



NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE

Approved by UGC, AICTE and Affiliated to APJ Abdul Kalam Technological University
Re-Accredited by NAAC with 'A' Grade and NBA Accredited UG Programmes (CSE and MTR)
An ISO 9001:2015 certified Institution
Email : principal.ncerc.ac.in



1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

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Principal



NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE
(NAAC Accredited)

(Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

INTERNSHIP DETAILS

ACADEMIC YEAR : 2022-2023



Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	DATE	Duration	Nature of the activity
1	INTERNSHIP	TORC INFOTECH	ABHILASH H	05-02-2023	15 DAYS	FULL STACK WITH APP DEVELOPMENT
2	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	ABHILASH S	05-02-2023	15 DAYS	FLUTTER
3	INTERNSHIP	TORC INFOTECH	ADARSH PK	05-02-2023	15 DAYS	FULL STACK WITH APP DEVELOPMENT
4	INTERNSHIP	EWOL WE	ADITHYAN V	16/5/2023	15 DAYS	PHP
5	INTERNSHIP	EWOL WE	ADITHYAN V	16/5/2023	15 DAYS	PHP
6	INTERNSHIP	TORC INFOTECH	ADARSH KRISHNA C S	05-02-2023	15 DAYS	FULL STACK WITH APP DEVELOPMENT
7	INTERNSHIP	TORC INFOTECH	AKSHAY KRISHNAN	05-02-2023	15 DAYS	FULL STACK WITH APP DEVELOPMENT
8	INTERNSHIP	TORC INFOTECH	AKSHAY T	05-02-2023	15 DAYS	PHP
9	INTERNSHIP	EWOL WE	ANAND M	16/5/2023	15 DAYS	PHP
10	INTERNSHIP	EWOL WE	ANASWARA C	16/5/2024	15 DAYS	PHP
11	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	ANIRUDHAN PM	05-02-2023	15 DAYS	FLUTTER
12	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	ANJALI NANDANA	05-02-2023	15 DAYS	FLUTTER
13	INTERNSHIP	TORC INFOTECH	ANUGRAH	05-02-2023	15 DAYS	FULL STACK WITH APP DEVELOPMENT
14	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	ARYA K P	05-02-2023	15 DAYS	FLUTTER
15	INTERNSHIP	TORC INFOTECH	GIRISH C	05-02-2023	15 DAYS	FULL STACK WITH APP DEVELOPMENT
16	INTERNSHIP	TORC INFOTECH	ADITHYAN P	05-02-2023	15 DAYS	FLUTTER
17	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	MAYA M	05-02-2023	15 DAYS	FLUTTER
18	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	IREAN KM	05-02-2023	15 DAYS	FLUTTER
19	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	NANDHANA V K	05-02-2023	15 DAYS	FLUTTER
20	INTERNSHIP	EWOL WE	LERIESHA	16/5/2023	15 DAYS	PHP
21	INTERNSHIP	TORC INFOTECH	VAISHNAV U	05-02-2023	15 DAYS	FULL STACK WITH APP DEVELOPMENT
22	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	SAFEEDHA	05-02-2023	15 DAYS	FLUTTER
23	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	GOPIKA SREEJITH	05-02-2023	15 DAYS	FLUTTER
24	INTERNSHIP	ZINDOT TECHNOLOGIES	NIDHESH K S	10-04-2022	10 DAYS	ROBOTICS
25	INTERNSHIP	ZINDOT TECHNOLOGIES	SARATH KRISHNAN	10-04-2022	10 DAYS	ROBOTICS
26	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	VIDUL KR	05-02-2023	15 DAYS	FLUTTER
27	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	KAILAS P B	05-02-2023	15 DAYS	FLUTTER
28	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	PRAJITH P	05-02-2023	15 DAYS	FLUTTER
29	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	SOORAJ SHANKAR	05-08-2023	20 DAYS	FULL STACK PYTHON
30	INTERNSHIP	SPECTRUM SOFTECH SOLUTIONS	VYSHNAV SOMAN	05-08-2023	20 DAYS	FULL STACK PYTHON
31	INTERNSHIP	REVER TECH	SAMANVAY	15/5/2023	15 DAYS	FLUTTER

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32	INTERNSHIP	REVER TECH	SNEHA SUDHAKARAN	15/5/2023	15 DAYS	FLUTTER
33	INTERNSHIP	REVER TECH	PADMA P	15/5/2023	15 DAYS	FLUTTER
34	INTERNSHIP	REVER TECH	SONA UDAYAKUMAR	15/5/2023	15 DAYS	FLUTTER
35	INTERNSHIP	REVER TECH	SILJA CR	15/5/2023	15 DAYS	FLUTTER
36	INTERNSHIP	REVER TECH	SIDHARTH MV	15/5/2023	15 DAYS	FLUTTER
37	INTERNSHIP	REVER TECH	SARATH KRISHNA S	15/5/2023	15 DAYS	FLUTTER
38	INTERNSHIP	REVER TECH	SANJAY MURALEEDHARAN	05-08-2023	20 DAYS	FLUTTER
39	INTERNSHIP	SMEC AUTOMATION PVT.LTD	ARUN P	15/5/2023	15 DAYS	FLUTTER
40	INTERNSHIP	REVER TECH	SRUTHY C	05-08-2023	20 DAYS	FLUTTER
41	INTERNSHIP	SMEC AUTOMATION PVT.LTD	NAVJAL AKBAR	05-08-2023	20 DAYS	FLUTTER
42	INTERNSHIP	SMEC AUTOMATION PVT.LTD	SOORAJ K SURESH	05-09-2023	5 DAYS	FLUTTER
43	INTERNSHIP	TECHMAGIC	SONITHA P G	05-09-2023	5 DAYS	FLUTTER
44	INTERNSHIP	TECHMAGIC	RESHMA SURENDRAN	15/5/2023	15 DAYS	FLUTTER
45	INTERNSHIP	REVER TECH	NANDHANA S	15/5/2023	15 DAYS	FLUTTER
46	INTERNSHIP	REVER TECH	SNEHA CS	15/5/2023	15 DAYS	FLUTTER
47	INTERNSHIP	REVER TECH	POOJA RAJIV	15/5/2023	15 DAYS	FLUTTER
48	INTERNSHIP	REVER TECH	NAMRATHA	05-08-2023	20 DAYS	FLUTTER
49	INTERNSHIP	SMEC AUTOMATION PVT.LTD	SNEHA S	05-08-2023	20 DAYS	FLUTTER
50	INTERNSHIP	SMEC AUTOMATION PVT.LTD	STALIGE	05-09-2023	5 DAYS	FLUTTER
51	INTERNSHIP	TECHMAGIC	J SRIVISHNU	05-09-2023	5 DAYS	FLUTTER
52	INTERNSHIP	TECHMAGIC	FABIAN BIJI	05-09-2023	5 DAYS	FLUTTER
53	INTERNSHIP	TECHMAGIC	MOHAMMED BILAL	05-09-2023	5 DAYS	FLUTTER
54	INTERNSHIP	TECHMAGIC	JITHU MANIKANDAN	05-09-2023	5 DAYS	FLUTTER
55	INTERNSHIP	TECHMAGIC	ANSAL C A	05-09-2023	5 DAYS	FLUTTER
56	INTERNSHIP	TECHMAGIC	ABHIJITH S	05-09-2023	5 DAYS	FLUTTER
57	INTERNSHIP	TECHMAGIC	BINAL P SHAJI	05-09-2023	5 DAYS	FLUTTER
58	INTERNSHIP	TECHMAGIC	LAVANYA	05-09-2023	5 DAYS	FLUTTER
59	INTERNSHIP	TECHMAGIC	ABDUL HARIS H	05-09-2023	5 DAYS	FLUTTER
60	INTERNSHIP	TECHMAGIC	MUHAMMED YASEEN K A	05-09-2023	5 DAYS	FLUTTER
61	INTERNSHIP	TECHMAGIC	MEHROOBA	05-09-2023	5 DAYS	FLUTTER
62	INTERNSHIP	TECHMAGIC	KAHYA B S	05-09-2023	5 DAYS	FLUTTER
63	INTERNSHIP	TECHMAGIC	ARUN R	05-09-2023	5 DAYS	FLUTTER
64	INTERNSHIP	TECHMAGIC	ADARSH PK	05-09-2023	5 DAYS	FLUTTER
65	INTERNSHIP	TECHMAGIC	ADITHYAN R	05-09-2023	5 DAYS	FLUTTER
66	INTERNSHIP	TECHMAGIC	ABHILASH UP	05-09-2023	5 DAYS	FLUTTER
67	INTERNSHIP	TECHMAGIC	FATHIMA ROSNA T A	05-09-2023	5 DAYS	FLUTTER
68	INTERNSHIP	TECHMAGIC	FATHIMA HANNATH	05-09-2023	5 DAYS	FLUTTER
69	INTERNSHIP	TECHMAGIC	HIBA SHEERIN	05-09-2023	5 DAYS	FLUTTER
70	INTERNSHIP	TECHMAGIC	JANEISHA K A	05-09-2023	5 DAYS	FLUTTER



CYH230286



CERTIFICATE

This is to certify that

ARUN.R

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period he got exposed to industry relevant softwares like
Kali Linux and actively participated in hands-on exercises.

20-05-2023

Date



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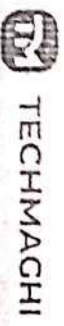
Deepak Rajan
Founder & CEO

[Signature]



PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nile Ganga, Panipat
Thiruvallur, Tamil Nadu - 680568

CMS 100320



CERTIFICATE

This is to certify that

ADHARSH.P K

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period he got exposed to industry relevant softwares like

Kali Linux and actively participated in hands-on exercises.

20-05-2023

Date



Deepak Rajan
Founder & CEO
Technaghi

PRINCIPAL

**Nehru College of Engineering and
Research (Autonomous)**
Nirgama Road, Thiruvananthapuram - 695028



CYH230156



CERTIFICATE

This is to certify that

MEHAROوبا K

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period she got exposed to industry relevant softwares like
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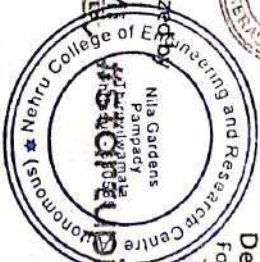
20-05-2023

Date



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Founder & CEO
Technaghi

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Neeru College of Engineering and
Research (Autonomous)
Nile Gardens - Erumamangalam
Thiruvananthapuram - 695028

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CERTIFICATE

This is to certify that

MUHAMMED YAZEEN KA

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period he got exposed to industry relevant softwares like
Kali Linux and actively participated in hands-on exercises.

20-05-2023

Date



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Research (Autonomous)
Nile Gaurav, 2nd floor
Thiruvananthapuram - 680088

CYH230385



TECHMACHI

CERTIFICATE

This is to certify that

ABDUL HARI S H

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period he got exposed to industry relevant softwares like

Kali Linux and actively participated in hands-on exercises.

20-05-2023

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Founder & CEO
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Research Centre (Autonomous)
Nile, Kottayam, Pin-686 401
Thiruviththala, Thrissur - 686588

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CERTIFICATE

This is to certify that

LAVANYA S

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period she got exposed to industry relevant softwares like

Kali Linux and actively participated in hands-on exercises.

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Kottayam, Kerala - 686008

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This is to certify that

ABHIJITH. S

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period he got exposed to industry relevant softwares like
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20-05-2023

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TECHMACHI

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This is to certify that

BIMAL P SHAJI

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from 9th May 2023 to 13th May 2023. During this period he got exposed to industry relevant softwares like Kali Linux and actively participated in hands-on exercises.

20-05-2023

Date



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Research (Autonomous)
Nir Sankar, Chittoor
Thiruvananthapuram, Kerala - 695008

CYH230394



CERTIFICATE

This is to certify that

ATHULRAJ AR

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period he got exposed to industry relevant softwares like
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20-05-2023

Date



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Nile Gaurang, Thiruvananthapuram
Thiruvananthapuram, India - 680058

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CERTIFICATE

This is to certify that

MOHAMMED BILAL JASIM M

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period he got exposed to industry relevant softwares like

Kali Linux and actively participated in hands-on exercises.

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Thiruvithirappur



Principal
Nehru College of Engineering and Research
(Thiruvithirappur - 689588)
Thiruvithirappur, India - 689588

CYH230397



CERTIFICATE

This is to certify that

J SRIVISHNU

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period he got exposed to industry relevant softwares like
Kali Linux and actively participated in hands-on exercises.

20-05-2023

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Founder & CEO
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Nehru College of Engineering and
Research, Kalyan, Karnataka
Thiruvananthapuram, India - 560098

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This is to certify that

JITHU MANIKANDAKUMAR

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period he got exposed to industry relevant softwares like
Kali Linux and actively participated in hands-on exercises.

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18
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Nehru College of Engineering and
Research (Autonomous)

Mysuru - 576 104
Tamilnadu, India - 576104



TECHMACHI

CERTIFICATE

This is to certify that

FABIAN BIJU

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from 9th May 2023 to 13th May 2023. During this period he got exposed to industry relevant softwares like Kali Linux and actively participated in hands-on exercises.

20-05-2023

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Nehru College of Engineering and Research
Atte. Get. 10/05/23
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CERTIFICATE

This is to certify that

AKSHAY. G

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period he got exposed to industry relevant softwares like
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20-05-2023

Date

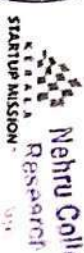

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Founder & CEO



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starting and
continuous)
580588

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CERTIFICATE

This is to certify that

FATHIMA ROSNA TA

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period she got exposed to industry relevant softwares like
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20-05-2023

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Founder & CEO

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Nehru College of Engineering and
Research, Centre (Autonomous)
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Thiruvalluvar, Tiruchur - 676598

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CERTIFICATE

This is to certify that

ABHILASH UP

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

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20-05-2023

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Thiruvananthapuram, PIN 680588

CVH230389



TECHMACHI

CERTIFICATE

This is to certify that

ADITHYAN.R

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

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Founder & CEO

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NIE GADONS, Padanilam
Thiruvananthapuram, Thiruvananthapuram - 680588

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CERTIFICATE

This is to certify that

HIBA SHERIN M H

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period she got exposed to industry relevant softwares like
Kali Linux and actively participated in hands-on exercises.

20-05-2023

Date



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Principal

13/5
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CYH230392



TECHMAGHI

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ARJUN P R

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
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20-05-2023

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Founder & CEO

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Nehru College of Engineering and
Research Centre (Autonomous)

Thiruvananthapuram
Tamil Nadu - 680588

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CERTIFICATE

This is to certify that

FATHIMA HANNATH

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period she got exposed to industry relevant softwares like
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20-05-2023

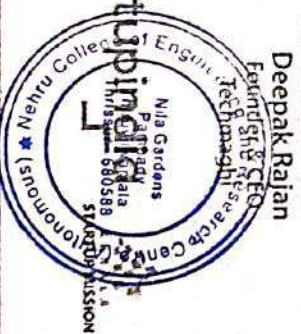
Date



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Nehru College of Engineering and
Research Centre (Autonomous)
Nile Gardens Road,
Thiruvithankal, Thrissur - 680588

CYH230391



CERTIFICATE

This is to certify that

ANSAL C A

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

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20-05-2023

Date



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Founder & CEO
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PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Thiruvilwamala, Thrissur





CIN No: U45309KL2001PTC014516

SMEC Automation Pvt. Ltd.
SEZ, Office No-GB-5,
Ground Floor, Athulya Building
Infopark Kochi P.O., Kochi

Ref: SMEC-23/5 255
Date - 22nd May 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Sooraj Sankar, S4 student from CSE dept., Nehru College of Engineering & Research Centre, Pampady has successfully completed his internship program in Full Stack Python at SMEC Automation Pvt. Ltd. from 08th May 2023 to 22nd May 2023.

During this period, he has acquired sufficient knowledge and skill in his field of expertise. He is having good exposure, initiative, and a positive attitude towards completion of given task within the time frame. His conduct and discipline through the period were very good.

I wish him all the best in his future endeavors.



For SMEC Automation Pvt. Ltd.


Authorised Signatory



Head Office : SMEC Automation Pvt. Ltd. 2nd floor, Kaloor, Corporation Complex Kerala 682 017
Works : Door No.: 38/1882, Maveli Road, Gandhi Nagar, Kadavanthra, Ernakulam Kerala 682020
Email : connect@smectechnologies.com Web : www.smectechnologies.com Ph : +91 484 2840904

Ref: SMEC-23/5 250
Date - 22nd May 2023**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr. Stalige Mohan M, S4 student from CSE dept., Nehru College of Engineering & Research Centre, Pampady has successfully completed his internship program in **Full Stack Python** at SMEC Automation Pvt. Ltd. from 08th May 2023 to 22nd May 2023.

During this period, he has acquired sufficient knowledge and skill in his field of expertise. He is having good exposure, initiative, and a positive attitude towards completion of given task within the time frame. His conduct and discipline through the period were very good.

I wish him all the best in his future endeavors.

For SMEC Automation Pvt. Ltd.


Authorised Signatory


PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nile Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



Ref: SMH-C-23/5 257
Date - 22nd May 2023**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Mr. Vyshnav Soman**, S4 student from **CSE dept.**, **Nehru College of Engineering & Research Centre, Pampady** has successfully completed his internship program in **Full Stack Python** at **SMEC Automation Pvt. Ltd.** from **08th May 2023 to 22nd May 2023**.

During this period, he has acquired sufficient knowledge and skill in his field of expertise. He is having good exposure, initiative, and a positive attitude towards completion of given task within the time frame. His conduct and discipline through the period were very good.

I wish him all the best in his future endeavors.

For SMEC Automation Pvt. Ltd.


Authorised Signatory


PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nilesh P. S. Pillai
Thiruvilwamala, Thrissur



Ref: SMFC-23/5 254

Date - 22nd May 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Arun P, S4 student from CSE dept., Nehru College of Engineering & Research Centre, Pampady has successfully completed his internship program in **Full Stack Python** at SMEC Automation Pvt. Ltd. from 08th May 2023 to 22nd May 2023.

During this period, he has acquired sufficient knowledge and skill in his field of expertise. He is having good exposure, initiative, and a positive attitude towards completion of given task within the time frame. His conduct and discipline through the period were very good.

I wish him all the best in his future endeavors.

For SMEC Automation Pvt. Ltd.


Authorised Signatory

10
PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



Head Office : SMEC Automation Pvt. Ltd. 2nd floor, Kaloor, Corporation Complex, Kerala 682 017
Works: Door No.: 38/1882, Maveli Road, Gandhi Nagar, Kadavanthra, Emakulam, Kerala, 682020
Email : connect@smectechnologies.com, Web : www.smectechnologies.com. Ph : +91 484 2340904

Ref: SMEC-23/5 262
Date - 22nd May 2023TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Sneha S, S4 student from CSE dept., Nehru College of Engineering & Research Centre, Pampady has successfully completed her internship program in **Full Stack Python** at SMEC Automation Pvt. Ltd. from 08th May 2023 to 22nd May 2023.

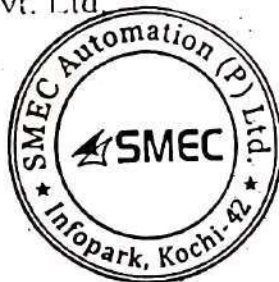
During this period, she has acquired sufficient knowledge and skill in her field of expertise. She is having good exposure, initiative, and a positive attitude towards completion of given task within the time frame. Her conduct and discipline through the period were very good.

I wish her all the best in her future endeavors.

For SMEC Automation Pvt. Ltd.



Authorised Signatory



Ref: SMEC-23/5 245

Date - 22nd May 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Sooraj K Suresh, S4** student from **CSE dept., Nehru College of Engineering & Research Centre, Pampady** has successfully completed his internship program in **Full Stack Python** at **SMEC Automation Pvt. Ltd.** from **08th May 2023 to 22nd May 2023**.

During this period, he has acquired sufficient knowledge and skill in his field of expertise. He is having good exposure, initiative, and a positive attitude towards completion of given task within the time frame. His conduct and discipline through the period were very good.

I wish him all the best in his future endeavors.

For SMEC Automation Pvt. Ltd.



Authorised Signatory


PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



Head Office : SMEC Automation Pvt. Ltd. 2nd floor, Kaloar, Corporation Complex, Kerala 682 017

Works: Door No.: 38/1882, Maveli Road, Gandhi Nagar, Kadavanthra, Ernakulam, Kerala, 682020

Email : connect@smectechnologies.com, Web : www.smectechnologies.com. Ph : +91 484 2340904

Ref: SMEC-23/5 263
Date - 22nd May 2023**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Nawal Akber, S4 student from CSE dept., Nehru College of Engineering & Research Centre, Pampady has successfully completed her internship program in Full Stack Python at SMEC Automation Pvt. Ltd. from 08th May 2023 to 22nd May 2023.

During this period, she has acquired sufficient knowledge and skill in her field of expertise. She is having good exposure, initiative, and a positive attitude towards completion of given task within the time frame. Her conduct and discipline through the period were very good.

I wish her all the best in her future endeavors.

For SMEC Automation Pvt. Ltd.



