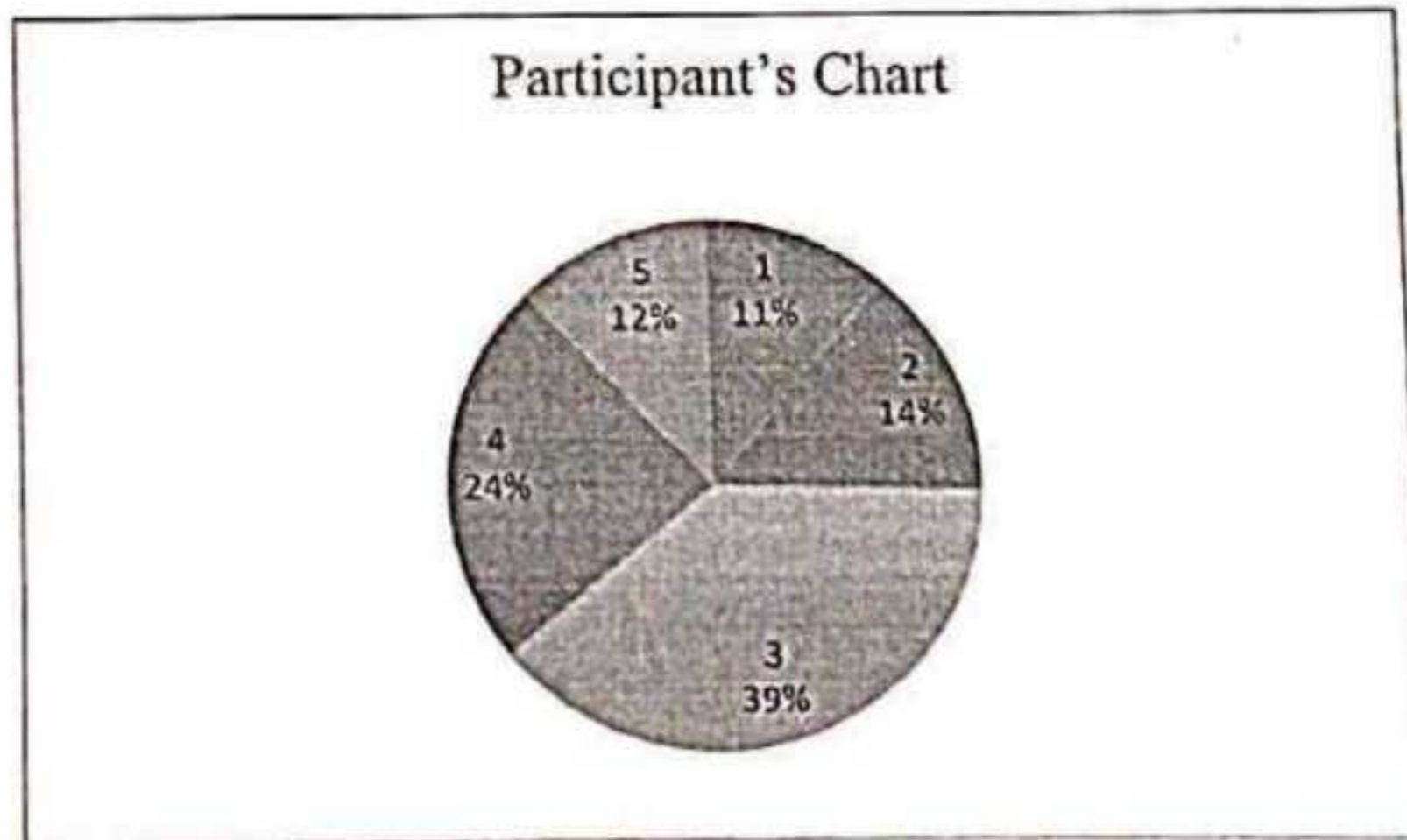


Dr. D. RUBY M.C.A., M.Phil., Ph.D
Associate Professor
Department of Computer Science and Applications
Periyar Maniammai Institute of Science and Technology
Vallam, Thanjavur - 613 403.

