

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103**

**CONSOLIDATED INTERNSHIP DETAILS FOR THE PERIOD OF ODD / EVEN SEM 2023 / 20 24**

**Department : INFORMATION TECHNOLOGY**

**Academic Year:2023-2024**

S.No	Name of the student	Sem/Year	Name of the Industry	Contact Person Details	Period	#Type of Training
1	Mohamed Afsar.M	VIII/IV	Shiash Info Solution Private Limited	Ashwin Kanniyappan	March 2023 to May 2023	Python
2	Seyed Ahamed Ifthh	V/III	Zohotech's Placement Services	Nandhineee.S	July2023 to July 2023	Java with Angular UI Development
3	Ashik Ahamed.N	V/III	Zohotech's Placement Services	Nandhineee.S	July2023 to July 2023	Java with Angular UI Development
4	Sadhman Hussain.J	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
5	sahana Serin.H	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
6	Sarath.S	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
7	Sathish Kumar.D	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
8	Shahul Hamed.S.N	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
9	Sri Balaji.S	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
10	Srithar.S	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
11	Khaja Nawaz	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
12	YuvaRaj.K	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
13	Shameel Ahamed	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
14	Rafiudeen	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
15	Prajesh Ram	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
16	Samsan.N	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
17	Mohammed Owaiz	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
18	Mohamed Vasim.G	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
19	Mohammed Syed Ibr	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
20	Sumesh.M	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
21	Kalaiselvan.R	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
22	Vishal.K.H	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
23	Imran.T	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
24	Harish.R	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
25	Mohamed Farhaan.U	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
26	Ganapathi.M	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
27	Abdul Basith Ahame	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
28	Basim.S	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
29	Basurdeen Ahmed.N	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
30	Dwaraka.J.S	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
31	Abdul Razaq.U	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
32	Vengadesan.G	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	COVID Vaccination Booking Web Applicat
33	Rehana Khanm.A	V/III	Thermodyn Edutech	Nandhineee.S	5 July2023 to 29 July 2023	Java with Angular UI Development
34	Mugilan.M	V/III	Thermodyn Edutech	Nandhineee.S	6 July2023 to 29 July 2023	Java with Angular UI Development

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Sarai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103

35	Manikanadan.P	V/III	Thermodyn Edutech	Nandhineee.S	7 July2023 to 29 July 2023	Digital Library Website
36	Mohamed Mujammi	V/III	Zohotech's Placement Services	Nandhineee.S	3July2023 to 20 July 2023	Java with Angular UI Development
37	Junaith Akther.A	V/III	Zohotech's Placement Services	Nandhineee.S	3July2023 to 20 July 2024	Java with Angular UI Development
38	Mohamed Kalith.A	V/III	Zohotech's Placement Services	Nandhineee.S	3July2023 to 20 July 2025	Java with Angular UI Development
39	Aadil Hathim.A	V/III	Zohotech's Placement Services	Nandhineee.S	3July2023 to 20 July 2026	Java with Angular UI Development
40	Mohamed Harshath	V/III	Zohotech's Placement Services	Nandhineee.S	3July2023 to 20 July 2027	Java with Angular UI Development
41	Dhanusiya.M	V/III	Zohotech's Placement Services	Nandhineee.S	3July2023 to 20 July 2028	Java with Angular UI Development
42	Prarthana.B	V/III	Zohotech's Placement Services	Nandhineee.S	3July2023 to 20 July 2029	Java with Angular UI Development
43	A.Akshaya	V/III	Zohotech's Placement Services	Nandhineee.S	3July2023 to 20 July 2030	Java with Angular UI Development
44	Durga Devi.K	V/III	Zohotech's Placement Services	Nandhineee.S	3July2023 to 20 July 2031	Java with Angular UI Development
45	Abiramasundari.M	V/III	NLC India Limited	Nandhineee.S	26 june 2023 to 22 july2023	Web Based IT Asset Management System
46	Nishad Nazeer.N	V/III	Zohotech's Placement Services	Nandhineee.S	3July2023 to 20 July 2023	Java with Angular UI Development
47	Nithya Sree.G	V/III	Zohotech's Placement Services	Nandhineee.S	3July2023 to 20 July 2023	Java with Angular UI Development
48	Mohamed Yasir.S	V/III	Zohotech's Placement Services	Nandhineee.S	3July2023 to 20 July 2023	Java with Angular UI Development
49	Muhammad Hafiz.S.	V/III	Zohotech's Placement Services	Nandhineee.S	3July2023 to 20 July 2023	Java with Angular UI Development

Supporting Documets Reqr 1. Copy of Communication letters/Mail

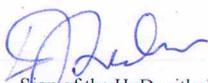
2. Copy of Certificate issued by Industry

#Type of Training: Service/Product/Software/Tools/Management Based

Faculty Coordinator

Format No : PLA-10

Rev.No.: 1.0

  
Sign of the HoD with date

Rev. Date: 04.01.21

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.T.IMRAN**  
**Reg.No: 311821205018** pursuing Bachelor of Information Technology in  
Mohamed Sathak AJ College of Engineering, Chennai has successfully  
completed an Internship from 05/07/2023 TO 29/07/2023. During this period  
his character and conduct was good.



For THERMODYN EDUTECH

Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**

# ZOHOTECH'S

Training & Placement Services

## Certificate of Completion

FULL STACK- JAVA WITH ANGULAR CERTIFIED  
DEVELOPER

We hereby certify that **Durga devi.K (Reg.No 311821205012)** pursuing his/her **BE-IT** at **Mohamed Sathak A.J. College of Engineering Chennai** successfully completed his/her internship in our organization, the period of internship is from **July 03-2023 to July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

Nandhinee S

Director of Training.

Zohotech's Services.

**PRINCIPAL**  
**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**

Zohotech's Placement Services

No.44 1st Floor, Mahalakshmi Nagar, Kanchipuram High Road, Chengalpet 603101.

Email: [info@zohotechs.com](mailto:info@zohotechs.com) Phone: +91 85085 85683



# THERMODYN EDUTECH

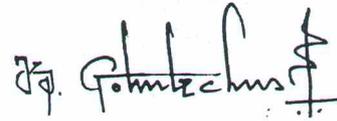
Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.K.H.VISHAL**  
**Reg.No: 311821106024** pursuing Bachelor of Information Technology in  
Mohamed Sathak AJ College of Engineering, Chennai has successfully  
completed an Internship from 05/07/2023 TO 29/07/2023. During this period  
his character and conduct was good.



For THERMODYN EDUTECH

  
  
Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**



# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.R.KALAISELVAN, Reg.No: 311821205020**, pursuing Bachelor of Information Technology in Mohamed Sathak AJ College of Engineering, Chennai has successfully completed an Internship from 05/07/2023 TO 29/07/2023. During this period his character and conduct was good.



For THERMODYN EDUTECH

   
Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**



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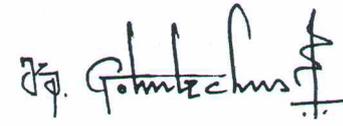
Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.M.SUMESH Reg.No: 311821205059** pursuing Bachelor of Information Technology in Mohamed Sathak AJ College of Engineering, Chennai has successfully completed an Internship from 05/07/2023 TO 29/07/2023. During this period his character and conduct was good.



For THERMODYN EDUTECH

   
Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**



Training & Placement Services

## Certificate of Completion

FULL STACK JAVA WITH ANGULAR CERTIFIED DEVELOPER

We hereby certify that **MOHAMED MUJAMMIL.M** (Reg.No **311821205028**) pursuing his/her **BE-IT** at **Mohamed Sathak A.J. College of Engineering Chennai** successfully completed his/her internship in our organization, the period of internship is from **July 03-2023 to July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

Nandhinee S

Director of Training.

Zohotech's Services.

**PRINCIPAL**  
**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**

Zohotech's Placement Services

No.44 1st Floor, Mahalakshmi Nagar, Kanchipuram High Road, Chengalpet 603101.

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# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.P.MANIKANADAN Reg.No: 311821205023** pursuing Bachelor of Information Technology in Mohamed Sathak AJ College of Engineering, Chennai has successfully completed an Internship from 05/07/2023 TO 29/07/2023. During this period his character and conduct was good.



For THERMODYN EDUTECH

   
Director

PRINCIPAL  
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING  
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park  
Chennai-603 103.



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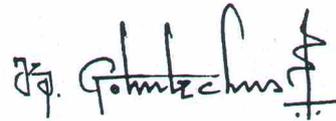
Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.MOHAMMED SYED IBRAHIM**  
**Reg.No: 311821205030** pursuing Bachelor of Information Technology in  
Mohamed Sathak AJ College of Engineering, Chennai has successfully  
completed an Internship from 05/07/2023 TO 29/07/2023. During this period  
his character and conduct was good.



