



# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING



Approved by All India Council for Technical Education, New Delhi

Affiliated to Anna University, Chennai

NAAC Accredited Institution & NBA Accredited Courses

(Mech. Engg., ECE, CSE, IT)

"Nizara Educational Campus" Muthapudupet, Avadi-IAF, Chennai - 55.

## 6.3.3 Percentage of Teaching and Non-Teaching Staff participating in Faculty Development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

DVV Clarifications	Response	Page No.										
<p>Values have been updated in 6.3.3.2 for the no. of non-teaching staff as per the IIQA documents; Values have been updated in 6.3.3.1 as per the data template excluding the FDPs less than 5 days has not been considered; Also the multiple participation of the faculty in the same academic year has been considered as one as per NAAC SOP; HEI to provide circular, brochure, report, participation certificate, attendance sheet, geo-tagged photos with date and caption of the following FDPs:</p> <p>1) Machine Learning Techniques, (2022-23)</p> <p>2) Designing and Modelling of IoT, AI &amp; ML Systems (2022-23)</p> <p>3) Electric vehicle Drive System (2022-23)</p> <p>4) Quantum Computing for Real World Applications (2021-22)</p> <p>5) Machine learning for signal processing - A Practical Approach (2021-22)</p> <p>6) CS – 8691 Artificial Intelligence (2021-22)</p>	<p>1. The values updated during DVV for non teaching staffs as per IIQA (34 numbers) is the number of non teaching staffs for the year 2023-24. It is submitted that the input provided by the institution as tabled below is for the assessment period and therefore the number of non teaching staffs may be considered as tabled below instead of as stated in IIQA (34 numbers).</p> <p>HEI Input :</p> <table> <tr> <td>2022-23</td> <td>2021-22</td> <td>2020-21</td> <td>2019-20</td> <td>2018-19</td> </tr> <tr> <td>19</td> <td>21</td> <td>23</td> <td>19</td> <td>20</td> </tr> </table> <p>2. The DVV suggested input of FDP attended for the years 2018-19, 2019-20, 2020-21, 2021-22 and 2022-23 are accepted.</p> <p>3. Circular/Brochure, Report, Certificate and Attendance Sheet are attached for the following FDP's:</p>	2022-23	2021-22	2020-21	2019-20	2018-19	19	21	23	19	20	
	2022-23	2021-22	2020-21	2019-20	2018-19							
	19	21	23	19	20							
	1) Machine Learning Techniques, (2022-23)	1-6										
	2) Designing and Modelling of IoT, AI & ML Systems (2022-23)	7-10										
	3) Electric vehicle Drive System (2022-23)	11-20										
	4) Quantum Computing for Real World Applications (2021-22)	21-27										
	5) Machine learning for signal processing - A Practical Approach (2021-22)	28-34										
6) CS – 8691 Artificial Intelligence (2021-22)	35-43											

  
**PRINCIPAL**  
**AALIM MUHAMMED SALEGH**  
**COLLEGE OF ENGINEERING,**

☎ 044 2684 2086 / 2684 2627 / 2684 2456

✉ info@aalimec.ac.in / principal@aalimec.ac.in    🌐 www.aalimec.ac.in



## ABOUT THE INSTITUTE

Anna University, Madras Institute of Technology (MIT), a premier learning and research institute, is one of the constituent colleges of Anna University which is one of India's premier universities. MIT offers education with the objective of devising and implementing programs of education in Engineering and Technology, constituting a blend of the conventional and unconventional career courses that are relevant to the current and projected needs of society.

## ABOUT THE DEPARTMENT

The Department of Computer Technology at the MIT Campus, Chennai was bifurcated from the Department of Information Technology in the year of 2010, with a view to promote the pursuit of excellence in the field of Computer Science and Engineering. The extremely well qualified and highly knowledgeable faculty adds the value to the department and its students. The Department of Computer Technology has always delight in a respectable status among the major recruiters in India and the excellent performance of its students to maintain its strong and brand image. It offers full time and part time courses for UG, PG and Research. The department receives funds from DST under FIST programme.

## LOCATION

Madras Institute of Technology is located in Chromepet, Chennai, Tamil Nadu, India and the campus is very close to Chromepet railway station.

## PROGRAMME OBJECTIVE

The objective of this ONLINE FDTP is to give a broad exposure to Faculty members for handling the course **CS8082 - Machine Learning Techniques** in AICTE-approved institutions affiliated to Anna University, Chennai.

## COURSE COVERAGE

The following topics will be covered in this online FDTP

- Introduction to Machine Learning and its applications
- Neural Networks
- Genetic Algorithms
- Bayesian and Computational Learning
- EM Algorithm
- Instant Based Learning
- Advanced Learning – First order Rules
- Reinforcement Learning

## ABOUT REGISTRATION

- Number of seats is restricted to 60.
- Selection on first come first serve basis.
- Faculty members affiliated to Anna University alone are eligible to attend this programme.
- Preference will be given to the young faculty based on eligibility criteria.
- Selected candidates will be intimated by e-mail. Confirmation of participation is to be made by email.
- No Registration Fee.

Send the duly filled in Registration forms to the coordinator(s) by post/mail and register through online form.

## ONLINE Six Day Faculty Development Training Programme

On

## CS8082 - Machine Learning Techniques

11<sup>th</sup> to 16<sup>th</sup> July 2022

## REGISTRATION FORM

### Coordinators

Dr. P. PABITHA

Dr. V. P. JAYACHITRA



### Sponsored by

Centre for Faculty Development

**ANNA UNIVERSITY**

CHENNAI-25

### Organized by

Department of Computer Technology,  
Madras Institute of Technology Campus,  
Anna University, Chromepet,  
Chennai-44.

PRINCIPAL

AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING



**Online-Six Day Faculty  
Development Training  
Programme  
on  
CS8082 - Machine Learning  
Techniques  
11<sup>th</sup> to 16<sup>th</sup> July 2022  
REGISTRATION FORM**

1. Name:  
(in capital)
  2. Designation:
  3. Qualification:
  4. Age & D.O.B/Gender:
  5. Professional experience (in years)  
Teaching:  
Industrial:
  6. College/Institution Name:
  7. Department:
  8. Address of college/institution:
  9. Research interest:
  10. Phone (Office):  
Mobile/ E.Mail :
  11. Declaration
- I hereby declare that all the details furnished by me are true to the best of my knowledge.
- Signature with Date:

**SPONSORSHIP**

Mr./Ms./Dr. \_\_\_\_\_ is an employee of our Institution/Organization since \_\_\_\_\_ and is hereby sponsored for the online Faculty Development Training Programme on Machine learning techniques (CS8082). He / She will be permitted to attend the entire duration of the programme, if selected.

Date : \_\_\_\_\_ Signature & Seal of the  
Place : \_\_\_\_\_ Sponsoring Authority

**The faculty members can register  
through online and submit your registration  
form on or before 05.07.2022**

**Link for Registration Form**

<https://forms.gle/HGETT3EactoiP6LGA>

**For further details, contact:**

The Co-ordinators,  
Online Six-Day Faculty Development Training  
Programme on CS8082 - Machine Learning  
Techniques,  
Department of Computer Technology,  
MIT Campus, Anna University,  
Chennai – 600 044.  
Phone: 044-2251 6232/6228  
Cell: 9442172562/7550260812  
E-mail: [fdtpmitct2022@gmail.com](mailto:fdtpmitct2022@gmail.com)

**ORGANIZING COMMITTEE**

**CHIEF PATRON** : Dr. R. Velraj  
Vice-Chancellor  
Anna University, Chennai

**PATRON** : Dr. G. Ravikumar  
Registrar i/c  
Anna University, Chennai

: Dr. J. Prakash  
Dean, MIT Campus  
Anna University, Chennai

**CHAIR** : Dr. P. Vanaja Ranjan  
Director, CFD

Dr. V. Adaikkalam  
Addl Director, CFD

**CO-CHAIR** : Dr. P. Jayashree  
HoD, Department of  
Computer Technology


**CO-ORDINATORS:** Dr. P. Pabitha,  
Dr. V. P. Jayachitra

**ORGANIZING DEPT:**

Department of Computer Technology,  
Anna University - MIT Campus, Chromepet,  
Chennai- 44

**IMPORTANT DATES:**

Submission of Application: **5<sup>th</sup> July 2022**  
Intimation of Selection: **7<sup>th</sup> July 2022**  
Confirmation by Participants: **8<sup>th</sup> July 2022**

  
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**COLLEGE OF ENGINEERING**



## Online-Six Day Faculty Development Training Programme on CS8082 - Machine Learning Techniques

Your registration request has been received. The maximum number of registrations has been reached. On July 7, 2022, we will announce the final selection list.