Annexure-I

List of Participants (academic designation wise)

S.No	Designation	No. of Participants	Percentage
1	Professor	216	11.07%
2	AssociateProfessor	278	14.25%
3	AssistantProfessor	760	38.95%
4	Academician	460	23.58%
5	ResearchScholar	237	12.15%



Day-1, Date: 25.11.2024

Session Speaker: Dr. K. Lakshimi, Pantech Solutions Pvt. Ltd., Chennai

Topic: "Concept, Overview of Artificial Intelligence "

Dr. K. Lakshimi has made a presentation on the basics of artificial intelligence, machine learning and IoT techniques with hands on sessions using various real time dataset. After the presentation, the participants were interacted with the Resource Person.



<https://www.youtube.com/live/5976KPsYSzM?si=ZGShwkh79YZ0H3m>

Fig. 1 Dr. K. Lakshimi, Pantech Solutions Pvt. Ltd., Chennai, gave a Overview of Artificial Intelligence concepts

Day: 2, Date: 26.11.2024

Session Speaker: Dr. K. Lakshimi, Pantech Solutions Pvt. Ltd., Chennai

Topic: "Next Generative AI & Prompts"

Dr. K. Lakshimi has continued the presentation on the neural network, image encryption, text analytics, and internet of things using machine learning. After the presentation, the participants were interacted with the resource person.



https://www.youtube.com/live/2IYQYJo58Ts?si=ovltTSV-aBXSk_3L

Fig. 2 Dr. K. Lakshimi, Pantech Solutions Pvt. Ltd., Chennai, gave a presentation of Internet of Things

Day:3, Date: 27.11.2024

Session Speaker: Dr. K. Lakshmi, Pantech Solutions Pvt. Ltd., Chennai

Topic: "Imaging Applications Using AI "

Dr. K. Lakshmi has continued the presentation on the digital image processing, human activity recognition, brain control language using sensor and vision based approaches in machine learning. After the presentation, the participants were interacted with the resource person.



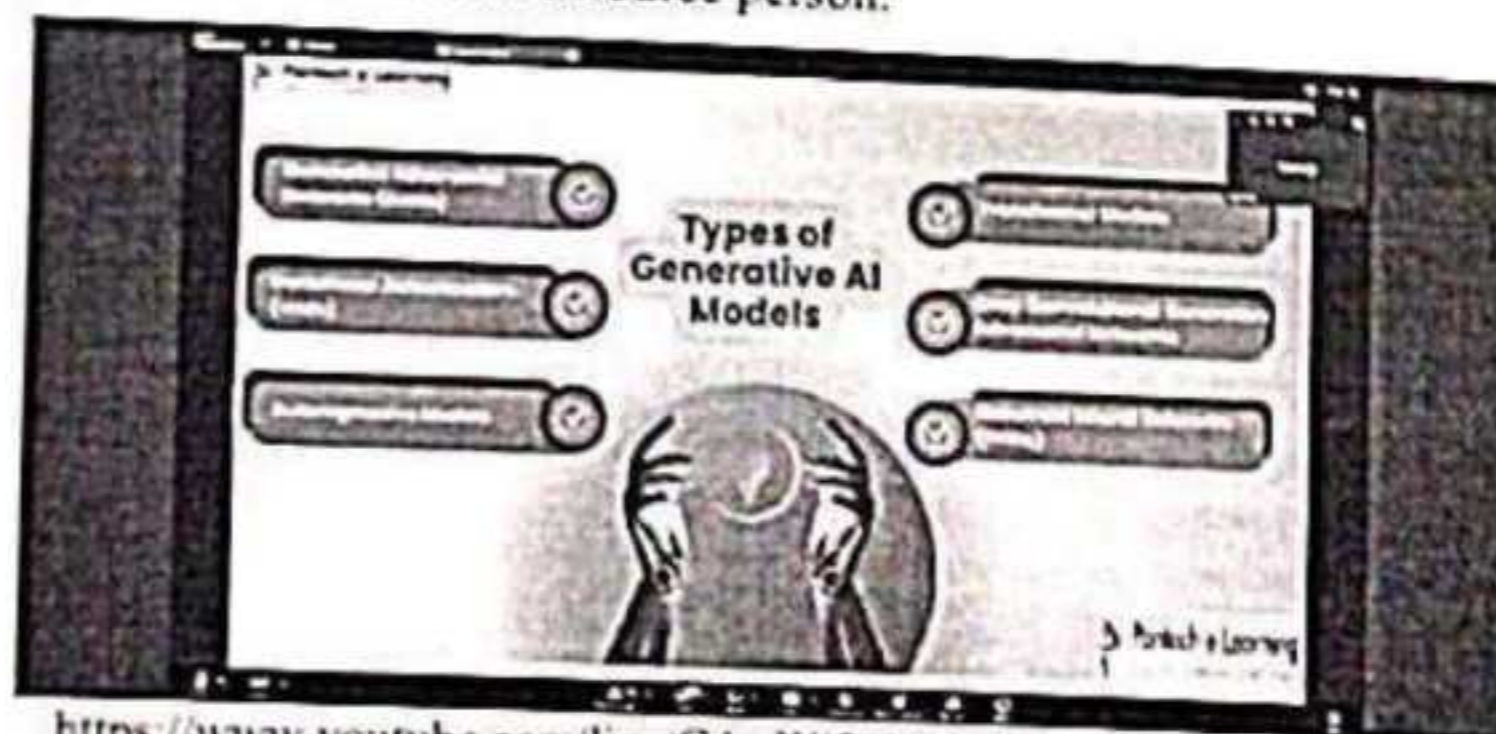
<https://www.youtube.com/live/B4GpfsAdPNo?si=MMQ3jJMK-aGD6gbG>
Fig. 3 Dr. K. Lakshmi, Pantech Solutions Pvt. Ltd., Chennai, gave a presentation of Digital Image Processing