For THERMODYN EDUTECH

   
Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**



# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.MOHAMED VASIM . G**  
**Reg.No: 311821205031** pursuing Bachelor of Information Technology in  
Mohamed Sathak AJ College of Engineering, Chennai has successfully  
completed an Internship from 05/07/2023 TO 29/07/2023. During this period  
his character and conduct was good.



For THERMODYN EDUTECH

Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**



Training & Placement Services

## Certificate of Completion

FULL STACK - JAVA WITH ANGULAR CERTIFIED  
DEVELOPER

We hereby certify that **SEYED AHAMED IFTHIKAR . MJ (Reg.No 311821205055)** pursuing his/her **BE-IT** at **Mohamed Sathak A.J. College of Engineering Chennai** successfully completed his/her internship in our organization, the period of internship is from **July 03-2023 to July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

Nandhinee S

Director of Training.

Zohotech's Services.

PRINCIPAL  
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING  
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park  
Chennai-603 103  
Zohotech's Placement Services

No.44 1st Floor, Mahalakshmi Nagar, Kanchipuram High Road, Chengalpet 603101.

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# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.M.MOHAMMED OWAIZ**  
**Reg.No: 311821105035** pursuing Bachelor of Information Technology in  
Mohamed Sathak AJ College of Engineering, Chennai has successfully  
completed an Internship from 05/07/2023 TO 29/07/2023. During this period  
his character and conduct was good.



For THERMODYN EDUTECH

   
Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**



# THERMODYN EDUTECH

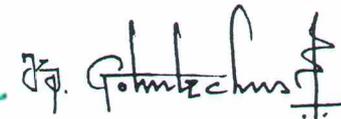
Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.M.MUGILAN, Reg.No: 311821205037**, pursuing Bachelor of Information Technology in Mohamed Sathak AJ College of Engineering, Chennai has successfully completed an Internship from 05/07/2023 TO 29/07/2023. During this period his character and conduct was good.



For THERMODYN EDUTECH

   
Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**



Training & Placement Services

## Certificate of Completion

FULL STACK- JAVA WITH ANGULAR CERTIFIED  
DEVELOPER

We hereby certify that **Ashik Ahamed.N (Reg.No 311821205008)** pursuing his/her **BE-IT** at **Mohamed Sathak A.J. College of Engineering Chennai** successfully completed his/her internship in our organization, the period of internship is from **July 03-2023 to July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

Nandhinee S

Director of Training.

Zohotech's Services.

**PRINCIPAL**  
**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**

Zohotech's Placement Services

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# ZOHOTECH'S

Training & Placement Services

## Certificate of Completion

FULL STACK-JAVA WITH ANGULAR CERTIFIED  
DEVELOPER

We hereby certify that **N.Nishad Nazeer (Reg.No 311821205040)** pursuing his/her **BE-IT** at **Mohamed Sathak A.J. College of Engineering Chennai** successfully completed his/her internship in our organization, the period of internship is from **July 03-2023 to July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

Nandhinee S

Director of Training.

Zohotech's Services.

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**

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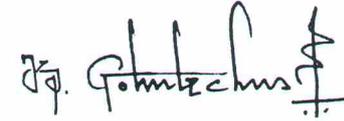
Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.N.SAMSAN**  
**Reg.No: 311821205051** pursuing Bachelor of Information Technology in  
Mohamed Sathak AJ College of Engineering, Chennai has successfully  
completed an Internship from 05/07/2023 TO 29/07/2023. During this period  
his character and conduct was good.



For THERMODYN EDUTECH

   
Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**

# ZOHOTECH'S

Training & Placement Services

## Certificate of Completion

FULL STACK-JAVA WITH ANGULAR CERTIFIED  
DEVELOPER

We hereby certify that **G.Nithya sree (Reg.No 311821205041)** pursuing his/her **BE-IT** at **Mohamed Sathak A.J. College of Engineering Chennai** successfully completed his/her internship in our organization, the period of internship is from **July 03-2023 to July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

Nandhinee S

Director of Training.

Zohotech's Services. **PRINCIPAL**

**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
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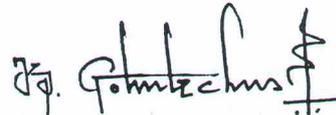
Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.V.PRAJESH RAM Reg.No: 311821205043** pursuing Bachelor of Information Technology in Mohamed Sathak AJ College of Engineering, Chennai has successfully completed an Internship from 05/07/2023 TO 29/07/2023. During this period his character and conduct was good.



For THERMODYN EDUTECH

  
  
Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**



# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.RAFIUDEEN**  
**Reg.No: 311821205045** pursuing Bachelor of Information Technology in  
Mohamed Sathak AJ College of Engineering, Chennai has successfully  
completed an Internship from 05/07/2023 TO 29/07/2023. During this period  
his character and conduct was good.



For THERMODYN EDUTECH

   
Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**

# ZOHOTECH'S

Training & Placement Services

## Certificate of Completion

FULL STACK- JAVA WITH ANGULAR CERTIFIED  
DEVELOPER

We hereby certify that **MOHAMED YASIR . S (Reg.No 311821205033)** pursuing his/her **BE-IT** at **Mohamed Sathak A.J. College of Engineering Chennai** successfully completed his/her internship in our organization, the period of internship is from **July 03-2023 to July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

Nandhinee S

Director of Training.

Zohotech's Services.



**PRINCIPAL**  
**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
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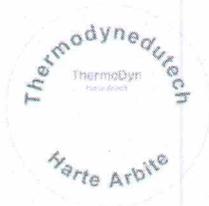


# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.S.SHAMEEL AHAMED Reg.No: 311821205056** pursuing Bachelor of Information Technology in Mohamed Sathak AJ College of Engineering, Chennai has successfully completed an Internship from 05/07/2023 TO 29/07/2023. During this period his character and conduct was good.



For THERMODYN EDUTECH

Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**



Training & Placement Services

## Certificate of Completion

FULL STACK- JAVA WITH ANGULAR CERTIFIED DEVELOPER

We hereby certify that **Muhammad hafiz S.H (Reg.No 311821205038)** pursuing his/her **BE-IT** at **Mohamed Sathak A.J. College of Engineering Chennai** successfully completed his/her internship in our organization, the period of internship is from **July 03-2023 to July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

Nandhinee S

Director of Training

Zohotech's Services.

PRINCIPAL  
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING  
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park  
Chennai-603 103.  
Zohotech's Placement Services

No.44 1st Floor, Mahalakshmi Nagar, Kanchipuram High Road, Chengalpet 603101.

Email: [info@zohotechs.com](mailto:info@zohotechs.com) Phone: +91 85085 85683



# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.SADHAM HUSSAIN.J**  
**Reg.No: 311821205049** pursuing Bachelor of Information Technology in  
Mohamed Sathak AJ College of Engineering, Chennai has successfully  
completed an Internship from 05/07/2023 TO 29/07/2023. During this period  
his character and conduct was good.



For THERMODYN EDUTECH

  
  
Director

PRINCIPAL  
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING  
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park  
Chennai-603 103.



# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.SAHANA SERIN.H**  
**Reg.No: 311821205050** pursuing Bachelor of Information Technology in  
Mohamed Sathak AJ College of Engineering, Chennai has successfully  
completed an Internship from 05/07/2023 TO 29/07/2023. During this period  
his character and conduct was good.



For THERMODYN EDUTECH

Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**



# THERMODYN EDUTECH

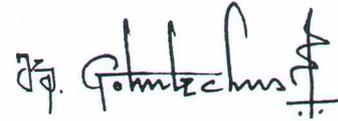
Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.S.SARATH**  
**Reg.No: 311821205053** pursuing Bachelor of Information Technology in  
Mohamed Sathak AJ College of Engineering, Chennai has successfully  
completed an Internship from 05/07/2023 TO 29/07/2023. During this period  
his character and conduct was good.



For THERMODYN EDUTECH

   
Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**

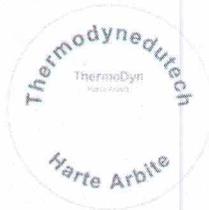


# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.SATHISH KUMAR .D**  
**Reg.No: 311821205054** pursuing Bachelor of Information Technology in  
Mohamed Sathak AJ College of Engineering, Chennai has successfully  
completed an Internship from 05/07/2023 TO 29/07/2023. During this period  
his character and conduct was good.



