

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY  
THODUPUZHA**



**CERTIFICATE**

This is to certify that the report entitled 'Exam Cell Automation:Examination' submitted by **Ms.Sithara Parvin , Ms.Muhsina Pareeth & Ms.Alfiya Ali** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by her under my guidance and supervision.

**Ms.ANJU PATHROSE**

Project Guide

Dept. of Computer Science and Engineering

**Ms.KALA O.S**

Project Coordinator

Dept. of Computer Science and  
Engineering

**Ms.KALA O.S**

Head of the Department

Dept. of Computer Science and  
Engineering

**PRINCIPAL**

**Al-Azhar College of Engineering & Technology**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY  
THODUPUZHA




CERTIFICATE

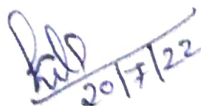
This is to certify that the report entitled 'Exam Cell Automation:Registration' submitted by **Ms.Alina Thomas , Ms.Busthana Sherin Ashraf & Mr.Sayyid Fayadh** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by her under my guidance and supervision.

**Mr.BOBY JOSE**

Project Guide

  
20/07/2022

Dept. of Computer Science and Engineering

  
20/7/22

**Ms.KALA O.S**

Project Coordinator

Dept. of Computer Science and  
Engineering



PRINCIPAL

Al-Azhar College of Engineering & Technology

  
20/7/22

**Ms.KALA O.S**

Head of the Department

Dept. of Computer Science and  
Engineering

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY  
THODUPUZHA**



**CERTIFICATE**

This is to certify that the report entitled 'Exam Cell Automation:Evaluation' submitted by **Ms.Athira Unnikrishnan , Ms.Shifa Ahammed & Mr.Karan Krishna Dinesh** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by her under my guidance and supervision.

*Banu*  
*20/7/22*

**Ms.BANU SUMAYYA**

Project Guide

Dept. of Computer Science and Engineering

*Kala*  
*20/7/22*

**Ms.KALA O.S**

Project Coordinator

Dept. of Computer Science and  
Engineering

*[Signature]*

**PRINCIPAL**

**Al-Azhar College of Engineering & Technology**

*Kala*  
*20/7/22*

**Ms.KALA O.S**

Head of the Department

Dept. of Computer Science and  
Engineering



**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3344998/2021/CRUTIOMPA

# CERTIFICATE OF INTERNSHIP

awarded to

**NELVIN THANKACHAN**

from

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 5 days online internship program on

*Zero to Hero of Robotics* conducted by

*Alphasys 3D Printing Solutions* from *07.12.2021 to 11.12.2021*

Date : 14.12.2021  
Cert. ID : ASIG20035

PRINCIPAL  
Al-Azhar College of Engineering & Technology



**Antony Francis Rajan**  
Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha



**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3344998/2021/CRUTIOMPA

# CERTIFICATE OF INTERNSHIP

awarded to

**MERIN VARGHESE**

from

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 5 days online internship program on

*Zero to Hero of Robotics* conducted by

*Alphasys 3D Printing Solutions* from 07.12.2021 to 11.12.2021

Date : 14.12.2021  
Cert. ID : ASIG20029



**Antony Francis Rajan**  
Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha

PRINCIPAL  
Al Azhar College of Engineering & Technology



**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3/AN996/2021/CRUIOMPS

# CERTIFICATE OF INTERNSHIP

awarded to

**ANJANA SANTHOSH**

from


**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 5 days online internship program on

*Zero to Hero of Robotics* conducted by

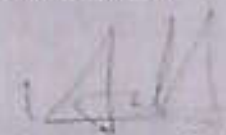
*Alphasys 3D Printing Solutions* from *07.12.2021 to 11.12.2021*

Date : 14.12.2021  
Cert. ID : ASIG20038

  
PRINCIPAL

Al-Azhar College of Engineering & Technology



  
Antony Francis Rajan  
Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha



**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3344998/2021/CRUTIOMPA

# CERTIFICATE OF INTERNSHIP

awarded to

**ALIYA FATHIMA**

from

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 5 days online internship program on

***Zero to Hero of Robotics*** conducted by

***Alphasys 3D Printing Solutions*** from ***07.12.2021 to 11.12.2021***

Date : 14.12.2021  
Cert. ID : ASIG20036

PRINCIPAL

Al-Azhar College of Engineering & Technology



**Antony Francis Rajan**

Managing Partner

Alphasys 3D Printing Solutions

East Marady, Muvattupuzha



**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3344998/2021/CRUTIQMPA

# CERTIFICATE OF INTERNSHIP

awarded to

**RAIBAN FATHIMA**

from

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 5 days online internship program on

*Zero to Hero of Robotics* conducted by

*Alphasys 3D Printing Solutions* from *07.12.2021 to 11.12.2021*

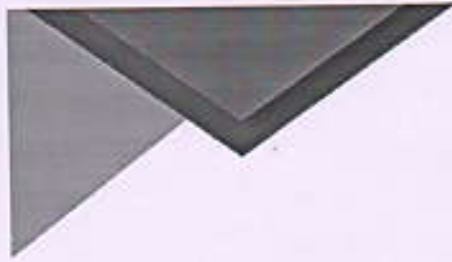
Date : 14.12.2021  
Cert. ID : ASIG20031



**Antony Francis Rajan**  
Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha

**PRINCIPAL**  
Al Azhar College of Engineering & Technology





# CERTIFICATE OF INTERNSHIP

awarded to

**MOHAMMAD RAZIN RASHEED**

from

**AL AZHAR COLLEGE ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 5 days online internship program on  
**Android Application Development** conducted by  
**Kwicklab Infotech Pvt Ltd** from **16.06.2021** to **20.06.2021**