Authorised Signatory



 **PRINCIPAL**
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680568



Head Office : SMEC Automation Pvt. Ltd. 2nd floor, Kaloore, Corporation Complex, Kerala 682 017

Works: Door No.: 38/1882, Maveli Road, Gandhi Nagar, Kadavanthra, Ernakulam, Kerala, 682020

Email : connect@smectechnologies.com, Web : www.smectechnologies.com. Ph : +91 484 2340904

Rêver Tech

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Sruthysree

Nehru College of Engineering & Research Centre

has successfully completed 15-Days Internship on FLUTTER held at
Revertech IT Solutions from 15 May 2023 to 29 May 2023

Atish

NIIDHUN M
Director, Revertech IT
Solutions

01-06-2023

Date



P. B. S. L.
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680580



CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Samarasey Ramadas A

Nehru College of Engineering & Research Centre

has successfully completed 15-Days Internship on FLUTTER held at
Revertech IT Solutions from 15 May 2023 to 29 May 2023

A. K. K.

MIDHUN M
Director, Revertech IT
Solutions

01-06-2023

Date



109

PRINCIPAL

Nehru College of Engineering and Research Centre
(Autonomous)
Nilg Gardens, Pampady
Thiruvilwamala, Thrissur - 680588

Rêver Tech

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Sanjay Muraliedharan

Nehru College of Engineering & Research Centre

has successfully completed 15-Days Internship on FLUTTER held at
Revertech IT Solutions from 15 May 2023 to 29 May 2023

Atch

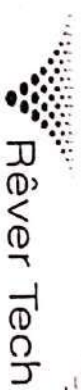
01-06-2023

Date

MIDHUN M
Director, Revertech IT
Solutions

[Signature]
Nehru College of Engineering and
Research Centre
(Autonomous)
Nile Gauras, Pampady
Thiruvilwamala, Thrissur - 680588





CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Sidharth M V

Nehru College of Engineering & Research Centre

has successfully completed 15-Days Internship on FLUTTER held at
Revertech IT Solutions from 15 May 2023 to 29 May 2023

Atth

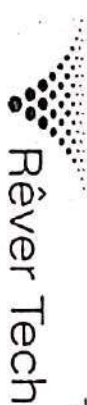
01-06-2023

Date

MIDHUN M
Director Revertech IT
Solutions



10/6/23
Nehru College of Engineering and Research Centre (Autonomous)
N/A Gardens, Pampady
Thiruvillamala, Tirunelveli - 620588



CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Sarath Krishna S

Nehru College of Engineering & Research Centre

has successfully completed 15-Days Internship on FLUTTER held at
Revertech IT Solutions from 15 May 2023 to 29 May 2023

Atch

01-06-2023

Date

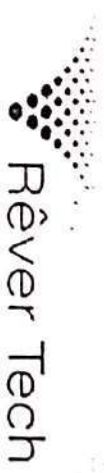
MIDHUN M

Director, Revertech IT
Solutions

103
PRINCIPAL

Nehru College of Engineering and
Research Centre
(Autonomous)
Thiruvilwamala, Thrissur - 680588





CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Padma P

Nehru College of Engineering & Research Centre

has successfully completed 15-Days Internship on FLUTTER held at
Revertech IT Solutions from 15 May 2023 to 29 May 2023

Atk

01-06-2023

Date

MIDHUN M
Director, Revertech IT
Solutions



Principal

Nehru College of Engineering and
Research Centre
(Autonomous)
Nila Gardens, Pampady
Thiruvivamala, Thrissur - 680588

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Sona Udayakumar

Nehru College of Engineering & Research Centre

has successfully completed 15-Days Internship on FLUTTER held at

Revertech IT Solutions from 15 May 2023 to 29 May 2023

A. K. K.

MIDHUN M

Director, Revertech IT
Solutions

01-06-2023

Date



PRINCIPAL
Nehru College of Engineering and
Research Centre (an Autonomous)
Thiruvithamala, Thiruvananthapuram
Thiruvithamala, Thiruvananthapuram - 080588

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Silja CR

Nehru College of Engineering & Research Centre

has successfully completed 15-Days Internship on FLUTTER held at
Revertech IT Solutions from 15 May 2023 to 29 May 2023

Atch

01-06-2023

MIDHUN M

Director, Revertech IT
Solutions

Date



Praveen
Nehru College of Engineering and
Research Centre (Autonomous)
M. S. G. Road, Palakkad
Thrissur - 680588

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Namratha P

Nehru College of Engineering & Research Centre

has successfully completed 15-Days Internship on FLUTTER held at
Revertech IT Solutions from 15 May 2023 to 29 May 2023

Atch

01-06-2023

MIDHUN M

Director, Revertech IT
Solutions

Date

PR
PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Pine Gardens, Puthuvay
Thiruvillamala, Tirunelveli - 626158



CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Pooja Rajeev

Nehru College of Engineering & Research Centre

has successfully completed 15-Days Internship on FLUTTER held at
Revertch IT Solutions from 15 May 2023 to 29 May 2023

Atch

01-06-2023

Date

MIDHUN M
Director, Revertch IT
Solutions

P
PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nilgiri Gardens, Palam, And
Nilgiri, Palam, And
Trivunivallada, Trivuniv - 6811588



CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Sneha CS

Nehru College of Engineering & Research Centre
has successfully completed 15-Days Internship on FLUTTER held at
Revertech IT Solutions from 15 May 2023 to 29 May 2023

Atch

01-06-2023

Date

MIDHUN M
Director, Revertech IT
Solutions



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Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Parangody,
Thiruvithamala, Thrissur - 680588



CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Nandhana S

Nehru College of Engineering & Research Centre

has successfully completed 15-Days Internship on FLUTTER held at
Revertech IT Solutions from 15 May 2023 to 29 May 2023

Atch

01-06-2023

MIDHUN M
Director, Revertech IT
Solutions

Date

Principal

Nehru College of Engineering and
Research Centre (Autonomous)
Plot, 1st & 2nd Phase, Puthuvay
Puthuvay, Tiruvallur - 601158



CYH230158

CERTIFICATE



This is to certify that

RESHMA. SURENDRAN

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from
9th May 2023 to 13th May 2023. During this period she got exposed to industry relevant softwares like
Kali Linux and actively participated in hands-on exercises.

20-05-2023

Date

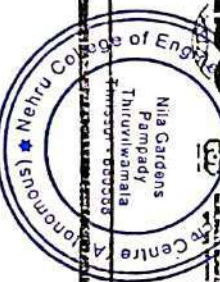


Deepak Rajan
Founder & CEO
Technaghi

Recognized by



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Nehru College of Engineering and Research
Thiruvalluvar, Tirunelveli - 620038

CYH230160



CERTIFICATE

This is to certify that

SONITHA PG

of

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

has successfully completed a 5 day internship in the field of Cyber Security & Ethical Hacking from 9th May 2023 to 13th May 2023. During this period she got exposed to industry relevant softwares like

Kali Linux and actively participated in hands-on exercises.

20-05-2023

Date



Deepak Rajan
Founder & CEO
Techmaghi

Recognized by



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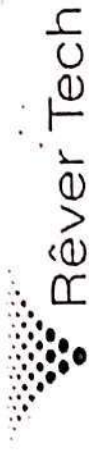


Principal

Respected

Mh. ...

Thiruvananthapuram



CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Nawal Akber

Nehru College of Engineering & Research Centre

has successfully completed 15-Days Internship on FLUTTER held at
Reverttech IT Solutions from 15 May 2023 to 29 May 2023

Attd

01-06-2023

Date

MIDHUN M
Director, Reverttech IT
Solutions

RS



Nehru College of Engineering and
Research Centre (Autonomous)
Nile Gardens, Pampady
Thiruvillamala, Thrissur - 680588

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

Sneha Sudhakaran

Nehru College of Engineering & Research Centre

has successfully completed 15-Days Internship on FLUTTER held at
Reverttech IT Solutions from 15 May 2023 to 29 May 2023

Attd.

01-06-2023

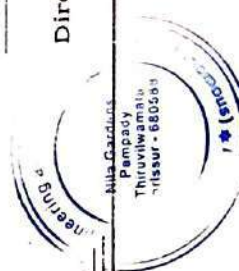
Date

MIDHUN M
Director, Reverttech IT
Solutions

Principal
PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)

Nile Ganesha, Pampady
Thiruvilwamala, Thrissur - 680598



INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that Mr. ADITHYA (NCE20CS006) Computer Science Engineering student of Nehru College of Engineering and Research Centre, Thrissur has successfully completed the Internship program in PHP at EWOLWE during the period from 16/05/2023 to 31/05/2023.

For Ewolwe



Sajeesh R
(HR Manager)



PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588

Overhead Tank Building - OHT 03,
KINFRA Integrated Industrial Park

Ottapalam - 679 103

+91 9447 904797

info@ewolwe.in



TORC INFOTECH

TORC INFOTECH PRIVATE LIMITED

TORC INFOTECH
OLD ROAD, KALAMASSERY
KOCHI, KERALA

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Adarsh P K, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.



ABHI KRISHNA H
Managing Director

PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



SEAL

#startupindia



Spec/STC/275/06/023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. ABIJITH S 3rd Year B.Tech Computer Science and Engineering student of Nehru College of Engineering & Research Centre, Pampady did his Internship in Flutter at Spectrum Softtech Solutions (P) Ltd., the first Private Sector IT Park in Kerala, from 2nd May, 2023 to 5th June, 2023 as a part of their curriculum-based Industrial Internship.

During this period, we found his conduct and character to be good.

We wish him success in all his future endeavors.


Manoj Padmanabhan
Chief Executive Officer

Kochi-11
June 13, 2023




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Nehru College of Engineering and
Research Centre (Autonomous)
Nile Gardens, Pampady
Thiruvilwamala, Thrissur - 680588





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OLD ROAD, KALAMASSERY
KOCHI, KERALA

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Abhilash H, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.


PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nizh Gassana, Pampady
Thiruvananthapuram, Thrissur - 680588





ABHI KRISHNA H
Managing Director



SEAL

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STARTUP MISSION



Spec/STC/276/06/023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. ANIRUDHAN P M** 3rd Year B.Tech Computer Science and Engineering student of **Nehru College of Engineering & Research Centre, Pampady** did his Internship in Flutter at Spectrum Softtech Solutions (P) Ltd., the first Private Sector IT Park in Kerala, from 2nd May, 2023 to 5th June, 2023 as a part of their curriculum-based Industrial Internship.

During this period, we found his conduct and character to be good.

We wish him success in all his future endeavors.


Manoj Padmanabhan
Chief Executive Officer

Kochi-11
June 13, 2023




PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588





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OLD ROAD, KALAMASSERY
KOCHI, KERALA

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ajay Krishna C S, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

Principal
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



ABHI KRISHNA H
Managing Director



SEAL

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INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that Mr. ADITHYAN V (NCE20CS007) Computer Science Engineering student of Nehru College of Engineering and Research Centre, Thrissur has successfully completed the Internship program in PHP at EWOLWE during the period from 16/05/2023 to 31/05/2023.

For Ewolwe



Sajeesh R
(HR Manager)

18
PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



Overhead Tank Building - OHT 03,
KINFRA Integrated Industrial Park
Ottapalam - 679 103
+91 9447 904797
info@ewolwe.in

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Akshay T, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT.LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.


PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



SEAL


ABHI KRISHNA H
Managing Director

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C INFOTECH

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TORC INFOTECH
OLD ROAD, KALAMASSERY
KOCHI, KERALA

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Akshay Krishnan K M, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

Handwritten signature of Principal

PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



Handwritten signature of Abhi Krishna H

ABHI KRISHNA H
Managing Director



SEAL

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INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that Mr. ANAND M (NCE20CS016) Computer Science Engineering student of Nehru College of Engineering and Research Centre, Thrissur has successfully completed the Internship program in PHP at EWOLWE during the period from 16/05/2023 to 31/05/2023.

For Ewolwe



Sajeesh R

Sajeesh R
(HR Manager)



B
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588

Overhead Tank Building - OHT 03,
KINFRA Integrated Industrial Park
Ottapalam - 679 103
+91 9447 904797
info@ewolwe.in

INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that **Ms. ANASWARA G (NCE20CS019)** Computer Science Engineering student of **Nehru College of Engineering and Research Centre, Thrissur** has successfully completed the Internship program in **PHP** at **EWOLWE** during the period from **16/05/2023** to **31/05/2023**.

For Ewolve



[Signature]
Sajeesh R.
(HR Manager)



102
Nehru College of Engineering and Research Centre

Overhead Tank Building - OHT 03,
KINFRA Integrated Industrial Park
Ottapalam - 679 103
+91 9447 904797
Info@ewolve.in

Spec/STC/278/06/023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. ARYA K P 3rd Year B.Tech Computer Science and Engineering student of Nehru College of Engineering & Research Centre, Pampady did her Internship in Flutter at Spectrum Softtech Solutions (P) Ltd., the first Private Sector IT Park in Kerala, from 2nd May, 2023 to 5th June, 2023 as a part of their curriculum-based Industrial Internship.

During this period, we found her conduct and character to be good.

We wish her success in all her future endeavors.


Manoj Padmanabhan
Chief Executive Officer

Kochi-11
June 13, 2023




PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
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Thiruvilwamata, Thrissur - 680588





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OLD ROAD, KALAMASSERY
KOCHI, KERALA

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Anugrah K, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



ABHI KRISHNA H
Managing Director



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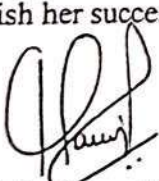
Spec/STC/277/06/023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. ANJALI NANDANA V P 3rd Year B.Tech Computer Science and Engineering student of Nehru College of Engineering & Research Centre, Pampady did her Internship in Flutter at Spectrum Softtech Solutions (P) Ltd., the first Private Sector IT Park in Kerala, from 2nd May, 2023 to 5th June, 2023 as a part of their curriculum-based Industrial Internship.

During this period, we found her conduct and character to be good.

We wish her success in all her future endeavors.


Manoj Padmanabhan
Chief Executive Officer



Kochi-11
June 13, 2023




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Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



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OLD ROAD, KALAMASSERY
KOCHI, KERALA

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Aswin Das C H, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.



13
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Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680568

ABHI KRISHNA H
Managing Director



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TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ashwin Mohan, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.



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This is to certify that Akshara C S, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.



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This is to certify that Anusree K G, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.


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This is to certify that Daniel Suresh, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

18
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This is to certify that Ashwin C, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

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This is to certify that C S Girish, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

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This is to certify that Akash S, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

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Principal
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This is to certify that Ashvin Sibi, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.


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This is to certify that Anek Sekhar P, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

B

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This is to certify that Ajay Krishna C S, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

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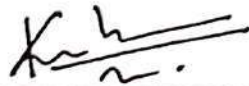
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This is to certify that Ananthu K, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.



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This is to certify that Ajay P, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

Abhi Krishna H

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This is to certify that Basil P Sunny, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

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This is to certify that Aswath V, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

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This is to certify that Arjun K, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

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This is to certify that Avinash M P, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

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This is to certify that Deepak K, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.




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This is to certify that Aditya P, a Nehru College of Engineering, student has completed 15 days of Internship on Full Stack with App Development from 2nd May 2023, at TORC INFOTECH PVT LTD, Kochi. During this internship, we found the student to be sincere, honest, hardworking, and dedicated with a professional attitude. The Student is proactive and is constantly looking to improve existing skill sets. We also observed that the student is skilled in execution.

We wish the student every success in all future endeavours.

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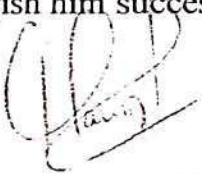


Spec/STC/509/06/023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. PRAJITH P G B TECH COMPUTER SCIENCE student of Nehru College of Engineering & Research Centre, Pampady did his internship in Cloud Computing at Spectrum Softech Solutions (P)Ltd, the First Private Sector IT Park in Kerala, from 18th May, 2023 to 31st May, 2023 as a part of their curriculam-based industrial internship.

We wish him success in all his future endeavors.



Manoj Padmanabhan
Chief Executive Officer

Kochi-11
June 2, 2023




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Spec/STC/507/06/023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. KAILAS K B TECH COMPUTER SCIENCE student of Nehru College of Engineering & Research Centre, Pampady did his internship in Cloud Computing at Spectrum Softtech Solutions (P)Ltd, the First Private Sector IT Park in Kerala, from 18th May, 2023 to 31st May, 2023 as a part of their curriculam-based industrial internship.

We wish him success in all his future endeavors.


Manoj Padmanabhan
Chief Executive Officer

Kochi-11
June 2, 2023




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Spec/STC/513/06/023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. VIDUL K R B-TECH COMPUTER SCIENCE student of Nehru College of Engineering & Research Centre, Pampady did his internship in Cloud Computing at Spectrum Softtech Solutions (P)Ltd, the First Private Sector IT Park in Kerala, from 18th May, 2023 to 31st May, 2023 as a part of their curriculam-based industrial internship.

We wish him success in all his future endeavors.



Manoj Padmanabhan
Chief Executive Officer

Kochi-11
June 2, 2023


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Thiruvilwamala, Thrissur - 680588

CERTIFICATE

This is to certify that

SARATH KRISHNAN P V

student of

NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE

has completed 10 days internship training in **CYBER SECURITY** from 2nd January 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 : 15 JANUARY 2022



Director

ZINDOT TECHNOLOGIES




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Thiruvilwamala, Thrissur - 680588

CERTIFICATE

This is to certify that

NIDHEESH K S

student of

NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE

has completed 10 days internship training in **ROBOTICS** from 4th October 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.

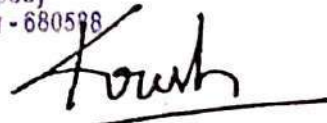
We wish you every success in all future endeavours.


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Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680598

Date : 16 October 2022





Director

ZINDOT TECHNOLOGIES



Spec/STC/60/05/023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. GOPIKA SREEJITH 3rd Year BTech CSE 6th Sem student of Nehru College of Engineering & Research Centre, Pampady did her Internship in Flutter at Spectrum Softtech Solutions (P) Ltd., the first Private Sector IT Park in Kerala, from 2nd May, 2023 to 18th May, 2023 as a part of their curriculum-based Industrial Internship.

During this period, we found her conduct and character to be good.

We wish her success in all her future endeavors.


Manoj Padmanabhan
Chief Executive Officer



Kochi-11
May 19, 2023




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Thiruvilwamala, Thrissur - 680588

Spec/STC/64/05/023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. SAFEEDA P** 3rd Year BTech CSE 6th Sem student of **Nehru College of Engineering & Research Centre, Pampady** did her Internship in Flutter at Spectrum Softtech Solutions (P) Ltd., the first Private Sector IT Park in Kerala, from 2nd May, 2023 to 18th May, 2023 as a part of their curriculum-based Industrial Internship.

During this period, we found her conduct and character to be good.

We wish her success in all her future endeavors.


Manoj Padmanabhan
Chief Executive Officer

Kochi-11
May 19, 2023




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INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that Ms. SURYA T (NCE20CS082) Computer Science Engineering student of Nehru College of Engineering and Research Centre, Thrissur has successfully completed the Internship program in PHP at EWOLWE during the period from 16/05/2023 to 31/05/2023.

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For Ewolve


Sajeesh R
(HR Manager)

Overhead Tank Building - OHT 03,
KINFRA Integrated Industrial Park
Ottapalam - 679 103
+91 9447 904797
info@ewolve.in

INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that Ms. LERIESHA S MATHEW (NCE20CS056) Computer Science Engineering student of Nehru College of Engineering and Research Centre, Thrissur has successfully completed the Internship program in PHP at EWOLWE during the period from 16/05/2023 to 31/05/2023.

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Thiruvilwamala, Thrissur - 680588



For Ewolwe


Sajeesh R
(HR Manager)

Overhead Tank Building - OHT 03,
KINFRA Integrated Industrial Park
Ottapalam - 679 103
+91 9447 904797
info@ewolwe.in

Spec/STC/63/05/023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. NANDHANA P K 3rd Year BTech CSE 6th Sem student of Nehru College of Engineering & Research Centre, Pampady did her Internship in Flutter at Spectrum Softtech Solutions (P) Ltd., the first Private Sector IT Park in Kerala, from 2nd May, 2023 to 18th May, 2023 as a part of their curriculum-based Industrial Internship.

During this period, we found her conduct and character to be good.

We wish her success in all her future endeavors.



Manoj Padmanabhan
Chief Executive Officer



Kochi-11
May 19, 2023



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TO WHOM IT MAY CONCERN

Spec/Koc/Workshop_How_to_start_a_career_in_Medical_Coding_and_Billing?/05/2023 24th May 2023

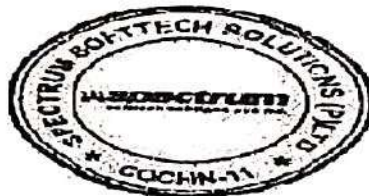
SUB: Workshop How to start a career in Medical Coding and Billing? Participation Certificate

This is to certify that IRFAN K N had participated in the WORKSHOP HOW TO START A CAREER IN MEDICAL CODING AND BILLING? conducted by SPECTRUM SOFTTECH SOLUTIONS (P) LTD. on 19th May 2023.

SPECTRUM (www.spectrum.net.in) is a private IT Park located at Mahakavi G. Road, Kochi-11, Kerala, India, offering a range of IT & IT-Enabled Services to a host of clients in INDIA and USA. We conduct workshops, seminars, and internships to equip technology professionals and career aspirants to face the challenges in changing/upcoming technologies. We wish this participant all success.

Yours truly,

Electronically Signed



JOSEPH JOB | Chief Technology Officer
Spectrum Softtech Solutions Pvt. Ltd.




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Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588

Mahakavi G Road, Kochi - 682011 * Phone: 0484-4082000 * Fax: 0484-4082408

email:spectrum@spectrum.net.in * www.spectrum.net.in

Spec/STC/62/05/023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. MAYA M 3rd Year BTech CSE 6th Sem student of Nehru College of Engineering & Research Centre, Pampady did her Internship in Flutter at Spectrum Softtech Solutions (P) Ltd., the first Private Sector IT Park in Kerala, from 2nd May, 2023 to 18th May, 2023 as a part of their curriculum-based Industrial Internship.

During this period, we found her conduct and character to be good.

We wish her success in all her future endeavors.


Manoj Padmanabhan
Chief Executive Officer



Kochi-11
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Project evaluation Time Table for Seventh Semester B.Tech Degree (Regular) Examination January 2023

Centre: NCERC, Pampady, Thrissur
Branch: Computer Science & Engineering, S7 CSE B
Subject: CSD415 : Project Phase -1

Project Assessment board		Day and Date		FN/AN	Register numbers
Internal					
Senior Faculty	Ms. Baby V, Asst Professor,	Wednesday	04-01-23	FN	NCEI9CS041, NCEI9CS042,
Member	CSE				NCEI9CS043, NCEI9CS044,
1 Project	Mr. Vysagh M				NCEI9CS045, NCEI9CS047
Supervisors	Ms. Leya M S				NCEI9CS048, NCEI9CS049,
	Ms. Divya S	Thursday	05-01-23	AN	NCEI9CS050, NCEI9CS051
	Ms. Shiji S				NCEI9CS052, NCEI9CS053
	Ms. Betsy Joy				NCEI9CS054, NCEI9CS055,
	Ms. Linta				NCEI9CS056, NCEI9CS057,
	Ms. Silja Varghese	Friday	06-01-23	FN	NCEI9CS058, NCEI9CS059
	Ms. Smitha				NCEI9CS061, NCEI9CS062
	Ms. Praveena K				NCEI9CS063, NCEI9CS064,
	Ms. Radhika K				NCEI9CS065, NCEI9CS066,
	Ms. Nisha A K	Saturday	07-01-23	AN	NCEI9CS067, NCEI9CS068,
					NCEI9CS069, NCEI9CS070
					NCEI9CS071, NCEI9CS072,
					NCEI9CS073, NCEI9CS074,
2 Project	Mr. Arun K /	Sunday	08-01-23	FN	NCEI9CS075, NCEI9CS076
Co-ordinators	Ms. Sruthy M R				NCEI9CS077, NCEI9CS078

Project Coordinator



Vice Principal & HOD

Principal
Nehru College of Engineering and Research Centre (Autonomous)
Nila Gardens, Pampady



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Department of Computer Science & Engineering

CSD 415 PROJECT PHASE 1

PROJECT ACTIVITY CALENDER

SL.NO	ACTIVITY	TARGET DATE
1	FORMATION OF GROUPS - Maximum of 4 Members in a Group	19/9/2022
2	SELECTION OF GUIDES	26/9/2022
3	SELECTION OF TOPICS	30/9/2022
4	ZEROth REVIEW - Project title to be formed.	17/10/2022
5	FIRST REVIEW - Interim Evaluation, Literature survey to be completed. Objective of the project to be framed.	14/11/2022
6	SECOND REVIEW - Interim Evaluation, Modules and UML/Use case Diagrams	28/11/2022
7	PROJECT REPORT - Rough draft Submission	12-09-2022
8	PROJECT REPORT - Binded copy submission	16/12/2022
9	PROJECT PHASE 1 - Final Evaluation	19/12/2022


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PROJECT COORDINATOR




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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



MINUTES OF PROJECT EVALUATION COMMITTEE MEETING

Academic Year : 2022-23

SEMESTER VII

BATCH: 2019-2023

COURSE CODE: CSD 415

COURSE NAME: PROJECT PHASE I

AGENDA

1. Project Norms as per KTU.
2. Formation of Groups.
3. Selection of Topics.
4. Selection of Guides.
5. Project Reviews.
6. Report Preparation.