For THERMODYN EDUTECH

Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**

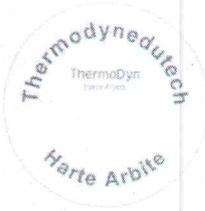


# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.SHAHUL HAMED S.N**  
**Reg.No: 311821205304** pursuing Bachelor of Information Technology in  
Mohamed Sathak AJ College of Engineering, Chennai has successfully  
completed an Internship from 05/07/2023 TO 29/07/2023. During this period  
his character and conduct was good.



For THERMODYN EDUTECH

Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**



# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.S.SRI BALAJI Reg.No: 311821205057** pursuing Bachelor of Information Technology in Mohamed Sathak AJ College of Engineering, Chennai has successfully completed an Internship from 05/07/2023 TO 29/07/2023. During this period his character and conduct was good.



For THERMODYN EDUTECH

Director

PRINCIPAL  
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING  
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park  
Chennai-603 103.

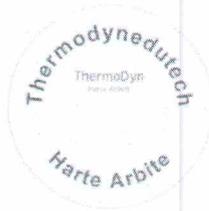


# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.S.SRITHAR Reg.No: 311821205058** pursuing Bachelor of Information Technology in Mohamed Sathak AJ College of Engineering, Chennai has successfully completed an Internship from 05/07/2023 TO 29/07/2023. During this period his character and conduct was good.



For THERMODYN EDUTECH

Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**



# THERMODYN EDUTECH

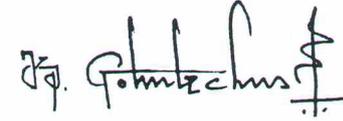
Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.G.VENGADESAN Reg.No: 311821205060** pursuing Bachelor of Information Technology in Mohamed Sathak AJ College of Engineering, Chennai has successfully completed an Internship from 05/07/2023 TO 29/07/2023. During this period his character and conduct was good.



For THERMODYN EDUTECH

   
Director

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
**34, Rajiv Gandhi Road (OMR), Siruseri, IT Park**  
**Chennai-603 103.**

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103**  
**CONSOLIDATED INTERNSHIP FOR THE ACADEMIC YEAR - 2023 / 2024**  
**Department of Electronics and Communication Engineering**

S.No	Comapny name	Subject code & Subjects name related to the Internship
1	NLC INDIA LIMITED	BE8255 - Basic Electrical,Electronics & Measurement Engineering
2	ZOHO TECH'S	CS8251 - Programming in C
3	ZOHO TECH'S	CS8251 - Programming in C
4	THERMODYN EDUTECH	MG8591 - Principles of Management
5	UNICONVERGE Technologies Pvt Ltd	IT8601 - Computational Intelligence
6	Exposys Data Labs	CS8251 - Programming in C
7	ZOHO TECH'S	CS8251 - Programming in C
8	ZOHO TECH'S	CS8251 - Programming in C
9	Intern Pe	IT8501 - Web Technology
10	ZOHO TECH'S	CS8251 - Programming in C
11	ZOHO TECH'S	CS8251 - Programming in C
12	ZOHO TECH'S	CS8251 - Programming in C
13	THERMODYN EDUTECH	MG8591 - Principles of Management
14	THERMODYN EDUTECH	MG8591 - Principles of Management
15	Lenovo	EC8252 - Electron Devices
16	Lenovo	EC8252 - Electron Devices
17	Lenovo	EC8252 - Electron Devices
18	Lenovo	EC8252 - Electron Devices
19	Lenovo	EC8252 - Electron Devices
20	Lenovo	EC8252 - Electron Devices
21	Lenovo	EC8252 - Electron Devices

  
**PRINCIPAL**  
 Mohamed Sathak A.J. College of Engineering  
 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.

# Certificate of Internship

*This certificate is presented to*

**Assifa A**

in recognition of his/her efforts and achievements for successfully completing the internship program in

## Internet Of Things

from 15th JUNE 2023 to 30th JULY 2023.

We wish him/her best of luck for all the future endeavours



  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Authorized Signatory

Issue Date: 1st AUGUST 2023

Certification ID: USC318643TIA

1.3.2 Internship  
ECE



# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Mr.SYED AFRID**  
**Reg.No: 311821106035** pursuing Bachelor of Electronics and Communication Engineering in Mohamed Sathak AJ College of Engineering, Chennai has successfully completed an Internship from 05/07/2023 TO 29/07/2023. During this period his character and conduct was good.



For THERMODYN EDUTECH

Director

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Ms.G.SOWNDHARYA**  
**Reg.No: 311821106031** pursuing Bachelor of Electronics and Communication  
Engineering in Mohamed Sathak AJ College of Engineering, Chennai has  
successfully completed an Internship from 05/07/2023 TO 29/07/2023. During  
this period his character and conduct was good.



For THERMODYN EDUTECH

Director

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



Training & Placement Services

## Certificate of Completion

We hereby certify that Safia farheen ZR (Reg.No 311821106027) pursuing his/her BE-ECE at Mohamed Sathak A.J. College of Engineering Chennai successfully completed his/her internship in our organization, the period of internship is from **July 03-2023 to July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

Nandhinee S

Director of Training,  
Zohotech's Services.

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Zohotech's Placement Services

No.44 1st Floor, Mahalakshmi Nagar, Kanchipuram High Road, Chengalpet 603101.

Email: [info@zohotechs.com](mailto:info@zohotechs.com) Phone: +91 85085 85683



Training & Placement Services

## Certificate of Completion

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING FOR CERTIFIED  
BE-ECE - 19

We hereby certify that **S.Pavithra (Reg.No 311821106025)** pursuing his/her **BE-ECE** at **Mohamed Sathak A.J. College of Engineering Chennai** successfully completed his/her internship in our organization, the period of internship is from **July 03-2023** to **July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

---

**Nandhinee S**  
Director of Training.  
Zohotech's Services.

**PRINCIPAL**

**Mohamed Sathak A.J. College of Engineering**  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**Zohotech's Placement Services**

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Email: [info@zohotechs.com](mailto:info@zohotechs.com) Phone: +91 85085 85683



Training & Placement Services

## Certificate of Completion

We hereby certify that **S.Chithra (Reg.No 311821106007)** pursuing his/her **BE-ECE** at **Mohamed Sathak A.J. College of Engineering Chennai** successfully completed his/her internship in our organization, the period of internship is from **July 03-2023 to July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

---

**Nandhinee S**

Director of Training.  
Zohotech's Services.

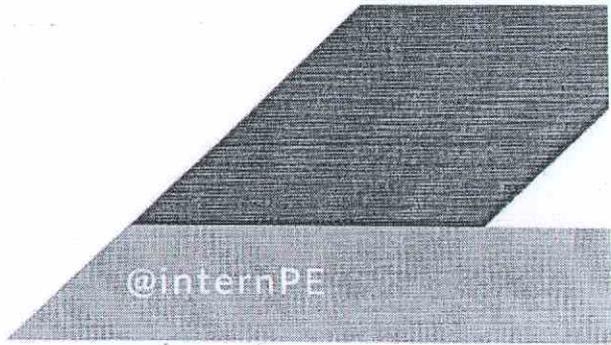
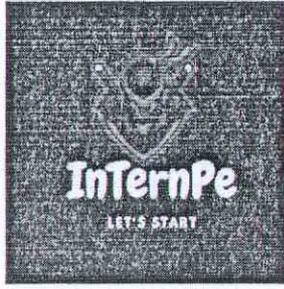
**PRINCIPAL**

**Mohamed Sathak A.J. College of Engineering**  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**Zohotech's Placement Services**

No.44 1st Floor, Mahalakshmi Nagar, Kanchipuram High Road, Chengalpet 603101.

Email: [info@zohotechs.com](mailto:info@zohotechs.com) Phone: +91 85085 85683



# COMPLETION CERTIFICATE

**CID : IPIA#2641**

To whomever it may concern

This is to certify that **Poosathishkumar M** worked as an Intern in our company from **24-July-2023 to 20-Aug-2023**.

Please find the internship details below:

**Company Name:** InternPe  
**Location:** Remote  
**Domain:** Web Development  
**Designation:** Intern

During their working period, we found him/her to be a sincere and dedicated intern with a professional attitude and very good knowledge of the job.

We thank him/her for their efforts and contribution and wish him/her the best in future endeavors.

Yours Sincerely

  
(Co-Founder)  
InternPe

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603183.