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Google Forms

A handwritten signature in green ink, appearing to be "M2".

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**AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**REPORT ON FDP**

Title of the FDP : **CS8082 - Machine Learning Techniques**  
Date : 11-07-2022 to 16-07-2022  
Conducted Mode : Online  
Organized By : Department of Computer Technology, Madras Institute of Technology  
Campus, Anna University, Chromepet.

The following topics will be covered in this online FDP

- Introduction to Machine Learning and its applications
- Neural Networks
- Genetic Algorithms
- Bayesian and Computational Learning
- EM Algorithm
- Instant Based Learning
- Advanced Learning – First order Rules
- Reinforcement Learning

The program aimed to bridge the gap between theoretical knowledge and practical implementation of machine learning techniques, allowing educators to incorporate these concepts effectively into their teaching and research.

By the end of the FDP, I gained the following outcomes:

- A solid understanding of **machine learning algorithms** and their mathematical foundations.
- Practical experience with **Python** libraries such as **Scikit-learn**, **NumPy**, and **Pandas** for data manipulation and model building.
- Hands-on exposure to **deep learning** frameworks like **TensorFlow** and **Keras** for designing and training neural networks.
- Enhanced ability to apply **ML techniques** to real-world problems, such as data classification, image processing, and time-series forecasting.
- Awareness of the latest **research trends** and ethical considerations in the field of machine learning.

The FDP on Machine Learning Techniques proved to be highly beneficial in updating the knowledge and skills in the field of machine learning.

Amarshree V  
19/7/22  
Signature of Faculty

Head/CSE

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# CERTIFICATE



## CENTRE FOR FACULTY DEVELOPMENT

ANNA UNIVERSITY :: CHENNAI - 600 025

.....Mr./Ms. V. Amar Shree, Assistant Professor.....

.....Aalim Muhammed Salegh College of Engineering, Avadi.....

took part in the six-day Faculty Development Training Programme on

.....CS 8082 - Machine Learning Techniques.....conducted in

ONLINE MODE by the Department of ....Computer Technology.....

at .....Madras Institute of Technology, Chennai.....

from .....11.07.2022..... to .....16.07.2022.....

  
COORDINATOR(S)

with Name

[Dr. P. Pabithra]

  
DIRECTOR

CENTRE FOR FACULTY DEVELOPMENT

  
PRINCIPAL  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING  
REGISTRAR  
ANNA UNIVERSITY



# CERTIFICATE



## CENTRE FOR FACULTY DEVELOPMENT

ANNA UNIVERSITY :: CHENNAI - 600 025

.....Ms. T. Shamba, Assistant Professor.....

.....Aalim Muhammed Salegh, College of Engineering, Avadi.....

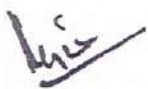
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ONLINE MODE by the Department of .....Computer Technology.....

at .....Madras Institute of Technology, Chennai.....

from .....11.07.2022..... to .....16.07.2022.....

  
COORDINATOR(S)  
with Name

[Dr. P. Pabitra]

  
DIRECTOR

CENTRE FOR FACULTY DEVELOPMENT

  
REGISTRAR

PRINCIPAL ANNA UNIVERSITY  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING



## Subject: Workshop on "Designing and Modelling of IoT, AI & ML Systems" from 1st August to 5th August, 2022.

From: All India Council for Technical Education(no-reply) <admin@aicte-india.org> on Sat, 23 Jul 2022 11:02:21

To: dhanya.p@aalimec.ac.in

Dear Sir/Madam,

Hope you are doing well!

All India Council for Technical Education (AICTE), Arm Education, STMicroelectronics, with support from Microsoft and NIELIT Calicut are conducting a workshop on "Designing and Modelling of IoT, AI & ML Systems" from 1<sup>st</sup> August to 5<sup>th</sup> August, 2022.

In this 5-day workshop, faculty members and nominated students learn about IoT and ML technologies, starting from the fundamentals up to the latest innovations including demonstrations of real-life use cases. After the workshop, faculty members and up to 4 nominated students, who have participated in this workshop, are eligible to enroll in the "The Inventors Challenge" as a team where they can submit ideas on creating the IoT products of the future. The short-listed teams will receive an STM32 board for creating the prototype.

If you are from the electronics, electrical, communication, instrumentation engineering, computer science or information technology community, don't miss out on this opportunity to elevate your skills to the next level. Faculty members can use the knowledge gained on IoT, AI and ML to build a curriculum and have a chance to collaborate with students on a real-life project. While students will be able to use this knowledge in their journey of innovation.

Please note, Faculty members and nominated students must attend all five days in order to receive a digital participation certificate.

For more information on the workshop - Agenda, Speakers, etc.,

<https://community.arm.com/designing-and-modelling-of-iot-ai-ml-systems>

If you have any further queries, please reach out to

Ms. Apurva Varma, Senior Regional Manager-Academic Engagements, Arm Education

E-mail : [apurva.varma@arm.com](mailto:apurva.varma@arm.com)

Ms. Suriya Gunasekaran

E-mail : [suriya.gunasekaran@arm.com](mailto:suriya.gunasekaran@arm.com)

**Regards,**

**Dr. Girdhari Lal Garg**

**Assistant Director**

**AICTE Training and Learning (ATAL) Academy**

**All India Council for Technical Education**

**Nelson Mandela Marg, Vasant Kunj,**

**New Delhi- 110070**

**Phone no. :011-29581120**

**सादर एवं आभार,**

**डॉ गिरधारी लाल गर्ग**

**सहायक निदेशक**

**अटल अकादमी**

**अखिल भारतीय तकनीकी शिक्षा परिषद**

**नेल्सन मंडेला मार्ग, वसंत कुंज**

**नई दिल्ली -११००७०**

**दूरभाष : ०११-२९५८११२०**



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**AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING,  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING.**



**REPORT ON FDP**

Title of the FDP : **Designing and Modelling of IoT, AI & ML Systems**  
Date : 01.08.2022 TO 05.08.2022  
Conducted Mode : Online  
Organized By : AICTE, ATAL Academy, Am Education and ST Microelectronics

This FDP aimed to enhance the participants' ability to teach these emerging technologies and help them integrate them into both research and academic curriculum.

The FDP covered a wide range of topics related to the design, modeling, and integration of IoT, AI, and ML systems.


- Introduction to IoT, AI & ML
- Designing IoT Systems
- Integration of AI & ML with IoT
- AI/ML Models and Algorithms for IoT Applications
- Applications of IoT, AI & ML Systems
- IoT Data Security and Privacy

By the end of the FDP, I gained the skills and knowledge in IoT, AI & ML designing. I can able to understand the IoT Architecture and How IoT systems are designed, how AI/ML models can be incorporated into these systems for enhanced functionality.

I have experienced practically in building IoT systems and integrating them with machine learning models.