VENUE: Room No. 331

DATE: 2nd September 2022

TIME- 12.30 PM

MEMBERS PRESENT

1. Dr. Sivakumar K, Vice Principal and HoD
2. Ms. Silja Varghese, Asst. Professor, CSE
3. Mr. Vipin KM, Asst. Professor, CSE
4. Mr. Vysagh M, Asst. Professor, CSE
5. Ms. Sruthy MR, Asst. Professor, CSE
6. Ms. Shiji S, Assistant Professor, CSE
7. Ms. Divya S, Asst. Professor, CSE
8. Mr. Arun K, Asst. Professor, CSE
9. Ms. Nisha A K, Asst. Professor, CSE
10. Mr. Baby V, Asst. Professor, CSE
11. Ms. Praveena K, Assistant Professor, CSE
12. Ms. Ishwaria Surendran, Assistant Professor, CSE
13. Ms. Radhika K Manjusha, Assistant Professor, CSE

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14. Ms. Leya, Assistant Professor, CSE

15. Ms. Smitha, Assistant Professor, CSE

16. Ms. Betsy, Assistant Professor, CSE

17. Ms. Linta, Assistant Professor, CSE

	Subject and Decision	Action by	Target date
1	Project activity calendar	Project Coordinators	12/9/2022
2	Norms for Evaluation	As per KTU norms	12/9/2022
2	Formation of project groups – Maximum of 4 members in a group	Students	19/11/2022
3	Allotment of Guide	Faculty & Project coordinators	26/9/2022
4	Selection of topics	Students & Guide	30/9/2022
5	Zeroth Review	Project Evaluation Committee and Students	17/10/2022
6	First Review – Interim Evaluation Literature Survey to be completed, Objective of the project	Project Evaluation Committee and Students	14/11/2022
7	Second Review – Interim Evaluation Architecture, UML Diagrams, module description	Project Evaluation Committee and Students	28/11/2022
8	Final Review – Phase I	Project Evaluation Committee and Students	19/12/2022

Project Coordinators

HoD



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Department of Computer Science & Engineering

CSD 415 PROJECT PHASE 1



FORMATION OF PROJECT GROUP

Sl. No	REGISTER	GROUP MEMBERS
1	NCE19CS077	Zeba Kadheeja Z
	NCE19CS042	LEKHA K S
	NCE19CS066	SREESHA S
	NCE19CS054	Nima P M
2	NCE19CS043	MANJU SURENDRAN
	NCE19CS045	M A SWATHI KRISHNA
	NCE19CS041	Lakshmi Santhosh
	NCE19CS061	SANDRA K SANTHOSH
3	NCE19CS055	NIVYA IGNATIOUS
	NCE19CS057	P SYAMALA KRISHNA PRIYA
	NCE19CS068	SRILAYA K
4	NCE19CS050	M PREETHIKA
	NCE19CS075	Varsha A Nair
	NCE19CS065	SREELAKSHMI G
5	NCE19CS072	Swathy U
	NCE19CS071	SUSHAMA T
	NCE19CS064	SOUMYA P R
6	NCE19CS063	Shaifulla J P
	NCE19CS049	MOHAMMEDSALIH S A
	NCE19CS069	SURAJ S
	NCE19CS062	SANJAY M
7	NCE19CS048	MOHAMED ANAS A K
	NCE19CS047	MIDHUN M
	NCE19CS051	Muhammed Faadhil K
	NCE19CS056	PRAJITH PRASAD A
8	LNCE19CS078	SREEKUMAR P M
	NCE19CS074	Thejus Sreejith

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CSD 415 PROJECT PHASE I



S7 CSE B PROJECT GROUPS AND GUIDES

Sl. No	REGISTER NUMBER	GROUP MEMBERS	NAME OF THE GUIDE	SIGNATURE
1	NCE19CS077	Zeba Kadheeja Z	Ms. SHIJI S	
	NCE19CS042	LEKHA K S		
	NCE19CS066	SREESHA S		
	NCE19CS054	Nima P M		
2	NCE19CS043	MANJU SURENDRAN	Ms. LEYA	
	NCE19CS045	M A SWATHI KRISHNA		
	NCE19CS041	Lakshmi Santhosh		
	NCE19CS061	SANDRA K SANTHOSH		
3	NCE19CS055	NIVYA IGNATIUS	Ms. DIVYA S	
	NCE19CS057	P SYAMALA KRISHNA PRIYA		
	NCE19CS068	SRILAYA K		
4	NCE19CS050	M PREETHIKA	Ms. SMITHA	
	NCE19CS075	Varsha A Nair		
	NCE19CS065	SREELAKSHMI G		
5	NCE19CS072	Swathy U	Ms. SILJA VARGHESE	
	NCE19CS071	SUSHAMA T		
	NCE19CS064	SOUMYA P R		
6	NCE19CS063	Shaifulla J P	Ms. PRAVEENA	
	NCE19CS049	MOHAMMEDSALIH S A		
	NCE19CS069	SURAJ S		
	NCE19CS062	SANJAY M		
7	NCE19CS048	MOHAMED ANAS A K	Ms. LINTA	
	NCE19CS047	MIDHUN M		
	NCE19CS051	Muhammed Faadhil K		
	NCE19CS056	PRAJITH PRASAD A		
8	LNCE19CS078	SREEKUMAR P M	Ms. RADHIKA K	
	NCE19CS074	Thejus Sreejith		
	NCE19CS053	NIKHIL P GOPINATH		
	NCE19CS070	Surya P		
9	NCE19CS044	M Arjun Murali	Ms. NISHA AK	
	NCE19CS067	Srihari B		
	NCE19CS073	Tharun Mohan		
	NCE19CS052	NIGHIL KRISHNA P		



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10	NCE19CS058	P T ERICK MON	Ms. BETSY	(2)
	NCE19CS059	Rahul Rankumar		
	NCE19CS076	Vishnu N		

PROJECT COORDINATORS

[Signature]

HOD

[Signature]

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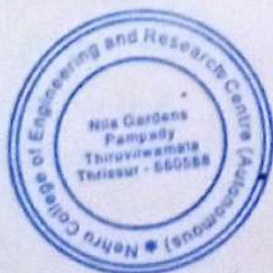
CSD 415 PROJECT PHASE 1

SELECTION OF PROJECT TITLE

Sl. No	REGISTER NUMBER	GROUP MEMBERS	NAME OF THE GUIDE	PROJECT TITLE
1	NCE19CS077	Zeba Kadheeja Z	Ms. SHIJI S	AN AUTONOMOUS DELIVERY ROBOT IN PRODUCT DELIVERY SYSTEM
	NCE19CS042	LEKHA K S		
	NCE19CS066	SREESHA S		
	NCE19CS054	Nima P M		
2	NCE19CS043	MANJU SURENDRAN	Ms. LEYA	IOT BASED WOMEN SAFETY WEARABLE DEVICE
	NCE19CS045	M A SWATHI KRISHNA		
	NCE19CS041	Lakshmi Santhosh		
	NCE19CS061	SANDRA K SANTHOSH		
3	NCE19CS055	NIVYA IGNATIUS	Ms. DIVYA S	GESTURE VOCALIZER
	NCE19CS057	P SYAMALA KRISHNA PRIYA		
	NCE19CS068	SRILAYA K		
4	NCE19CS050	M PREETHIKA	Ms. SMITHA	AUTOMATIC RESUME SELECTION
	NCE19CS075	Varsha A Nair		
	NCE19CS065	SREELAKSHMI G		
5	NCE19CS072	Swathy U	Ms. SILJA VARGHESE	SHOPPING ASSISTANT
	NCE19CS071	SUSHAMA T		
	NCE19CS064	SOUMYA P R		
6	NCE19CS063	Shaifulla J P	Ms. PRAVEENA	RAILWAY TRACK CRACK DETECTION AND OBSTACLES DETECTION SYSTEM
	NCE19CS049	MOHAMMEDSALIH S A		
	NCE19CS069	SURAJ S		
	NCE19CS062	SANJAY M		
7	NCE19CS048	MOHAMED ANAS A K	Ms. LINTA	CURSOR MOVEMENT USING RETINA
	NCE19CS047	MIDHUN M		
	NCE19CS051	Muhammed Faadhil K		
	NCE19CS056	PRAJITH PRASAD A		
8	NCE19CS07	SREEKUMAR P M	Ms. RADHIKA K	RFID BASED REAL TIME STUDENT MONITORING SYSTEM AND BUS TRACKING
	NCE19CS074	Thejus Sreejith		
	NCE19CS053	NIKHIL P GOPINATH		
	NCE19CS070	Surya P		
9	NCE19CS044	M Arjun Murali	Ms. NISHA AK	WATER CONTAMINATION DETECTION AND FLOW CONTROL
	NCE19CS067	Srihari B		
	NCE19CS073	Tharun Mohan		
	NCE19CS052	NIGHIL KRISHNA P		
10	NCE19CS058	P T ERICK MON	Ms. BETSY	BLOCK CHAIN BASED LOGISTICS SUPPLY CHAIN
	NCE19CS059	Rahul Ramkumar		
	NCE19CS076	Vishnu N		

PROJECT COORDINATORS

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CSD 415 PROJECT PHASE 1

ZEROth REVIEW SCHEDULE

Sl. No	REGISTER NUMBER	GROUP MEMBERS	PANEL	DATE AND TIME
1	NCE19CS077	Zeba Kadheeja Z	Ms. SHIJI S, Ms. SRUTHY MR, Mr. ARUN K	17/10/2022 1.00PM - 1.15PM
	NCE19CS042	LEKHA K S		
	NCE19CS066	SREESHA S		
	NCE19CS054	Nima P M		
2	NCE19CS043	MANJU SURENDRAN	Ms. LEYA, Ms. SRUTHY MR, Mr. ARUN K	17/10/2022 1.15PM - 1.30PM
	NCE19CS045	M A SWATHI KRISHNA		
	NCE19CS041	Lakshmi Santhosh		
	NCE19CS061	SANDRA K SANTHOSH		
3	NCE19CS055	NIVYA IGNATIOUS	Ms. DIVYA S, Ms. SRUTHY MR, Mr. ARUN K	17/10/2022 1.30PM - 1.45PM
	NCE19CS057	P SYAMALA KRISHNA PRIYA		
	NCE19CS068	SRILAYA K		
4	NCE19CS050	M PREETHIKA	Ms. SMITHA, Ms. SRUTHY MR, Mr. ARUN K	17/10/2022 1.45PM - 2.00PM
	NCE19CS075	Varsha A Nair		
	NCE19CS065	SREELAKSHMI G		
5	NCE19CS072	Swathy U	Ms. SILJA VARGHESE, Ms. SRUTHY MR, Mr. ARUN K	17/10/2022 2.00PM - 2.15PM
	NCE19CS071	SUSHAMA T		
	NCE19CS064	SOUMYA P R		
6	NCE19CS063	Shaifulla J P	Ms. PRAVEENA, Ms. SRUTHY MR, Mr. ARUN K	17/10/2022 2.15PM - 2.30PM
	NCE19CS049	MOHAMMEDSALIH S A		
	NCE19CS069	SURAJ S		
	NCE19CS062	SANJAY M		
7	NCE19CS048	MOHAMED ANAS A K	Ms. LINTA, Ms. SRUTHY MR, Mr. ARUN K	17/10/2022 2.30PM - 2.45PM
	NCE19CS047	MIDHUN M		
	NCE19CS051	Muhammed Faadhil K		
	NCE19CS056	PRAJITH PRASAD A		
8	NCE19CS078	SREEKUMAR P M	Ms. RADHIKA K, Ms. SRUTHY MR, Mr. ARUN K	17/10/2022 2.45PM - 3.00PM
	NCE19CS074	Thejus Sreejith		
	NCE19CS053	NIKHIL P GOPINATH		
	NCE19CS070	Surya P		
9	NCE19CS044	M Arjun Murali	Ms. NISHA AK, Ms. SRUTHY MR, Mr. ARUN K	17/10/2022 3.00PM - 3.15PM
	NCE19CS067	Srihari B		
	NCE19CS073	Tharun Mohan		
	NCE19CS052	NIGHIL KRISHNA P		
10	NCE19CS058	P T ERICK MON	Ms. BETSY, Ms. SRUTHY MR, Mr. ARUN K	17/10/2022 3.15PM - 3.30PM
	NCE19CS059	Rahul Ramkumar		
	NCE19CS076	Vishnu N		

PROJECT COORDINATORS

[Signature]
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROJECT DETAILS

Course Code :CSD 416

Course Name : Project Phase II

Sl. No	REGISTER NUMBER	GROUP MEMBERS	NAME OF THE GUIDE	PROJECT TITLE
1	NCE19CS077	ZEBKA KADHEEJA Z	Ms. ISHWARIA SURENDRAN	AN AUTONOMOUS DELIVERY ROBOT TO PREVENT THE SPREAD OF CORONA VIRUS IN PRODUCT DELIVERY SYSTEM
	NCE19CS042	LEKHA K S		
	NCE19CS066	SREESHA S		
	NCE19CS054	NIMA P M		
2	NCE19CS043	MANJU SURENDRAN	Ms. LEYA	IOT BASED WOMEN SAFETY WEARABLE DEVICE
	NCE19CS045	M A SWATHI KRISHNA		
	NCE19CS041	LAKSHMI SANTHOSH		
	NCE19CS061	SANDRA K SANTHOSH		
3	NCE19CS055	NIVYA IGNATIUS	Dr. SUBASHINI K	GESTURE VOCALIZER
	NCE19CS057	P SYAMALA KRISHNA PRIYA		
	NCE19CS068	SRILAYA K		
4	NCE19CS050	M PREETHIKA	Ms. SMITHA	TRAFFIC SIGN DETECTION AND RECOGNITION SYSTEM FOR VEHICLES
	NCE19CS075	VARSHA A NAIR		
	NCE19CS065	SREELAKSHMI G		
5	NCE19CS072	SWATHY U	Ms. SILJA VARGHESE	SMART SHOPPING ASSISTANT
	NCE19CS071	SUSHAMA T		
	NCE19CS064	SOUMYA P R		
6	NCE19CS063	SHAIFULLA J P	Ms. PRAVEENA	FAKE CURRENCY DETECTION
	NCE19CS049	MOHAMMEDSALIH S A		
	NCE19CS069	SURAJ S		
	NCE19CS062	SANJAY M		
7	NCE19CS048	MOHAMED ANAS A K	Ms. LINTA	CURSOR CONTROL USING RETINA FOR HANDICAPPED PERSONS
	NCE19CS047	MIDHUN M		
	NCE19CS051	MUHAMMED FAADHILI K		
	NCE19CS056	PRAJITH PRASAD A		
8	NCE19CS078	SREEKUMAR P M	Ms. RADHIKA K	SMART SCHOOL BUS MONITORING SYSTEM USING IOT
	NCE19CS074	THEJUS SREEJITH		
	NCE19CS053	NIKHIL P GOPINATH		
	NCE19CS070	SURYA P		
9	NCE19CS044	M ARJUN MURALI	Dr. SIVAKUMAR K	WATER QUALITY MONITORING SYSTEM USING INTERNET OF THINGS
	NCE19CS067	SRIHARI B		
	NCE19CS073	THARUN MOHAN		
	NCE19CS052	NIGHIL KRISHNA P		
10	NCE19CS058	P T ERICK MON	Ms. BETSY	BLOCK CHAIN USING LOGISTICS AND SUPPLY CHAIN MANAGEMENT
	NCE19CS059	RAHUL RANKUMAR		
	NCE19CS076	VISHNU N		

Project Coordinator

HoD



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Thiruvithwamala, Thrissur - 680558



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SCHEDULE FOR PROJECT PHASE II: INTERIM EVALUATION - I

Course Code: CSD 416

Course Name: Project Phase II

SL No	REGISTER NUMBER	GROUP MEMBERS	NAME OF THE GUIDE	PROJECT TITLE	DATE AND TIME
1	NCE19CS077	ZEB KADHEEJA Z	Ms. ISHWARIA SURENDRAN	AN AUTONOMOUS DELIVERY ROBOT TO PREVENT THE SPREAD OF CORONA VIRUS IN PRODUCT DELIVERY SYSTEM	23/3/2023 9 AM - 9.30 AM
	NCE19CS042	LEKHA K S			
	NCE19CS066	SREESHA S			
	NCE19CS054	NIMA P M			
2	NCE19CS043	MANJU SURENDRAN	Ms. LEYA	IOT BASED WOMEN SAFETY WEARABLE DEVICE	23/3/2023 9.30 AM - 10.30 AM
	NCE19CS045	M A SWATHI KRISHNA			
	NCE19CS041	LAKSHMI SANTHOSH			
	NCE19CS061	SANDRA K SANTHOSH			
3	NCE19CS055	NIVYA IGNATIUS	Dr. SUBASHINI K	GESTURE VOCALIZER	23/3/2023 10.30 AM - 11.30 AM
	NCE19CS057	P SYAMALA KRISHNA PRIYA			
	NCE19CS068	SRILAYA K			
4	NCE19CS050	M PREETHIKA	Ms. SMITHA	TRAFFIC SIGN DETECTION AND RECOGNITION SYSTEM FOR VEHICLES	23/3/2023 11.30 AM - 12.30 PM
	NCE19CS075	VARSHA A NAIR			
	NCE19CS065	SREELAKSHMI G			
5	NCE19CS072	SWATHY U	Ms. SILJA VARGHESE	SMART SHOPPING ASSISTANT	23/3/2023 2 PM - 3 PM
	NCE19CS071	SUSHAMA T			
	NCE19CS064	SOUMYA P R			
6	NCE19CS063	SHAFULLA J P	Ms. PRAVEENA	FAKE CURRENCY DETECTION	24/3/2023 9 - 10 AM
	NCE19CS049	MOHAMMEDSALIH S A			
	NCE19CS069	SURAJ S			
	NCE19CS062	SANJAY M			
7	NCE19CS048	MOHAMED ANAS A K	Ms. LINTA	CURSOR CONTROL USING RETINA FOR HANDICAPPED PERSONS	24/3/2023 10 AM - 11 AM
	NCE19CS047	MIDHUN M			
	NCE19CS051	MUHAMMED FAADHILI K			
	NCE19CS056	PRAJITH PRASAD A			
8	NCE19CS078	SREEKUMAR P M	Ms. RADHIKA K	SMART SCHOOL BUS MONITORING SYSTEM USING IOT	24/3/2023 11 AM - 12 AM
	NCE19CS074	THEJUS SREEJITH			
	NCE19CS053	NIKHIL P GOPINATH			
	NCE19CS070	SURYA P			
9	NCE19CS044	M ARJUN MURALI	Dr. SIVAKUMAR K	WATER QUALITY MONITORING SYSTEM USING INTERNET OF	24/3/2023 11 AM - 12 PM
	NCE19CS067	SRIHARI B			
	NCE19CS073	THARUN MOHAN			



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	NCE19CS052	NIGHIL KRISHNA P		THINGS	
10	NCE19CS058	P T ERICK MON	Ms. BETSY	BLOCK CHAIN USING	24/3/2023 1 PM - 2 PM
	NCE19CS059	RAHUL RANKUMAR		LOGISTICS AND SUPPLY	
	NCE19CS076	VISHNU N		CHAIN MANAGEMENT	

Project Coordinator



HoD




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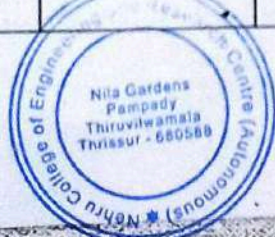


SCHEDULE FOR PROJECT PHASE II
FINAL EVALUATION

Course Code: CSD 416
 Course Name: Project Phase II

Department: CSE
 Semester: VIII - B

S.No	Register Number	Name of the Student	Date	Timing	Name of the Project Supervisors
1	NCE19CS041	LAKSHMI SANTHOSH	16/05/2023	09:00 am -09:20am	Ms. LEYA
2	NCE19CS042	LEKHA KS	16/05/2023	09:20 am-09:40 am	Ms. SMITHA
3	NCE19CS043	MANJU SURENDRAN	16/05/2023	09:40 am-10:00am	Ms. LEYA
4	NCE19CS044	M ARJUN MURALI	16/05/2023	10:00 am -10:20 am	Dr. SIVAKUMAR K
5	NCE19CS045	M A SWATHI KRISHNA	16/05/2023	10:20 am-10:40am	Ms. LEYA
6	NCE19CS047	MIDHUN M	16/05/2023	10:40 am -11:00 am	Ms. LINTA
7	NCE19CS048	MOHAMMED ANAS A K	16/05/2023	11:00 am -11:20 am	Ms. LINTA
8	NCE19CS049	MOHAMMED SALIH S A	16/05/2023	11:20 am -11:40 am	Ms. PRAVEENA
9	NCE19CS050	M PREETHIKA	16/05/2023	11:40 am - 12:00 noon	Ms. SMITHA
10	NCE19CS051	MUHAMMED FAADHIL K	16/05/2023	12:00 noon -12:20 pm	Ms. LINTA
11	NCE19CS052	NIGHIL KRISHNA P	16/05/2023	12:20pm -12:40 pm	Dr. SIVAKUMAR K
12	NCE19CS053	NIKHIL P GOPINATH	16/05/2023	12:40 pm - 01:00 pm	Ms. RADHIKA K
13	NCE19CS054	NIMA PM	16/05/2023	2:00 pm - 2:20 pm	Ms. ISHWARIA SURENDRAN
14	NCE19CS055	NIVYA IGNATIUS	16/05/2023	02:20 pm -02:40 pm	Dr. SUBASHINI K



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15	NCE19CS056	PRAJITH PRASAD A	16/05/2023	02:40 pm-03:00 pm	Ms. LINTA
16	NCE19CS057	P SHYAMALA KRISHNAPRIYA	16/05/2023	03:00 pm-03:20 pm	Dr. SUBASHINI K
17	NCE19CS058	P T ERICKMON	16/05/2023	03:20 pm -03:40 pm	Ms. BETSY
18	NCE19CS059	RAHUL RAMKUMAR	16/05/2023	03:40 pm-04:00 pm	Ms. BETSY
19	NCE19CS061	SANDRA K SANTHOSH	17/05/2023	09:00 am -09:20am	Ms. LEYA
20	NCE19CS062	SANJAY M	17/05/2023	09:20 am-09:40 am	Ms. PRAVEENA
21	NCE19CS063	SHAIFULLA T P	17/05/2023	09:40 am-10:00am	Ms. PRAVEENA
22	NCE19CS064	SOWMYA PR	17/05/2023	10:00 am -10:20 am	Ms. SILJA VARGHESE
23	NCE19CS065	SREELAKSHMI G	17/05/2023	10:20 am-10:40am	Ms. ISHWARIA SURENDRAN
24	NCE19CS066	SREESHA S	17/05/2023	10:40 am -11:00 am	Ms. ISHWARIA SURENDRAN
25	NCE19CS067	SRIHARI B	17/05/2023	11:00 am -11:20 am	Dr. SIVAKUMAR K
26	NCE19CS068	SRILAYA K	17/05/2023	11:20 am -11:40 am	Dr. SUBASHINI K
27	NCE19CS069	SURAJ S	17/05/2023	11:40 am - 12:00 noon	Ms. PRAVEENA
28	NCE19CS070	SURYA P	17/05/2023	12:00 noon -12:20 pm	Ms. RADHIKA K
29	NCE19CS071	SUSHAMA T	17/05/2023	12:20pm -12:40 pm	Ms. SILJA VARGHESE
30	NCE19CS072	SWATHY U	17/05/2023	12:40 pm - 01:00 pm	Ms. SILJA VARGHESE
31	NCE19CS073	THARUN MOHAN	17/05/2023	2:00 pm - 2:20 pm	Dr. SIVAKUMAR K
32	NCE19CS074	THEJUS SREEJITH	17/05/2023	02:20 pm -02:40 pm	Ms. RADHIKA K
33	NCE19CS075	VARSHA A NAIR	17/05/2023	02:40 pm-03:00 pm	Ms. SMITHA
34	NCE19CS076	VISHNU N	17/05/2023	03:00 pm-03:20 pm	Ms. BETSY



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



SCHEDULE FOR PROJECT PHASE II

FINAL EVALUATION

Course Code: CSD 416
Course Name: Project Phase II

Department: CSE
Semester: VIII - B

S.No	Register Number	Name of the Student	Date	Timing	Name of the Project Supervisors
1	NCE19CS041	LAKSHMI SANTHOSH	16/05/2023	09:00 am -09:20am	Ms. LEYA
2	NCE19CS042	LEKHA KS	16/05/2023	09:20 am-09:40 am	Ms. SMITHA
3	NCE19CS043	MANJU SURENDRAN	16/05/2023	09:40 am-10:00am	Ms. LEYA
4	NCE19CS044	M ARJUN MURALI	16/05/2023	10:00 am -10:20 am	Dr. SIVAKUMAR K
5	NCE19CS045	M A SWATHI KRISHNA	16/05/2023	10:20 am-10:40am	Ms. LEYA
6	NCE19CS047	MIDHUN M	16/05/2023	10:40 am -11:00 am	Ms. LINTA
7	NCE19CS048	MOHAMMED ANAS A K	16/05/2023	11:00 am -11:20 am	Ms. LINTA
8	NCE19CS049	MOHAMMED SALIH S A	16/05/2023	11:20 am -11:40 am	Ms. PRAVEENA
9	NCE19CS050	M PREETHIKA	16/05/2023	11:40 am - 12:00 noon	Ms. SMITHA
10	NCE19CS051	MUHAMMED FAADHIL K	16/05/2023	12:00 noon -12:20 pm	Ms. LINTA
11	NCE19CS052	NIGHIL KRISHNA P	16/05/2023	12:20pm -12:40 pm	Dr. SIVAKUMAR K
12	NCE19CS053	NIKHIL P GOPINATH	16/05/2023	12:40 pm - 01:00 pm	Ms. RADHIKA K
13	NCE19CS054	NIMA PM	16/05/2023	2:00 pm - 2:20 pm	Ms. ISHWARIA SURENDRAN
14	NCE19CS055	NIVYA IGNATIOUS	16/05/2023	02:20 pm -02:40 pm	Dr. SUBASHINI K



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35	NCE19CS077	ZIBA KHADDEEA Z	17/05/2023	03:20 pm -03:40 pm	MS. ISHWARIA SURENDRAN
36	LNCE19CS078	SREEKUNIMAR PM	17/05/2023	03:40 pm-04:00 pm	MS. RADHIKA K

Project Evaluation Committee -Examiners

1. Dr. Subashini K
2. Ms. Sruthy M R
3. Ms. Betsy Joy
4. Project Supervisors

Class Advisor &
Project coordinator

[Signature]
HOD 12.05.2023

[Signature]
Principal 12.05.2023

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MINUTES OF PROJECT EVALUATION COMMITTEE MEETING.