Day:4, Date:28.11.2024

Session Speaker: Mr. M. R. Senthil Kumar, Technical Director, Pantech Solutions Pvt. Ltd, Chennai.

Topic: "IOT & AIoT"

Mr. R. Senthil Kumar has made a presentation on the topic of generative AI and model using Jupyter notebook with hands on sessions using various dataset. After the presentation, the participants were interacted with the resource person.



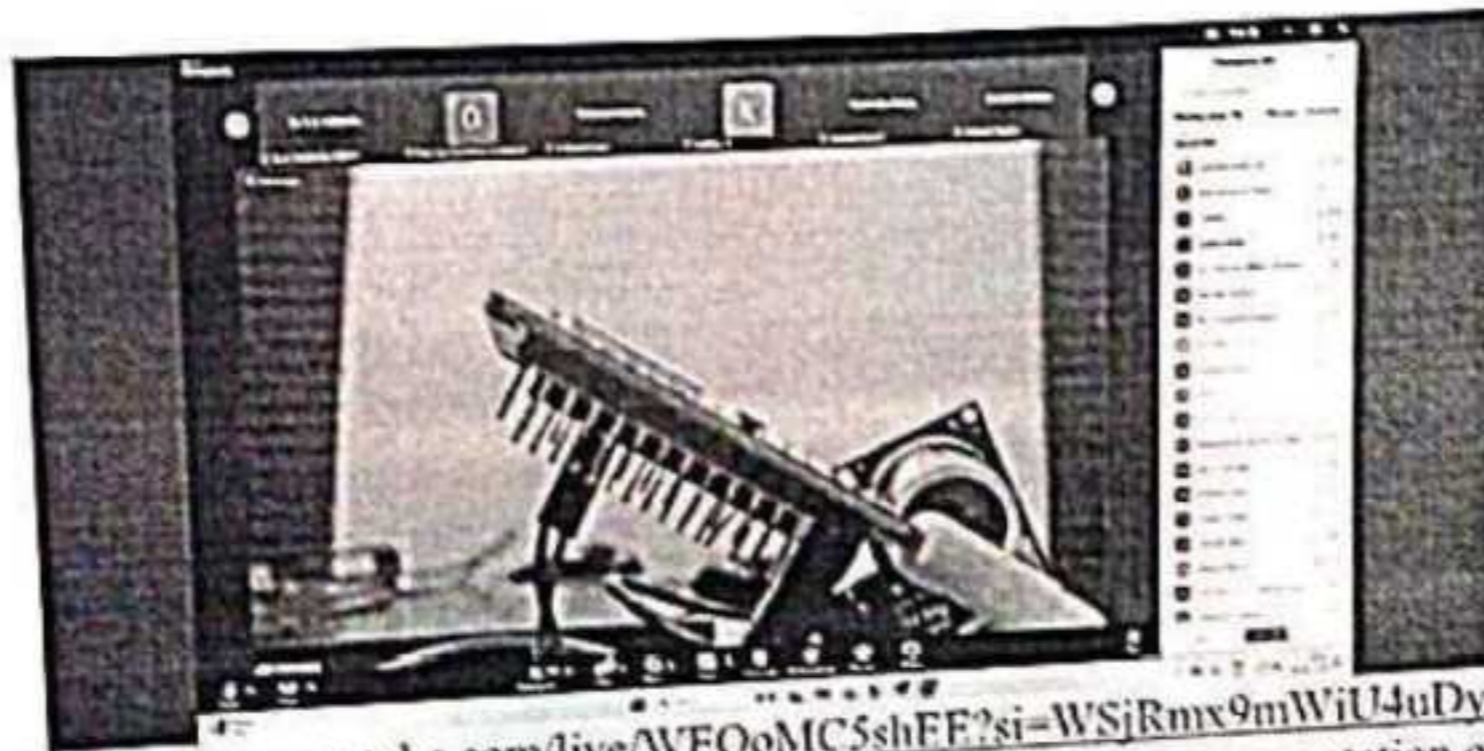
<https://www.youtube.com/live/G4mWj2pVMN4?si=OfHfovt69rcSk5x>
Fig. 4 M. R. Senthil Kumar, Pantech Solutions Pvt. Ltd., Chennai, gave a presentation of Generative AI