I learnt real time applications that Insights into how IoT and AI/ML are transforming industries such as healthcare, smart cities, and manufacturing

  
8/8/22  
Signature

  
8/8/22  
Head CSE

  
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This is to certify that

**Dhanya.P**

from

**Anna University**

has participated in the workshop

### **Designing and Modelling of IoT, AI & ML Systems**

Organized by – All India Council for Technical Education (AICTE),  
ATAL Academy, Arm Education and STMicroelectronics  
from August 1<sup>st</sup> to 5<sup>th</sup> 2022

**Mamta Rani Agarwal**  
Advisor  
ATAL Academy

**Arnaud Julienne**  
Vice President,  
Microelectronics, Digital Business,  
IoT & Competence Center and Digital Marketing,  
Arm and ATAL STMicroelectronics

**Guru Ganesan**  
Managing Director and President  
Arm India

**Dr Khaled Benkrid**  
Senior Director,  
Education and Research  
ATAL

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**COLLEGE OF ENGINEERING**





## Fwd: Virtual Workshop on "Designing and Modelling of IoT, AI & ML Systems

1 message

Er. DHANYA P <dhanya.p@aalimec.ac.in>  
To: a.anwarbasha@aalimec.ac.in

Wed, Oct 30, 2024 at 9:07 AM

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

From: Arm Education <education@arm.com>

Date: Fri, 21 Oct, 2022, 3:46 pm

Subject: Virtual Workshop on "Designing and Modelling of IoT, AI & ML Systems

To: <eganesh90@gmail.com>

### VIRTUAL WORKSHOP Designing and Modelling of IoT, AI & ML Systems

Dear Participants,

Arm Education and STM, organizing team of the workshop Designing and Modelling of IoT, AI & ML Systems held from 1st August-5th August, 2022 would like to thank you for the participation.

It was an amazing 5day journey with all of you. Your interactive approach and constant feedback on the sessions kept us on our toes. We thoroughly enjoyed the workshop and hope the same with you too.

Please find the [presentation slides and recordings of the workshop](#).

The participation certificate is sent to all the participants who have attended four/ five days of the workshop.

As you begin the learning teaching process at your Institute, a few resources that we think would be useful is mentioned below.

Arm Education has developed the resources in a range of core subjects relevant to Electrical, Electronic and Computer Engineering, Computer Science and beyond. Please find the range of free-to-access teaching & learning resources which may be helpful to you.

#### Teaching Materials

- [For details](#)
- [To access](#)

#### Software (For faculty)

- [For Details](#)
- [To Apply](#)

#### Online Courses

  
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**JERUSALEM COLLEGE OF ENGINEERING**

(An Autonomous Institution)

Velachery main road, Narayanapuram, Pallikaranai, Chennai



**Department of Electrical and Electronics Engineering**

Organizes

**ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAM**

**ON**

**ELECTRIC VEHICLE DRIVE SYSTEM**

**27-02-2023 to 04-03-2023**

**Ms. S.Rudhra J. Arul Prakash**  
**CO-COORDINATOR, AP-EEE**

**Dr. S. Vinod**  
**CONVENOR, HOD-EEE**

  
**PRINCIPAL**  
**AALIM MUHAMMED SALEGH**  
**COLLEGE OF ENGINEERING**

**Dr. S.Ramesh**  
**PRINCIPAL**





**AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING**  
**DEPARTMENT OF**  
**ELECTRICAL AND ELECTRONICS ENGINEERING**



REPORT ON FDP

**Title of the FDP** : Electric Vehicle Drive System  
**Date** : 27.02.2023 - 04.03.2023  
**Conducted Mode** : Online Mode  
**Organized By** : Jerusalem College of Engineering, Chennai.

The FDP covered a wide range of topics related to electric vehicle drive systems, including:

**Introduction to Electric Vehicles**

Overview of electric vehicles, types of EVs (BEV, HEV, PHEV), and their advantages.

**Electric Drive System Components**

Electric Motors, Power Electronics, Battery Management Systems (BMS), Vehicle Energy Management Techniques to optimize energy consumption and battery life. Control of EV Drive Systems.

**Motor Control Techniques.**

**Simulation and Modeling:** Tools like MATLAB/Simulink for modeling and simulating EV drive systems.

**Electric Drive System Design Considerations**

**Advanced Topics in EV Technology**

Wireless Charging: New technologies for inductive charging of EVs.

Vehicle-to-Grid (V2G): Using EVs as energy storage systems in smart grid applications.

Autonomous Electric Vehicles: Integration of EV systems with autonomous driving technologies.

The FDP used a blend of theoretical learning and practical exposure by detailed theoretical sessions and Hands-on Training.

I am able to design and analyze electric drive systems for EV applications by **MATLAB/Simulink through the FDP.**

The exposure to state-of-the-art simulation tools and the latest developments in the EV industry made the FDP a valuable experience for all participants.

  
Prepared By 4/3/23

  
Head/KEE 4/3/2023

  
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Velachery main road, Narayanapuram, Pallikaranai, Chennai



**DEPARTMENT OF ELECTRICAL AND  
ELECTRONICS ENGINEERING**

**CERTIFICATE OF PARTICIPATION**

*This Certificate is Presented to*

**J.Mohammed Illiyas**

Faculty

**Aalim Muhammed salegh college of Engineering**

for having participated in **ONE WEEK ONLINE  
FACULTY DEVELOPMENT PROGRAM**

*on*

**ELECTRIC VEHICLE DRIVE SYSTEM**

Organized by

Department of Electrical and Electronics  
Engineering, JCE from 27<sup>th</sup> Feb to 04<sup>th</sup> Mar 2023

**Ms. S.Rudhra**  
CO-COORDINATOR, AP-EEE

**J. Arul Prakash**  
COORDINATOR, AP-EEE

**Dr. S. Vinod**  
CONVENOR, HOD-EEE

**PRINCIPAL**  
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**COLLEGE OF ENGINEERING**

**Dr. Ramesh S**  
PRINCIPAL





# JERUSALEM COLLEGE OF ENGINEERING

(An Autonomous Institution)

Velachery main road, Narayanapuram, Pallikaranai, Chennai



## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### CERTIFICATE OF PARTICIPATION

*This Certificate is Presented to*

**A.ANWAR BASHA**

Faculty

Aalim Muhammed salegh college of Engineering

for having participated in **ONE WEEK ONLINE  
FACULTY DEVELOPMENT PROGRAM**

*on*

### ELECTRIC VEHICLE DRIVE SYSTEM

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**Dr. Ramesh S**  
PRINCIPAL





**JERUSALEM COLLEGE OF ENGINEERING**

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Velachery main road, Narayanapuram, Pallikaranai, Chennai



**DEPARTMENT OF ELECTRICAL AND  
ELECTRONICS ENGINEERING**

**CERTIFICATE OF PARTICIPATION**

*This Certificate is Presented to*

**M.S.RAJAN**

Faculty

Aalim Muhammed salegh college of Engineering

for having participated in **ONE WEEK ONLINE  
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*on*

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**J. Arul Prakash**

COORDINATOR, AP-EEE

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COLLEGE OF ENGINEERING





**JERUSALEM COLLEGE OF ENGINEERING**

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Velachery main road, Narayanapuram, Pallikaranai, Chennai



**DEPARTMENT OF ELECTRICAL AND  
ELECTRONICS ENGINEERING**

**CERTIFICATE OF PARTICIPATION**

*This Certificate is Presented to*

**Dr.A.Mohanasundaram**

Faculty

**Aalim Muhammed salegh college of Engineering**

for having participated in **ONE WEEK ONLINE  
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# JERUSALEM COLLEGE OF ENGINEERING

(An Autonomous Institution)

Velachery main road, Narayanapuram, Pallikaranai, Chennai



## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### CERTIFICATE OF PARTICIPATION

*This Certificate is Presented to*

**S.Rajesh Kanna**

Faculty

Aalim Muhammed salegh college of Engineering

for having participated in **ONE WEEK ONLINE  
FACULTY DEVELOPMENT PROGRAM**

*on*

### ELECTRIC VEHICLE DRIVE SYSTEM

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Velachery main road, Narayanapuram, Pallikaranai, Chennai



**DEPARTMENT OF ELECTRICAL AND  
ELECTRONICS ENGINEERING**

**CERTIFICATE OF PARTICIPATION**

*This Certificate is Presented to*

**S.F.Syed Vasiyullah**

Faculty

Aalim Muhammed salegh college of Engineering

for having participated in **ONE WEEK ONLINE  
FACULTY DEVELOPMENT PROGRAM**

on

**ELECTRIC VEHICLE DRIVE SYSTEM**

Organized by

Department of Electrical and Electronics  
Engineering, JCE from 27<sup>th</sup> Feb to 04<sup>th</sup> Mar 2023