Date : 23-06-2021  
Cert.ID : IO5D210113



*Amal Jose*  
**AMAL JOSE**

CEO  
Kwicklab Infotech Pvt Ltd  
1st Floor , KC Arcade  
Kakkanad - 682037

www.kwicklab.com



*[Handwritten signature in green ink]*

**PRINCIPAL**  
**Al-Azhar College of Engineering & Technology**



# CERTIFICATE OF INTERNSHIP

awarded to

**HIJAS**

from

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 5 days online internship program on  
**Android Application Development** conducted by  
**Kwicklab Infotech Pvt Ltd from 16.06.2021 to 20.06.2021**

Date : 23-06-2021  
Cert.ID : IO5D210732



A handwritten signature in black ink, appearing to read 'Amal Jose'.

**AMAL JOSE**

CEO

Kwicklab Infotech Pvt Ltd  
1st Floor , KC Arcade  
Kakkanad - 682037



**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3344998/2021/CRUTIGMPA

# CERTIFICATE OF INTERNSHIP

awarded to

**MUHAMMED SALIH PK**

from

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 5 days online Internship program on

***Zero to Hero of Robotics*** conducted by

***Alphasys 3D Printing Solutions from 07.12.2021 to 11.12.2021***

Date : 14.12.2021  
Cert. ID : ASIG20033



**Antony Francis Rajan**  
Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha

**PRINCIPAL**  
Al-Azhar College of Engineering & Technology



**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3344/998/2021/CRUTIOMPA

# CERTIFICATE OF INTERNSHIP

awarded to

**ALFIYA ES**

from

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 5 days online Internship program on

*Zero to Hero of Robotics* conducted by

*Alphasys 3D Printing Solutions* from **07.12.2021 to 11.12.2021**

Date : 14.12.2021  
Cert. ID : ASIG20037



**Antony Francis Rajan**  
Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha

**PRINCIPAL**  
Al-Azhar College of Engineering & Technology



**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3344998/2021/CRUTIOMPA

# CERTIFICATE OF INTERNSHIP

*awarded to*

**FARVEEN FATHIMA**

*from*

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 5 days online internship program on

***Zero to Hero of Robotics*** conducted by

***Alphasys 3D Printing Solutions*** from ***07.12.2021 to 11.12.2021***

Date : 14.12.2021  
Cert. ID : ASIG20034



**Antony Francis Rajan**

Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha



**ALPHASYS 3D PRINTING SOLUTIONS**

*Reg No: K2/3344998/2021/CRUTIOMPA*

# CERTIFICATE OF INTERNSHIP

*awarded to*

**Thoufeek S**

*from*

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 5 days online internship program on

*Zero to Hero of Robotics* conducted by

*Alphasys 3D Printing Solutions from 07.12.2021 to 11.12.2021*

**PRINCIPAL**

**Al-Azhar College of Engineering & Technology**



**Antony Francis Rajan**

*Managing Partner*

*Alphasys 3D Printing Solutions*

*East Marady, Muvattupuzha*

# CERTIFICATE

## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **RAIHANA AZEEZ** ▶

This is to certify that the above mentioned candidate has successfully completed  
his/her training in Cyber Security from 5<sup>th</sup> May to 5<sup>th</sup> June 2022

During this course he/she showed diligence, consistency, determination,  
active participation and innovation throughout their training period.



Mayank Gathole  
(Academic Head)

  
PRINCIPAL

Al-Azhar College of Engineering & Technology

Student UIN : 2007833

Certificate no. : RA1718833



▶ give  
2015

# CERTIFICATE

OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**FATHIMA SABU**

This is to certify that the above mentioned candidate has successfully completed  
his/her training in Cyber Security from 5<sup>th</sup> May to 5<sup>th</sup> June 2022

During this course he/she showed diligence, consistency, determination,  
active participation and innovation throughout their training period.



Mayank Gathole  
(Academic Head)



PRINCIPAL

Al-Askar College of Engineering & Technology

Student UIN : 2007829

Certificate no. : RA1718829



give  
INDIA



# CERTIFICATE

## OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**FARHANA JALUDHEEN**

This is to certify that the above mentioned candidate has successfully completed  
his/her training in Cyber Security from 5<sup>th</sup> May to 5<sup>th</sup> June 2022

During this course he/she showed diligence, consistency, determination,  
active participation and innovation throughout their training period.



**Mayank Gathole**  
(Academic Head)



**PRINCIPAL**

**Al-Azhar College of Engineering & Technology**

Student UIN : 2007839

Certificate no. : RA1718839



**give**  
INDIA



**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3344998/2021/CRUTIOMPA

# CERTIFICATE OF INTERNSHIP

awarded to

**MEENAKSHI M MADHU**

from

**AI AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 7 days internship program on *Additive Manufacturing & Fused Deposition Modeling* conducted by *Alphasys 3D Printing Solutions* from **1-02-2022 to 7-02-2022**

Date : 9-02-2022  
Cert. ID : ASIG4390



PRINCIPAL

AI Azhar College of Engineering & Technology

**Antony Francis Rajan**

Managing Partner

Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

AL-AZHAR ENGINEERING AND TECHNOLOGY

THODUPUZHA 685 605 KERALA



**CERTIFICATE**

This is to certify that the report entitled "TWO WAY AUTHENTICATION FOR SAFETY IN VEHICLE" submitted by Ms. FATHIMATHUL THASNI & Mr. SIRAJ MUHAMMED KHAN to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Electronics and Communication Engineering is a bonafide record of the project work carried out by him/her under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Guided by, 4/7/22

Mrs. ASHA MOL JOSEPH

Assistant Professor

Dept. of ECE

PRINCIPAL  
Al-Azhar College of Engineering & Technology

Head of the Department,

Mr. HARIKRISHNAN M P

Assistant Professor

Dept. of ECE



# Certificate

This is to certify that

*Mr. Alan Baiju*

of

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed six days Internship/ Industrial Training Programme organized by Techmaghi LLP in association with Leela Electric Power Services Pvt Ltd from 17th November 2021 to 22nd November 2021.