Year / Sem : IV/VIII Batch : 2019-23

Course Code : CSD 416 Course Name : Project Phase II

AGENDA

1. Project Norms as per KTU
2. Interim Project Evaluation
3. Project Diary
4. Completion of Project Hardware
5. Paper Presentation in Conference
6. Paper Publication in Journal
7. Project Report
8. Final Project Evaluation

Venue: Hall No: 331 Date: January 30, 2023 Time : 02:00 – 03:00 pm

Members Present

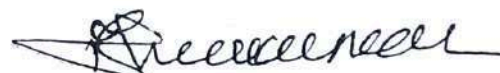
1. Dr. Sivakumar K, HoD CSE
2. Ms. Silja Varghese, Assistant Professor CSE
3. Mr. Vipin KM, Assistant Professor CSE
4. Ms. Sruthy MR, Assistant Professor CSE
5. Ms. Baby V, Assistant Professor CSE
6. Ms. Radhika K Manjusha, Assistant Professor CSE
7. Ms. Ishwaria Surendran, Assistant Professor CSE
8. Ms. Praveena K, Assistant Professor CSE
9. Ms. Smita Unnikrishnan, Assistant Professor CSE
10. Ms. Betsy Joy, Assistant Professor CSE

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S.No	Subject	Action by	Target date
1	Project activity calendar	Project Coordinators	13/2/2023
2	Norms for evaluation	As per KTU	-
3	First Review – Interim Evaluation Hardware completion , draft of conference paper	Project Evaluation Committee and students	28/3/2023
4	Second Review – Interim Evaluation , Hardware completion ,conference paper publication , project competition, Project Report	Project Evaluation Committee and students	28/4/2023 .
5	Submission of Binded Hardcopy project report, Submission of paper publication details , project competition details	Project Evaluation Committee and students	14/6/2023

Project Coordinator

HoD



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROJECT ACTIVITY CALENDAR

Course Code :CSD 416

Course Name : Project Phase II

S.No	Activity	Target Date
1	First Review – Interim Evaluation Hardware completion , draft of conference paper	28/3/2023
2	Second Review – Interim Evaluation , Hardware completion ,conference paper publication , project competition, Project Report	28/4/2023
3	Submission of Binded Hardcopy project report, Submission of paper publication details , project competition details	14/5/2023
4	Project Diary Submission	18/5/2023

Project Coordinator

HoD



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Department of Computer Science & Engineering

S8 CSE A PROJECT PHASE II: Project Schedule

Course Code: CSD 416

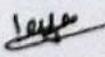
Course Name: Project Phase II

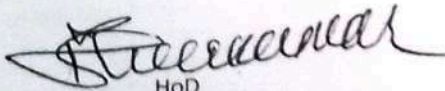
S.No	Register Number	Name of the Student	Date	Timing	Name of the Project Supervisors
1	NCE19CS001	ABHIJNA P	16/05/2023	09:00 am - 09:20am	Dr. SUBASHINI K
2	NCE19CS002	ABHISHEKR	16/05/2023	09:20 am- 09:40 am	Ms. SRUTHY M R
3	NCE19CS003	ABIJITH.K.S	16/05/2023	09:40 am- 10:00am	Ms. LINTA
4	NCE19CS004	ABILASH.N	16/05/2023	10:00 am - 10:20 am	Ms. LINTA
5	NCE19CS005	ADARSH P	16/05/2023	10:20 am- 10:40am	Ms. BETSY
6	NCE19CS006	AKHILA K M	16/05/2023	10:40 am - 11:00 am	Ms. ISHWARIA SURENDRAN
7	NCE19CS007	ALBIN JOSEPH	16/05/2023	11:00 am - 11:20 am	Ms. LINTA
8	NCE19CS008	ALEENA SHIBU	16/05/2023	11:20 am - 11:40 am	Dr. SIVAKUMAR K
9	NCE19CS010	AMAL K C UNNI	16/05/2023	11:40 am - 12:00 noon	Ms. BETSY
10	NCE19CS011	AMAL OP	16/05/2023	12:00 noon - 12:20 pm	Ms. BABY V
11	NCE19CS012	AMRUTHA P	16/05/2023	12:20pm -12:40 pm	Ms. PRAVEENA
12	NCE19CS013	ANAMIKA PK	16/05/2023	12:40 pm - 01:00 pm	Ms. PRAVEENA
13	NCE19CS014	ANAND. K.B	16/05/2023	2:00 pm - 2:20 pm	Ms. BETSY
14	NCE19CS015	ANASWARACP	16/05/2023	02:20 pm - 02:40 pm	Ms. ISHWARIA SURENDRAN
15	NCE19CS016	ANJALI M.A	16/05/2023	02:40 pm- 03:00 pm	Dr. SIVAKUMAR K
16	NCE19CS017	ANOOP ANIL KUMAR	16/05/2023	03:00 pm- 03:20 pm	Ms. BABY V
17	NCE19CS018	ANUPAVITHRA P B	16/05/2023	03:20 pm - 03:40 pm	Ms. PRAVEENA
18	NCE19CS019	ARCHA ANAND	16/05/2023	03:40 pm- 04:00 pm	Ms. PRAVEENA



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19	NCE19CS020	ARCHANA CV	17/05/2023	09:00 am - 09:20am	Ms. SMITHA
20	NCE19CS021	ARCHA PS	17/05/2023	09:20 am- 09:40 am	Dr. SIVAKUMAR K
21	NCE19CS022	ARJUN M	17/05/2023	09:40 am- 10:00am	Mr. VIPIN K M
22	NCE19CS023	ARJUN RAJ K R	17/05/2023	10:00 am - 10:20 am	Ms. BETSY
23	NCE19CS024	ARUN.S	17/05/2023	10:20 am- 10:40am	Ms. SRUTHY M R
24	NCE19CS025	ASWATHY SUBRAMANIAN	17/05/2023	10:40 am - 11:00 am	Ms. SMITHA
25	NCE19CS026	ASWIN DAS.M	17/05/2023	11:00 am - 11:20 am	Ms. SRUTHY M R
26	NCE19CS027	ASWIN TT	17/05/2023	11:20 am - 11:40 am	Mr. VIPIN K M
27	NCE19CS029	BHAVYA.R	17/05/2023	11:40 am - 12:00 noon	Dr. SIVAKUMAR K
28	NCE19CS030	GEETHU K V	17/05/2023	12:00 noon - 12:20 pm	Ms. SMITHA
29	NCE19CS031	GOKILA KRISHNAN	17/05/2023	12:20pm -12:40 pm	Ms. ISHWARIA SURENDRAN
30	NCE19CS032	GOKULAN G	17/05/2023	12:40 pm - 01:00 pm	Ms. SRUTHY M R
31	NCE19CS033	GOPIKA G KRISHNAN	17/05/2023	01:30 pm - 01:45 pm	Dr. SUBASHINI K
32	NCE19CS034	HARIKRISHNAN M	17/05/2023	01:45pm - 2:00 pm	Mr. VIPIN K M
33	NCE19CS035	HAROON AL SHAJI	17/05/2023	2:00 pm - 2:20 pm	Mr. VIPIN K M
34	NCE19CS036	IRFAN M V	17/05/2023	02:20 pm - 02:40 pm	Ms. BABY V
35	NCE19CS037	IRSHAD KV	17/05/2023	02:40 pm- 03:00 pm	Ms. BABY V
36	NCE19CS038	JAGATH V MADHAVAN	17/05/2023	03:00 pm- 03:20 pm	Ms. LINTA
37	NCE19CS039	JYOTHIKA V	17/05/2023	03:20 pm - 03:40 pm	Dr. SUBASHINI K
38	NCE19CS040	KAVYA KB	17/05/2023	03:40 pm- 04:00 pm	Dr. SUBASHINI K


Project Coordinator


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S8 CSE A PROJECT PHASE II: Interim Evaluation - II



Since 1968

Course Code: CSD 416

Course Name: Project Phase II

S.No	Register Number	Name of the Student	Application of Engineering Knowledge (10)	Involvement of individual Members (5)	Result and Interference upon Execution (5)	Documentation and Presentation (5)	Total(25)
1	NCE19CS001	ABHIJNA P	8	4	3	3	18
2	NCE19CS002	ABHISHEKR	7	3	5	3	18
3	NCE19CS003	ABIJITH K.S	6	3	3	3	15
4	NCE19CS004	ABILASH.N	6	3	3	4	16
5	NCE19CS005	ADARSH P	8	5	3	4	20
6	NCE19CS006	AKHILA K M	7	4	3	3	17
7	NCE19CS007	ALBIN JOSEPH	7	4	4	4	19
8	NCE19CS008	ALEENA SHIBU	7	4	3	4	18
9	NCE19CS010	AMAL K C UNNI	7	4	4	4	19
10	NCE19CS011	AMAL OP	9	4	5	4	22
11	NCE19CS012	AMRUTHA P	8	4	4	4	20
12	NCE19CS013	ANAMIKA PK	8	4	3	4	19
13	NCE19CS014	ANAND. K.B	7	4	4	4	19
14	NCE19CS015	ANASWARACP	7	4	4	3	18
15	NCE19CS016	ANJALI M.A	7	4	4	4	19
16	NCE19CS017	ANOOP ANIL KUMAR	8	4	5	4	21
17	NCE19CS018	ANUPAVITHRA P B	8	4	4	4	20
18	NCE19CS019	ARCHA ANAND	8	4	4	4	20
19	NCE19CS020	ARCHANA CV	9	4	4	4	21
20	NCE19CS021	ARCHA PS	7	4	4	4	19
21	NCE19CS022	ARJUN M	8	4	5	4	21
22	NCE19CS023	ARJUN RAJ K R	7	4	4	4	19
23	NCE19CS024	ARUN.S	7	5	5	3	20
24	NCE19CS025	ASWATHY SUBRAMANIAN	9	4	5	4	22
25	NCE19CS026	ASWIN DAS.M	7	4	5	3	19
26	NCE19CS027	ASWIN TT	8	3	4	4	19
27	NCE19CS029	BHAVYA.R	0	0	0	0	0
28	NCE19CS030	GEETHU K V	8	4	4	4	20
29	NCE19CS031	GOKILA KRISHNAN	7	4	4	4	19
30	NCE19CS032	GOKULAN G	7	4	5	5	21
31	NCE19CS033	GOPIKA G KRISHNAN	8	4	3	3	18
32	NCE19CS034	HARIKRISHNAN M	8	3	4	4	19
33	NCE19CS035	HAROON AL SHAJI	8	4	4	4	20
34	NCE19CS036	IRFAN M V	9	5	5	5	24
35	NCE19CS037	IRSHAD KV	9	5	5	5	24
36	NCE19CS038	JAGATH V MADHAVAN	7	4	3	3	17
37	NCE19CS039	JYOTHIKA V	8	4	3	3	18
38	NCE19CS040	KAVYA KB	8	4	3	3	18

Project Coordinator

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CSD 415 PROJECT PHASE I



PROJECT ACTIVITY CALENDER

SLNO	ACTIVITY	TARGET DATE
1	FORMATION OF GROUPS - Maximum of 4 Members in a Group	20-09-2022
2	SELECTION OF GUIDES	27-09-2022
3	SELECTION OF TOPICS	04-10-2022
4	ZEROTH REVIEW - Project title to be formed.	18-10-2022
5	FIRST REVIEW - Interim Evaluation, Literature survey to be completed. Objective of the project to be framed.	15-11-2022
6	SECOND REVIEW - Interim Evaluation, Modules and UML/Use case Diagrams	22-11-2022
7	PROJECT REPORT - Rough draft Submission	14-12-2022
8	PROJECT REPORT - Binded copy submission	18-12-2022
9	PROJECT PHASE I - Final Evaluation	22-12-2022

PROJECT COORDINATOR

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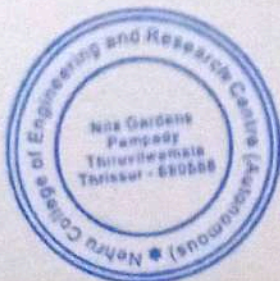
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CSD 415 PROJECT PHASE 1

S7 CSE A

FORMATION OF PROJECT GROUP

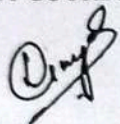
Sl. No	REGISTER NUMBER	GROUP MEMBERS
1	NCE19CS031	GOKILA KRISHNAN
	NCE19CS006	AKHILA KM
	NCE19CS015	ANASWARA CP
2	NCE19CS025	ASWATHY SUBRAMANIAM
	NCE19CS030	GEETHU KV
	NCE19CS020	ARCHANA CV
3	NCE19CS033	GOPIKA G KRISHNAN
	NCE19CS040	KAVYA KP
	NCE19CS039	JYOTHIKA P
	NCE19CS001	ABHINJA P
4	NCE19CS016	ANJALI MA
	NCE19CS021	ARCHA PS
	NCE19CS029	BAVYA R
	NCE19CS008	ALEENA SHIBU
5	NCE19CS013	ANAMIKA PK
	NCE19CS012	AMRUTHA P
	NCE19CS019	ARCHA ANAND
	NCE19CS018	ANUPAVITHRA PB
6	NCE19CS035	HAROON AL SHAJI C
	NCE19CS027	ASWIN TT
	NCE19CS022	ARJUN M
	NCE19CS034	HARIKRISHNAN M
7	NCE19CS024	ARUN S
	NCE19CS026	ASWIN DAS
	NCE19CS032	GOKULAN
	NCE19CS002	ABHISHEK R
	NCE19CS005	ADARSH P

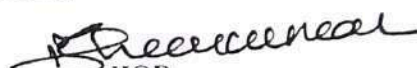


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8	NCE19CS010	AMAL KC UNNI
	NCE19CS014	ANAND KB
	NCE19CS023	ARIJUN RAJ KR
9	NCE19CS004	ABHILASH N
	NCE19CS003	ABHIJITH KS
	NCE19CS007	ALBIN JOSEPH
	NCE19CS038	JAGATH B MADHAVAN
10	NCE19CS017	ANOOP ANIL KUMAR
	NCE19CS011	AMAL OP
	NCE19CS036	IRFAN MV
	NCE19CS037	IRSHAD KV

PROJECT COORDINATORS




HOD



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CSD 415 PROJECT PHASE I

S7 CSE A PROJECT GROUPS AND GUIDES

Sl. No	REGISTER NUMBER	GROUP MEMBERS	NAME OF THE GUIDE	SIGNATURE
1	NCE19CS031	GOKILA KRISHNAN	Ms. ISHWARYA	
	NCE19CS006	AKHILA KM		
	NCE19CS015	ANASWARA CP		
2	NCE19CS025	ASWATHY SUBRAMANIAM	Ms. SMITHA	
	NCE19CS030	GEETHU KV		
	NCE19CS020	ARCHANA CV		
3	NCE19CS033	GOPIKA G KRISHNAN	Mr. ARUN K	
	NCE19CS040	KAVYA KP		
	NCE19CS039	JYOTHIKA P		
	NCE19CS001	ABHINJA P		
4	NCE19CS016	ANJALI MA	Mr. VYSAGH M	
	NCE19CS021	ARCHA PS		
	NCE19CS029	BAVYA R		
	NCE19CS008	ALEENA SHIBU		
5	NCE19CS013	ANAMIKA PK	Ms. PRAVENA	
	NCE19CS012	AMRUTHA P		
	NCE19CS019	ARCHA ANAND		
	NCE19CS018	ANUPAVITHRA PB		
6	NCE19CS035	HAROON AL SHAJI C	Mr. VIPIN K M	
	NCE19CS027	ASWIN TT		
	NCE19CS022	ARJUN M		
	NCE19CS034	HARIKRISHNAN M		
7	NCE19CS024	ARUN S	Ms. SRUTHY MR	
	NCE19CS026	ASWIN DAS		
	NCE19CS032	GOKULAN		
	NCE19CS002	ABHISHEK R		
8	NCE19CS005	ADARSH P	Ms. BETCY	
	NCE19CS010	AMAL KC UNNI		
	NCE19CS014	ANAND KB		
	NCE19CS023	ARJUN RAJ KR		
9	NCE19CS004	ABHILASH N	Ms. LINTA	
	NCE19CS003	ABHIJITH KS		
	NCE19CS007	ALBIN JOSEPH		

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10	NCE19CS038	JAGATH B MADHAVAN	Ms. BABY V	
	NCE19CS017	ANOOP ANIL KUMAR		
	NCE19CS011	AMAL OP		
	NCE19CS036	IRFAN MV		
	NCE19CS037	IRSHAD KV		

PROJECT COORDINATORS



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CSD 415 PROJECT PHASE I

S7 CSE A

SELECTION OF PROJECT TITLE

SL No	REGISTER NUMBER	GROUP MEMBERS	NAME OF THE GUIDE	TITLE
1	NCE19CS031	GOKILA KRISHNAN	Ms. ISHWARYA	Flood alert system using float sensor
	NCE19CS006	AKHILA KM		
	NCE19CS015	ANASWARA CP		
2	NCE19CS025	ASWATHY SUBRAMANIAM	Ms. SMITHA	E-voting system
	NCE19CS030	GEETHU KV		
	NCE19CS020	ARCHANA CV		
3	NCE19CS033	GOPIKA G KRISHNAN	Mr. ARUN K	Algorithm to program converter
	NCE19CS040	KAVYA KP		
	NCE19CS039	JYOTHIKA P		
	NCE19CS001	ABHINJA P		
4	NCE19CS016	ANJALI MA	Mr. VYSAGH M	Automatic Homeappliances using Eyeball tracking
	NCE19CS021	ARCHA PS		
	NCE19CS029	BAVYA R		
	NCE19CS008	ALEENA SHIBU		
5	NCE19CS013	ANAMIKA PK	Ms. PRAVENA	Robotic garbage collector
	NCE19CS012	AMRUTHA P		
	NCE19CS019	ARCHA ANAND		
	NCE19CS018	ANUPAVITHRA PB		
6	NCE19CS035	HAROON AL SHAJI C	Mr. VIPIN K M	Autodimig headlight of vehicle
	NCE19CS027	ASWIN TT		
	NCE19CS022	ARJUN M		
	NCE19CS034	HARIKRISHNAN M		
7	NCE19CS024	ARUN S	Ms. SRUTHY MR	Smart gas leakage detection system
	NCE19CS026	ASWIN DAS		
	NCE19CS032	GOKULAN		
	NCE19CS002	ABHISHEK R		
8	NCE19CS005	ADARSH P	Ms. BETCY	Smart gate access and parking space allocation system
	NCE19CS010	AMAL KC UNNI		
	NCE19CS014	ANAND KB		
	NCE19CS023	ARJUN RAJ KR		
9	NCE19CS004	ABHILASH N	Ms. LINTA	Age based content restriction
	NCE19CS003	ABHIJITH KS		
	NCE19CS007	ALBIN JOSEPH		
	NCE19CS038	JAGATH B MADHAVAN		
10	NCE19CS017	ANOOP ANIL KUMAR	Ms. BABY V	Vehicle collision detection and alert system
	NCE19CS011	AMAL OP		
	NCE19CS036	IRFAN MV		
	NCE19CS037	IRSHAD KV		

PROJECT COORDINATORS

HOD

[Signature]

19
PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588





NEHRU COLLEGE OF ENGINEERING & RESEARCH CENTRE

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Pongakudi, Thiruvananthapuram, Thiruvananthapuram

Department of Computer Science & Engineering

CSD 415 PROJECT PHASE I

SECTION A

ZAROOR BHAYAN SCHEDULE

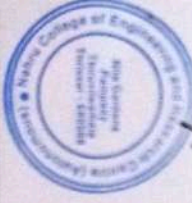
Sl. No.	REGISTRAR NUMBER	GROUP MEMBERS	NAME OF THE GUIDE	DATE AND TIME
1	NET19CSE011 NET19CSE006 NET19CSE013	GOPIKA K. KRISHNAN ARCHA K.M. ANAND A.A.C.T	Ms. RAJANAYAKA SHRI S.M. DIVYA S	11.10.22 1:00pm - 2:00pm
2	NET19CSE003 NET19CSE006 NET19CSE009	AJAYATHY NITHY ANANDAM GURTHI K.V ARCHANA.C.V	Ms. SNEHITHA S.M. SHRI S.M. DIVYA S	11.10.22 2:00pm - 3:00pm
3	NET19CSE003 NET19CSE009 NET19CSE019	GOPIKA V. KRISHNAN NAYYA K.P JYOTHIKA P	Ms. ARJUN K.M. SHRI S.M. DIVYA S	11.10.22 3:10pm - 4:00pm
4	NET19CSE016 NET19CSE021 NET19CSE019	ANALI NA ARCHA PS RAYA R	Ms. VYSAGH M.M. SHRI S.M. DIVYA S	14.10.22 2:30pm - 3:00pm
5	NET19CSE008 NET19CSE013 NET19CSE012	ALEENA SHIBU ANAMIKKA PK ANRUTHA P	Ms. PRAVERANA S.M. SHRI S.M. DIVYA S	13.10.22 11:10am - 12:10pm
6	NET19CSE018 NET19CSE011 NET19CSE017	ANUPAVITHRA PB HARSHON AL SHAJIC ASWIN TT	Ms. VIPIN K.M. SHRI S.M. DIVYA S	17.10.22 11:10am - 12:10pm
7	NET19CSE014 NET19CSE022 NET19CSE016	HARISHRAN M ARJUN M ASWIN DAS	Ms. SRUTHY M.M. SHRI S.M. DIVYA S	18.10.22 1:00pm - 2:00pm
8	NET19CSE002 NET19CSE005 NET19CSE010	ABHISHEK R ADARSH P ANAL K.C. LINGI	Ms. BECY M.S. SHRI S.M. DIVYA S	18.10.22 2:00pm - 2:30pm
9	NET19CSE014 NET19CSE004 NET19CSE007	ANAND KB AJITH RAJ K.R ABHIRASH N	Ms. LINTAM SHRI S.M. DIVYA S	18.10.22 2:30pm - 3:00pm
10	NET19CSE011 NET19CSE014 NET19CSE017	ANURAG ANIL K.R. M.A. ANAL C.P DEJAN MAY	Ms. RADY V.M. SHRI S.M. DIVYA S	18.10.22 3:10pm - 4:00pm

PROJECT COORDINATOR

PRINCIPAL

Neeru College of Engineering and Research Centre (Autonomous)

Kite Gardens, Pampady Thiruvananthapuram, Thiruvananthapuram - 695 048



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CIN: U74999KL1972SGC002450



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Thiruvananthapuram
KERALA, INDIA

Phone : 0472 - 2815999
Fax : 0472 - 2888736
E-mail : kectraining@keltron.org
Website : www.keltron.org

KEC/TDC/T/2023/2623/13937

March 17, 2023

CERTIFICATE

This is to certify that Mr. ABHIJITH P, B.Tech (Electronics & Communication Engineering) student, NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE, PAMPADY, THRISSUR, has successfully completed the Internship Training in our Power Electronics Group (PEG), Fabrication Shop, Transformer Winding, Electro Plating, Tool Room, Security and Surveillance Group (SSG), Special Products Group (SPG) and Technology Development Centre, of Keltron Equipment Complex, Thiruvananthapuram from 06/03/2023 to 12/03/2023.