**Ms. S. Rudhra**  
CO-COORDINATOR, AP-EEE

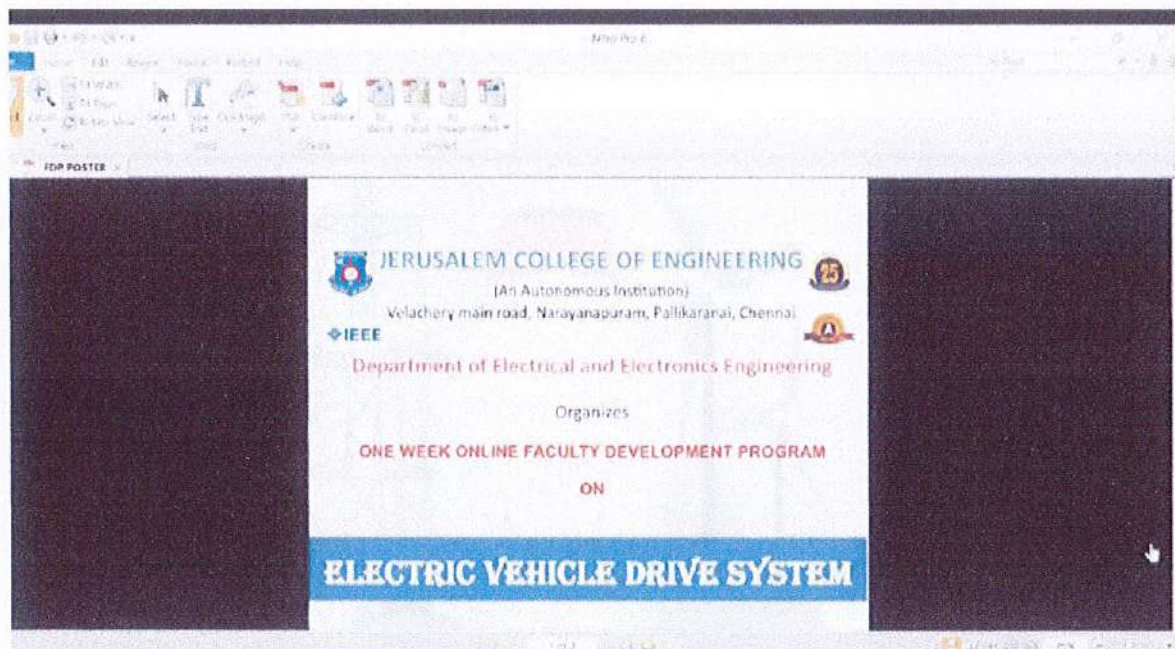
**J. Arul Prakash**  
COORDINATOR, AP-EEE

**Dr. S. Vinod**  
CONVENOR, HOD-EEE

**PRINCIPAL**  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING

**Dr. Ramesh S**  
PRINCIPAL

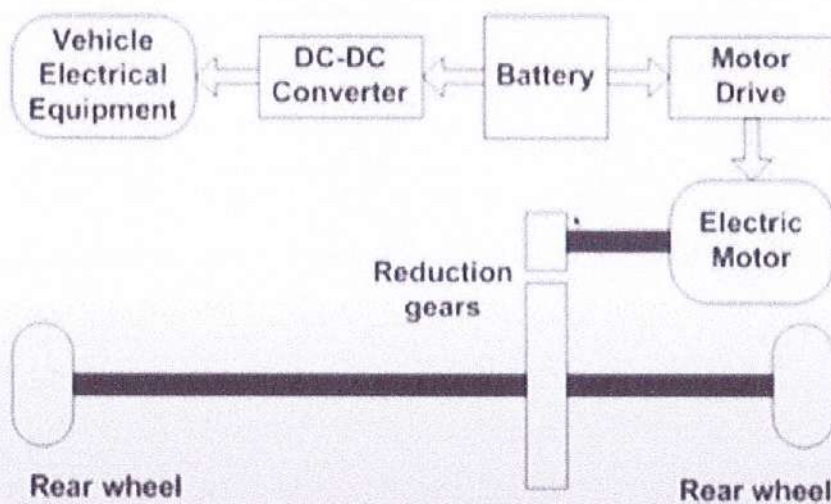




  
PRINCIPAL  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING



## Basic Architecture of EV



Ganesh Nagarajan

  
PRINCIPAL  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING



VISHWAKARMA INSTITUTE  
OF TECHNOLOGY, PUNE



## Faculty Development Program

Sponsored by AICTE Training and Learning (ATAL) Academy on

# QUANTUM COMPUTING FOR REAL WORLD APPLICATIONS

Organized by  
Department of Information Technology

Inauguration Programme



**17<sup>th</sup> January 2022**

**9:20 am - 10.00 am**



### CHIEF GUEST



**Prof. (Dr.) San Murugesan**  
Director, BRITE



**Prof. (Dr.) Deepak Garg**  
Dean, International and Corporate Affairs,  
Bennett University

### CHIEF PATRONS



**Shri Bharat Agarwal**  
Managing Trustee,  
BRAC, Pune



**Prof. (Dr.) Rajesh Jalnekar**  
Director, VIT, Pune

**PRINCIPAL**  
**AALIM MUHAMMED SALEGH**  
COLLEGE OF ENGINEERING

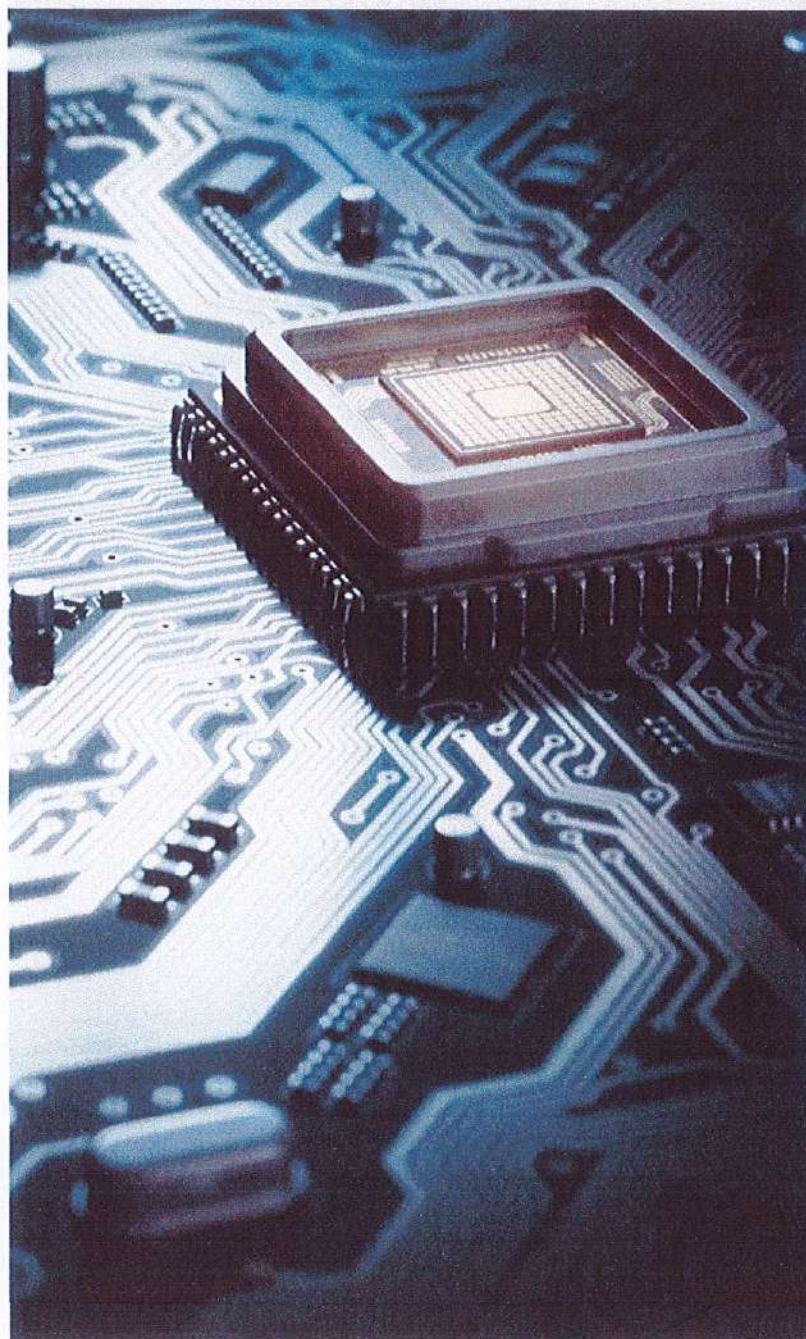




Bansilal Ramnath Agarwal Charitable Trust's

**VISHWAKARMA INSTITUTE OF TECHNOLOGY**

(An Autonomous Institute Affiliated to Savitribai Phule Pune University)