During this period he gained training in the following areas:

- Introduction to Electrical System Design
- Major components and safety devices used in Electrical System Design
- Preparation of basic Schematic Drawings
- Steps involved in real-life Electrical System Design Projects
- Integration of Renewable Energy to Grids
- Onsite Training on Project Execution at commercial work sites like apartments, hospitals, commercial complexes, etc.
- Introduction to Electrical CADD



**Deepak Rajan**  
Chief Executive Officer  
Techmaghi LLP



**Eldho Thomas**  
Chairman  
Leela Electric Power Services Pvt. Ltd.



**PRINCIPAL**  
Al Azhar College of Engineering & Technology



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# Certificate

This is to certify that

*Mr. Melbin P S*

of

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed six days internship/ Industrial Training Programme organized by Techmaghi LLP in association with Leela Electric Power Services Pvt Ltd from 17th November 2021 to 22nd November 2021.

During this period he gained training in the following areas:

- Introduction to Electrical System Design
- Major components and safety devices used in Electrical System Design
- Preparation of basic Schematic Drawings
- Steps involved in real-life Electrical System Design Projects
- Integration of Renewable Energy to Grids
- Onsite Training on Project Execution at commercial work sites like apartments, hospitals, commercial complexes, etc.
- Introduction to Electrical CADD

**Deepak Rajan**  
Chief Executive Officer  
Techmaghi LLP

**Eldho Thomas**  
Chairman  
Leela Electric Power Services Pvt. Ltd.

**PRINCIPAL**  
Al Azhar College of Engineering & Technology

# Certificate

This is to certify that

*Mr. Muhammad Ansari*

of

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed six days Internship/ Industrial Training Programme organized by Techmaghi LLP in association with Leela Electric Power Services Pvt Ltd from 17th November 2021 to 22nd November 2021.

During this period he gained training in the following areas:

- Introduction to Electrical System Design
- Major components and safety devices used in Electrical System Design
  - Preparation of basic Schematic Drawings
  - Steps involved in real-life Electrical System Design Projects
  - Integration of Renewable Energy to Grids
- Onsite Training on Project Execution at commercial work sites like apartments, hospitals, commercial complexes, etc.
  - Introduction to Electrical CADD



**Deepak Rajan**  
Chief Executive Officer  
Techmaghi LLP



**Principal**  
AL AZHAR College of Engineering & Technology



**Eldho Thomas**  
Chairman  
Leela Electric Power Services Pvt. Ltd.



Industrial Training/Internship



# Certificate

This is to certify that

*Mr. Muhammad Shefin*

of

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed six days Internship/ Industrial Training Programme organized by Techmaghi LLP in association with Leela Electric Power Services Pvt Ltd from 17th November 2021 to 22nd November 2021.

During this period he gained training in the following areas:

- Introduction to Electrical System Design
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  - Preparation of basic Schematic Drawings
  - Steps involved in real-life Electrical System Design Projects
  - Integration of Renewable Energy to Grids
- Onsite Training on Project Execution at commercial work sites like apartments, hospitals, commercial complexes, etc.
  - Introduction to Electrical CADD

**Deepak Rajan**  
Chief Executive Officer  
Techmaghi LLP

**Eldho Thomas**  
Chairman  
Leela Electric Power Services Pvt. Ltd.

PRINCIPAL  
Al-Azhar College of Engineering & Technology



Industrial Training/Internship



# Certificate

This is to certify that

*Mr. Sarath Satheesh*

of

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed six days Internship/ Industrial Training Programme organized by Techmaghi LLP in association with Leela Electric Power Services Pvt Ltd from 17th November 2021 to 22nd November 2021.

- During this period he gained training in the following areas:
  - Introduction to Electrical System Design
  - Major components and safety devices used in Electrical System Design
  - Preparation of basic Schematic Drawings
  - Steps involved in real-life Electrical System Design Projects
  - Integration of Renewable Energy to Grids
- Onsite Training on Project Execution at commercial work sites like apartments, hospitals, commercial complexes, etc.
  - Introduction to Electrical CADD

**Deepak Rajan**  
Chief Executive Officer  
Techmaghi LLP

**PRINCIPAL**  
Al-Azhar College of Engineering & Technology

**Eldho Thomas**  
Chairman  
Leela Electric Power Services Pvt. Ltd.



## CERTIFICATE

This is to certify that

**REHNA RAJ**

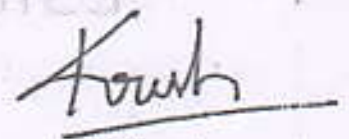
student of

**AL AZHAR COLLEGE OF ENGINEERING AND POLYTECHNIC**

has completed 10 days internship training in **EMBEDDED SYSTEM** from 1<sup>st</sup> February 2022 at ZINDOT TECHNOLOGIES, Kochi. During this intern period, we found him/her a sincere, honest, hardworking, dedicated student with a professional attitude and very good professional knowledge.

We wish you every success in all future endeavours.