His conduct and character during the period with us were good.



B. J. C. M.
Chief General Manager

S. S. S. S. S.
PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680508

Registered Office - Keltron House, Vellayambalam, Thiruvananthapuram - 695 033, Ph : 0471-4094444



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SRC/2023/0410



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

Aiswarya P



8th Semester B. Tech Electronics and Communication student of Nehru College of Engineering and Research Centre, Pampady.
For completion of the academic internship program at SinroRobotics Pvt Ltd on Embedded Systems, under the guidance of
Mr. Devi Prasad Mallen V (R&D Dept. Head)
from 06/03/2023 to 08/03/2023

08-Mar-2023

DATE



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Aiswarya P
PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvananthapuram, Thiruvananthapuram - 680009

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CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

Aiswarya R Nayanar



8th Semester B. Tech Electronics and Communication student of Nehru College of Engineering and Research Centre, Pampady.
For completion of the academic internship program at SinroRobotics Pvt Ltd on Embedded Systems, under the guidance of
Mr. Devi Prasad Mallen V (R&D Dept. Head)
from 06/03/2023 to 08/03/2023

Aiswarya

PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Indira Gandhi, Pampady
Thiruvithamoor, Tirunelveli - 620508

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08-Mar-2023

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SOUTHERN RAILWAY

Signal & Telecommunication Department
PALAKKAD DIVISION

This is to certify that Shri.Akshay C K of VIII semester, B.Tech in Electronics & Communication Engineering of Nehru College of Engineering & Research Center Thiruvilwamala, Thrissur District has successfully completed the implant training from 11.04.2023 to 13.04.2023 at Signal & Telecommunication Department Southern Railway, Palghat Division.

PALAKKAD
13.04.2023



K.M.BASHA
Sr.DSTE/PGT

ഒരു പക്ഷെ സിഗ്നൽ & ടെലികമ്മ്യൂണിക്കേഷൻ
എൻ്റെ സെൻ്റർ, പാലക്കാട്,
Sr Divisional Signal and
Telecommunication Engineer
S Railway Palghat



PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 689588

SRC/2023/0413



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

Anagha E.P



8th Semester B. Tech Electronics and Communication student of Nehru College of Engineering and Research Centre, Pampady.
For completion of the academic internship program at SinroRobotics Pvt Ltd on Embedded Systems, under the guidance of
Mr. Devi Prasad Mallen V (R&D Dept. Head)
from 06/03/2023 to 08/03/2023

08-Mar-2023

DATE



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Website: www.keltron.org

March 17, 2023

KEC/TDC/T/2023/2623/13939

CERTIFICATE

This is to certify that Mr. ANANDHU P D, B.Tech (Electronics & Communication Engineering) student, NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE, PAMPADY, THRISSUR, has successfully completed the Internship Training in our Power Electronics Group (PEG), Fabrication Shop, Transformer Winding, Electro Plating, Tool Room, Security and Surveillance Group (SSG), Special Products Group (SPG) and Technology Development Centre, of Keltron Equipment Complex, Thiruvananthapuram from 06/03/2023 to 12/03/2023.

His conduct and character during the period with us were good.



B. Jeyu
Chief General Manager

Srinivasan
PRINCIPAL
Nehru College of Engineering and
Research Centre
Nila Gardens
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KEC/TDC/T/2023/2623/13941

March 17, 2023

CERTIFICATE

This is to certify that Ms. ANASWARA K M, B.Tech (Electronics & Communication Engineering) student, NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE, PAMPADY, THRISSUR, has successfully completed the Internship Training in our Power Electronics Group (PEG), Fabrication Shop, Transformer Winding, Electro Plating, Tool Room, Security and Surveillance Group (SSG), Special Products Group (SPG) and Technology Development Centre, of Keltron Equipment Complex, Thiruvananthapuram from 06/03/2023 to 12/03/2023.

Her conduct and character during the period with us were good.



B. J. J. J.
Chief General Manager

[Signature]
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Nila Gardens, Pampady
Thiruvananthapuram, Thiruvananthapuram - 695 564

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SOUTHERN RAILWAY

Signal & Telecommunication Department

PALAKKAD DIVISION

This is to certify that Shri. Aswathi C S of VIII semester, B.Tech in Electronics & Communication Engineering of Nehru College of Engineering & Research Center Thiruvilwamala, Thrissur District has successfully completed the implant training from 11.04.2023 to 13.04.2023 at Signal & Telecommunication Department Southern Railway, Palghat Division.

PALAKKAD

13.04.2023

K.M.BASHA

Sr.DSTE/PGT



STRA KEN THIRU & VISUET KATHA

STRA KEN THIRU & VISUET KATHA

Sr. Divisional Signal and
Telecommunication Engineer
S. Railway Palghat

PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nis Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

Aswini K



8th Semester B. Tech Electronics and Communication student of Nehru College of Engineering and Research Centre, Pampady.
For completion of the academic internship program at SinroRobotics Pvt Ltd on Embedded Systems, under the guidance of
Mr. Devi Prasad Mallen V (R&D Dept. Head)
from 06/03/2023 to 08/03/2023

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08-Mar-2023

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Aswin. V



8th Semester B. Tech Electronics and Communication student of Nehru College of Engineering and Research Centre, Pampady.
For completion of the academic internship program at SinroRobotics Pvt Ltd on Embedded Systems, under the guidance of
Mr. Devi Prasad Mallen V (R&D Dept. Head)
from 06/03/2023 to 08/03/2023

08-Mar-2023

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Website: www.keltron.org

March 17, 2023

KEC/TDC/IT/2023/2623/13942

CERTIFICATE

This is to certify that Ms. DRISYA M, B.Tech (Electronics & Communication Engineering) student, NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE, PAMPADY, THRISSUR, has successfully completed the Internship Training in our Power Electronics Group (PEG), Fabrication Shop, Transformer Winding, Electro Plating, Tool Room, Security and Surveillance Group (SSG), Special Products Group (SPG) and Technology Development Centre, of Keltron Equipment Complex, Thiruvananthapuram from 06/03/2023 to 12/03/2023.

Her conduct and character during the period with us were good.



B. J. J.
Chief General Manager

S. S. S.

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Thiruvilwamala, Thrissur - 680588

Registered Office: Keltron House, Vellayambalam, Thiruvananthapuram - 695 033, Ph: 0471-4094444

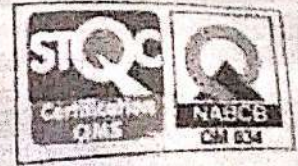


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Email : training@keltron.org
Website : www.keltron.org

KEC/TDC/T/2023/2623/13943

March 17, 2023

CERTIFICATE

This is to certify that Ms. GREENA SUNNY, B.Tech (Electronics & Communication Engineering) student, NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE, PAMPADY, THRISSUR, has successfully completed the Internship Training in our Power Electronics Group (PEG), Fabrication Shop, Transformer Winding, Electro Plating, Tool Room, Security and Surveillance Group (SSG), Special Products Group (SPG) and Technology Development Centre, of Keltron Equipment Complex, Thiruvananthapuram from 06/03/2023 to 12/03/2023.

Her conduct and character during the period with us were good.



Chief General Manager

Sauiravathy

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CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

Malavika Venugopal



8th Semester B. Tech Electronics and Communication student of Nehru College of Engineering and Research Centre, Pampady.
For completion of the academic internship program at SinroRobotics Pvt Ltd on Embedded Systems, under the guidance of
Mr. Devi Prasad Mallen V (R&D Dept. Head)
from 06/03/2023 to 08/03/2023

08-Mar-2023

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Devi Prasad Mallen V

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Website: www.keltron.org



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March 17, 2023

CERTIFICATE

This is to certify that Mr. PRAVEEN P, B.Tech (Electronics & Communication Engineering) student, NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE, PAMPADY, THRISSUR, has successfully completed the Internship Training in our Power Electronics Group (PEG), Fabrication Shop, Transformer Winding, Electro Plating, Tool Room, Security and Surveillance Group (SSG), Special Products Group (SPG) and Technology Development Centre, of Keltron Equipment Complex, Thiruvananthapuram from 06/03/2023 to 12/03/2023.

His conduct and character during the period with us were good.



B. D. Jay
Chief General Manager

S. S. S. S. S.
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Nehru College of Engineering and
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Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588





SOUTHERN RAILWAY

Signal & Telecommunication Department

PALAKKAD DIVISION

This is to certify that Shri.Raheeb U of VIII semester, B.Tech in Electronics & Communication Engineering of Nehru College of Engineering & Research Center Thiruvilwamala, Thrissur District has successfully completed the implant training from 11.04.2023 to 13.04.2023 at Signal & Telecommunication Department Southern Railway, Palghat Division.

PALAKKAD
13.04.2023


K.M.BASHA
Sr.DSTE/PGT

സംസ്ഥാന സിഗ്നൽ & ടെലികമ്മ്യൂണിക്കേഷൻ
വിഭാഗം, പാലക്കാട്,
Sr. Divisional Signal and
Telecommunication Engineer,
S Railway Palghat





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Research Center - (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588

SRC/2023/0414



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

Saranya C. M

8th Semester B. Tech Electronics and Communication student of Nehru College of Engineering and Research Centre, Pampady.
For completion of the academic internship program at SinroRobotics Pvt Ltd on Embedded Systems, under the guidance of

Mr. Devi Prasad Mallen V (R&D Dept. Head)
from 06/03/2023 to 08/03/2023



08-Mar-2023

DATE



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PRINCIPAL

Nehru College of Engineering and
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Nila Gardens, Pampady
Thiruvilwamala, Thirissur - 680588

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ITBG - Knowledge Services Group

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Phone: 0471-2724765 || Helpline No: +91 9188665545 || E-mail: itbg@keltron.org || Website Link : ksg.keltron.in

KSG/54/INTP/23-06/L0670

01.06.2023

CERTIFICATE

Certified that the student has completed the Internship Program conducted at KELTRON as per the particulars given below:

Name of the Student	Ms. A ANAKHA
Name & Address of the College/Institution at which the Student is Studying	Nehru College of Engineering & Research Centre, Thiruvilwamala, Pampady, Thrissur, Kerala - 680588
University/Board, which the Institution is Affiliated to	A P J Abdul Kalam Technological University (KTU), Kerala
Branch/Discipline of Study	B. Tech in Electronics & Communication Engineering
Student's Registration No.	NCE20EC001
Semester / Year of Study	6 th Semester
Name & Address of the Institution/Centre where the Internship Program was Conducted	Keltron Knowledge Centre (54), Near Govt. Ayurveda College, Trivandrum, Kerala
Online Portal Registration No.	KI023578
Roll No./Register No.	K2354I120014
Program Category	INTERNSHIP
Period & Duration of the Program	15.05.2023 to 28.05.2023 (2 Weeks)
Area of Exposure	Python Basics, Python Libraries, Introduction to Machine Learning, Types of Machine Learning, Algorithms in Machine Learning, Deep Learning Concepts, Classification & Regression, Python Data Types
Status	COMPLETED SUCCESSFULLY

Hidale
Authorized Signatory
(Knowledge Services)



Southern

Authorized Signatory and
Head of Centre (Autonomous)
Nehru College of Engineering and Research Centre (Autonomous)
Thiruvilwamala, Thrissur - 680588

Regd. Office: Keltron House, Vellayambalam, Thiruvananthapuram, Kerala State, India. Pin 695 033, Tel: 0471-4094444

Doc. No: KSG/LH/04-23/013(2500)

Visit us at our website : <http://www.keltron.org>



ACCELMOVE
DYNAMICS



Reg no: 100210



CERTIFICATE OF INTERNSHIP

This is to certify that

Amal C Bose



student of **Nehru College of Engineering and Research Centre, Pampady** was in our company as an intern from 3/5/23 to 17/5/23 in the Robotics EdTech Product development unit.

During their 15 days internship on **Artificial Intelligence and Robotics** with us, they actively contributed to various projects and initiatives. They exhibited a high level of professionalism, adaptability, and an ability to work effectively both independently and as a part of a team. We wish them continued success in all their future endeavors.



Signature

Signature

SBC 8, 2nd floor, Thejaswini Building, Technopark

Engineering and Autonomous)
Pampady
Thiruvikramala, Thrissur

RAJASEKHARAN A H
FOUNDER & CEO
SRAT SMART SOLUTIONS PVT LTD



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KEC/47/INT/23.07/1170

22.07.2023

CERTIFICATE

Certified that the Student has completed the Internship Program conducted at KELTRON as per the particulars given below:

Name of the Student	Ms. DARSANA ANAND
Name & Address of the College/Institution at which the Student is Studying	Nehru College of Engineering & Research Centre, Thiruvilwamala (P.O), Pampady, Thrissur - 680588, Kerala
University/Board, which the Institution is Affiliated to	A P J Abdul Kalam Technological University (KTU), Kerala
Branch/Discipline of Study	B Tech in Electronics & Communication Engineering
Student's Registration No.	NCE20EC007
Semester / Year of Study	6 th Semester
Name & Address of the Institution/Centre where the Internship Program was conducted	Keltron Knowledge Centre (42), 3 rd Floor, MES Cultural Complex, Kaloor, Ernakulam - 682017, Kerala
Online Portal Registration No.	KI024335
Roll No./Register No.	K23421110115
Program Category	INTERNSHIP
Period & Duration of the Program	04.05.2023 to 10.05.2023 (1 Week)
Area of Exposure	Embedded System Concepts, Introduction to Python Programming
Status	COMPLETED SUCCESSFULLY

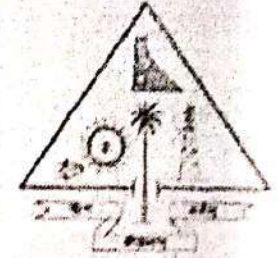


**Authorized Signatory
(Knowledge Services)**



PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nile Ganga Vihar, Pampady
Thiruvilwamala, Thrissur - 680588

CERTIFICATE OF INTERNSHIP AT AUVIEO. AI



THIS INTERNSHIP PROGRAM CERTIFICATE IS PROUDLY PRESENTED TO

DARSANA ANAND



FOR THE OUTSTANDING PARTICIPATION AND HARD
WORK AS THE INTERN FOR AI BASED PROJECT
FROM 16/05/2023 TILL 09/06/2023

DATE 24 July 2023


GENERAL MANAGER



SITRAIN Digital Industry Academy

Certificate of participation

AMBIKA S . (Nehru College of Engineering and Research Centre,)

took part in the Learning Event

Basic Automation on S7 1200 PLC

(CU-PLC), Learning Consultant: PSNA PSNA College of Engineering & Techn

from 15/05/2023 to 19/05/2023.

The following contents were taught:

- Hardware Know-How S7-1200 / S7-1500.
- Working with TIA Portal V17.
- Linear & Structured Programming using Ladder , FBD.
- Hardware & Software Diagnostics Options.
- PLC-Drive , PLC-HMI PN/DP Communication
- I/O Handling (Digital & Analog)

Sauvrasaty

PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



Dindigul, 19/05/2023

Sachin Bhanushali

Sachin Bhanushali
Head-Customer Trainings
Industry Sector-Customer Services

ISO 9001:2015 Certified Training Academy/Certificate-ID: 1642391900001

SIEMENS

Kerala State Electronics Development Corporation Ltd.
(A Government of Kerala Undertaking)

KELTRON
CIN: U74999KL1972SGC002450

ITBG - Knowledge Services Group

GSTIN: 32AABCK1319E425

Phone: 0471-2724765 || Helpline No: +91 9168665545 || E-mail: iteg@keltron.org || Website Link: ksg.keltron.in

22 07 2023

KSG/42/INTP/23-07/L2172

CERTIFICATE

Certified that the Student has completed the Internship Program conducted at KELTRON as per the particulars given below

Name of the Student	Ms. ANUSREE V A
Name & Address of the College/Institution at which the Student is Studying	Nehru College of Engineering & Research Centre, Thiruvilwamala (P.O), Pampady, Thrissur - 680588, Kerala
University/Board, which the Institution is Affiliated to	A P J Abdul Kalam Technological University (KTU), Kerala
Branch/Discipline of Study	B. Tech in Electronics & Communication Engineering
Student's Registration No.	NCE20EC004
Semester / Year of Study	6 th Semester
Name & Address of the Institution/Centre where the Internship Program was conducted	Keltron Knowledge Centre (42), 3 rd Floor, MES Cultural Complex, Kaloor, Ernakulam - 682017, Kerala
Online Portal Registration No	KI024332
Roll No /Register No.	K23421110117
Program Category	INTERNSHIP
Period & Duration of the Program	04.05.2023 to 10.05.2023 (1 Week)
Area of Exposure	Embedded System Concepts, Introduction to Python Programming
Status	COMPLETED SUCCESSFULLY

Authorized Signatory
(Knowledge Services)



Sauirasaferu

PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588

Regd. Office: Keltron House, Vellayambalam, Thiruvananthapuram, Kerala State, India. Pin 695 033. Tel: 0471-4064444

Doc. No: KSG/INTP/23-07/20001

Visit us at our website: <http://www.keltron.org>



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**TECHBYHEART**

Reg Office: 54/2987 B1 1st Floor Kalluvor Building Pampady Road
Chankulam, PO: Kadavanthra, Kochi, Kerala 682020. Tel No: 9011 017 038

Ref: TBH/IN1/ES/2023-2024/98/09

Date: 29/05/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Arya V a student of Nehru College of Engineering and Research Centre has successfully completed an internship program on Embedded System from 22nd May 2023 to 29th May 2023 at Techbyheart

We found her extremely inquisitive and hardworking. She was very much interested in learning the functions of our core division and also willing to put her best efforts and get into the depth of the subjects to understand it better

We wish her every success in life.

For Techbyheart!



Human Resource

Sauirasa



PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



TECHBYHEART

Reg. Office: 54, 2067 B1 1st Floor, Kollam Building, Thiruvilwamala Road,
Thiruvilwamala, PO Kadavayal, Kozhikode, Kerala 682020. Tel No: 9014 032 010

Ref: TBH/INT/IS/2023-2024/98/01

Date: 29/05/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Aswin K P** a student of Nehru College of Engineering and Research Centre has successfully completed an internship program on Embedded System from 22nd May 2023 to 29th May 2023 at Techbyheart.

We found him extremely inquisitive and hardworking. He was very much interested in learning the functions of our core division and also willing to put his best efforts and get into the depth of the subjects to understand it better.

We wish him every success in life.

For Techbyheart!

Human Resource



Sauvasappu

PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588

✉ info@techbyheart.in

🌐 www.techbyheart.in

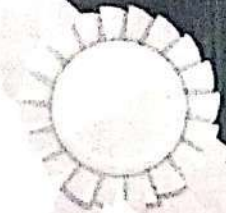


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ACCELMOVE
DYNAMICS



Reg no: 100207



CERTIFICATE OF INTERNSHIP

This is to certify that

Gopika Krishnan A

student of **Nehru College of Engineering and Research Centre, Pampady** was in our company as an intern from 3/5/23 to 17/5/23 in the Robotics EdTech Product development unit.



During their 15 days internship on **Artificial Intelligence and Robotics** with us, they actively contributed to various projects and initiatives. They exhibited a high level of professionalism, adaptability, and an ability to work effectively both independently and as a part of a team. We wish them continued success in all their future endeavors.



Rajasekharan A H
PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nile Gardens, Pampady
Thrissur - 680588

Rajasekharan A H
RAJASEKHARAN A H
FOUNDER & CEO
SRAI SMART SOLUTIONS PVT LTD

SBC 8, 2nd floor, Thejaswini Building, Technopark

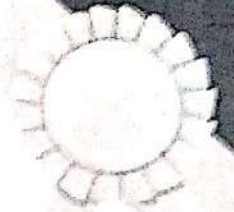


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ACCELMOVE
DYNAMICS



Reg no: 100599



CERTIFICATE OF INTERNSHIP

This is to certify that

Gopika Krishnan A

student of **Nehru College of Engineering & Research Centre, Pambady** was in our company as an intern from 18/5/23 to 24/5/23

During their 7 days internship on **Full Stack Web Development Using Python** with us, they actively contributed to various projects and initiatives. They exhibited a high level of professionalism, adaptability, and an ability to work effectively both independently and as a part of a team. We wish them continued success in all their future endeavors.



PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Pambady, Thrissur - 680533

RAJASEKHARAN A H
FOUNDER & CEO
SRAI SMART SOLUTIONS PVT LTD

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Reg. Office: 54/2767 B1 1st Floor Kothinor Building Temple Road
Dambukam, PO, Kadamventhra, Kochi, Kerala 682670. Tel No: 9574 677 638

Ref: TBH/INT/ES/2023-2024/98/02

Date: 29/05/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Jeelson Shaji a student of Nehru College of Engineering and Research Centre has successfully completed an internship program on Embedded System from 22nd May 2023 to 29th May 2023 at Techbyheart.