Registered By MSME 



Training & Placement Services

## Certificate of Completion

ASMA FATHIMA.P.T (Reg.No 311821106005)  
IS SUCCESSFULLY COMPLETED HIS/HER INTERNSHIP IN OUR ORGANIZATION

We hereby certify that **Asma Fathima.P.T (Reg.No 311821106005)** pursuing his/her **BE-ECE** at **Mohamed Sathak A.J. College of Engineering Chennai** successfully completed his/her internship in our organization, the period of internship is from **July 03-2023 to July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

---

**Nandhinee S**  
Director of Training.  
Zohotech's Services.



**PRINCIPAL**

**Mohamed Sathak A.J. College of Engineering**  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**Zohotech's Placement Services**

No.44 1st Floor, Mahalakshmi Nagar, Kanchipuram High Road, Chengalpet 603101.

Email: [info@zohotechs.com](mailto:info@zohotechs.com) Phone: +91 85085 85683



Training & Placement Services

## Certificate of Completion

THIS IS TO CERTIFY THAT THE FOLLOWING PERSON IS A SUCCESSFUL INTERNSHIP  
COMPLETION

We hereby certify that N.I Mohamed Yahya (Reg.No 311821106019) pursuing his/her BE-ECE at Mohamed Sathak A.J. College of Engineering Chennai successfully completed his/her internship in our organization, the period of internship is from. July 03-2023 to July 20-2023. His/her has shown keen interest in Java with Angular UI Development. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

Nandhinee S

Director of Training.

Zohotech's Services.

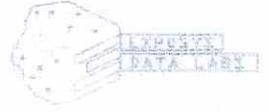
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Zohotech's Placement Services

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Email: [info@zohotechs.com](mailto:info@zohotechs.com) Phone: +91 85085 85683



## Certificate of Internship

### TO WHOM IT MAY CONCERN

This is to certify that **Mr. K SHAHRUKH FAKRUDEEN** has completed internship programme on “**Web Developer**” from 08.04.2023 to 07.05.2023.

He took keen interest in the work assigned and successfully completed it. During the period of internship, we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan

Chief Director

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



hr@exposysdata.com  
www.exposysdata.com



# THERMODYN EDUTECH

Date: 29.07.2023

## TO WHOM EVER IT MAY CONCERN

This is to certify that **Ms.K.NANDHINI**  
**Reg.No: 311821106024** pursuing Bachelor of Electronics and Communication Engineering in Mohamed Sathak AJ College of Engineering, Chennai has successfully completed an Internship from 05/07/2023 TO 29/07/2023. During this period his character and conduct was good.



For THERMODYN EDUTECH

Director

**PRINCIPAL**

**Mohamed Sathak A.J. College of Engineering**  
**No.34, Rajiv Gandhi Salai (OMR)**  
**Sipcot - IT Highway Egattur,**  
**Chennai - 603103.**



Training & Placement Services

## Certificate of Completion

THIS CERTIFICATE IS VALID ONLY IF SIGNED AND STAMPED BY THE AUTHORIZED PERSONNEL

We hereby certify that **Humaira Nusrath (Reg.No 311821106013)** pursuing his/her **BE-ECE** at **Mohamed Sathak A.J. College of Engineering Chennai** successfully completed his/her internship in our organization, the period of internship is from **July 03-2023 to July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

---

**Nandhinee S**

Director of Training.

Zohotech's Services.

**PRINCIPAL**

**Mohamed Sathak A.J. College of Engineering**  
No.34, Rajiv Gandhi Salai (GMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**Zohotech's Placement Services**

No.44 1st Floor, Mahalakshmi Nagar, Kanchipuram High Road, Chengalpeta 603101.

Email: [info@zohotechs.com](mailto:info@zohotechs.com) Phone: +91 85085 85683



Training & Placement Services

## Certificate of Completion

We hereby certify that **Bhavani.H (Reg.No 311821106006)** pursuing his/her **BE-ECE** at **Mohamed Sathak A.J. College of Engineering Chennai** successfully completed his/her internship in our organization, the period of internship is from **July 03-2023 to July 20-2023**. His/her has shown keen interest in **Java with Angular UI Development**. His/her attendance and conduct was good during the training period.

We wish his/her all the best towards his/her academic and professional career.

*Nandhinee S*

---

**Nandhinee S**

Director of Training.

Zohotech's Services.

**PRINCIPAL**

**Mohamed Sathak A.J. College of Engineering**  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Zohotech's Placement Services

No.44 1st Floor, Mahalakshmi Nagar, Kanchipuram High Road, Chengalpet 603101.

Email: [info@zohotechs.com](mailto:info@zohotechs.com) Phone: +91 85085 85683



NLC INDIA LIMITED  
("NAVRATNA"—A GOVERNMENT OF INDIA ENTERPRISE)  
NEYVELI - 607 862, TAMIL NADU

CERTIFICATE

This is to certify that  
**ABINAYA V**

Studying BACHELOR OF ENGINEERING in  
ELECTRONICS AND COMMUNICATION at

MOHAMED SATHAK A J COLLEGE OF ENGINEERING,  
SIRUSERI, CHENNAI

Has undergone Internship Training on  
"STUDY OF TELECOMMUNICATION BASICS".

During the period from 22.06.2023 to 19.07.2023 at

THERMAL POWER STATION - II EXPANSION  
NLC INDIA LIMITED, NEYVELI

DATE: 19.07.2023  
PLACE: NEYVELI

19.7.23  
CHIEF MANAGER  
LEARNING AND DEVELOPMENT CENTRE

NLC INDIA LIMITED,

Chief Manager  
Learning & Development Centre  
NLC India Limited, Neyveli-3.

*Training adding Value to life*

  
PRINCIPAL

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Sthal (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Lenovo.com

Registered Office:  
Lenovo (India) Private Limited  
RBD Icon, Level-2, Doddenakundi Village  
Marathahalli Outer Ring Road  
Bangalore - 560 037, Karnataka, India.  
Office 91 80 6826 3000  
Fax 91 80 6826 3003  
CIN No. - U72900KA2005PTC035783

Regional Office:  
Lenovo (India) Private Limited  
RS19/1A-2A, Edayarpalayam Village  
Cuddalore Main Road, Thavalakuppam  
Pondicherry - 605 007.  
LIN No. 1-8575-8707-2  
Office 91 413 2619 400  
Fax 91 413 2619 428

Lenovo

09.06.2023

### CERTIFICATE OF IN-PLANT TRAINING

This is to certify that **Mr. MOHAMMED RIYAZ J** student at **MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING** has undergone **5 DAYS** In-Plant Training in Manufacturing Operations during the month of **May'2023**.

He has displayed professional acumen during the period of In-plant Training and we appreciate his interest in learning.

We wish him all success in his future endeavours.

For Lenovo (India) Pvt. Ltd.

Authorized Signatory



  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (Old)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Lenovo.com

Registered Office:  
Lenovo (India) Private Limited  
RBD Icon, Level-2, Doddenakundi Village  
Marathahalli Outer Ring Road  
Bangalore - 560 037, Karnataka, India.  
Office 91 80 6826 3000  
Fax 91 80 6826 3003  
CIN No. - U72900KA2005PTC035783

Regional Office:  
Lenovo (India) Private Limited  
RS19/1A-2A, Edayarpalayam Village  
Cuddalore Main Road, Thavalakuppam  
Pondicherry - 605 007.  
LIN No. 1-8575-8707-2  
Office 91 413 2619 400  
Fax 91 413 2619 428

Lenovo

09.06.2023

### CERTIFICATE OF IN-PLANT TRAINING

This is to certify that **Mr. KARANRAJ R** student at **MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING** has undergone **9 DAYS** In-Plant Training in Manufacturing Operations during the month of **May'2023**.

He has displayed professional acumen during the period of In-plant Training and we appreciate his interest in learning.

We wish him all success in his future endeavours.

For Lenovo (India) Pvt. Ltd.



**PRINCIPAL**

**Mohamed Sathak A.J. College of Engineering**  
**No.34, Rajiv Gandhi Salai (OMR)**  
**Sipcot - IT Highway Egattur,**  
**Chennai - 603103.**

Authorized Signatory



Lenovo.com

Registered Office:  
Lenovo (India) Private Limited  
RBD Icon, Level-2, Doddenakundi Village  
Marathahalli Outer Ring Road  
Bangalore - 560 037, Karnataka, India.  
Office 91 80 6826 3000  
Fax 91 80 6826 3003  
CIN No. - U72900KA2005PTC035783

Regional Office:  
Lenovo (India) Private Limited  
RS19/1A-2A, Edayarpalayam Village  
Cuddalore Main Road, Thavalakuppam  
Pondicherry - 605 007.  
LIN No. 1-8575-8707-2  
Office 91 413 2619 400  
Fax 91 413 2619 428



09.06.2023

### CERTIFICATE OF IN-PLANT TRAINING

This is to certify that **Mr. KARTHIK S** student at **MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING** has undergone **9 DAYS** In-Plant Training in Manufacturing Operations during the month of **May'2023**.