Date : 14 FEBRUARY 2022



Director

ZINDOT TECHNOLOGIES



PRINCIPAL

Al Azhar College of Engineering & Technology



# CERTIFICATE

OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **ABDUL MANAF AA** ▶

This is to certify that the above mentioned candidate has successfully completed  
his/her training in IoT & Robotics from 5<sup>th</sup> May to 5<sup>th</sup> June 2022

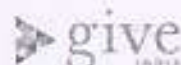
During this course he/she showed diligence, consistency, determination,  
active participation and innovation throughout their training period.



Mayank Gathole  
(Academic Head)

Student UIN : 2008257

Certificate no. : RA1719257



PRINCIPAL  
Al-Azhar College of Engineering & Technology

# CERTIFICATE

OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

AVIN RAMESH V

This is to certify that the above mentioned candidate has successfully completed  
his/her training in IoT & Robotics from 5<sup>th</sup> May to 5<sup>th</sup> June 2022

During this course he/she showed diligence, consistency, determination,  
active participation and innovation throughout their training period.



Mayank Gathole  
(Academic Head)

Student UIN : 2008248

Certificate no. : RA1719248



PRINCIPAL  
At-Archer College of Engineering & Technology

**DEPARTMENT OF AUTOMOBILE ENGINEERING**  
**AL-AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**



**CERTIFICATE**

This is to certify that the Project Report entitled by “**NUMERICAL ANALYSIS OF AN AUTOMOBILE CABIN THERMAL MANAGEMENT USING PHASE CHANGE MATERIAL**” is the bonafide record of the project presented by **Mr. VIGKHESH P KUMAR (AAE18AU003), Mr. AKHIL PAUL (AAE17AU001) & Mr. SANDO PHILIP (AAE18AU002)** in partial fulfillment for the award of Degree of Bachelor of Technology Automobile Engineering, from A P J Abdul Kalam Technological University, during the academic year 2021 -2022.



**Mr. Amal Thomas**

Head of the Department


Dept. of Automobile  
Engineering



**Mr. Amal Thomas**

Project Coordinator

Dept. of Automobile  
Engineering



**Mr. Biaz Lal**

Project Guide

Dept. of Automobile  
Engineering

**DEPARTMENT OF AUTOMOBILE ENGINEERING**  
**AL-AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**



**CERTIFICATE**

This is to certify that the Project Report entitled by “**DESIGN AND ANALYSIS OF AN AUTOMOTIVE MUFFLER**” is the bonafide record of the project presented by **Mr. AKBAR P S (AAE18AU001) & Mr. SUBIN SURESH (LAAE18AU004)** in partial fulfillment for the award of Degree of Bachelor of Technology Automobile Engineering, from A P J Abdul Kalam Technological University, during the academic year 2021 -2022.



**Mr. Amal Thomas**

Head of the Department

Dept. of Automobile  
Engineering



**Mr. Amal Thomas**

Project Coordinator

Dept. of Automobile  
Engineering



**Mr. Abhijith B**

Project Guide

Dept. of Automobile  
Engineering

DEPARTMENT OF CIVIL ENGINEERING  
AL-AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY,  
PERUMPILLICHIRA



CERTIFICATE

This is to certify that the report entitled 'ANALYSIS DESIGN AND DETAILING OF A COMMERCIAL BUILDING USING ETABS' submitted by ANANDHA KRISHNAN P (AAE18CE001), ANUGRAHA PRASAD (LAAE18CE002) JEEVAN C SUNIL (AAE17CE006) & MOHAMMED SHARIQUE SHADUMAN P (AAE17CE008) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Civil Engineering is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

*JJB*  
5/7/2022

Mr. Jojo John  
Project Guide  
Dept. of Civil Engineering

*RS*  
5/7/22

Mrs. Rosemary Sunny  
Project Coordinator  
Dept. of Civil Engineering

*RS*  
5/7/22

Mrs. Riya Susan  
Head of the Department  
Dept. of Civil Engineering

*[Signature]*  
PRINCIPAL  
Al-Azhar College of Engineering & Technology

DEPARTMENT OF CIVIL ENGINEERING  
AL-AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY,  
PERUMPILLICHIRA




CERTIFICATE


This is to certify that the project report entitled '**COMPARATIVE STUDY ON THE EFFECT OF ALUMINIUM CHOPS V/S POLYVINYL CHLORIDE ON SOIL STABILIZATION**' submitted by **SHABANA SHOUKATHALI (LAAE18CE003), SHARAFIYA RASHEED (LAAE18CE004), SREERAG M.P (AAE17CE011) and SUSEENDRAN G (AAE17CE012)** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Civil Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

  
Mrs. Blessy V.R


Project Guide  
Dept. of Civil Engineering

  
Mrs. Rosemary Sunny

Project Coordinator  
Dept. of Civil Engineering

  
Mrs. Riya Susan

Head of the Department  
Dept. of Civil Engineering

  
PRINCIPAL  
Al-Azhar College of Engineering & Technology

IX/9, Sastri Road, Kottayam - 686001  
Tel: 0481-2564065, Telefax: 0481-2563534  
E-mail: neelettu@gmail.com  
Website: www.neelettu.com



07/02/2022


TO WHOMSOEVER IT MAY CONCERN

This is to certify that **ABY TOBY**, a B.Tech student of Al Azar College of Engineering and Technology, Thodupuzha had undergone 7 days internship programme for Site Supervising at our Commercial Building cum Hotel Building site at Kumily (Idukki District) from 25<sup>th</sup> January 2022 to 31<sup>st</sup> January 2022

This certificate is issued as per his request to produce before the college authorities.