We found him extremely inquisitive and hardworking. He was very much interested in learning the functions of our core division and also willing to put his best efforts and get into the depth of the subjects to understand it better.

We wish him every success in life.

For Techbyheart!

Human Resource



Santhosh

PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588

ITBG - Knowledge Services Group

GSTIN: 32AA8CK1319E475

Phone: 0471-2724765 & Helpline No: +91 9188665545 & E-mail: deg@keltron.org & Website Link: www.keltron.in

KSG/42/INTP/23-07/12169

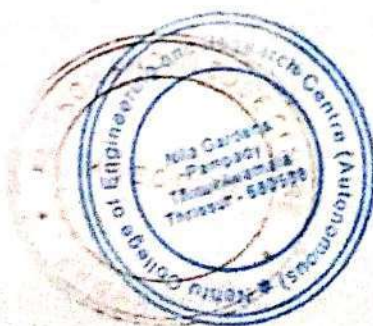
22.07.2023

CERTIFICATE

Certified that the Student has completed the Internship Program conducted at KELTRON as per the particulars given below:

Name of the Student	Ms. JISHNA T R
Name & Address of the College/Institution at which the Student is Studying	Nehru College of Engineering & Research Centre, Thiruvilwamala (P.O), Pampady Thirissur - 680588, Kerala
University/Board to which the Institution is Affiliated to	A.P.J. Abdul Kalam Technological University (KTU), Kerala
Branch/Discipline of Study	B. Tech in Electronics & Communication Engineering
Student's Registration No.	NC520EC011
Semester/Year of Study	6 th Semester
Name & Address of the Institution/Centre where the Internship Program was conducted	Keltron Knowledge Centre (42), 3 rd Floor, MES Cultural Complex, Kaloor, Ernakulam - 682017, Kerala
Online Portal Registration No.	KID04954
Ref. No./Registration No.	K2342/110104
Program Category	INTERNSHIP
Period & Duration of the Program	04.05.2023 to 10.05.2023 (1 Week)
Area of Exposure	Embedded System Concepts, Introduction to Python Programming
Status	COMPLETED SUCCESSFULLY

Authorized Signatory
(Knowledge Services)



Sainivasappan

PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nile Garden, Pampady
Thiruvilwamala, Thirissur - 680588



INTERNSHIP CERTIFICATION



This is to certify that

Mr./Ms. JISHNA T R

has successfully completed her/his internship in Internet of Things

from 12-Apr-2023 to 12-Jun-2023. During this period the

student was found to be dedicated, determined and hardworking.



Certificate number: AGI23040421
For certificate authentication
Scan QR code

Challa Rohit
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pamadady
Thiruvilwamala, Thrissur - 680598

Challa Rohit

Challa Rohit
Academic Head



ITBG - Knowledge Services Group

GSTIN 32AABCK1319E4Z5

Phone: 0471-2724765 || Helpline No: +91 9188665545 || E-mail: ileg@keltron.org || Website Link : ksg.keltron.in

KSG/42/INTP/23-07/L2171

22.07.2023

CERTIFICATE

Certified that the Student has completed the Internship Program conducted at KELTRON as per the particulars given below:

Name of the Student	Mr. M ARUNKUMAR
Name & Address of the College/Institution at which the Student is Studying	Nehru College of Engineering & Research Centre, Thiruvilwamala (P.O), Pampady, Thrissur - 680588, Kerala
University/Board, which the Institution is Affiliated to	A P J Abdul Kalam Technological University (KTU), Kerala
Branch/Discipline of Study	B. Tech in Electronics & Communication Engineering
Student's Registration No.	NCE20EC012
Semester / Year of Study	6 th Semester
Name & Address of the Institution/Centre where the Internship Program was conducted	Keltron Knowledge Centre (42), 3 rd Floor, MES Cultural Complex, Kaloor, Ernakulam - 682017, Kerala
Online Portal Registration No.	KI024349
Roll No./Register No.	K2342110116
Program Category	INTERNSHIP
Period & Duration of the Program	04.05.2023 to 10.05.2023 (1 Week)
Area of Exposure	Embedded System Concepts, Introduction to Python Programming
Status	COMPLETED SUCCESSFULLY



Sani Sivasappu
PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588

Authorized Signatory

Regd. Office: Knowledge Services Group, Vellayambalam, Thiruvananthapuram, Kerala State, India. Pin: 695 033, Tel: 0471-4094444

Doc. No: KSG/LH05-23/014(2000)

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Temp No: KSG/INTP/Tyre: L2/01/04/2019



TECHBYHEART

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Chittikulam, PO, Kuttanadan, Kuttan, Kerala-682020, Tel No: 94474 237 038

Ref: TBH/INT/ES/2023-2024/98/06

Date: 29/09/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Parvathi T P a student of Nehru College of Engineering and Research Centre has successfully completed an internship program on Embedded System from 22nd May 2023 to 29th May 2023 at Techbyheart.

We found her extremely inquisitive and hardworking. She was very much interested in learning the functions of our core division and also willing to put her best efforts and get into the depth of the subjects to understand it better.

We wish her every success in life.

For Techbyheart!



Human Resource



Sauvrasappu
PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nilg Gardens, Pampsey
Thiruvilwamala, Thiruvallur - 680588



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Dharmakulam, P.O. Kadesanghara, Kochi, Kerala 682020, Tel No: 9174 027 038

Ref: TBH/INT/ES/2023-2024/98/10

Date: 29/05/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Sanjana P a student of Nehru College of Engineering and Research Centre has successfully completed an internship program on Embedded System from 22nd May 2023 to 29th May 2023 at Techbyheart.

We found her extremely inquisitive and hardworking. She was very much interested in learning the functions of our core division and also willing to put her best efforts and get into the depth of the subjects to understand it better.

We wish her every success in life.

For Techbyheart!

Human Resource



Sanjana P

PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588

ITBG - Knowledge Services Group

GSTIN: 32AABCR1406L75

Phone: 0471 2724765 B Helpline No: +91 9168665545 B E-mail: itbg@keltron.org B Website Link: ksg.keltron.in

KSG/42/INTP/23-07/L2173

22.07.2023

CERTIFICATE

Certified that the Student has completed the Internship Program conducted at KELTRON as per the particulars given below:

Name of the Student	Ms. SONA R
Name & Address of the College/Institution at which the Student is Studying	Nehru College of Engineering & Research Centre, Thiruvilwamala (P.O) Pampady Thirissur - 680588, Kerala
University/Board, which the Institution is Affiliated to	A P J Abdul Kalam Technological University (KTU), Kerala
Branch/Discipline of Study	B. Tech in Electronics & Communication Engineering
Student's Registration No	NCE20EC016
Semester / Year of Study	6 Semester
Name & Address of the Institution/Centre where the Internship Program was conducted	Keltron Knowledge Centre (42), 3 rd Floor, MES Cultural Complex, Kaloor, Ernakulam - 682017, Kerala
Online Portal Registration No	KI024328
Roll No./Register No.	K23421110118
Program Category	INTERNSHIP
Period & Duration of the Program	04.05.2023 to 10.05.2023 (1 Week)
Area of Exposure	Embedded System Concepts, Introduction to Python
Status	COMPLETED SUCCESSFULLY


Authorized Signatory
(Knowledge Services)




PRINCIPAL
Nehru College of Engineering and Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thirissur - 680588



TECHBYHEART

Reg Office: 54/2967 B1 1st Floor Kohinoor Building Temple Road
Flankulam, PO: Kadavanthra, Kochi, Kerala 682020. Tel No: 9074 027 009

Ref: TBH/INT/ES/2023-2024/98/08

Date: 29/05/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Vidhya Narayanan** a student of Nehru College of Engineering and Research Centre has successfully completed an internship program on Embedded System from 22nd May 2023 to 29th May 2023 at Techbyheart.

We found her extremely inquisitive and hardworking. She was very much interested in learning the functions of our core division and also willing to put her best efforts and get into the depth of the subjects to understand it better.

We wish her every success in life.

For Techbyheart!



Human Resource



Santhosh

PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



SOUTHERN RAILWAY

Signal & Telecommunication Department
PALAKKAD DIVISION

This is to certify that Miss.Arya K R of IV semester, B.Tech in Electronics & Communication Engineering of Nehru College of Engineering and Research Centre Thiruvilwamala, Thrissur District has successfully completed the inplant training from 23/05/2023 to 27/05/2023 at Signal & Telecommunication Department Southern Railway, Palghat Division.

PALAKKAD
27/05/2023




K.M.BASHA
Sr.DSTE/PGT

സീനിയർ ഡിവിഷണൽ സിഗ്നൽ & ടെലികമ്മ്യൂണിക്കേഷൻ എഞ്ചിനീയർ,
സീനിയർ ടെക്നിക്കൽ ഓഫീസർ,
Sr Divisional Signal and
Telecommunication Engineer
S. Railway Palghat


PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680598



SOUTHERN RAILWAY

Signal & Telecommunication Department
PALAKKAD DIVISION

This is to certify that *Shri.Dwijesh T D* of IV semester,
B.Tech in Electronics & Communication Engineering of Nehru
College of Engineering and Research Centre Thiruvilwamala,
Thrissur District has successfully completed the inplant
training from 23/05/2023 to 27/05/2023 at Signal &
Telecommunication Department Southern Railway, Palghat
Division.

PALAKKAD
27/05/2023



K.M.BASHA
Sr.DSTE/PGT

സർവ്വ മേൽ നൽകിയ വിവരങ്ങൾ ശരിയായതായി
നിരീക്ഷിച്ചു കണ്ടു. അതിനാൽ,
Sr Divisional Signal and
Telecommunication Engineer
of Railway Palghat

PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nisa Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



SOUTHERN RAILWAY

Signal & Telecommunication Department

PALAKKAD DIVISION

This is to certify that Shri. Muhammed Sabith.K.M of IV semester, B.Tech Electronics & Communication Engineering of Nehru College of Engineering & Research Center Thiruvilwamala, Thrissur Dist. has Successfully completed the inplant training from 23.05.2023 to 27.05.2023 at Signal & Telecommunication department Southern Railways Palghat Division.

PALAKKAD

27.05.2023

K.M.BASHA

Sr.DSTE/PGT



കൂടുതൽ പദവികൾക്കായി തയ്യാറെടുക്കുക

വിവിധ തലങ്ങളിൽ, പാലക്കാട്,

Sr Divisional Signal and
Telecommunication Engineer

& Railway Palghat



PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



SOUTHERN RAILWAY

Signal & Telecommunication Department
PALAKKAD DIVISION

This is to certify that *Shri.Nakul Dev K* of IV semester, B.Tech in Electronics & Communication Engineering of Nehru College of Engineering and Research Centre Thiruvilwamala, Thrissur District has successfully completed the inplant training from 23/05/2023 to 27/05/2023 at Signal & Telecommunication Department Southern Railway, Palghat Division.

PALAKKAD
27/05/2023



K.M.BASHA
Sr.DSTE/PGT

സംസ്ഥാന മാനവ വികസന കമ്മീഷൻ
ജനീവ രാജ്യം, സ്വീറ്റ്സർലൻഡ്,
Sr Divisional Signal and
Telecommunication Engineer
S. Railway Palghat



Srinivasan
PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



SOUTHERN RAILWAY

Signal & Telecommunication Department
PALAKKAD DIVISION

This is to certify that *Shri.Praveen K P* of IV semester, B.Tech in Electronics & Communication Engineering of *Nehru College of Engineering and Research Centre Thiruvilwamala, Thrissur District* has successfully completed the inplant training from 23/05/2023 to 27/05/2023 at Signal & Telecommunication Department Southern Railway, Palghat Division.

PALAKKAD

27/05/2023



K.M.BASHA
Sr.DSTE/PGT

സീനിയർ ഡിവിഷണൽ സിഗ്നൽ & ടെലികമ്മ്യൂണിക്കേഷൻ എഞ്ചിനീയർ
സീനിയർ ഡിവിഷണൽ സിഗ്നൽ & ടെലികമ്മ്യൂണിക്കേഷൻ എഞ്ചിനീയർ
S. Railway Palghat

PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



SOUTHERN RAILWAY

Signal & Telecommunication Department
PALAKKAD DIVISION

This is to certify that Miss.Siya Y of IV semester, B.Tech in Electronics & Communication Engineering of Nehru College of Engineering and Research Centre Thiruvilwamala, Thrissur District has successfully completed the inplant training from 23/05/2023 to 27/05/2023 at Signal & Telecommunication Department Southern Railway, Palghat Division .

PALAKKAD
27/05/2023



K.M.BASHA
Sr.DSTE/PGT

സംസ്ഥാന സിഗ്നൽ & ടെലികമ്മ്യൂണിക്കേഷൻ ഡിവിഷൻ

പാലക്കാട് റെയിൽവേ, പാലക്കാട്.

Sr Divisional Signal and
Telecommunication Engineer
& Railway Palghat



Southern Railway
PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



TECHBYHEART

Reg. Office: 68/26A, 1st Floor, Kottayam, Kottayam, Kerala
Contact: 9447848888, 9447848889, 9447848890, 9447848891, 9447848892, 9447848893, 9447848894, 9447848895, 9447848896, 9447848897, 9447848898, 9447848899

Ref: TBH/INT/IS/2023-2024/98/07

Date: 29/05/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Aleesha Fathima K A** a student of Nehru College of Engineering and Research Centre has successfully completed an internship program on Embedded System from 22nd May 2023 to 29th May 2023 at Techbyheart

We found her extremely inquisitive and hardworking. She was very much interested in learning the functions of our core division and also willing to put her best efforts and get into the depth of the subjects to understand it better.

We wish her every success in life.

For Techbyheart!



Human Resource



Santhosh

PRINCIPAL

Nehru College of Engineering and Research Centre (Autonomous)

info@techbyheart.in

www.techbyheart.in



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Ref: SMEC-23/5 780
Date - 18th May 2023**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. Athira P B, S4 student from ECE dept., Nehru College of Engineering & Research Centre, Pampady has successfully completed her internship program in **Cyber Security** at SMEC Automation Pvt. Ltd. from 15th May 2023 to 30th May 2023.

During this period, she has acquired sufficient knowledge and skill in her field of expertise. She is having good exposure, initiative, and a positive attitude towards completion of given task within the time frame. Her conduct and discipline through the period were very good.

I wish her all the best in her future endeavors.

For SMEC Automation Pvt. Ltd.


Authorised Signatory

PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



CIN No. U45309KL2001PTC014516

SMEC Automation Pvt. Ltd.
SPEZ, Office No-GB-5,
Ground Floor, Athulya Building
Infopark Kochi P O, Kochi

Ref: SMEC-23/5 777
Date - 18th May 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. M Adhith Krishna, S4 student from ECE dept., Nehru College of Engineering & Research Centre, Pampady has successfully completed his internship program in Cyber Security at SMEC Automation Pvt. Ltd. from 15th May 2023 to 30th May 2023.

During this period, he has acquired sufficient knowledge and skill in his field of expertise. He is having good exposure, initiative, and a positive attitude towards completion of given task within the time frame. His conduct and discipline through the period were very good.

I wish him all the best in his future endeavors.

For SMEC Automation Pvt. Ltd.

Authorised Signatory



PRINCIPAL

Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



Head Office : SMEC Automation Pvt. Ltd. 2nd floor, Kaloor, Corporation Complex, Kerala 682 017
Works: Door No.: 38/1882, Maveli Road, Gandhi Nagar, Kadavanthra, Ernakulam, Kerala, 682020
Email : connect@smectechnologies.com, Web : www.smectechnologies.com. Ph : +91 484 2340904



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UST

August 04, 2023

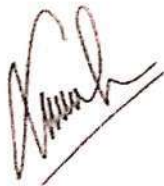
TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mridula Muralidharan (UID - 254457) from NCERC has completed internship in UST from June 12, 2023 to July 31, 2023.

Mridula Muralidharan's performance was good during this period, and she has successfully completed the internship training at UST on Face Filter Web App.

UST wishes all the success for her future endeavors.

For US Technology International Pvt. Ltd



Vinesh George
Director - Human Resources



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August 04, 2023

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This is to certify that Anargha Ramachandran (UID - 254454) from Nehru College of Engineering And Research Center, Pambady Thrissur has completed internship in UST from June 12, 2023 to July 31, 2023.

Anargha Ramachandran's performance was good during this period, and she has successfully completed the internship training at UST on Weather app.

UST wishes all the success for her future endeavors.

For US Technology International Pvt. Ltd



Vinesh George
Director - Human Resources



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TECHBYHEART

Reg Office: 54/2967 B1 1st Floor Kohinoor Building Temple Road
Elamkulam, P.O. Kadalavanthra, Kochi, Kerala 682020, Tel No: 9074 027 038

Ref:
TBH/INT/ES/2023-2024/98/03

Date:
29/05/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Vishnu P Nair a student of Nehru College of Engineering and Research Centre has successfully completed an internship program on Embedded System from 22nd May 2023 to 29th May 2023 at Techbyheart.

We found him extremely inquisitive and hardworking. He was very much interested in learning the functions of our core division and also willing to put his best efforts and get into the depth of the subjects to understand it better.

We wish him every success in life.

For Techbyheart!

Human Resource



13

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Thiruvilwamala, Thrissur - 680588

SOLAR OPERATED SMART MULTIFUNCTIONAL FLOOR CLEANING ROBOT

PROJECT REPORT

Submitted by

ABHIJITH P

NCE19EC001

ASWIN V

NCE19EC013

MALAVIKA VENUGOPAL

NCE19EC018

SRIJUSH P R

NCE19EC026

to

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



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE
(APPROVED BY AICTE, ISO 9001:2015 CERTIFIED,**

NAAC ACCREDITED WITH A GRADE)

PAMPADY, THIRUVIVAMALA, THRISSUR-680588



JUNE 2023

Signature
PRINCIPAL
Nehru College of Engineering and
Research Centre

DECLARATION

We undersigned hereby declare that the project report "Solar Operated Smart Multifunctional Floor Cleaning Robot", submitted for partial fulfillment of the requirements for the award of degree of Bachelor of Technology of the APJ Abdul Kalam Technological University, Kerala is a bona-fide work done by ours under the supervision of **Mr. Vishnu Prabha N Kaimal**, Assistant Professor of Electronics and Communication Engineering, NCERC, Pampady. This submission represents our ideas in our own words and where ideas or words of others have been included, we have adequately and accurately cited and referenced the original sources. we also declare that we have adhered to ethics of academic honesty and integrity and have not misrepresented or fabricated any data or idea or fact or source in my submission. we understand that any violation of the above will be a cause for disciplinary action by the institute and/or the university and can also evoke penal action from the sources that have thus not been properly cited or from whom proper permission has not been obtained. This report has not previously formed the basis for the award of any degree, diploma, or similar title of any other university.

Place : **Pampady**
Date : **16-05-2023**

Signature

Malavika Venugopal

Abhijith P

Aswin V

Srijush P R



32/05/2023



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (ACCREDITED
BY NAAC)**

PAMPADY, THIRUVILWAMALA, THRISSUR, KERALA



CERTIFICATE

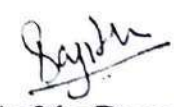
This is to certify that the report entitled **"SOLAR OPERATED SMART MULTIFUNCTIONAL FLOOR CLEANING ROBOT"** submitted by **ABHIJITH P, ASWIN V, MALAVIKA VENUGOPAL, SRIJUSH P R** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology, Department of Electronics and Communication 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.


Internal Supervisor(s)


External Supervisor(s)


Project Coordinator




Head of the Department


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Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680588

ABSTRACT

The conventional floor cleaning machines is most widely used in airport platforms, railway platforms, hospitals, bus stands, malls and in many other commercial places. These devices need an electrical energy for its operation and not user friendly. In India, especially in summer, there is power crisis and most of the floor cleaning machine is not used effectively due to this problem, particularly in bus stands. Hence it is a need to develop low cost, user friendly floor cleaning machine. In this project, an effort has been made to develop a solar powered mobile operated floor cleaning machine so that it can be an alternative for conventional floor cleaning machines. In this work, modelling and analysis of the floor cleaning machine was done using suitable commercially available software. The conventionally used materials were considered for the components of floor cleaning machine. From the finite element analysis, we observe that the stress level in the mobile operated floor cleaning machine is within the safe limit. Automated floor cleaning machines are commonly used in developing countries since many years because of high cost of labor, time, efforts and affordability. The concept is not popular in developing or emerging economic countries. Reasons for non-popularity are cost of machine and operational charges in terms of power tariff. This article is based upon on our innovative project to design, development and manufacturing of semi-automatic solar powered mobile operated floor cleaning machine which will work on solar energy, mobile communication, battery or electricity. A semi-automatic floor cleaning machine is developed by keeping basic consideration for less energy consumption, machine as well as operational cost reduction, reduce the human effort, environment friendly and easy to handle. Base of the project was to use renewable energy which is abundant in most of the countries, will have less environmental impact.



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seivisapay

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Thiruvilwamala, Thrissur - 680588

NCERC, Pampady

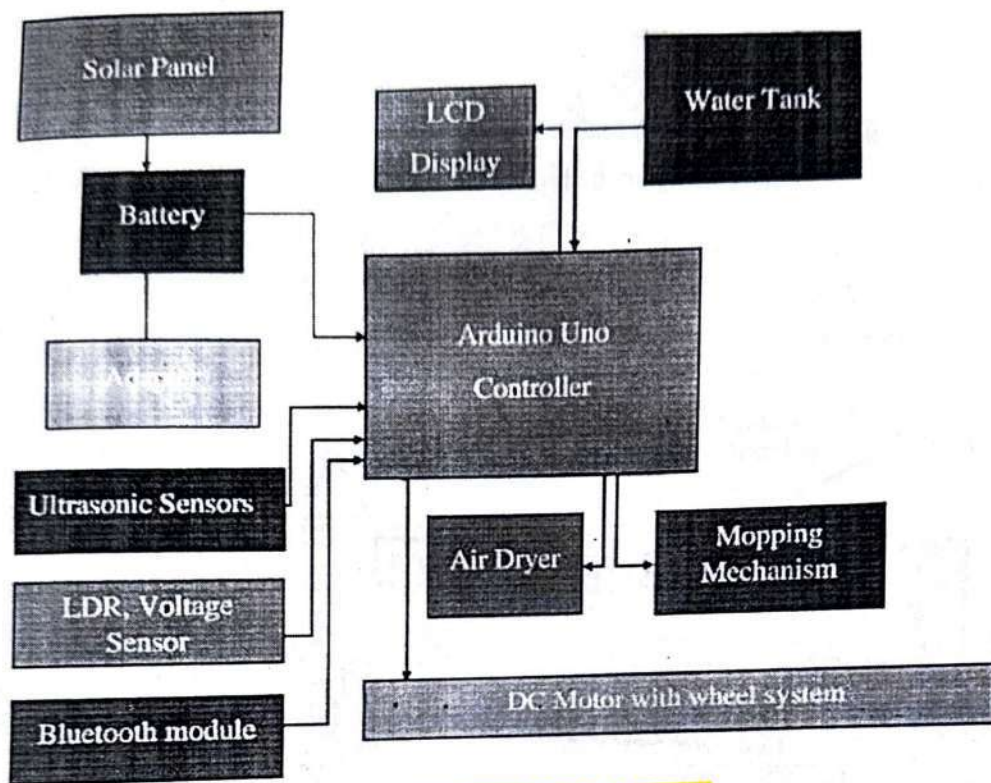


Figure 1. System block diagram

3.3 System Flowchart

The figure 2 shows the system flowchart. And the process starts at the vacuum power is on. The DC motor will start moving forward and the ultrasonic sensor will detect if there is an object and according to that the device directions will change. When the battery is low the vacuum will stop cleaning and search for a light source. If the vacuum is full, it will send notification to the user phone via Bluetooth and power off the vacuum.