He has displayed professional acumen during the period of In-plant Training and we appreciate his interest in learning.

We wish him all success in his future endeavours.

For Lenovo (India) Pvt. Ltd.

Authorized Signatory



  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

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Fax 91 80 6826 3003  
CIN No. - U72900KA2005PTC035783

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LIN No. 1-8575-8707-2  
Office 91 413 2619 400  
Fax 91 413 2619 428

09.06.2023

### CERTIFICATE OF IN-PLANT TRAINING

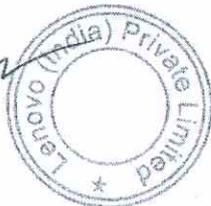
This is to certify that **Mr. MOHAMMED SABIR S** student at **MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING** has undergone **9 DAYS** In-Plant Training in Manufacturing Operations during the month of **May'2023**.

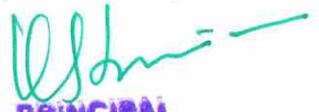
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For Lenovo (India) Pvt. Ltd.

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09.06.2023

### CERTIFICATE OF IN-PLANT TRAINING

This is to certify that **Mr. MOHAMED SUHAIL J** student at **MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING** has undergone **9 DAYS** In-Plant Training in Manufacturing Operations during the month of **May'2023**.

He has displayed professional acumen during the period of In-plant Training and we appreciate his interest in learning.

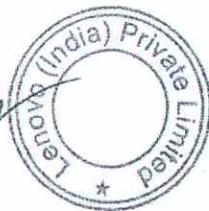
We wish him all success in his future endeavours.

For Lenovo (India) Pvt. Ltd.

**PRINCIPAL**

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09.06.2023

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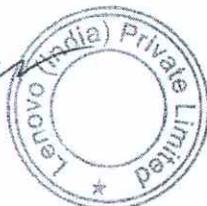
This is to certify that **Mr. MOHAMED THOUFIQ M** student at **MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING** has undergone **10 DAYS** In-Plant Training in Manufacturing Operations during the month of **May'2023**.

He has displayed professional acumen during the period of In-plant Training and we appreciate his interest in learning.

We wish him all success in his future endeavours.

For Lenovo (India) Pvt. Ltd.

Authorized Signatory



**PRINCIPAL**

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Office 91 413 2619 400  
Fax 91 413 2619 428

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07.07.2023

### CERTIFICATE OF IN-PLANT TRAINING

This is to certify that **Mr. YESHWANTH M** student at **MOHAMED SATHAK AJ COLLEGE OF ENGINEERING** has undergone In-Plant Training in Manufacturing Operations for the period from **06.06.2023** to **30.06.2023**.

He has displayed professional acumen during the period of In-plant Training and we appreciate his interest in learning.

We wish him all success in his future endeavours.

For Lenovo (India) Pvt. Ltd.



Authorized Signatory

  
**PRINCIPAL**

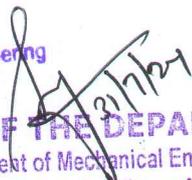
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Sipcot - IT Highway Egattur,  
Chennai - 603103.

**MOHAMED SATHAK A J COLLEGE OF ENGINEERING**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**1.3.2 Courses that include experiential learning through project work/field work/internship during 2023-24**

S.No	Comapny name	Subject code & Subjects name related to the Internship	Student Name
1	TANSAM	ME3681 CAD CAM Lab	AADIL T
2	TANSAM	ME3681 CAD CAM Lab	ABDUL KAFFAR J
3	TANSAM	ME3681 CAD CAM Lab	DHANUSH ADITHYA S
4	TANSAM	ME3681 CAD CAM Lab	HAJI PUTHUR MYDEEN . S
5	TANSAM	ME3681 CAD CAM Lab	HARI M
6	TANSAM	ME3681 CAD CAM Lab	MOHAMED ANSARI N
7	TANSAM	ME3681 CAD CAM Lab	MOHAMED FAZID S
8	TANSAM	ME3681 CAD CAM Lab	NARESH.P
9	TANSAM	ME3681 CAD CAM Lab	SEYED AHAMED S .T
10	TANSAM	ME3681 CAD CAM Lab	SHAIK IRFAN K
11	TANSAM	ME3681 CAD CAM Lab	SHAILESH KUMAR P
12	TANSAM	ME3681 CAD CAM Lab	UDHAYAKUMAR.G
13	TANSAM	ME3681 CAD CAM Lab	ABDUR RAHMAN J
14	TANSAM	ME3681 CAD CAM Lab	CHANDRU P
15	TANSAM	ME3681 CAD CAM Lab	MOHAMED ANWAR T A
16	TANSAM	ME3681 CAD CAM Lab	RASOOL MOHAMED I
17	TANSAM	ME3681 CAD CAM Lab	SHAMMER AHMED A
18	TANSAM	ME3681 CAD CAM Lab	SYED MOHAMMED S
19	TANSAM	ME3681 CAD CAM Lab	MOHAMED SAMEEM P
20	NIT Trichy	ME3382 MANUFACTURING TECH LAB ME3393 MANUFACTURING PROCESSES	DHANUSH ADITHYA S
21	NATIONAL INSTITUTE OF WIND ENERGY	CME365 RENEWABLE ENERGY TECHNOLOGY CE3391 FLUID MECHANICS AND MACHINERY	DHANUSH ADITHYA S
22	NIT Trichy	ME3681 CAD CAM Lab	SHAIK IRFAN K
23	FEDERAL MOGUL MOTOR PARTS PVT LTD	ME8691 COMPUTER AIDED DESIGN AND MANUFACTURING	M MOHAMED GOUSE NAGUTHA
24	SATTVA ENGINEERING CONSTRUCTION PVT LTD	GE8261 ENGINEERING PRACTICES LABORATORY	H MOHAMED MUFEED



  
**PRINCIPAL**  
 Mohamed Sathak A.J. College of Engineering  
 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103  
  
**HEAD OF THE DEPARTMENT**  
 Department of Mechanical Engineering  
 Mohamed Sathak A.J. college of Engineering  
 Siruseri IT Park, Chennai - 603103.

# MOHAMED SATHAK A J COLLEGE OF ENGINEERING

## DEPARTMENT OF MECHANICAL ENGINEERING

### 1.3.2. Courses that include experiential learning through project work/field work/internship during 2023-24

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4	TANSAM	ME3681 CAD CAM Lab	HAJI PUTHUR MYDEEN . S
5	TANSAM	ME3681 CAD CAM Lab	HARI M
6	TANSAM	ME3681 CAD CAM Lab	MOHAMED ANSARI N
7	TANSAM	ME3681 CAD CAM Lab	MOHAMED FAZID S
8	TANSAM	ME3681 CAD CAM Lab	NARESH.P
9	TANSAM	ME3681 CAD CAM Lab	SEYED AHAMED S .T
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12	TANSAM	ME3681 CAD CAM Lab	UDHAYAKUMAR.G
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24	SATTVA ENGINEERING CONSTRUCTION PVT LTD	GE8261 ENGINEERING PRACTICES LABORATORY	H MOHAMED MUFEED



*[Handwritten Signature]*  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103

*[Handwritten Signature]*  
**HEAD OF THE DEPARTMENT**  
Department of Mechanical Engineering  
Mohamed Sathak A.J. college of Engineering  
Siruseri IT Park, Chennai - 603103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



## DEPARTMENT OF MECHANICAL ENGINEERING

### 1.3.1 Institution integrates crosscutting issues relevant to Professional ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

S.No	Year (II,III,IV)	Sem	Name of Elective	Related to Professional ethics, Gender, Human Values, Environment and Sustainability
1	II	IV	GE3451 - Environmental Science and Sustainability	Environment and Sustainability
2	III	V	CME365 Renewable Energy Technologies	Environment and Sustainability
3	IV	VII	OMF751 - Lean Six Sigma	Human Values

  
**HEAD OF THE DEPARTMENT**

Department of Mechanical Engineering  
Mohamed Sathak A.J. college of Engineering  
Siruseri IT Park, Chennai - 603103.

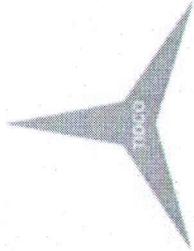


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No.34.Rajiv Gandhi Salai (OMR), SIRCOOT - IT Park  
Siruseri, Chennai - 603 103.