## Faculty Development Program

Sponsored by AICTE Training and Learning (ATAL) Academy on

### **QUANTUM COMPUTING FOR REAL WORLD APPLICATIONS**

Organized by

**Department of Information Technology**

**17<sup>th</sup> Jan to 21<sup>st</sup> January 2022**

The Faculty members of AICTE approved institutions, PG & Research Scholars from Government, Industry can participate in this FDP

16/2  
PRINCIPAL  
AALIM MUHAMMED SALEH  
COLLEGE OF ENGINEERING & TECHNOLOGY



## OBJECTIVES OF THE FDP

To give the participants a deeper insight into Blockchain and its potentially enormous real-world applications in the country and the world.

To explore the recent trends in Health-care, Finance, Marketing, Logistics, and Meteorology etc.

## ABOUT THE WORKSHOP

Quantum Computing is one of the top five emerging technologies at the moment.

Quantum computing takes advantage of the strange ability of subatomic particles to exist in more than one state at any time.

Due to the way the tiniest of particles behave, operations can be done much more quickly and use less energy than classical computers.

In classical computing, a bit is a single piece of information that can exist in two states - 1 or 0.

Quantum computing uses quantum bits, or 'qubits' instead. These are quantum systems with two states. However, unlike a usual bit, they can store much more information than just 1 or 0, because they can exist in any superposition of these values.

## COURSE CONTENT

- Introduction to quantum computing, and its applications
- Towards Quantum Technologies & Research areas in Quantum Computing
- Basics of Quantum Hardware
- Generation of two- and three-qubit entangled states and the role of detectors
- Machine learning Techniques for Quantum Computing - Case studies
- A Quantum-Classical Hybrid Pipeline for Image Classification and Segmentation
- Quantum Optimization and ML through variational algorithms
- Quantum Cryptology
- Emotional Growth and Meditation
- Quantum Computing in Finance
- Quantum Error Correction
- Quantum Teleportation and Dense Coding

  
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AAJUM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING





## DAY 1

- Inauguration
- Introduction to quantum computing, and its applications
- Towards Quantum Technologies & Research areas in Quantum Computing
- Basics of Quantum Hardware

## DAY 2

- Generation of two- and three-qubit entangled states and the role of detectors
- A Quantum-Classical Hybrid Pipeline for Image Classification and Segmentation
- Machine learning Techniques for Quantum Computing - Case studies

## DAY 3

- Quantum Optimization and ML through variational algorithms
- Quantum Cryptology
- Emotional Growth and Meditation

## DAY 4

- Quantum Computing in Finance
- Quantum Error Correction
- Open Quantum Systems and Impact on Quantum Computation

## DAY 5

- Quantum annealing
- Quantum Teleportation and Dense Coding
- Valedictory, exam and feedback

No of Participants: Admission will be on a First Come First Serve basis (Limited Seats)

No Registration Fees. Exams will be conducted at the end for certification

## CHIEF PATRONS

**Shri Rajkumarji Agarwal**  
Chairman, BRAC,

**Pune Shri Bajrangdas Lohiya**  
Vice Chairman, VI, Pune

**Shri Bharat Agarwal**  
Managing Trustee, BRAC, Pune

**Prof. (Dr.) Rajesh Jalnekar**  
Director, VIT, Pune

## FDP COORDINATOR

**Prof. (Dr.) Premanand P. Ghadekar**  
Professor & Head IT

## FDP CO-COORDINATOR

**Ranjana Jadhav**  
ranjana.jadhav@vit.edu  
7020829863

**Vinay Thamke**  
vinay.thamke@vit.edu  
9604871195

## VENUE

Zoom/MS-Teams platform

## WEBSITE

[www.vit.edu](http://www.vit.edu)

PRINCIPAL  
AALIM MUHAMMED SALEEM  
COLLEGE OF ENGINEERING





**AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**REPORT ON FDP**

Title of the FDP : QUANTUM COMPUTING FOR REAL WORLD APPLICATIONS  
Date : 17.01.2022 to 21.01.2022  
Conduced Mode : Online  
Organized By : AICTE ATAL FD P, Vishwakarma Institute Of Technology, Pune.

The main objectives of this FDP are to give the participants a deeper insight into Blockchain and its potentially enormous real-world applications in the country and the world and to explore the recent trends in Healthcare, Finance, Marketing, Logistics, and Meteorology etc.

In classical computing, a bit is a single piece of information that can exist in two states – 1 or 0. Quantum computing uses quantum bits, or 'qubits' instead. These are quantum systems with two states. However, unlike a usual bit, they can store much more information than just 1 or 0, because they can exist in any superposition of these values.

In day 1, The FDP covered Introduction to quantum computing and its applications, Towards Quantum Technologies & Research areas in Quantum Computing and Basics of Quantum Hardware

In day 2, I have learnt Machine learning Techniques for Quantum Computing, Generation of two- and three-qubit entangled states and the role of detectors.

On the day 3, Quantum Optimization and ML through variational algorithms, Quantum Cryptology, Emotional Growth and Meditation were delivered by domain experts.

Open Quantum Systems and Impact on Quantum Computation were covered on day 4.

Practical sessions using Qiskit, Cirq, and other quantum programming platforms to implement quantum algorithms were learnt on the day of 5.

The FDP on Quantum Computing for Real-World Applications was a successful initiative that provided faculty members and researchers with the necessary tools and knowledge to understand and explore quantum computing technologies.

Amarshree. ✓  
25/1/22  
Signature

Woz

gheey  
25/01/22  
Head/CSE

**PRINCIPAL  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING**





## ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

### AICTE Training and Learning (ATAL) Academy

## *Certificate*

This is certified that AMARSHREE V, Assistant Professor of AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Quantum Computing for Real World Applications" from 17/01/2022 to 21/01/2022 at Vishwakarma Institute of Technology Pune.

Advisor-I, ATAL Academy  
Mamta Rani Agarwal



PRINCIPAL  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING

Coordinator



Inaugural function and detailed schedule with Meeting Link-AICTE Atal sponsored FDP on "Quantum Computing for Real-World Applications" 

VINAY THAMKE <vinay.thamke@vit.ac.in>  
to Rajana, Information, bcc: me

Sun, Jan 16, 2022, 11:51 AM

Respected Sir/Madam,

The inaugural ceremony of **AICTE Atal sponsored FDP on "Quantum Computing for Real-World Applications"** is scheduled on 17th Jan 2022. We are really looking for your gracious presence to add vibrancy to the entire Event. **Inaugural Function is in online mode.**

**FDP Proceedings will start immediately after the Inauguration Ceremony. Please join on time for the same.**

**Minimum of 80% Attendance and qualifying exam with minimum 70% score is mandatory to get ATAL FDP certificate.**

**All the attendance and Feedbacks will only be provided in the zoom meeting(Not on whatsapp). Please make a note of it.**

Detailed Schedule is attached herewith

It's a kind request if you have not joined FDP whatsapp group please do join using the following link. Further notifications will be provided in whatsapp group

<https://chat.whatsapp.com/JUck2uUB0mGKwWWSctcFwI>

Date-17th Jan 2022, Timing -09.10 am to 10.00 am.