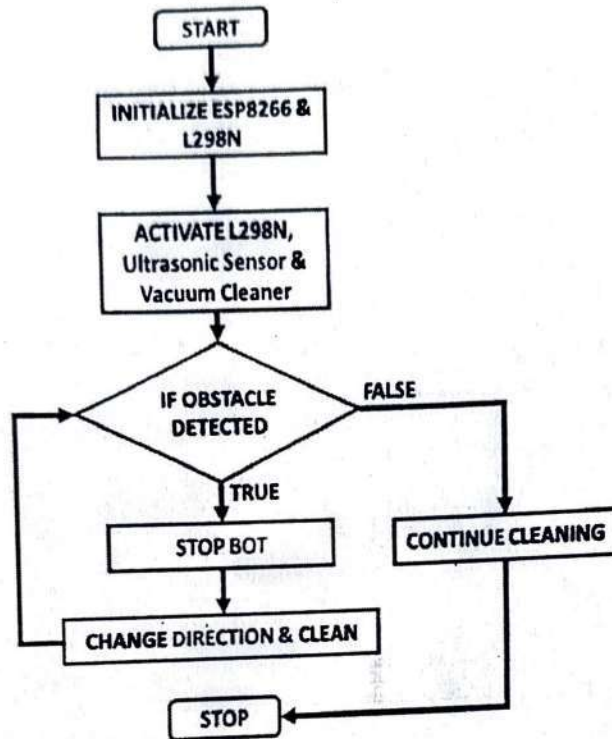


Figure 2. System Flowchart



Seemabesappa

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CHAPTER 4 CIRCUIT DIAGRAM

When Solar Panel of 20w is applied and their electric energy stored in battery. 12v DC battery supply is provided to the electrical switch board of the machine. The main supply from electrical board is supplied to a Vacuum cleaner, during working DC is supplied to the vacuum cleaner. Vacuum cleaner is used to operate the DC motors which performs a key role in cleaning operation.

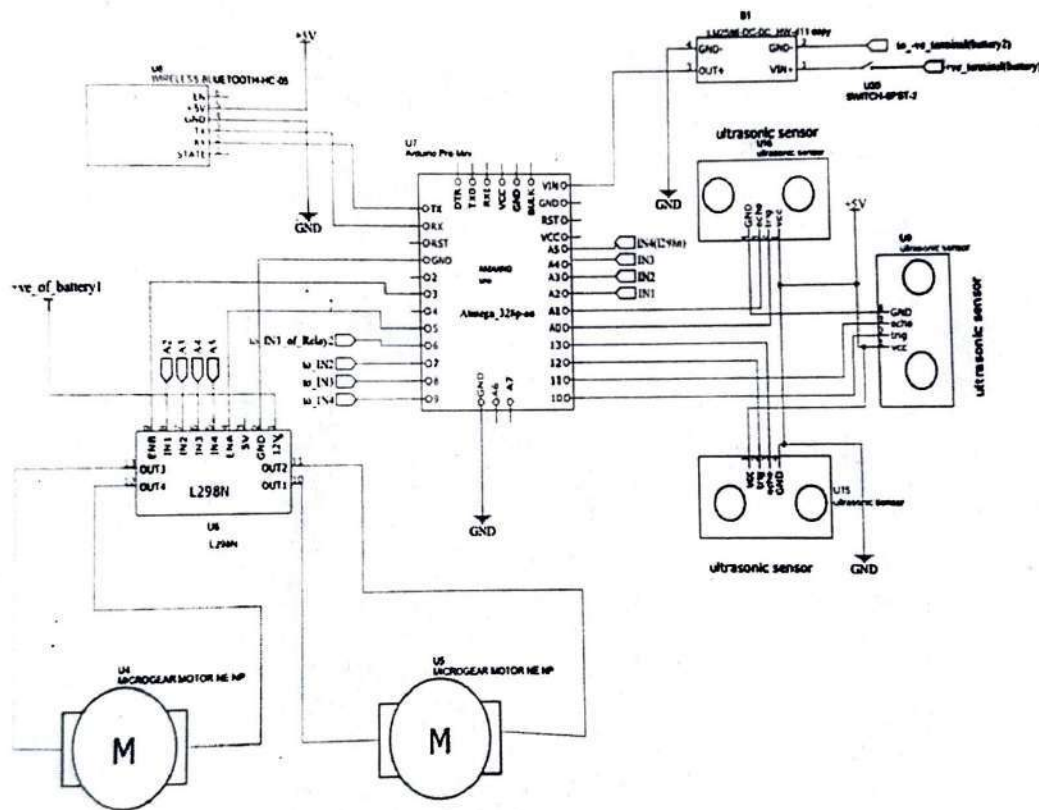


Figure 3. Main Circuit Diagram

There are three D.C motors one is used to rotate the mop for cleaning the middle surface that is covered by the chassis. The DC motor used for rotation of the mop having high torque than the motor used for the brushes. The other two DC motors having high RPM are used to clean the front

CHAPTER 8

RESULTS AND DISCUSSION

The aim of this project is to design and develop a Vacuum Cleaning Robot.

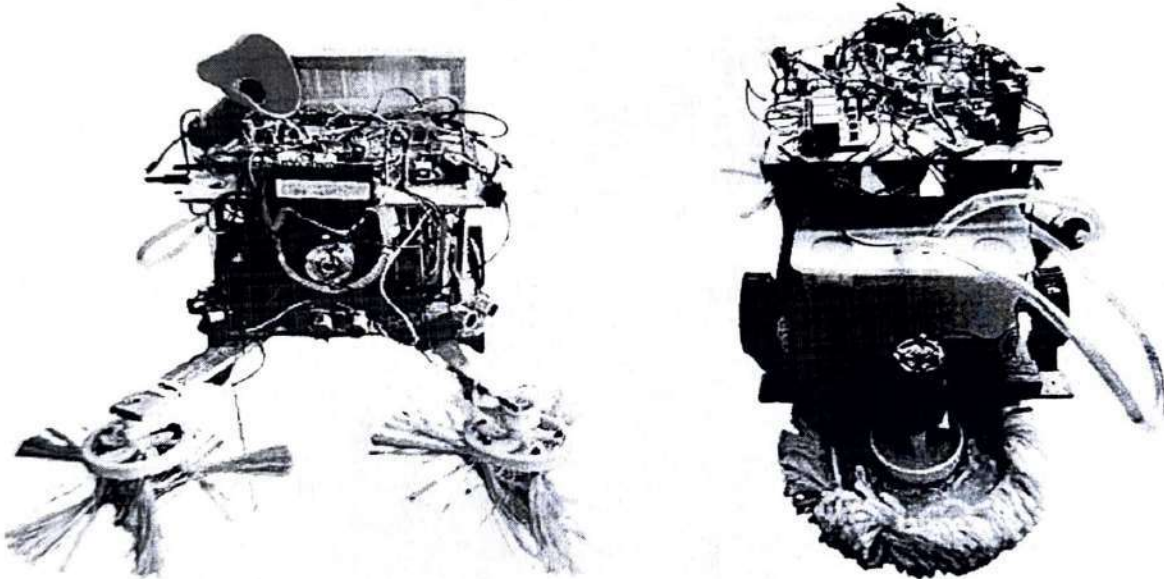


Fig . Full Development System



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INTERNSHIP DETAILS- 2019-2023 BATCH-EEE

AY:2022-23

SL No.	Reg No.	Name	Internship duration	Company Details
1	NCE19EE001	ABHINANDH MENON N	11/04/2023 to 13/04/2023	Southern Railway Palakkad Division
2	NCE19EE002	AMBIL B S	27/03/2023 to 31/03/2023	Kerala State Electricity Board Limited, 220kV Substation, Shornur
3	NCE19EE003	DHANUSH K MUKUNDAN	23/03/2023 to 25/03/2023	Kerala Electrical & Allied Engineering Co. Ltd., Kochi
4	NCE19EE004	DIVYA K G	11/04/2023 to 13/04/2023	Southern Railway Palakkad Division
5	NCE19EE005	HARIKRISHNAN C	23/03/2023 to 25/03/2023	Kerala Electrical & Allied Engineering Co. Ltd., Kochi
6	NCE19EE006	JINEESH JAYAKUMAR THOMAS	23/03/2023 to 25/03/2023	Kerala Electrical & Allied Engineering Co. Ltd., Kochi
7	NCE19EE007	KALIDASAN K V	11/04/2023 to 13/04/2023	Southern Railway Palakkad Division
8	NCE19EE008	KIRAN S	23/03/2023 to 25/03/2023	Kerala Electrical & Allied Engineering Co. Ltd., Kochi
9	NCE19EE009	MUFEEHDA SIREEN M S	27/03/2023 to 31/03/2023	Kerala State Electricity Board Limited, 220kV Substation, Shornur
10	NCE19EE010	NAVYA P V	27/03/2023 to 31/03/2023	Kerala State Electricity Board Limited, 220kV Substation, Shornur
11	NCE19EE011	PADMARAJ P R	23/03/2023 to 25/03/2023	Kerala Electrical & Allied Engineering Co. Ltd., Kochi
12	NCE19EE012	SREEJITH P	23/03/2023 to 25/03/2023	Kerala Electrical & Allied Engineering Co. Ltd., Kochi
13	NCE19EE013	SREEAKSHMI P	27/03/2023 to 31/03/2023	Kerala State Electricity Board Limited, 220kV Substation, Shornur
14	NCE19EE014	VIVEK A	11/04/2023 to 13/04/2023	Southern Railway Palakkad Division
15	LNCE19EE016	MIDHUN C	23/03/2023 to 25/03/2023	Kerala Electrical & Allied Engineering Co. Ltd., Kochi

CLASS ADVISOR

HOD

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Research Centre
Nga Gardens, Thiruvananthapuram - 695058
Thiruvananthapuram, India - 695058



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INTERNSHIP DETAILS- 2020-2024 BATCH-EEE DEPARTMENT

EEE 2020-24 BATCH INTERNSHIP DETAILS				
AY:2022-23				
Sl.No.	REGISTER NUMBER	NAME OF THE STUDENT	INTERNSHIP DURATION	PLACE OF INTERNSHIP
1	NCE20EE001	ABHIRAM M	15/05/23-19/05/23	KINFRA, PALAKKAD DT.,KERALA
2	NCE20EE002	AKASH V	15/05/23-19/05/23	KINFRA, PALAKKAD DT.,KERALA
3	NCE20EE004	ASWATHY A M	15/05/23-19/05/23	SIEMENS,CoE, DINDIGUL, TAMILNADU
4	NCE20EE006	MIDHUN MADHAV	15/05/23-19/05/23	SIEMENS,CoE, DINDIGUL, TAMILNADU
5	NCE20EE007	MIDHUN NATARAJAN	15/05/23-19/05/23	KINFRA, PALAKKAD DT.,KERALA
6	NCE20EE008	MUHAMMED BADHUSHA S	15/05/23-19/05/23	KINFRA, PALAKKAD DT.,KERALA
7	NCE20EE009	NIBIN R	15/05/23-19/05/23	SIEMENS,CoE, DINDIGUL, TAMILNADU
8	NCE20EE010	RIDHUL R	15/05/23-19/05/23	KINFRA, PALAKKAD DT.,KERALA
9	NCE20EE011	S RIDHESH	15/05/23-19/05/23	SIEMENS,CoE, DINDIGUL, TAMILNADU
10	NCE20EE012	SREERAG A	15/05/23-19/05/23	KINFRA, PALAKKAD DT.,KERALA
11	NCE20EE013	SREYA P M	15/05/23-19/05/23	SIEMENS,CoE, DINDIGUL, TAMILNADU
12	NCE20EE014	SUBIN S	15/05/23-19/05/23	SIEMENS,CoE, DINDIGUL, TAMILNADU
13	LNCE20EE016	ABIDH A	15/05/23-19/05/23	KINFRA, PALAKKAD DT.,KERALA
14	LNCE20EE017	ANANDU PRAVEEN G	15/05/23-19/05/23	KINFRA, PALAKKAD DT.,KERALA
15	LNCE20EE018	ARJUN V	15/05/23-19/05/23	SIEMENS,CoE, DINDIGUL, TAMILNADU

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Approved by AICTE, New Delhi.



K. V. Thanthi
Thiru. R. S. Kothandaraman
Founder

Date: 19.05.2023

To whomsoever it may concern

This is to certify that the **Mr. SRIRAG K S** of II Year EEE from "Nehru College of Engineering and Research Centre, Pampady, Thrissur, Kerala" have completed their Internship program from 15.05.2023 to 19.05.2023 5 Days (40 Hours) with hands-on training in Siemens Automation products in PSNA-SIEMENS Centre of Excellence (A Siemens Authorized Training Centre) at PSNA College of Engineering and Technology, Dindigul, Tamil Nadu. We wish All the Best for his Future endeavour.

For PSNA-SIEMENS CoE


Head of the Department
EEE




Coordinator
PSNA-SIEMENS CoE



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PROJECT EVALUATION COMMITTEE - FORMATION

YEAR / SEM : IV/ VII
BATCH : 2019-2023

SEPTEMBER 01, 2022
ACADEMIC YEAR : 2022-23

Sl. No.	Faculty Member	Responsibility	Signature
1	Dr. Sobha Manakkal	Head of the Department	
2	Dr. Renuka Devi .B	Senior Faculty Member	
3	Prof. P.T.Rajeena Mol	Project Coordinator	
4	Prof. P.Rajesh	Project Supervisor	
5	Prof. P. Sundaramoorthi	Project Supervisor	
6	Prof. David E	Project Supervisor	
7	Prof. Anoop Kumar M V	Project Supervisor	
8	Prof. K Maheswaran	Project Supervisor	
9	Prof. Saranya Nair	Project Supervisor	



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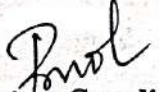


SCHEDULE FOR PROJECT FIRST REVIEW

Course Code : EED 415

Course Name : Project Phase I

GROUP	REGISTER NUMBER	NAME OF THE STUDENT	NAME OF THE GUIDE	PROJECT TITLE	DATE AND TIME
I	NCE19EE001	Abhinandh Menon N	Prof. David E 	Password Based Circuit Breaker using IoT	NOVEMBER 05, 2022 02:00-02:30 PM
	NCE19EE005	HariKrishnan G			
	NCE19EE008	Kiran S			
	NCE19EE007	Kalidasan K V			
II	NCE19EE002	Ambili B S	Prof. Rajesh P 	Smart Energy Meter for Microgrid with Hybrid Sources	NOVEMBER 05, 2022 02:30 - 03:00 PM
	NCE19EE011	Padmaraj P R			
	NCE19EE013	Sreelakshmi P			
	NCE19EE014	Vivek A			
III	NCE19EE003	Dhanush K Mukundan	Prof. Anoop Kumar M V 	Steer by Wire System	NOVEMBER 05, 2022 03:00-03:30 PM
	NCE19EE004	Divya K G			
	NCE19EE006	Jineesh Jayakumar Thomas			
	LNCE19EE016	Midhun C			
IV	NCE19EE009	Mufeedha Sireen M S	Prof. Sundaramoorthi P 	Distribution Side Fault Detection and Disconnection using GSM	NOVEMBER 05, 2022 03:30 - 04:00 PM
	NCE19EE010	Navya P V			
	NCE19EE012	Sreejith P			
	LNCE19EE015	Ajith P			


Project Coordinator


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MINUTES OF PROJECT EVALUATION COMMITTEE MEETING
Academic Year : 2022-23

Year / Sem : IV/VII

Batch : 2019-23

Course Code : EED 415

Course Name : Project Phase I

AGENDA

1. Project Norms as per KTU
2. Formation of Groups
3. Selection of topics
4. Selection of Guide
5. Project Reviews

Venue: Hall No: 301

Date: September 02, 2022

Time : 12:30 - 01:00 pm

Members Present

1. Dr. Sobha Manakkal
2. Dr. Renuka Devi. B
3. Prof. P.T. Rajeena Mol
4. Prof. P. Rajesh
5. Prof. P. Sundaramoorthi
6. Prof. David E
7. Prof. Anoop Kumar M V
8. Prof. K Maheswarar
9. Prof. Saranya Nair
10. Abhinandh Menon N - Final Year Student
11. Ambili B S - Final Year Student

S.No	Subject	Action by	Target date
1	Project activity calendar	Prof. P.T. Rajeena Mol	September 12, 2022
2	Norms for evaluation	As per KTU	-
3	Formation of Groups - Maximum of three members in a group	Students	September 20, 2022
4	Selection of Guide	Students and Faculty Member	September 27, 2022
5	Selection of Topics	Students and Guides	October 10, 2022
6	Zeroth Review- Project title to be confirmed	Project Evaluation Committee and students	October 14, 2022
7	First Review - Interim Evaluation Literature survey to be completed. Objective of the project to be	Project Evaluation Committee and students	November 03-04, 2022

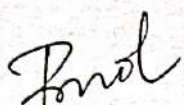




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	framed.		
8	Second Review – Interim Evaluation Block diagram, circuit diagram, simulation and expected results	Project Evaluation Committee and students	December 15-16, 2022
9	Project Phase I – Final Evaluation	Project Evaluation Committee and students	December 20-21, 2022


Project Coordinator


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Thiruvilwamala, Thrissur - 680588



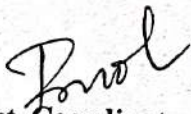
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PROJECT ACTIVITY CALENDAR

Course Code : EED 415
Course Name : Project Phase I

S.No	Activity	Target Date
1	Formation of Groups - Maximum of three members in a group	September 20, 2022
2	Selection of Guide	September 27, 2022
3	Selection of Topics	October 10, 2022
4	Zeroth Review- Project title to be formed	October 14, 2022
5	First Review – Interim Evaluation Literature survey to be completed. Objective of the project to be framed.	November 03-04, 2022
6	Project Report – Rough draft submission	December 12, 2022
7	Second Review – Interim Evaluation Block diagram, circuit diagram, simulation and expected results	December 15-16, 2022
8	Project Report Binded Copy submission	December 19, 2022
9	Project Phase I – Final Evaluation	December 20-21, 2022


Project Coordinator


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Nila Gardens, Pampady
Thiruvilwamala, Thrissur



FORMATION OF PROJECT GROUP

Course Code : EED 415

Course Name : Project Phase I

GROUP	REGISTER NUMBER	NAME OF THE STUDENT
I	NCE19EE001	Abhinandh Menon N
	NCE19EE005	HariKrishnan G
	NCE19EE008	Kiran S
	NCE19EE007	Kalidasan K V
II	NCE19EE002	Ambili B S
	NCE19EE011	Padmaraj P R
	NCE19EE013	Sreelakshmi F
	NCE19EE014	Vivek A
III	NCE19EE003	Dhanush K Mukundan
	NCE19EE004	Divya K G
	NCE19EE006	Jineesh Jayakumar Thomas
	LNCE19EE016	Midhun C
IV	NCE19EE009	Mufeedha Sireen M S
	NCE19EE010	Navya P V
	NCE19EE012	Sreejith P
	LNCE19EE015	Ajith P





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Project Coordinator

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SELECTION OF GUIDES

Course Code : EED 415

Course Name : Project Phase I

GROUP	REGISTER NUMBER	NAME OF THE STUDENT	NAME OF THE GUIDE	Signature
I	NCE19EE001	Abhinandh Menon N	Prof. David E	
	NCE19EE005	HariKrishnan G		
	NCE19EE008	Kiran S		
	NCE19EE007	Kalidasan K V		
II	NCE19EE002	Ambili B S	Prof. Rajesh P	
	NCE19EE011	Padmaraj P R		
	NCE19EE013	Sreelakshmi P		
	NCE19EE014	Vivek A		
III	NCE19EE003	Dhanush K Mukundan	Prof. Anoop Kumar M V	
	NCE19EE004	Divya K G		
	NCE19EE006	Jineesh Jayakumar Thomas		
	LNCE19EE016	Midhun C		
IV	NCE19EE009	Mufeedha Sireen M S	Prof. Sundaramoorthi P	
	NCE19EE010	Navya P V		
	NCE19EE012	Sreejith P		
	LNCE19EE015	Ajith P		

Project Coordinator

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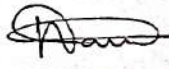
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SCHEDULE FOR PROJECT ZEROth REVIEW

Course Code :EED 415

Course Name : Project Phase I

GROUP	REGISTER NUMBER	NAME OF THE STUDENT	NAME OF THE GUIDE	DATE AND TIME
I	NCE19EE001	Abhinandh Menon N	Prof. David E 	OCTOBER 14, 2022 02:00-02:30 PM
	NCE19EE005	HariKrishnan G		
	NCE19EE008	Kiran S		
	NCE19EE007	Kalidasan K V		
II	NCE19EE002	Ambili B S	Prof. Rajesh P 	OCTOBER 14, 2022 02:30 – 03:00 PM
	NCE19EE011	Padmaraj P R		
	NCE19EE013	Sreelakshmi P		
	NCE19EE014	Vivek A		
III	NCE19EE003	Dhanush K Mukundan	Prof. Anoop Kumar M V	OCTOBER 14, 2022 03:00-03:30 PM
	NCE19EE004	Divya K G		
	NCE19EE006	Jineesh Jayakumar Thomas		
	LNCE19EE016	Midhun C		
IV	NCE19EE009	Mufeedha Sireen M S	Prof. Sundaramoorthi P 	OCTOBER 14, 2022 03:30 – 04:00 PM
	NCE19EE010	Navya P V		
	NCE19EE012	Sreejith P		
	LNCE19EE015	Ajith P		


Project Coordinator



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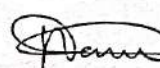
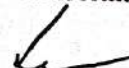
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



SELECTION OF PROJECT TITLE

Course Code : EED 415

Course Name : Project Phase I

GROUP	REGISTER NUMBER	NAME OF THE STUDENT	NAME OF THE GUIDE	PROJECT TITLE
I	NCE19EE001	Abhinandh Menon N	Prof. David E 	Password Based Circuit Breaker using IoT
	NCE19EE005	HariKrishnan G		
	NCE19EE008	Kiran S		
	NCE19EE007	Kalidasan K V		
II	NCE19EE002	Ambili B S	Prof. Rajesh P 	Smart Energy Meter for Microgrid with Hybrid Sources
	NCE19EE011	Padmaraj P R		
	NCE19EE013	Sreelakshmi P		
	NCE19EE014	Vivek A		
III	NCE19EE003	Dhanush K Mukundan	Prof. Anoop Kumar M V 	Steer by Wire System
	NCE19EE004	Divya K G		
	NCE19EE006	Jineesh Jayakumar Thomas		
	LNCE19EE016	Midhun C		
IV	NCE19EE009	Mufeedha Sireen M S	Prof. Sundaramoorthi P 	Distribution Side Fault Detection and Disconnection using GSM
	NCE19EE010	Navya P V		
	NCE19EE012	Sreejith P		
	LNCE19EE015	Ajith P		


Project Coordinator


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SCHEDULE FOR EED 416 – PROJECT PHASE II – VIVA VOCE

& EET 404 - COMPREHENSIVE COURSE WORK – VIVA VOCE

S.No	Register Number	Name of the Student	DATE	TIMING
1	NCE19EE001	Abhinandh Menon N	June 21, 2023	09:30-10:10 am
2	NCE19EE002	Ambili B S	June 21, 2023	10:10-10:50 am
3	NCE19EE003	Dhanush K Mukundan	June 21, 2023	10:50-11:30 am
4	NCE19EE004	Divya K G	June 21, 2023	11:30 -12:10 pm
5	NCE19EE005	HariKrishnan C	June 21, 2023	12:10 -12:50 pm
6	NCE19EE006	Jineesh Jayakumar Thomas	June 21, 2023	01:30-02:10 pm
7	NCE19EE007	Kalidasan K V	June 21, 2023	02:10 – 02:50 pm
8	NCE19EE008	Kiran S	June 21, 2023	02:50 -03:30 pm
9	NCE19EE009	Mufeedha Sireen M S	June 22, 2023	09:30-10:10 am
10	NCE19EE010	Navya P V	June 22, 2023	10:10-10:50 am
11	NCE19EE011	Padmaraj P R	June 22, 2023	10:50-11:30 am
12	NCE19EE012	Sreejith P	June 22, 2023	11:30 -12:10 pm
13	NCE19EE013	Sreelakshmi P	June 22, 2023	12:10 -12:50 pm
14	NCE19EE014	Vivek A	June 22, 2023	01:30-02:10 pm
15	LNCE19EE015	Ajith P	June 22, 2023	02:10 – 02:50 pm
16	LNCE19EE016	Midhun C	June 22, 2023	02:50 -03:30 pm

CLASS ADVISOR

H6D

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21/06/2023



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

MINUTES OF PROJECT EVALUATION COMMITTEE MEETING
Academic Year : 2022-23

Year / Sem : IV/VIII

Batch : 2019-23

Course Code : EED 416

Course Name : Project Phase II

AGENDA

1. Project Norms as per KTU
2. Interim Project Evaluation
3. Project Diary
4. Completion of Project Hardware
5. Paper Presentation in Conference
6. Paper Publication in Journal
7. Patent Filing
8. Project Report
9. Final Project Evaluation

Venue: Hall No: 301

Date: January 30, 2023

Time : 02:00 – 03:00 pm

Members Present

1. Dr. Sobha Manakkal
2. Dr. Renuka Devi
3. Prof. P.T. Rajeena Mol
4. Prof. P. Rajesh
5. Prof. P. Sundaramoorthi
6. Prof. David E
7. Prof. Anoop Kumar M V
8. Prof. K Maheswaran
9. Prof. Saranya Nair
10. Abhinandh Menon N – Final Year Student
11. Ambili B S – Final Year Student

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S.No	Subject	Action by	Target date
1	Project activity calendar	Prof. P.T.Rajeena Mol	February 06,2023
2	Norms for evaluation	As per KTU	-
3	First Review – Interim Evaluation Hardware completion , draft of conference paper	Project Evaluation Committee and students	March 03, 2023
4	Second Review – Interim Evaluation , Hardware completion ,conference paper publication , project competition, Project Report	Project Evaluation Committee and students	March 31, 2023
5	Submission of Binded Hardcopy project report, Submission of paper publication, details , project competition details	Project Evaluation Committee and students	April 20, 2023

[Signature]

Project Coordinator

[Signature]
HoD



[Signature]
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Thiruvilwamala, Thrissur - 680588



SITRAIN **Digital Industry Academy**

Certificate of participation

SREYA P M . (Nehru College of Engineering and Research Centre,)

took part in the Learning Event

Basic Automation on S7 1200 PLC

(CU-PLC), Learning Consultant: PSNA PSNA College of Engineering & Techn

from 15/05/2023 to 19/05/2023.