For Neelettu Constructions

  
Managing Partner

  
PRINCIPAL

Al Azar College of Engineering & Technology





INTERNSHIP CERTIFICATE

This is to certify that

**Ms. Akshara Saji**

of

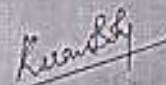
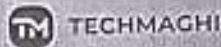
**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed the **5-Day Internship on Basics of Site Engineering** organized by **Techmaghi** in association with **Metcon** and **Takshak 21'** (National Level Technical Fest of Mar Athanasius College of Engineering, Kothamangalam) from **29th Dec 2021 to 2nd Jan 2022**.



Deepak Rajan  
Chief Executive Officer,  
TECHMAGHI LLP

ORGANISED BY



Prof. Kiran Boby  
Staff Coordinator,  
TAKSHAK 21



TAKSHAK 21

PRINCIPAL

Al Azhar College of Engineering & Technology



INTERNSHIP CERTIFICATE

This is to certify that

**Ms. Akshara S Kumar**

of

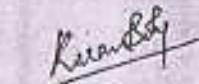
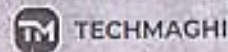
**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed the **5-Day Internship** on **Basics of Site Engineering** organized by **Technmaghi** in association with **Metcon** and **Takshak 21'** (National Level Technical Fest of Mar Athanasius College of Engineering, Kothamangalam) from **29th Dec 2021 to 2nd Jan 2022**.



Deepak Rajan  
Chief Executive Officer,  
TECHMAGHI LLP

ORGANISED BY



Prof. Kiran Boby  
Staff Coordinator,  
TAKSHAK 21



PRINCIPAL

Al Azhar College of Engineering & Technology





## INTERNSHIP CERTIFICATE

This is to certify that

**Mr. Mohammed Jinshad**

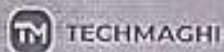
of

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed the **5-Day Internship on Basics of Site Engineering** organized by **Techmaghi** in association with **Metcon** and **Takshak 21'** (National Level Technical Fest of Mar Athanasius College of Engineering, Kothamangalam) from **29th Dec 2021 to 2nd Jan 2022**.

Deepak Rajan  
Chief Executive Officer,  
TECHMAGHILLP

ORGANISED BY



Prof. Kiran Boby  
Staff Coordinator  
TAKSHAK 21

PRINCIPAL

Al Azhar College of Engineering & Technology



TAKSHAK 21



INTERNSHIP CERTIFICATE

This is to certify that

**Ms. Neseeha Samad**

of

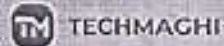
**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed the 5-Day Internship on Basics of Site Engineering organized by **Techmaghi** in association with **Metcon** and **Takshak 21'** (National Level Technical Fest of Mar Athanasius College of Engineering, Kothamangalam) from 29th Dec 2021 to 2nd Jan 2022.



Deepak Rajan  
Chief Executive Officer,  
TECHMAGHILLP

ORGANISED BY



Prof. Kiran Boby  
Staff Coordinator,  
TAKSHAK 21



PRINCIPAL

Al Azhar College of Engineering & Technology



TAKSHAK 21



Reg No. 2476/2007 Con. Reg. No. 47/BSC/E1/07-08, A Class

# CERTIFICATE OF INTERNSHIP

awarded to

**SALIH NAUSHAD**

from

**AL AZHAR COLLEGE OF ENGINEERING AND POLYTECHNIC**

In recognition to his/her participation in 7 days internship program on  
*Building Construction and Construction Management Practices* conducted by  
*Madeckal Constructions* from **25-01-2022 to 31-01-2022**

Date : 01/02/2022  
Cert. ID : MC2I0313



**Vinoy Antony**  
Managing Partner  
Madeckal Constructions  
Bappuji Road, Muvattupuzha - 686 661

**PRINCIPAL**

Al Azhar College of Engineering & Technology



INTERNSHIP CERTIFICATE

This is to certify that

**Ms. Shiji K P**

of

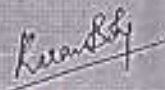
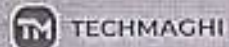
**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed the **5-Day Internship on Basics of Site Engineering** organized by **Techmaghi** in association with **Metcon** and **Takshak 21'** (National Level Technical Fest of Mar Athanasius College of Engineering, Kothamangalam) from **29th Dec 2021 to 2nd Jan 2022**.



Deepak Rajan  
Chief Executive Officer,  
TECHMAGHI LLP

ORGANISED BY



Prof. Kiran Boby  
Staff Coordinator,  
TAKSHAK 21



PRINCIPAL

Al Azhar College of Engineering & Technology





## INTERNSHIP CERTIFICATE

This is to certify that

**Ms. Mariyamswalha P**

of

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed the **5-Day Internship on Basics of Site Engineering** organized by **Techmaghi** in association with **Metcon** and **Takshak 21'** (National Level Technical Fest of Mar Athanasius College of Engineering, Kothamangalam) from **29th Dec 2021 to 2nd Jan 2022**.

Deepak Rajan  
Chief Executive Officer,  
TECHMAGHI LLP

ORGANISED BY



TECHMAGHI

Prof. Kiran Boby  
Staff Coordinator,  
TAKSHAK 21

PRINCIPAL  
Al-Azhar College of Engineering & Technology



TAKSHAK 21



INSTA BUILDERS & DEVELOPERS

03/05/2022

## CERTIFICATE

This is to certify that Anamika K , having the university register number : AAE20CE006, B.Tech Civil Engineering student of AL AZHAR College of Engineering & Technology, Thodupuzha has successfully completed internship program based on Civil Engineering and visited our work sites from 29/04/2022 to 03/05/2022.