Day:5, Date: 29.11.2024

Session Speaker: Mr. M. R. Senthil Kumar, Technical Director, Pantech Solutions Pvt. Ltd, Chennai.

Topic: "Industrial Sensors & Advancements - Implementation"

Mr. R. Senthil Kumar has made a presentation on the micro controller interfaces using Arduino board. The coding are shared as a link to hands on session for the participants. After the presentation, the participants were interacted with the resource person and gain the knowledge of Arduino UNO, Arduino Starter R3 board.



<https://www.youtube.com/live/WFOoMC5shFE?si=WSjRmx9mWiU4uDyT>
Fig. 5 M. R. Senthil Kumar, Pantech Solutions Pvt. Ltd., Chennai, gave a presentation of Generative AI and Arduino

Day:6, Date: 30.11.2024

Session Speaker: Mr. M. R. Senthil Kumar, Technical Director, Pantech Solutions Pvt. Ltd, Chennai.

Topic: "Real Time Implementation - IOT & AI"

Mr. R. Senthil Kumar has made a presentation on real time implementation of sensor and Arduino, quad store Arduino board in different IoT devices. After the presentation, the participants were interacted with the resource person.




<https://www.youtube.com/live/EmlfQpmrvdE?si=XZfZ7Q1ldh509E1s>
Fig. 6 M. R. Senthil Kumar, Pantech Solutions Pvt. Ltd., Chennai, gave an overview IoT devices and, Interfaces and Arduino

Participants List: (Sample Only)			
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Dr. D. RUBY M.C.A., M.Phil., Ph.D
 Associate Professor
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 Periyar Maniammai Institute of Science and Technology
 Vallam, Thanjavur - 613 403.

e-Certificate to the participants

Annexure-II



Feedback Form:

Periyar Maniammai Institute of Science and Technology
Vallam, Thanjavur - 613 403
Department of Computer Applications

**Day 6 Attendance
Form - One Week
Online Faculty
Development
Programme on
Recent
Advancements on
AI & IoT - Industry
Perspective -
November 2024**

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1. *M. Jeyaraj*
2. *M. Ruby*
Co-Convenors

CA/FDP: Recent Advancements in Industry Perspectives – AI & IoT

M. Ruby
HoD

M. Ruby
CSI Local Chapter Coordinator
(*M. Ruby*)

15

Dr. D. RUBY M.C.A., M.Phil., Ph.D
Associate Professor
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Periyar Maniammai Institute of Science and Technology
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