Topic: **FDP on Quantum Computing for Real World Applications**



PRINCIPAL  
AALIM MUHAMMED SALEEM  
COLLEGE OF ENGINEERING



**Five Days Online Faculty Development Programme on  
Machine Learning for Signal Processing – A Practical Approach**

21-02-2022 to 25-02-2022

**REGISTRATION FORM**

**Name** : A MOHAMED MYDEEN

**Designation** : Assistant Professor

**Department** : Electronics and Communication Engineering

**Qualification** : Master of Engineering

**Experience** : 18 Years and 5 Months

**Institution** : Aalim Muhammed Salegh College of Engineering

**Address for Communication** : Muthapudupet, Avadi IAF, Chennai – 600055, Tamilnadu, India

**E-mail ID** : [a.mohamedmydeen@aalimec.ac.in](mailto:a.mohamedmydeen@aalimec.ac.in)

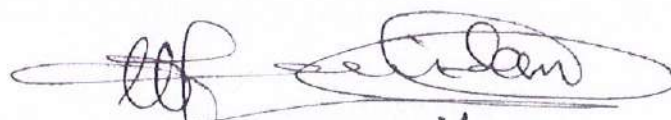
**Mobile No.** : 9884101997

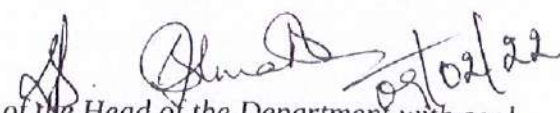
**DECLARATION**

The information furnished above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the FDP. If selected, I shall attend the course for the entire duration.

Place: AMSCE, CHENNAI - 600055

Date : 09.02.2022

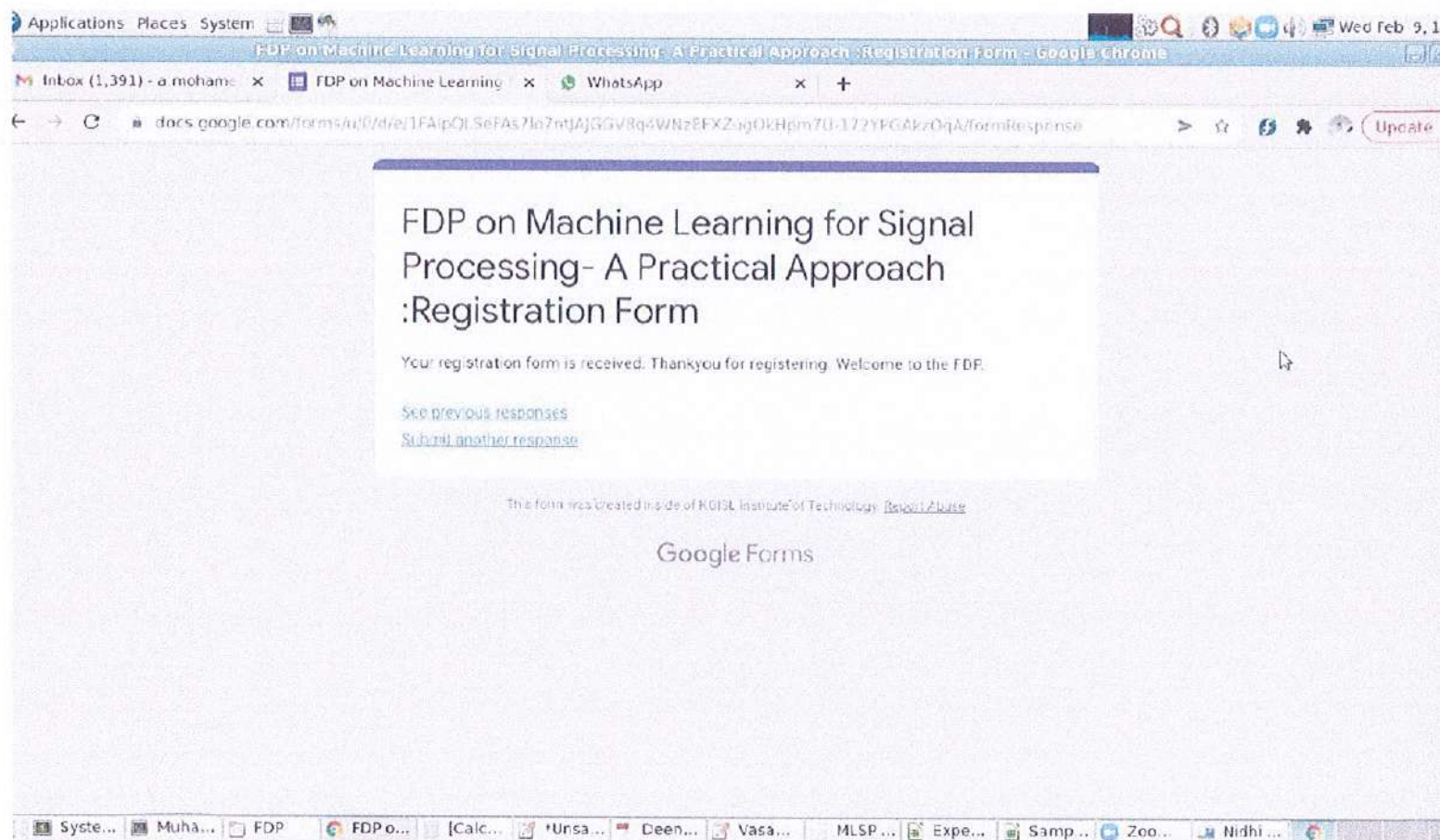
  
Signature of the Applicant

  
Signature of the Head of the Department with seal

  
**PRINCIPAL**  
**AALIM MUHAMMED SALEGH**  
**COLLEGE OF ENGINEERING**

**Dr. A. S. SALMA BANU, B.E., M.E., Ph.D.,**  
Associate Professor & Head of the Department  
Department of Electronics and Communication Engineering  
Aalim Muhammed Salegh College of Engineering  
Muthapudupet Avadi - IAF Chennai - 600055





  
**PRINCIPAL**  
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**COLLEGE OF ENGINEERING**





**AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING**  
**DEPARTMENT OF**  
**ELECTRONICS AND COMMUNICATION ENGINEERING**



**FDP REPORT**

Title of the FDP : **Machine Learning for Signal Processing - A Practical Approach**  
Date : 21.02.2022 - 25.02.2022  
Conduced Mode : Online  
Organized By : KGiSL Institute of Technology, Coimbatore.

**1. Introduction**

The Faculty Development Program (FDP) on Machine Learning for Signal Processing - A Practical Approach was organized to introduce faculty members to the integration of machine learning (ML) techniques with signal processing. This FDP aimed to bridge the gap between classical signal processing methods and modern machine learning approaches, enabling faculty to explore new techniques and enhance their research and teaching in signal processing.

**2. Objectives of the FDP**

The key objectives of this FDP were:

- To introduce participants to the fundamentals of machine learning and how these techniques can be applied to signal processing problems.
- To demonstrate the use of ML algorithms for tasks such as noise reduction, feature extraction, classification, and anomaly detection in signal data.
- To provide hands-on experience with popular ML tools and libraries (e.g., Python, TensorFlow, Keras) in the context of signal processing applications.
- To explore practical case studies where machine learning has significantly enhanced signal processing techniques.

**3. Key Topics Covered**

The FDP covered a range of topics that combined both machine learning concepts and signal processing applications. Key topics included:

**Introduction to Signal Processing**

Overview of basic signal processing concepts: filtering, Fourier transform, time-frequency analysis, and feature extraction.

Classical methods for signal processing: FFT, wavelet transform, and Kalman filtering.

**Introduction to Machine Learning**

Fundamentals of machine learning: supervised vs unsupervised learning, training, validation, and testing of models.

Popular algorithms: linear regression, decision trees, support vector machines (SVM), k-nearest neighbors (KNN), and neural networks.

Feature selection and dimensionality reduction techniques (PCA, t-SNE).

**Machine Learning for Signal Classification**

Applying ML techniques to classify different types of signals (e.g., speech, ECG, radar signals).

Signal features extraction: Using ML to extract meaningful features for classification tasks.