For Insta Builders & Developers

HR Manager



PRINCIPAL  
Al-Azhar College of Engineering & Technology



# A H BUILDERS

G.Floor, Kollikkunmel Build. Near H.D.F.C Bank  
Mvpa Road Thodupuzha

Phone: 8086787215

Date: 01/01/2022

## INTERNSHIP CERTIFICATE

This is to certify that Mrs. AFEETHA HAMZA Pursuing her 3<sup>rd</sup> semester B.tech Civil Engineering in Al-Azhar College Of Engineering and Technology- Perumpillichira P.O Thodupuzha, IDUKKI Dist. Has successfully Completed her internship at our A H Builders, Thodupuzha office from 26/12/2021 to 31/12/2021. She was a co-operative and enthusiastic hard worker. The quality and quantity of work produced by her has always been excellent.

The Certificate is issued to her of future employment reference and any other purposes this may serve her best wish Forr a bright future.

Thodupuzha

01/01/2022



PRINCIPAL  
Al-Azhar College of Engineering & Technology

Yours faithfully

AJMAL SHAJAHAN

Managing Director

AJMAL SHAJAHAN  
Engineering Consultant  
Reg.No. G6-3566/17/270/SB  
Govt. of Kerala



ALPHASYS 3D PRINTING SOLUTIONS  
Thoughts become things

East Marady PO  
Muvattupuzha, Ernakulam

PIN : 686673

Mob : +91 9947896308

+91 9495994375

License No : 153/2021-2022/C4/1701/21

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr/Ms. Alex Paul, Third Semester Engineering student of Al Azhar College of Engineering and Polytechnic, Thodupuzha, Kerala, India has successfully completed his/her internship with Alphasys 3D Printing Solutions on Additive Manufacturing and Fused Deposition Modeling from 01-02-2022 to 07-02-2022.

For Alphasys 3D Printing Solutions

Muvattupuzha

09-02-2022



ANTONY FRANCIS RAJAN  
Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha  
Pin: 686 673

PRINCIPAL

Al Azhar College of Engineering & Technology



Reg No. 2476/2007 Con. Reg. No. 47/BSC/E1/07-08, A Class

## CERTIFICATE OF INTERNSHIP

awarded to

**ANUJA P**

from

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

*in recognition of his/her participation in a 7 days internship program  
on Cost Effective Construction and Bhoovastra conducted by  
Madeckal Constructions from 29-06-2022 to 05-07-2022*

A handwritten signature in green ink, likely belonging to the Principal of Al Azhar College of Engineering &amp; Technology.

**PRINCIPAL**  
Al Azhar College of Engineering & Technology

A handwritten signature in black ink, likely belonging to Vinoy Antony, Managing Partner of Madeckal Constructions.

**Vinoy Antony**  
Managing Partner  
Madeckal Constructions  
Bappuji Road, Muvattupuzha - 686 661



Date : 06-07-2022  
Cert. ID : MC221003



31/12/2021

## CERTIFICATE

This is to certify that Anandhu Krishna, having the university register number : AAE20CE007, B.Tech Civil Engineering student of AL Azhar College of Engineering & Technology, Thodupuzha has successfully completed internship program based on Civil Engineering and visited our work sites from 26/12/2021 to 31/12/2021.

Thank You

HR Manager



PRINCIPAL  
AL Azhar College of Engineering & Technology



# CERTIFICATE OF INTERNSHIP

PROUDLY PRESENTED TO

**ANUSHA SHAJI**

FROM

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed the 5-Day Internship on Basics Of Building Construction & Autocad.  
The duration of Internship was from 20<sup>th</sup> April 2022 to 24<sup>th</sup> April 2022.



**DEEPAK RAJAN**  
Founder & CEO, TECHMAGHI LLP



24-04-2022

ISSUED DATE

**PRINCIPAL**  
Al Azhar College of Engineering & Technology



ALPHASYS 3D PRINTING SOLUTIONS  
Thoughts become things

East Marady PO  
Muvattupuzha, Ernakulam

PIN : 686673

Mob : +91 9947896308

+91 9495994375

License No : 153/2021-2022/C4/1701/21

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr/Ms. Asif P S, Third Semester Engineering student of Al Azhar College of Engineering and Polytechnic, Thodupuzha, Kerala, India has successfully completed his/her internship with Alphasys 3D Printing Solutions on Additive Manufacturing and Fused Deposition Modeling from 01-02-2022 to 07-02-2022.

For Alphasys 3D Printing Solutions

Muvattupuzha

09-02-2022



ANTONY FRANCIS RAJAN  
Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha  
Pin: 686 673

PRINCIPAL

Al Azhar College of Engineering & Technology

OFFICE OF THE ASSISTANT ENGINEER,PUBLIC WORKS DEPARTMENT

BUILDINGS SECTION THODUPUZHA

**TO WHOM IT MAY CONCERN**

This is to certify that the following Semester 3 Civil Engineering B.Tec students in AL-AZHAR college of Engineering and Technology,Thodupuzha has been successfully completed internship programme from 09/02/2022 to 16/02/2022 in this office.

During the period of Internship programme they were found punctual,hard working and Inquisitive.