April 2024



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# Certificate of Completion

*Presented to*

This is to certify that AADIL T - 311821114001 of \_\_\_\_\_

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

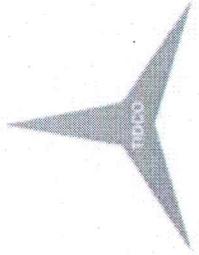
We wish him all success in his future endeavor.

Chief Operating Officer  
Advanced Manufacturing / Skill  
Enablement

**PRINCIPAL**  
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This is to certify that ABDUL KAFFAR J - 311821114002 of

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

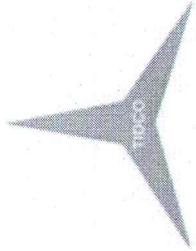
We wish him all success in his future endeavor.

Chief Operating Officer  
Advanced Manufacturing / Skill  
Enablement

**PRINCIPAL**  
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This is to certify that ABDUR RAHMAN J - 311821114301 of

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

**PRINCIPAL**

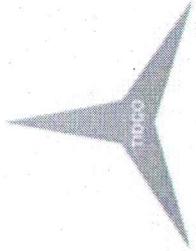
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*Presented to*

This is to certify that CHANDRUP - 311821114302 of

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

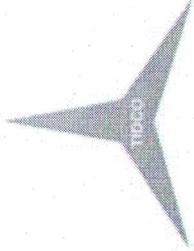
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This is to certify that DHANUSH ADITHYA.S - 311821114003 of

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

**PRINCIPAL**

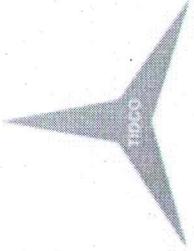
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This is to certify that HAJI PUDHUR MYDEEN S - 311821114005 of

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

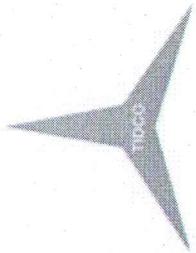
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This is to certify that HARI M - 311821114006 of \_\_\_\_\_

Mohamed Sathak AJ College of Engineering pursuing Department of B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

**PRINCIPAL**

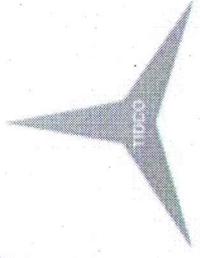
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Sipoot - IT Highway Egattur,  
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April 2024



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*Presented to*

This is to certify that MOHAMED ANSARIN - 311821114009 of

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

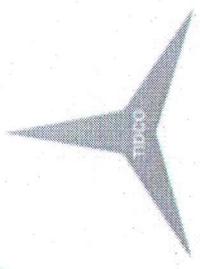
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*Presented to*

This is to certify that MOHAMED ANWAR T A - 311821114303 of

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

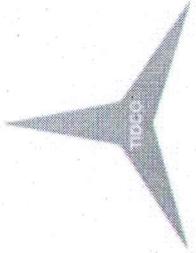
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*Presented to*

This is to certify that MOHAMED FAZID S - 311821114010 of

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on **NX CAD** in **TANSAM** during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

**PRINCIPAL**

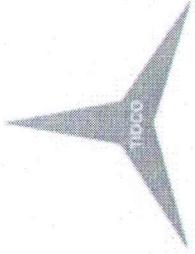
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
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*Presented to*

This is to certify that MOHAMED SAMEEM P - 311821114701 of

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
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We wish him all success in his future endeavor.

**PRINCIPAL**

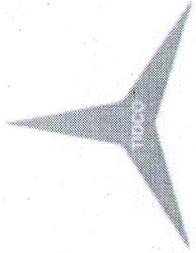
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# Certificate of Completion

*Presented to*

This is to certify that NARESH P - 311821114012 of \_\_\_\_\_

Mohamed Sathak AJ College of Engineering pursuing Department of B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

**PRINCIPAL**

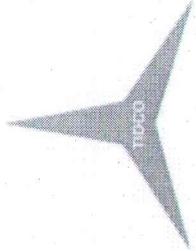
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Chief Operating Officer  
Advanced Manufacturing / Skill  
Enablement

Chief Executive Officer  
TANSAM



April 2024



TANSAM

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# Certificate of Completion

*Presented to*

This is to certify that RASOOL MOHAMED I - 311821114304 of

Mohamed Sathak AI College of Engineering pursuing Department of

B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

**PRINCIPAL**

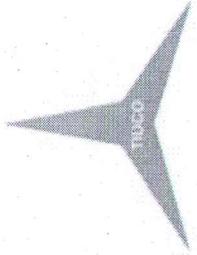
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This is to certify that SEYED AHAMED S.T - 311821114015 of

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

  
**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
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Chennai - 603103.



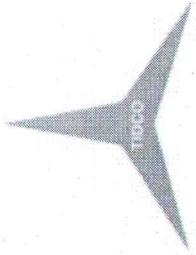
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This is to certify that SHAIK IRFAN K - 311821114016 of \_\_\_\_\_

Mohamed Sathak AJ College of Engineering pursuing Department of B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

**PRINCIPAL**  
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This is to certify that SHAILESH KUMAR P - 311821114017 of

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

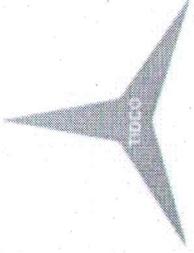
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This is to certify that SHAMEER AHMED. A - 311821114305 of

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B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

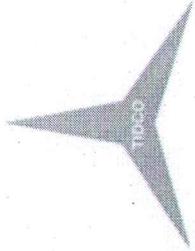
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*Presented to*

This is to certify that SYED MOHAMED - 311821114307 of

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

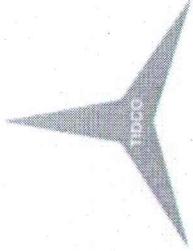
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*Presented to*

This is to certify that UDHAYAKUMAR - 311821114018 of

Mohamed Sathak AJ College of Engineering pursuing Department of  
B.E Mechanical Engineering, 3<sup>rd</sup> year has successfully completed the Internship  
Training Programme on NX CAD in TANSAM during 15<sup>th</sup> April – 22<sup>nd</sup> April, 2024.

We wish him all success in his future endeavor.

**PRINCIPAL**  
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Sipcot - IT Highway Egattur,  
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TANSAM



DEPARTMENT OF PRODUCTION ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI-620 015  
(TAMILNADU, INDIA)

Mob.: 08056615876 Tel:(0431) 2503501, 2503511 Fax: + 91(0431) 2500133 E-mail: hodprod@nitt.edu  
csathiya@nitt.edu

Dr. C.SATHIYA NARAYANAN  
PROFESSOR & HEAD

Date: 31/07/2024

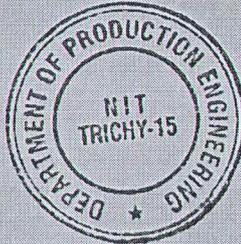
INTERNSHIP CERTIFICATE

This is to certify that **Mr. DHANUSH ADITHYA S** (Roll number: 311821114003), Final year B.E. student of Department of Mechanical Engineering, Mohamed Sathak A J College of Engineering carried out his Summer Internship project titled "**Incremental Forming Process of Sandwich sheets**" under my supervision during the period **01-06-2024 to 31-07-2024 (8 weeks)**.

The candidate had exposure to experiments and finite element simulations. He is dedicated, sincere and hardworking internship student and was keen in understanding the concepts, design and its analysis.