**Case studies:** Speech recognition, bio-signal classification, and image recognition using ML techniques.

  
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**COLLEGE OF ENGINEERING**



### **Anomaly Detection in Signals Using ML**

Introduction to anomaly detection and outlier detection in signal data.

Supervised and unsupervised anomaly detection algorithms: clustering, autoencoders, isolation forests.

Practical applications in detecting faults in machinery (predictive maintenance), security (intrusion detection), and health monitoring.

### **Signal Denoising with Machine Learning**

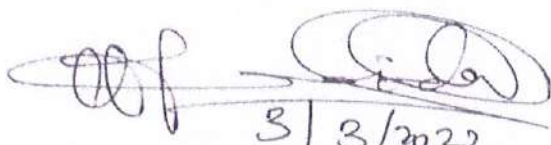
Noise reduction techniques using machine learning algorithms.

Deep learning models, particularly autoencoders and convolutional neural networks (CNNs), for denoising signals.

**Case studies:** Audio signal enhancement, ECG signal denoising.

Hands-on tutorials on Python for signal processing, including libraries like NumPy, SciPy, TensorFlow, and scikit-learn.

**Practical applications:** Feature extraction from audio signals, classification of EEG signals, and using ML for speech and image data.

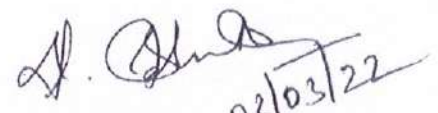
  
3/3/2022  
Signature of Faculty

A. MOHAMED MYDEEN  
ASSISTANT PROFESSOR

DEPT OF ECE

AMSCB

  
PRINCIPAL  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING

  
03/03/22  
Head/ECE

Dr. A. S. SALMA BANU, B.E., M.E., Ph.D.,  
Associate Professor & Head of the Department  
Department of Electronics and Communication Engineering  
Aalim Muhammed Salegh College of Engineering  
Muthapudupet Avadi - IAF Chennai - 600055





# KGiSL INSTITUTE OF TECHNOLOGY

(Affiliated to ANNA University, Chennai and Approved by AICTE, New Delhi)  
365, KGiSL Campus, Thudiyalur Road, Saravanampatti, Coimbatore – 641035



Department of Electronics & Communication Engineering



## Certificate of Participation

This is to certify that

**Mr. A. Mohamed Mydeen**

Assistant Professor  
Aalim Muhammed Salegh College of Engineering  
Avadi, Chennai



has participated in Five Days Online Faculty Development Programme on “MACHINE LEARNING FOR SIGNAL PROCESSING – A PRACTICAL APPROACH” organized by the Department of Electronics and Communication Engineering, KGiSL Institute of Technology, Coimbatore from 21-02-2022 to 25-02-2022.

KITE ECE FDP MSLP # 12

Dr. S.K. Mydhili  
Coordinator

Dr. C. Venkatesh  
HoD

Dr. S. Suresh Kumar  
Vice-Principal

Dr. M. Selvam  
Principal

PRINCIPAL  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING



Applications Places System


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Dr. Mydhill Srimathi Kamalnathan is presenting

Online Faculty Development Programme  
on  
"Machine Learning for Signal Processing: A Practical Approach"  
(21-25 February, 2022)

 Programme Coordinators: Prof. S K Mydhill and Prof. V Rajeshwari  
Department of Electronics & Communication Engineering  
KGST Institute of Technology, Coimbatore, India

**"Key Insight into Signal Processing and Machine Learning"**

Speaker: Dr. Madhusudhan Mishra, Assistant Professor  
Department of Electronics & Communication Engineering  
North Eastern Regional Institute of Science & Technology (NERIST), Arunachal Pradesh  
Deemed-to-be University, under the Ministry of Education, Government of India

People

Search for people

Trained hand

G GHANASOUNDHARAM J

In call

A. Mohamed Mydeen (You)

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PRINCIPAL  
AALIM MUHAMMED SALEH  
COLLEGE OF ENGINEERING



Online Faculty Development Programme

on

"Machine Learning for Signal Processing: A Practical Approach"  
(21-25 February, 2022)



KGIST Institute of Technology

Programme Coordinators: Prof. S K Mydhili and Prof. V Rajeshwari  
Department of Electronics & Communication Engineering  
KGIST Institute of Technology, Coimbatore, India

"Key Insight into Signal Processing and Machine Learning"

Speaker: Dr. Madhusudhan Mishra, Assistant Professor  
Department of Electronics & Communication Engineering  
North Eastern Regional Institute of Science & Technology (NERIST), Arunachal Pradesh  
Deemed-to-be-University, under the Ministry of Education, Government of India



Search for people

1 raised hand

G GNANASOUNDHARAM J

In call

A. Mohamed Mydeen (You)

A Alaimahal Athimoolam

a amutha phd

Anitha Mary

PRINCIPAL  
AALIM MUHAMMED SA  
COLLEGE OF ENGINEERING



CS8691

ARTIFICIAL INTELLIGENCE

Registration Form

Name : S. ALAGESAN  
Designation : Assistant Professor  
Department : Information Technology  
College Name with : Aalim Muhammed  
Full Address : Salegh College of Engg  
Mathapadupet,  
Avadi - IAF  
City & Pin : Chennai - 55  
E-mail : S.alagesan@aalmec.ac.in  
Contact No : 9841712894


DECLARATION

I, S. ALAGESAN.....  
Agree to abide by the rules and regulation governing the training programme, the information provided herewith is true for the best of my knowledge.

  
Signature of the Participant

Place : Chennai  
Date : 28/12/21

Forwarded/Recommended

  
Signature with Seal of the Institution  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING

Course Fee Details:

Participation fee shall not be collected

Guidelines

- Students, Research Scholars and Faculty from affiliated engineering colleges of Anna University are eligible.
- Session time will be 9.00 AM to 4.45 PM
- Total number of participants is strictly 50-60(Including 10% Internal Participants).
- Eligible Participants will be selected based on first come first serve basis.

Resource Persons

All sessions preferably are conducted with the support of external faculty members from IIT / Central / State-funded institutions / eminent persons from established institutions or people from the industry.

For Enquiry please contact:

The Coordinator  
Department of Computer Science and Engineering  
UCE, BIT Campus, Anna University  
Tiruchirappalli - 620 024

E-Mail Id : aifdtp2021@gmail.com  
Mobile No : 8754590412, 9443635676



  
PRINCIPAL  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING

Online - Six Day FDTP ON

CS8691-Artificial Intelligence

17<sup>th</sup> - 22<sup>nd</sup> Jan, 2022

REGISTRATION FORM

Co-ordinator:

Dr.K.LATHA



Sponsored by

Centre for Faculty Development  
Anna University  
Chennai - 25

Organized by

University College of Engineering,  
BIT Campus, Anna University  
Tiruchirappalli



CS8691

# ARTIFICIAL INTELLIGENCE

## Registration Form

Name : K. BACKIAVATHI  
Designation : Assistant Professor  
Department : Information Technology  
College Name : Aalim Muhammed Salegh College of Engg  
Full Address : Muthapudupet  
Avadi - IAF  
City & Pin : Chennai - 55  
E-mail : BACKIAK@gmail.com  
Contact No : 9841712884

## DECLARATION

I, K. BACKIAVATHI  
Agree to abide by the rules and regulation governing the training programme, the information provided herewith is true for the best of my knowledge.