1.Athulya Stanline

2.Adhithyamol V R

3.Nikhitha Binoy

4.Binishma Sasi

Thodupuzha

17/02/2022



  
Assistant Engineer  
Assistant Engineer  
P.W.D. Buildings Section  
Thodupuzha

  
PRINCIPAL  
Al-Azhar College of Engineering & Technology



## INTERNSHIP CERTIFICATE

This certificate is presented to

**Bahir saneen v**

For completing his internship program  
from 2021 November 8 - November 12 ( 5 days)

Given this January 05, 2022

A handwritten signature in green ink, appearing to be "S. V.", is located on the right side of the certificate.

PKINDIPAD

Dr. A. Kar College of Engineering & Technology

A handwritten signature in black ink, appearing to be "Sudheesh", is located below the text "Sudheesh".

**Sudheesh**

Senior Engineer





## INTERNSHIP CERTIFICATE

This is to certify that

**Mr. Fasal Muhammed**

of

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed the **5-Day Internship** on **Basics of Site Engineering** organized by **Technmaghi** in association with **Metcon** and **Takshak 21'** (National Level Technical Fest of Mar Athanasius College of Engineering, Kothamangalam) from **29th Dec 2021 to 2nd Jan 2022**.

Deepak Rajan  
Chief Executive Officer,  
TECHMAGHI LLP

ORGANISED BY



Prof. Kiran Bobby  
Staff Coordinator,  
TAKSHAK 21





INTERNSHIP CERTIFICATE

This is to certify that

**Ms. Fathima Jabbar**

of

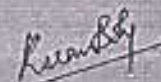
**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

has successfully completed the **5-Day Internship on Basics of Site Engineering** organized by **Technmaghi** in association with **Metcon** and **Takshak 21'** (National Level Technical Fest of Mar Athanasius College of Engineering, Kothamangalam) from **29th Dec 2021 to 2nd Jan 2022.**



Deepak Rajan  
Chief Executive Officer,  
TECHMAGHI LLP

ORGANISED BY



Prof. Kiran Boby  
Staff Coordinator,  
TAKSHAK 21



PRINCIPAL  
Al Azhar College of Engineering & Technology



ALPHASYS 3D PRINTING SOLUTIONS  
Thoughts become things

East Marady PO  
Muvattupuzha, Ernakulam  
PIN : 686673  
Mob : +91 9947896308  
+91 9495994375

License No : 153/2021-2022/C4/1701/21

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr/Ms. Ismail Shukkoor, Third Semester Engineering student of Al Azhar College of Engineering and Polytechnic, Thodupuzha, Kerala, India has successfully completed his/her internship with Alphasys 3D Printing Solutions on Additive Manufacturing and Fused Deposition Modeling from 01-02-2022 to 07-02-2022.

For Alphasys 3D Printing Solutions

ANTONY FRANCIS RAJAN  
Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha  
Pin: 686 673

Muvattupuzha

09-02-2022



PRINCIPAL  
Al Azhar College of Engineering & Technology



INSTA BUILDERS & DEVELOPERS

31/12/2021

## CERTIFICATE

This is to certify that Mrudula O Nair, having the university register number : AAE20CE018, B.Tech Civil Engineering student of AL Azhar College of Engineering & Technology, Thodupuzha has successfully completed internship program based on Civil Engineering and visited our work sites from 26/12/2021 to 31/12/2021.

Thank You

HR Manager



PRINCIPAL  
AL Azhar College of Engineering & Technology



Reg No. 2476/2007 Con. Reg. No. 47/BSC/E1/07-08, A Class

## CERTIFICATE OF INTERNSHIP

awarded to

**MUHAMMED FASIL KP**

from

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

*in recognition of his/her participation in a 7 days internship program*

*on Cost Effective Construction and Bhoovastra conducted by*

*Madeckal Constructions from 29-06-2022 to 05-07-2022*

Date : 06-07-2022

Cert. ID : MC22I004



A handwritten signature in black ink, appearing to read 'Vinoy Antony'.

**Vinoy Antony**

Managing Partner, Al Azhar College of Engineering & Technology

Madeckal Constructions

Bappuji Road, Muvattupuzha - 686 661

A handwritten signature in green ink, appearing to be the signature of the Principal.

**PRINCIPAL**

Al Azhar College of Engineering & Technology



INSTA BUILDERS & DEVELOPERS

31/12/2021

## CERTIFICATE

This is to certify that Navaneeth V, having the university register number : AAE20CE020, B.Tech Civil Engineering student of AL Azhar College of Engineering & Technology, Thodupuzha has successfully completed internship program based on Civil Engineering and visited our work sites from 26/12/2021 to 31/12/2021.

Thank You

HR Manager



PRINCIPAL  
Al-Azhar College of Engineering & Technology



## INTERNSHIP CERTIFICATE

This certificate is presented to

**Rinshad c**

For completing his internship program  
from 2021 November 8 - November 12 ( 5 days)

Given this January 05, 2022

A handwritten signature in black ink, appearing to read "Sudheesh", is written over a horizontal line.

**Sudheesh**

Senior Engineer

A handwritten signature in green ink, appearing to read "Sh", is written above the principal's name.

PRINCIPAL  
Al-Azhar College of Engineering & Technology



INSTA BUILDERS & DEVELOPERS

31/12/2021

## CERTIFICATE

This is to certify that Sanya S Kumar, having the university register number : AAE20CE023, B.Tech Civil Engineering student of AL Azhar College of Engineering & Technology, Thodupuzha has successfully completed internship program based on Civil Engineering and visited our work sites from 26/12/2021 to 31/12/2021.