Supervisor

Dr.Satheeshkumar V



C. S. Thi. N. L.

Head of the Department

Dr.C.Sathiya Narayanan, M.E., Ph.D.,  
Professor & Head  
Department of Production Engineering  
National Institute of Technology (Govt. of India)  
Tiruchirappalli - 620 015, Tamil Nadu, India

PRINCIPAL

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



नीवे NIWE  
(ISO 9001 Certified)

# राष्ट्रीय पवन ऊर्जा संस्थान NATIONAL INSTITUTE OF WIND ENERGY

(पूर्व में "पवन ऊर्जा प्रौद्योगिकी केन्द्र" Formerly "Centre for Wind Energy Technology")  
(नवीन और नवीकरणीय ऊर्जा मंत्रालय, भारत सरकार Ministry of New and Renewable Energy, Government of India)

नीवे/अनुसंधान एवं विकास/ इंटरनशिप / 2023-24  
NIWE / R & D / Internship -43/ 2023-24

दिनांक : 31 जुलाई 2023  
Date: 31.07.2023

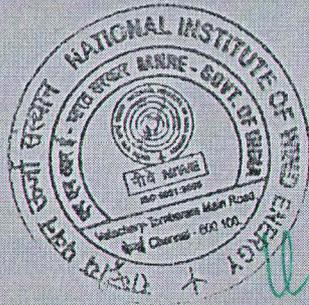
## सभी संबंधितों को TO WHOMSOEVER IT MAY CONCERN

यह प्रमाणित किया जाता है कि श्री/सुश्री/श्रीमती धनुष आदित्य.एस, बी.ई. (मैकेनिकल इंजीनियरिंग) (पंजीकरण सं 311821114003), मोहम्मद साथक ए.जे कॉलेज का इंजीनियरिंग, चेन्नई, ने राष्ट्रीय पवन ऊर्जा संस्थान में 30 जून 2023 से 31 जुलाई 2023 की अवधि में इंटरनशिप कार्यक्रम पूर्ण किया है तथा "पवन टरबाइन रोटर ब्लेड डिजाइन और विश्लेषण " विषय पर रिपोर्ट प्रस्तुत किया है

This is to Certify that **Shri / Ms. DHANUSH ADITHYA. S, B.E (Mechanical Engineering) (Reg.No: 311821114003)** Mohamed Sathak A.J. College of Engineering, Chennai, has completed an internship at National Institute of Wind Energy, Chennai from 30 June 2023 to 31 July 2023 and submitted a report on "**WIND TURBINE ROTOR BLADE DESIGN AND ANALYSIS**".

इंटरनशिप की अवधि में उन्होंने आवश्यक अनुशासन, सावधानी निरूपित किया है तथा इंटरनशिप पूर्ण करने हेतु आवश्यक कौशल में विशेषज्ञता प्रदर्शित की है।

During the course of internship, he demonstrated the required discipline, rigour and expertise over the skills required for the completion of this internship.



एम. सी. लावण्या  
M.C. LAVANYA

उप निदेशक (तकनीकी) एवं प्रकोष्ठ प्रमुख,  
अनुसंधान एवं विकास  
Deputy Director (Technical) &  
Unit Chief, R & D

PRINCIPAL

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur

वेलाचेरी - ताम्बरम मुख्य मार्ग, पल्लिकरणई, चेन्नई - 600 100. तमिल नाडु, भारत  
Velachery - Tambaram Main Road, Pallikaranai, Chennai - 600 100. Tamil Nadu, INDIA

दूरभाष/Tel No.: +91 - 44 - 2246 3982 / 83 / 84, +91 - 44 - 2900 1162 / 1167 / 1195

फैक्स/Fax No.: +91 - 44 - 2246 3980 / 2246 3990

ई-मेल/E-mail : info@niwe.res.in वेबसाइट/Website : http://niwe.res.in



DEPARTMENT OF MECHANICAL ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI 620015, TAMIL NADU, INDIA.

E-mail: rprakash@nitt.edu

Mobile: +91 9444810545

Dr. R. PRAKASH  
ASSISTANT PROFESSOR

July 30, 2024

Internship Certificate

To whomsoever it may concern

This is to certify that **Mr. Shaik Irfan K** is a student of Mohamed Sathak A.J College of Engineering, Chennai. He participated as a Summer Intern and worked on the topic of "**Experiment and Numerical Modal Analysis of Beam and Composite Plate**" for the period of June 1<sup>st</sup> to July 30<sup>th</sup> 2024.

During the internship period his character and conduct are good.

Thanks and regards,

R. PRAKASH

Dr. R. PRAKASH, Ph.D. (IITM)  
Assistant Professor  
Department of Mechanical Engineering  
National Institute of Technology  
Tiruchirappalli 620 015, Tamil Nadu, INDIA

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No.34, Rajiv Gandhi Salai (OMR)  
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Chennai - 603103.



Plot 42, B<sup>th</sup> Avenue  
DTA, Mahindra World city  
Chengalpattu Tk,  
Chengalpattu 603004  
Drv Com

18<sup>th</sup> August 2023

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that the following B.E (Mech) student from Mohamed Sathak AJ College of Engineering has successfully completed in-plant training (Intern) from 11<sup>th</sup> July to 12<sup>th</sup> August 2023 in our premises.

1. M Mohamed Ghouse Nagutha Roll No. 311820114008

The above student evinced keen interest in learning during his training period.

We wish them all success in their future endeavors.

For Federal-Mogul Motorparts (India) Limited,

N. Hariharasubramanian  
Manager – HR & Admin

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.24, Rajiv Gandhi Salai (OMR)  
Sipoot - IT Highway Egattur,  
Chennai - 603103.

Federal-Mogul Motorparts (India) Limited (Formerly Known as Federal-Mogul VSP (India) Limited)

Corporate Identity Number - U74899DL1994PLC057419

Tel : +91 44 27483777, Fax : +91 44 27460411

Regd Office : DLF Prime Towers, 10, Ground Floor, F-79 & 80, Okhla Phase -I, New Delhi -110020 Tel.&Fax : (91-11)49057597

# SATTVA

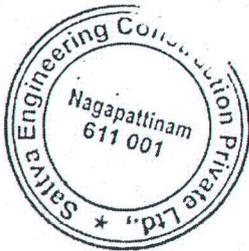
## SATTVA ENGINEERING CONSTRUCTION PRIVATE LIMITED

S. BALAKRISHNAN  
PROJECT MANAGER

DATE:26/02/2024

### TO WHOM IT MAY CONCERN

THIS IS TO CERTIFY THAT H. MOHAMED MUFEED (311820114311) S/O HAJA NAJUMUDEEN. STUDENT OF MOHAMED SATHAK A.J COLLEGE OF ENGINEERING, CHENNAI, FINAL YEAR BACHELOR OF MECHANICAL ENGINEERING HAS BEEN INTERNSHIP PROGRAM AS JUNIOR PLUMBING ENGINEER TRAINING FOR THE PAST DURING PERIOD OF (05<sup>TH</sup> FEB 2024 TO 21<sup>ST</sup> FEB 2024). HE WAS IN CHARGES OF HDPE & DI PIPE LAYING WORKS AND LEAK RECTIFYING ACTIVE'S. DURING THE TRAINING PERIOD, HE WAS GOOD IN TECHNICAL AREA OF EXECUTION. HE IS VERY HARD WORKING AND HONEST PERSON. WE WISH HIM ALL SUCCESS IN HIS CAREER.



S. BALAKRISHNAN  
PROJECT MANAGER  
SEC(P)LTD  
NAGAPATTINAM WSDS  
AMRUT 2.0

PRINCIPAL  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
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Chennai - 603103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



## GE3451 ENVIRONMENTAL SCIENCES AND SUSTAINABILITY

LT P C

2002

### OBJECTIVES:

- To introduce the basic concepts of environment, ecosystems and biodiversity and emphasize on the biodiversity of India and its conservation.
- To impart knowledge on the causes, effects and control or prevention measures of environmental pollution and natural disasters.
- To facilitate the understanding of global and Indian scenario of renewable and nonrenewable resources, causes of their degradation and measures to preserve them.
- To familiarize the concept of sustainable development goals and appreciate the interdependence of economic and social aspects of sustainability, recognize and analyze climate changes, concept of carbon credit and the challenges of environmental management.
- To inculcate and embrace sustainability practices and develop a broader understanding on green materials, energy cycles and analyze the role of sustainable urbanization.

### UNIT I ENVIRONMENT AND BIODIVERSITY 6

Definition, scope and importance of environment – need for public awareness. Eco-system and Energy flow– ecological succession. Types of biodiversity: genetic, species and ecosystem diversity– values of biodiversity, India as a mega-diversity nation – hot-spots of biodiversity – threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts – endangered and endemic species of India – conservation of biodiversity: In-situ and ex-situ.

### UNIT II ENVIRONMENTAL POLLUTION 6

Causes, Effects and Preventive measures of Water, Soil, Air and Noise Pollutions. Solid, Hazardous and E-Waste management. Case studies on Occupational Health and Safety Management system (OHASMS). Environmental protection, Environmental protection acts.

### UNIT III RENEWABLE SOURCES OF ENERGY 6

Energy management and conservation, New Energy Sources: Need of new sources. Different types new energy sources. Applications of- Hydrogen energy, Ocean energy resources, Tidal energy conversion. Concept, origin and power plants of geothermal energy.

### UNIT IV SUSTAINABILITY AND MANAGEMENT 6

Development, GDP, Sustainability- concept, needs and challenges-economic, social and aspects of sustainability-from unsustainability to sustainability-millennium development goals, and protocols- Sustainable Development Goals-targets, indicators and intervention areas Climate change- Global, Regional and local environmental issues and possible solutions-case studies. Concept of Carbon Credit, Carbon Footprint. Environmental management in industry-A case study.