*K. Backiaivathi*  
Signature of the Participant

Place : Muthapudupet, Chennai  
Date : 28/12/21

Forwarded/Recommended

*Aalim Muhammed Salegh*  
Signature with Seal of the Head institution  
PRINCIPAL  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING

## Course Fee Details:

Participation fee shall not be collected

## Guidelines

- Students, Research Scholars and Faculty from affiliated engineering colleges of Anna University are eligible.
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- Total number of participants is strictly 50-60(Including 10% Internal Participants).
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## For Enquiry please contact:

The Coordinator  
Department of Computer Science and Engineering  
UCE, BIT Campus, Anna University  
Tiruchirappalli - 620 024

E-Mail Id : aifdtp2021@gmail.com  
Mobile No : 8754590412, 9443635676



*W2*  
PRINCIPAL  
AALIM MUHAMMED  
COLLEGE OF ENG

Online - Six Day FDTP ON

CS8691-Artificial Intelligence

17<sup>th</sup> - 22<sup>nd</sup> Jan. 2022

## REGISTRATION FORM

Co-ordinator:

Dr.K.LATHA



Sponsored by

Centre for Faculty Development  
Anna University  
Chennai - 25

Organized by

University College of Engineering,  
BIT Campus, Anna University  
Tiruchirappalli



**ONLINE - SIX DAY FDTP-WINTER 2021-22**

**CS8691**

**ARTIFICIAL INTELLIGENCE**

**Registration Form**

Name : **M. AMANULLAH**  
Designation : **ASSISTANT PROFESSOR**  
Department : **IT**  
College Name with : **Aalim Muhammed**  
Full Address : **Saleh College of Engineering, Muthapudupet, Avadi - IAF, 14-55.**  
City & Pin : **Chennai - 600055**  
E-mail : **amanullah.m@aalim.ac.in**  
Contact No : **9841587445**

**DECLARATION**

I, **M. AMANULLAH**,  
Agree to abide by the rules and regulation governing the training programme, the information provided herewith is true for the best of my knowledge.

**M. Amanullah**  
Signature of the Participant

Place : **CHENNAI**  
Date : **28/12/2021**

**Forwarded/Recommended**

**Aalim Muhammed Salegh**  
Signature with Seal of the Head institution

**AALIM MUHAMMED SALEGH**  
COLLEGE OF ENGINEERING  
AVADI - IAF, MUTHAPUDUPET  
CHENNAI 600 055

**Course Fee Details:**

Participation fee shall not be collected

**Guidelines**

- Students, Research Scholars and Faculty from affiliated engineering colleges of Anna University are eligible.
- Session time will be 9.00 AM to 4.45 PM
- Total number of participants is strictly 50-60 (including 10% Internal Participants).
- Eligible Participants will be selected based on first come first serve basis.

**Resource Persons**

All sessions preferably are conducted with the support of external faculty members from IIT / Central / State-funded institutions / eminent persons from established institutions or people from the industry.

**For Enquiry please contact:**

The Coordinator  
Department of Computer Science and Engineering  
UCE, BIT Campus, Anna University  
Tiruchirappalli - 620 024

E-Mail Id : **aifdtp2021@gmail.com**  
Mobile No : **8754590412, 9443635676**

Online - Six Day FDTP ON

**CS8691-Artificial Intelligence**

**17<sup>th</sup> - 22<sup>nd</sup> Jan, 2022**

**REGISTRATION FORM**

**Co-ordinator:**

**Dr.K.LATHA**



Sponsored by

**Centre for Faculty Development**  
**Anna University**  
**Chennai - 25**

Organized by

**University College of Engineering,**  
**BIT Campus, Anna University**  
**Tiruchirappalli**

**PRINCIPAL**  
**AALIM MUHAMMED SALEGH**  
**COLLEGE OF ENGINEERING**



ONLINE - SIX DAY FDTP - WINTER 2021-22

CS8691

**ARTIFICIAL INTELLIGENCE**

Registration Form

Name : H. Ayisha Ashifa  
Designation : Assistant Professor  
Department : Information Technology  
College Name with : Aalim Muhammed  
Full Address : Salegh College of  
Engineering,  
Muthaigudimpet  
City & Pin : IAF Avadi - 600 055.  
E-mail : h.ayishaashifa@aalim.ac.in  
Contact No : 91765 63315

**DECLARATION**

I, H. Ayisha Ashifa.....  
Agree to abide by the rules and regulation  
governing the training programme, the  
information provided herewith is true for  
the best of my knowledge.

Signature of the Participant

Place : Chennai  
Date : 28/12/21

**Forwarded/Recommended**

Signature with Seal of the Head institution

**PRINCIPAL**

**AALIM MUHAMMED SALEGH**  
**COLLEGE OF ENGINEERING**  
**AVADI**

Course Fee Details:

Participation fee shall not be collected

Guidelines

- Students, Research Scholars and Faculty from affiliated engineering colleges of Anna University are eligible
- Session time will be 9.00 AM to 4.45 PM
- Total number of participants is strictly 50-60 (including 10% Internal Participants).
- Eligible Participants will be selected based on first come first serve basis.

Resource Persons

All sessions preferably are conducted with the support of external faculty members from IIT / Central / State-funded institutions / eminent persons from established institutions or people from the industry.

For Enquiry please contact:

The Coordinator  
Department of Computer Science and Engineering  
UCE, BIT Campus, Anna University  
Tiruchirappalli - 620 024

E-Mail Id : aifdtp2021@gmail.com  
Mobile No : 8754590412, 9443635676



Online - Six Day FDTP ON

CS8691-Artificial Intelligence

17<sup>th</sup> - 22<sup>nd</sup> Jan, 2022

**REGISTRATION FORM**

Co-ordinator:

Dr.K.LATHA



Sponsored by

**Centre for Faculty Development**  
**Anna University**  
**Chennai - 25**

Organized by

**University College of Engineering,**  
**BIT Campus, Anna University**  
**Tiruchirappalli**

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**AALIM MUHAMMED SALEGH**  
**COLLEGE OF ENGINEERING**





**AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING  
DEPARTMENT OF INFORMATION TECHNOLOGY**



**REPORT ON FDP**

**Title of the FDP** : Cs8691-Artificial Intelligence  
**Date** : 17.01.2022 - 22.01.2022  
**Conducted Mode** : Online  
**Organized By** : University College of Engineering BIT Campus, Anna University  
Tiruchirappalli and Syed Ammal Engineering college, Ramanathapuram.

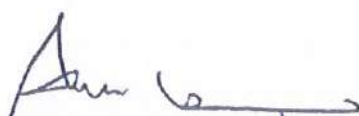
The main objectives of this FDP were:

- To introduce participants to the fundamental concepts and algorithms in **Artificial Intelligence (AI)**.
- To provide insights into AI methodologies, including **Machine Learning (ML)**, **Natural Language Processing (NLP)**, and **Computer Vision**.
- To explore the latest trends in AI research and its applications in various industries.
- To provide hands-on experience with AI tools and frameworks such as **TensorFlow**, **scikit-learn**, and **Keras**.
- To enable faculty members to integrate AI techniques into their courses and research work.

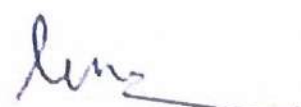
This FDP Covered a brief introduction on AI & ML, Natural Language Processing (NLP), Basics of image processing and computer vision and AI in Real-World Applications

This FDP employed a combination of lectures, hands-on activities, and interactive discussions to apply AI techniques and algorithms using Python libraries such as **TensorFlow**, **Keras**, and **scikit-learn**.

We implemented AI models for classification, regression, and image processing tasks. Industry experts shared real-world applications and challenges of AI in fields such as healthcare, finance, and robotics.

  
Prepared By 25/01/22

  
**PRINCIPAL**  
**AALIM MUHAMMED SALEGH**  
**COLLEGE OF ENGINEERING**

  
HOD/IT 25/01/22



# CERTIFICATE



## CENTRE FOR FACULTY DEVELOPMENT

ANNA UNIVERSITY :: CHENNAI - 600 025

Mr. S. ALAGESAN

Alim Muhammed Salegh College of Engineering

took part in the six-day Faculty Development Training Programme on

C.S. 8691 - Artificial Intelligence conducted in

ONLINE MODE by the Department of Computer Science & Engineering

at Syed Ammal Engineering College, Ramanathapuram

from 17.01.2022 to 22.01.2022

N. K. K.  
COORDINATOR(S)

with Name

DIRECTOR

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ANNA UNIVERSITY :: CHENNAI - 600 025

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at Syed Ammal Engineering College, Ramanathapuram

from 17.01.2022 to 22.01.2022

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Dr. N. Venkatesh

Dr. M. Amanullah  
DIRECTOR

CENTRE FOR FACULTY DEVELOPMENT

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COLLEGE OF ENGINEERING  
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