Thank You

HR Manager



PRINCIPAL  
AL Azhar College of Engineering & Technology





**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3344998/2021/CRUTIOMPA

# CERTIFICATE OF INTERNSHIP

awarded to

**SHAHANAS NOUSHAD**

from

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 7 days internship  
program on *Additive Manufacturing & Fused Deposition Modeling* conducted by  
*Alphasys 3D Printing Solutions* from *1-02-2022 to 7-02-2022*

Date : 9-02-2022  
Cert. ID : ASIG4149



**Antony Francis Rajan**  
Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha

PRINCIPAL  
Al Azhar College of Engineering & Technology



**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3344998/2021/CRUTIOMPA

# CERTIFICATE OF INTERNSHIP

awarded to

**SHREYA P A**

from

**AL AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 7 days internship  
program on *Additive Manufacturing & Fused Deposition Modeling* conducted by  
*Alphasys 3D Printing Solutions* from 1-02-2022 to 7-02-2022

Date : 9-02-2022  
Cert. ID : ASIG4148



**Antony Francis Rajan**  
Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha

PRINCIPAL

Al Azhar College of Engineering & Technology



**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3344998/2021/CRUTIOMPA

# CERTIFICATE OF INTERNSHIP

*awarded to*

**SNEHA THOMAS**

*from*

**AI AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 5 days online internship program on

*Zero to Hero of Robotics* conducted by

*Alphasys 3D Printing Solutions* from 16.09.2021 to 20.09.2021

Date : 23.09.2021

Cert. ID : ASIG1230



**Antony Francis Rajan**

Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha

PRINCIPAL

AI Azhar College of Engineering & Technology



**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3344998/2021/CRUTIOMPA

# CERTIFICATE OF INTERNSHIP

awarded to

**ABDUL VAJID**

from

**AI AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 7 days internship  
program on *Additive Manufacturing & Fused Deposition Modeling* conducted by  
*Alphasys 3D Printing Solutions* from *1-02-2022 to 7-02-2022*

Date : 9-02-2022



**Antony Francis Rajan**

Managing Partner

Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha

PRINCIPAL

AI-Azhar College of Engineering & Technology



**ALPHASYS 3D PRINTING SOLUTIONS**

Reg No: K2/3344998/2021/CRUTIOMPA

# CERTIFICATE OF INTERNSHIP

awarded to

**ANSHID P**

from

**AI AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

In recognition to his/her participation in 7 days internship  
program on *Additive Manufacturing & Fused Deposition Modeling* conducted by  
*Alphasys 3D Printing Solutions* from 1-02-2022 to 7-02-2022

Date : 9-02-2022



**PRINCIPAL**

AI Azhar College of Engineering & Technology

**Antony Francis Rajan**  
Managing Partner  
Alphasys 3D Printing Solutions  
East Marady, Muvattupuzha



*G-Groups  
Engineers*

Date: 31/12/2021

**CERTIFICATE**

This is to certify that **Mageena A.M.**, having the university register number: **LAAE20CE029**, B.Tech Civil Engineering student of Al Azhar College of Engineering and Technology, Thodupuzha has successfully completed internship program based on Civil Engineering and visited our work sites from **26/12/2021 to 31/12/2021**.

**PRINCIPAL**  
Al-Azhar College of Engineering & Technology

**Jayesh Kumar**  
Managing Director

G. groups Engineers & Designers  
Mundakayam P.O, Kottayam Dist.  
Mob: 9446828188

📍 Mundakayam P.O. , Kottayam Dist., Kerala, India - 686513

☎ +91 9446828188 ✉ jayesh4g@gmail.com

**DEPARTMENT OF MECHANICAL ENGINEERING**  
**AL-AZHAR COLLEGE OF ENGINEERING AND TECHNOLOGY**



**CERTIFICATE**

This is to certify that the Project Report entitled by “**THERMAL ANALYSIS AND OPTIMIZATION OF HELICAL COIL HEAT EXCHANGER**” is the bonafide record of the project presented by **ANUVIND K P (AAE17ME003), JAIZOORYA V (AAE17ME006), & MUHAMMED ANVAR (AAE17ME009)** in partial fulfillment for the award of Degree of Bachelor of Technology in Mechanical Engineering, from A P J Abdul Kalam Technological University, during the academic year 2021 -2022.



**Mr. Amal Thomas**

Head of the Department

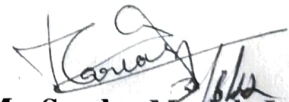
Dept. of Mechanical  
Engineering



**Mr. Amal Thomas**

Project Coordinator

Dept. of Mechanical  
Engineering



**Ms. Sandra Mariah John**

Project Guide

Dept. of Mechanical  
Engineering

KERALA STATE ROAD TRANSPORT CORPORATION



Office of the District Transport Officer, Thodupuzha  
Email: [tdp@kerala.gov.in](mailto:tdp@kerala.gov.in) ☎ 04862-221338

DATE:02.06.2022

TO WHOM IT MAY CONCERN

THIS IS TO CERTIFY THAT MR.AKBAR P S,  
(REG: NO- AME18AU001) A STUDENT OF EIGHTH  
SEMESTER AUTOMOBILE ENGINEERING AL-AZHAR  
COLLEGE OF ENGINEERING AND TECHNOLOGY,  
THODUPUZHA HAS SUCCESSFULLY COMPLETED HIS 10  
DAYS INTERNSHIP IN KSRTC, THODUPUZHA FROM  
25.04.2022 TO 14.05.2022.

DURING THE PERIOD OF HIS INTERNSHIP WITH US HE WAS  
FOUND PUNCTUAL HARDWORKING AND INQUISITIVE



  
PRINCIPAL  
DISTRICT TRANSPORT OFFICE of Engineering & Technology  
KSRTC, THODUPUZHA