### UNIT V SUSTAINABILITY PRACTICES 6

Zero waste and R concept, Circular economy, ISO 14000 Series, Material Life cycle assessment, Environmental Impact Assessment. Sustainable habitat: Green buildings, Green materials, Energy efficiency, Sustainable transports. Sustainable energy: Non-conventional Sources, Energy Cycles-



*Usha*  
**PRINCIPAL**  
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING  
34, Rajiv Gandhi Salai (OMR), SIPCOT - IT Park  
Siruseri, Chennai - 603 103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



carbon cycle, emission and sequestration, Green Engineering: Sustainable urbanization- Socio-economical and technological change.

**TOTAL : 30 PERIODS**

## OUTCOMES:

- To recognize and understand the functions of environment, ecosystems and biodiversity and their conservation.
- To identify the causes, effects of environmental pollution and natural disasters and contribute to the preventive measures in the society.
- To identify and apply the understanding of renewable and non-renewable resources and contribute to the sustainable measures to preserve them for future generations.
- To recognize the different goals of sustainable development and apply them for suitable technological advancement and societal development.
- To demonstrate the knowledge of sustainability practices and identify green materials, energy cycles and the role of sustainable urbanization.

## TEXT BOOKS:

1. Anubha Kaushik and C. P. Kaushik's "Perspectives in Environmental Studies", 6th Edition, New Age International Publishers ,2018.
2. Benny Joseph, 'Environmental Science and Engineering', Tata McGraw-Hill, New Delhi, 2016.
3. Gilbert M.Masters, 'Introduction to Environmental Engineering and Science', 2nd edition, Pearson Education, 2004.
4. Allen, D. T. and Shonnard, D. R., Sustainability Engineering: Concepts, Design and Case Studies, Prentice Hall.
5. Bradley. A.S; Adebayo, A.O., Maria, P. Engineering applications in sustainable design and development, Cengage learning.
6. Environment Impact Assessment Guidelines, Notification of Government of India, 2006.
7. Mackenthun, K.M., Basic Concepts in Environmental Management, Lewis Publication, London, 1998.

## REFERENCES :

1. R.K. Trivedi, 'Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standards', Vol. I and II, Enviro Media. 38 . Edition 2010.
2. Cunningham, W.P. Cooper, T.H. Gorhani, 'Environmental Encyclopedia', Jaico Publ., House, Mumbai, 2001.
3. Dharmendra S. Sengar, 'Environmental law', Prentice hall of India PVT. LTD, New Delhi, 2007.
4. Rajagopalan, R, 'Environmental Studies-From Crisis to Cure', Oxford University Press, Third Edition, 2015.



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Siruseri, Chennai - 603 103.



**MOHAMED SATHAK  
A.J. COLLEGE OF ENGINEERING**

34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



## CME365 RENEWABLE ENERGY TECHNOLOGIES

L T P C

3 0 0 3

### COURSE OBJECTIVES

- 1 To know the Indian and global energy scenario
- 2 To learn the various solar energy technologies and its applications.
- 3 To educate the various wind energy technologies.
- 4 To explore the various bio-energy technologies.
- 5 To study the ocean and geothermal technologies.

### UNIT – I ENERGY SCENARIO 9

Indian energy scenario in various sectors – domestic, industrial, commercial, agriculture, transportation and others – Present conventional energy status – Present renewable energy status- Potential of various renewable energy sources-Global energy status-Per capita energy consumption - Future energy plans

### UNIT – II SOLAR ENERGY 9

Solar radiation – Measurements of solar radiation and sunshine – Solar spectrum - Solar thermal collectors – Flat plate and concentrating collectors – Solar thermal applications – Solar thermal energy storage – Fundamentals of solar photo voltaic conversion – Solar cells – Solar PV Systems – Solar PV applications.

### UNIT – III WIND ENERGY 9

Wind data and energy estimation – Betz limit - Site selection for windfarms – characteristics – Wind resource assessment - Horizontal axis wind turbine – components - Vertical axis wind turbine – Wind turbine generators and its performance – Hybrid systems – Environmental issues - Applications.

### UNIT – IV BIO-ENERGY 9

Bio resources – Biomass direct combustion – thermochemical conversion - biochemical conversion-mechanical conversion - Biomass gasifier - Types of biomass gasifiers - Cogeneration – Carbonisation – Pyrolysis - Biogas plants – Digesters –Biodiesel production – Ethanol production - Applications.

### UNIT – V OCEAN AND GEOTHERMAL ENERGY 9

Small hydro - Tidal energy – Wave energy – Open and closed OTEC Cycles – Limitations – Geothermal energy – Geothermal energy sources - Types of geothermal power plants – Applications- Environmental impact.

**TOTAL:45 PERIODS**

**OUTCOMES:** At the end of the course the students would be able to

1. Discuss the Indian and global energy scenario.
2. Describe the various solar energy technologies and its applications.
3. Explain the various wind energy technologies.
4. Explore the various bio-energy technologies.
5. Discuss the ocean and geothermal technologies.



**PRINCIPAL**  
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING  
No.34,Rajiv Gandhi Salai (OMR), SIPCOT - IT Park  
Siruseri, Chennai - 603 103.



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



## OMF751 LEAN SIX SIGMA

LTPC

3003

### OBJECTIVE:

- To gain insights about the importance of lean manufacturing and six sigma practices.

### UNIT I LEAN & SIX SIGMA BACKGROUND AND FUNDAMENTALS 9

Historical Overview – Definition of quality – What is six sigma -TQM and Six sigma - lean manufacturing and six sigma- six sigma and process tolerance – Six sigma and cultural changes – six sigma capability – six sigma need assessments - implications of quality levels, Cost of Poor Quality (COPQ), Cost of Doing Nothing – assessment questions

### UNIT II THE SCOPE OF TOOLS AND TECHNIQUES 9

Tools for definition – IPO diagram, SIPOC diagram, Flow diagram, CTQ Tree, Project Charter – Tools for measurement – Check sheets, Histograms, Run Charts, Scatter Diagrams, Cause and effect diagram, Pareto charts, Control charts, Flow process charts, Process Capability Measurement, Tools for analysis – Process Mapping, Regression analysis, RU/CS analysis, SWOT, PESTLE, Five Whys, interrelationship diagram, overall equipment effectiveness, TRIZ innovative problem solving – Tools for improvement – Affinity diagram, Normal group technique, SMED, 5S, mistake proofing, Value stream Mapping, forced field analysis – Tools for control – Gantt chart, Activity network diagram, Radar chart, PDCA cycle, Milestone tracker diagram, Earned value management.

### UNIT III SIX SIGMA METHODOLOGIES 9

Design For Six Sigma (DFSS), Design For Six Sigma Method - Failure Mode Effect Analysis (FMEA), FMEA process - Risk Priority Number (RPN)- Six Sigma and Leadership, committed leadership – Change Acceleration Process (CAP)- Developing communication plan – Stakeholder

### UNIT IV SIX SIGMA IMPLEMENTATION AND CHALLENGES 9

Tools for implementation – Supplier Input Process Output Customer (SIPOC) – Quality Function Deployment or House of Quality (QFD) – alternative approach – implementation – leadership training, close communication system, project selection – project management and team – champion training – customer quality index – challenges – program failure, CPQ vs six sigma, structure the deployment of six sigma – cultural challenge – customer/internal metrics

### UNIT V EVALUATION AND CONTINUOUS IMPROVEMENT METHODS 9

Evaluation strategy – the economics of six sigma quality, Return on six Sigma (ROSS), ROI, poor project estimates – continuous improvement – lean manufacturing – value, customer focus, Perfection, focus on waste, overproduction – waiting, inventory in process (IIP), processing waste, transportation, motion, making defective products, underutilizing people – Kaizen – 5S

**TOTAL: 45 PERIODS**

### OUTCOME:

- The student would be able to relate the tools and techniques of lean sigma to increase productivity

### REFERENCES:

- Michael L. George, David Rowlands, Bill Kastle, What is Lean Six Sigma, McGraw – Hill 2003
- Thomas Pyzdek, The Six Sigma Handbook, McGraw-Hill, 2000
- Fred Soleimannejed, Six Sigma, Basic Steps and Implementation, AuthorHouse, 2004
- Forrest W. Breyfogle, III, James M. Cupello, Becki Meadows, Managing Six Sigma: A Practical Guide to Understanding, Assessing, and Implementing John Wiley & Sons, 2000

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