The following contents were taught:

- Hardware Know-How S7-1200 / S7-1500.
- Working with TIA Portal V17.
- Linear & Structured Programming using Ladder , FBD.
- Hardware & Software Diagnostics Options.
- PLC-Drive , PLC-HMI PN/DP Communication
- I/O Handling (Digital & Analog)

Dindigul, 19/05/2023



Sachin Bhanushali
Head-Customer Trainings
Industry Sector-Customer Services



SITRAIN **Digital Industry Academy**

Certificate of participation

ARJUN V (Nehru College of Engineering and Research Centre,)

took part in the Learning Event

Basic Automation on S7 1200 PLC

(CU-PLC), Learning Consultant: PSNA PSNA College of Engineering & Techn

from 15/05/2023 to 19/05/2023.

The following contents were taught:

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- Working with TIA Portal V17.
- Linear & Structured Programming using Ladder , FBD.
- Hardware & Software Diagnostics Options.
- PLC-Drive , PLC-HMI PN/DP Communication
- I/O Handling (Digital & Analog)

Dindigul, 19/05/2023



Sachin Bhanushali
Head-Customer Trainings
Industry Sector-Customer Services

INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that **Mr. ABHIRAM M (NCE20EE001)** Electrical and Electronics Engineering student of **Nehru College of Engineering and Research Centre, Thrissur** has successfully completed the Internship program in **Embedded System** at **EWOLWE** during the period from 15/05/2023 to 19/05/2023.

For Ewolwe




Sajeesh R
(HR Manager)

Overhead Tank Building - OHT 03,
KINFRA Integrated Industrial Park
Ottapalam - 679 103
+91 9447 904797
info@ewolwe.in

INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that **Mr. MIDHUN NATARAJAN (NCE20EE007)** Electrical and Electronics Engineering student of **Nehru College of Engineering and Research Centre, Thrissur** has successfully completed the Internship program in **Embedded System** at **EWOLWE** during the period from 15/05/2023 to 19/05/2023.

For Ewolwe




Sajeesh R
(HR Manager)

Overhead Tank Building - OHT 03,
KINFRA Integrated Industrial Park
Ottapalam - 679 103
+91 9447 904797
info@ewolwe.in

INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that **Mr. MUHAMMED BADHUSHA (NCE20EE008)**
Electrical and Electronics Engineering student of **Nehru College of Engineering and Research Centre, Thrissur** has successfully completed the Internship program in **Embedded System** at **EWOLWE** during the period from 15/05/2023 to 19/05/2023.

For Ewolwe




Sajeesh R
(HR Manager)

Overhead Tank Building - OHT 03,
KINFRA Integrated Industrial Park
Ottapalam - 679 103
+91 9447 904797
info@ewolwe.in

INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that **Mr. AKASH V (NCE20EE002)** Electrical and Electronics Engineering student of **Nehru College of Engineering and Research Centre, Thrissur** has successfully completed the Internship program in **Embedded System** at **EWOLWE** during the period from 15/05/2023 to 19/05/2023.

For Ewolwe




Sajeesh R
(HR Manager)

Overhead Tank Building - OHT 03,
KINFRA Integrated Industrial Park
Ottapalam - 679 103
+91 9447 904797
info@ewolwe.in

INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that **Mr. RIDHUL (NCE20EE010)** Electrical and Electronics Engineering student of **Nehru College of Engineering and Research Centre, Thrissur** has successfully completed the Internship program in **Embedded System** at **EWOLWE** during the period from 15/05/2023 to 19/05/2023.

For Ewolwe



Sajeesh R
(HR Manager)

Overhead Tank Building - OHT 03,
KINFRA Integrated Industrial Park
Ottapalam - 679 103
+91 9447 904797
info@ewolwe.in

INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that **Mr. SREERAG (NCE20EE012)** Electrical and Electronics Engineering student of **Nehru College of Engineering and Research Centre, Thrissur** has successfully completed the Internship program in **Embedded System** at **EWOLWE** during the period from 15/05/2023 to 19/05/2023.

For Ewolwe



Sajeesh R
(HR Manager)

Overhead Tank Building - OHT 03,
KINFRA Integrated Industrial Park
Ottapalam - 679 103
+91 9447 904797
info@ewolwe.in

INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that **Mr. ABIDH (LNCE20EE016)** Electrical and Electronics Engineering student of **Nehru College of Engineering and Research Centre, Thrissur** has successfully completed the Internship program in **Embedded System** at **EWOLWE** during the period from 15/05/2023 to 19/05/2023.

For Ewolwe




Sajeesh R
(HR Manager)

Overhead Tank Building - OHT 03,
KINFRA Integrated Industrial Park
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+91 9447 904797
info@ewolwe.in

INTERNSHIP CERTIFICATE

31/05/2023

To Whom It May Concern

This is to certify that **Mr. ANANDHU PRAVEEN (LNCE20EE017)** Electrical and Electronics Engineering student of **Nehru College of Engineering and Research Centre, Thrissur** has successfully completed the Internship program in **Embedded System** at **EWOLWE** during the period from 15/05/2023 to 19/05/2023.

For Ewolwe




Sajeesh R
(HR Manager)

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DEPARTMENT OF MECHANICAL ENGINEERING

ENROLMENT LIST OF INTERNSHIP (2022-2023)

No	Reg No	Name	Semester	Year
1	NCE/ME012	YOUNUS.A.Y	S7	2023


Head of the Department



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Government Engineering College Palakkad, Sreekrishnapuram

Under Section 2(F) of UGC Act 1956
(Approved by AICTE & Affiliated to APJ Abdul Kalam Technical University)

Certificate of Participation

This is to certify that Mr./Ms. KANUNUS : A.V of

Nehru College of Engineering & Research Centre

has participated a hands-on internship programme on "Introduction to Computational Fluid
Dynamics using Ansys Fluent" organized by **Centre for Continuing Education, Government
Engineering College Palakkad**, Sreekrishnapuram from 8th May to 12th May 2023.

[Signature]
Dr. P. C. Heghu Raj

Dr. P C Reghuraj
PRINCIPAL, GEC
PALAKKAD



[Signature]
Abdul Kareem Puthiyaveetil

Abdul Kareem Puthiyaveetil
MANAGER CCE, ASST. PROF.,
EEE DEPT., GEC PALAKKAD



[Signature]
Dr. P. A. Abdul Samad

Dr. P. A. Abdul Samad
PROF., ME DEPT.,
GEC PALAKKAD

[Signature]
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Research Centre, Palakkad
Thiruvithamala, Thrissur - 680558



TECHBYHEART

Reg. Office: 54/2967 B1 1st Floor Kohinoor Building Temple Road
Elamkulam, PO, Kadavanthra, Kochi, Kerala 682020, Tel No: 9074 027 038

Ref: TBH/INT/AD/2023-2024/98/01

Date: 29/05/2023

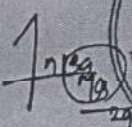
TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Younus A Y** a student of Nehru College of Engineering and Research Centre has successfully completed an internship program on Autocad from 22nd May 2023 to 29th May 2023 at Techbyheart.

We found him extremely inquisitive and hardworking. He was very much interested in learning the functions of our core division and also willing to put his best efforts and get into the depth of the subjects to understand it better.

We wish him every success in life.

For Techbyheart!



Human Resource




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Project Groups

Project Group No	Student ID	Reg No	Guide	Project Title	Subject Area
1	NCE19ME001	Abijith J	Dr Girish Chandran V	Automatic Adjustable wrench	Design
	NCE19ME002	Abinav T J			
	NCE19ME008	Arjun K R			
2	NCE19ME003	Ajay S	Mr Rahul R	Design and fabrication of mini rice harvesting and threshing machine	Design, Manufacturing
	NCE19ME013	Gopakumar E R			
	NCE19ME014	Haritha H			
	NCE19ME019	Sarath C M			
3	NCE19ME004	Amal Surya N S	Mr Manuraj K R	Electric vehicle design and manufacture of single seated car	Automobile, Electric Vehicle
	NCE19ME005	Anandan Nair P			
	NCE19ME011	Ashiq Anwar Elamkulath			
	NCE19ME021	Shreyas K Murali			
4	NCE19ME007	Anil Krishna K	Mr Vimal M N	Development of transparent A Pillar for reducing blind spot in vehicles	Design, Automobile
	NCE19ME009	Arun M V			
5	NCE19ME006	Anaz Ali	Mr Sabarish C s	Automatic two wheeler centre stand	Design, Automobile
	NCE19ME010	Ashik K S			
	NCE19ME015	Jishnu G			
	NCE19ME016	Muhammed Faris K			
6	NCE19ME018	Rohit J	Dr Girish Chandran V	Solar seed sowing Machine	Design, Manufacturing
	NCE19ME020	Shine Sundar			
	NCE19ME022	Vishakh			




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DEPARTMENT OF MECHATRONICS ENGINEERING

PROJECT PHASE II:
BATCH 2019-23
AY-2022-23

Course Code: MRD 416

Course Name: Project Phase II

GROUP	REG. NO.	STUDENTS NAME	GUIDE	PROJECT TITLE
1	NCE19MC001 NCE19MC011 NCE19MC016 NCE19MC017	AARDRAV MS ASWIN KRISHNA K JERIN DAVIS JIM JOSE	MR. MIDHUNRAJ PK	AUTONOMOUS BATTERY REPLACEMENT SYSYTEM
2	NCE19MC007 NCE19MC003 NCE19MC004 NCE19MC027	AKASH BS ABHIJITH BS ADITHIA KRISHNA ROY RS	MR. NIVETH L	QUADRAPED ROBOT
3	NCE19MC009	AMRITA S NAIR	MR. MIDHUNRAJ PK	DESIGN AND PART PLANNING OF AN AUTONOMOUS ROVER
4	NCE19MC022 NCE19MC026 NCE19MC019 NCE19MC014	MOHANAKRISHNAN RISHANA MOL KI JYOTHISREE GAUTHAM RA	MR. NIVETH L	HAND GESTURE TO TEXT AND SPEECH CONVERTER



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GROUP	REG. NO.	STUDENTS NAME	GUIDE	PROJECT TITLE
5	NCE19MC025 NCE19MC028 NCE19MC031 NCE19MC033	MUHAMMED SHAROOF RUHA JOICE SARATH K SUNIL VIJAY K	MR. REJUMON R	AUTOMATIC POTHOLE FITTING ROBOT
6	NCE19MC002 NCE19MC005 NCE19MC010 NCE19MC018	AASHIN SHIBU V AISWARYA V ASWIN J JOEL BENJAMIN PJ	MS. NEETHU M	SOLAR POWERED ROAD CLEANNING RORBOT
7	NCE19MC021 NCE19MC024 NCE19MC029 NCE19MC030	MOHAMMED FAVAS MUHAMMED FAYS SAM MATHEW SARATH CHANDRAN	MR. SANEESH AS	MULTI PURPOSE AGRICULTURE ROBOTIC SYSYTEM
8	NCE19MC020 NCE19MC024	KAILAS SANKAR K VIPEESH KRISHNAN	Dr. BOBBY ND	AUTONOMOUS NURSING ASSISTANT
9	NCE19MC015 NCE19MC012 NCE19MC032	HAYAM FAZAN ASWIN THOMAS SUDHEESH SS	MR. RANJITH PN/ Mr. VINOD R	MAGNETIC PERPETUAL MOTION MACHINE
10	NCE19MC006 NCE19MC008 NCE19MC013 NCE19MC023	AJMAL P AKHIL U CHARLES C KAPPEN MS NIMAL	Dr. BOBBY ND	INTELIGENT REVERSE BRAKING SYSTEM

Project Co-Ordinator:



Hod

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S8 MTR – 2019-2023 Batch

ECD 416 Project Phase II

Evaluation Committee

1. HOD -	Dr. Bobby ND
2. Senior Faculty Member –	Mr. NIVETH L
3. Project Co-Ordinator –	Mr.Rejumon R / Dr. Bobby ND
4. Project Supervisor –	Dr. Bobby ND Mr. Midhunraj PK Ms. Neethu M Mr. Niveth L Mr. Ranjith PN Mr. Saneesh AS Mr.Rejumon R

Project Co-Ordinator:

HOD:



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DEPARTMENT OF MECHATRONICS ENGINEERING

MINUTES OF PROJECT EVALUATION COMMITTEE MEETING
Academic Year: 2022-23

Year / Sem: IV/VIII

Batch : 2019-2023

Course Code: MRD 416

Course Name: Project Phase II

AGENDA

1. Project Norms as per KTU
2. Interim Project Evaluation
3. Project Diary
4. Completion of Project Hardware
5. Paper Presentation in Conference
6. Paper Publication in Journal
7. Patent Filing
8. Project Report
9. Final Project Evaluation

Venue: Hall No: 416

Date: 30/01/2023

Time: 10.30 – 11.30AM

Members Present

1. Dr. Bobby ND
2. Mr. Midhunraj PK
3. Ms. Neethu M
4. Mr. Niveth L
5. Mr. Ranjith PN
6. Mr. Saneesh AS
7. Mr. Rejumon R
8. Aiswarya V – Final Year Student
9. Sam Mathew – Final Year Student



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S.No	Subject	Action by	Target date
1	Project activity calendar	Mr. Rejumon R	06/02/2023
2	Norms for evaluation	As per KTU	-
3	First Review – Interim Evaluation Hardware completion, draft of conference paper	Project Evaluation Committee and students	14/03/2023 & 16/03/2023
4	Second Review – Interim Evaluation, Hardware completion, conference paper publication, project competition, Project Report	Project Evaluation Committee and students	11/04/2023 & 13/04/2023
5	Submission of Binded Hardcopy project report, Submission of paper publication details, project competition details	Project Evaluation Committee and students	26/04/2023

Project Coordinator

HOD




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DEPARTMENT OF MECHATRONICS ENGINEERING

ACTION TAKEN REPORT ON MEETING DATED JANUARY 30, 2023		
S.No	Action Taken	Remarks, If any
1	Project activity calendar	06/02/2023
2	First Review – Interim Evaluation Hardware completion, draft of conference paper	14/03/2023 & 16/03/2023
3	Second Review – Interim Evaluation, Hardware completion, conference paper publication, project competition, Project Report	11/04/2023 & 13/04/2023
4	Submission of Binded Hardcopy project report, Submission of paper publication details, project competition details	26/04/2023


Project Coordinator


HOD



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DEPARTMENT OF MECHATRONICS ENGINEERING

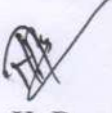
PROJECT ACTIVITY CALENDAR

Course Code: MRD 416

Course Name: Project Phase II

S.No	Activity	Target Date
1	First Review – Interim Evaluation Hardware completion, draft of conference paper	14/03/2023 & 16/03/2023
2	Second Review – Interim Evaluation, Hardware completion, conference paper publication, project competition, Project Report	11/04/2023 & 13/04/2023
3	Submission of Binded Hardcopy project report, Submission of paper publication details, project competition details	26/04/2023
4	Project Diary Submission	Friday, Every Week


Project Coordinator


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Thiruvilwamala, Thrissur - 680588

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

Sl. No.	Title of the collaborative activity	Name of the collaborating agency with	Name of the participant	Year of collaboration	Duration	Nature of the activity	Link to the relevant document
1	Data Science	Keltron	Abhijith Vinu	2023	7 days	Internship	Copy of Certificate
2	Robotics	I Hub Robotics	Athul Krishna P	2023	5 days	Internship	Copy of Certificate
3	Robotics	I Hub Robotics	Sridhul Satheesh	2023	5 days	Internship	Copy of Certificate
4	Robotics	I Hub Robotics	Akshay K	2023	5 days	Internship	Copy of Certificate
5	Robotics	I Hub Robotics	Deepak K K	2023	5 days	Internship	Copy of Certificate
6	Robotics	I Hub Robotics	Basil George	2023	5 days	Internship	Copy of Certificate
7	Robotics	I Hub Robotics	Syed Meeran Syed Kazmi	2023	5 days	Internship	Copy of Certificate
8	Robotics	I Hub Robotics	Sreerag T S	2023	5 days	Internship	Copy of Certificate
9	Robotics	I hub robotics	Majid Bin Sulaiman	2023	5 days	Internship	Copy of Certificate
10	Electric Vehicle	Acutro Technologies	Sinto Simson	2023	12 days	Internship	Copy of Certificate
11	Python	I Hub Robotics	Amaldev P M	2023	5 days	Internship	Copy of Certificate
12	Robotics	I Hub Robotics	Kailasnath N P	2023	5 days	Internship	Copy of Certificate
13	Robotics	I Hub Robotics	Sidharth Prakash	2023	5 days	Internship	Copy of Certificate
14	Robotics	I Hub Robotics	Ajith Shaijan	2023	5 days	Internship	Copy of Certificate
15	Robotics	I Hub Robotics	Tinto Tomy	2023	5 days	Internship	Copy of Certificate
16	Electric Vehicle	Acutro Technologies	Alok K T	2023	12 days	Internship	Copy of Certificate
17	Electric Vehicle	Acutro Technologies	Muhammed Dilshad PK	2023	12 days	Internship	Copy of Certificate
18	Electric Vehicle	Acutro Technologies	M P Ashwin	2023	12 days	Internship	Copy of Certificate
19	Electric Vehicle	Acutro Technologies	Mohammed Sibilin	2023	12 days	Internship	Copy of Certificate
20	Electric Vehicle	Acutro Technologies	Gowtham S Nair	2023	12 days	Internship	Copy of Certificate
21	Electric Vehicle	Acutro Technologies	Mohamed Yasin	2023	12 days	Internship	Copy of Certificate
22	Electric Vehicle	Acutro Technologies	Melvin NJ	2023	12 days	Internship	Copy of Certificate
23	Electric Vehicle	Acutro Technologies	Muhsin kassim	2023	12 days	Internship	Copy of Certificate
24	Electric Vehicle	Acutro Technologies	K S Arjun	2023	12 days	Internship	Copy of Certificate
25	Python	I Hub Robotics	Boaz K Michael	2023	5 days	Internship	Copy of Certificate
26	Graphic design	IEEE SPS Kerala Chapter	Muhammad Murthaza P K	2022	3 months	Internship	Copy of Certificate
27	Transformer	KEL-MAMMALA, ERNAKULAM	Ajin Raju T	2023	1 week	Internship	Copy of Certificate
28	Transformer	KEL-MAMMALA, Ernakulam	Rishikesh MH	2023	1 week	Internship	Copy of Certificate
29	Robotics	Autobonics, Kochi	Shameema C P	2023	15 days	Internship	Copy of Certificate
30	Electric Vehicle	Acutro Technologies	Abhishek A	2023	12 days	Internship	Copy of Certificate
31	Embedded system	CSEED	Ajin E	2023	7 days	Internship	Copy of Certificate
32	Embedded system	CSEED	Agnay Babu P. G	2023	7 days	Internship	Copy of Certificate
33	Embedded system	CSEED	Vipul Raj P B	2023	7 days	Internship	Copy of Certificate
34	Embedded system	CSEED	Afsana Thasnim V U	2023	7 days	Internship	Copy of Certificate
35	Transformer	KEL-MAMMALA, ERNAKULAM	Anshif A	2023	1 week	Internship	Copy of Certificate
36	Transformer	KEL-MAMMALA, ERNAKULAM	Aswin S	2023	1 week	Internship	Copy of Certificate
37	Transformer	KEL-MAMMALA, ERNAKULAM	Kishan V Sathyan	2023	1 week	Internship	Copy of Certificate
38	Embedded System	CSEED	Pranav T P	2023	7 days	Internship	Copy of Certificate
39	Transformer	KEL-MAMMALA, ERNAKULAM	Febin Scaria	2023	5 days	Internship	Copy of Certificate
40	Transformer	KEL-MAMMALA, ERNAKULAM	Jitto Abraham	2023	5 days	Internship	Copy of Certificate
41	Transformer	KEL-MAMMALA, ERNAKULAM	Alwin Mon P Babu	2023	5 days	Internship	Copy of Certificate
42	Transformer	KEL-MAMMALA, ERNAKULAM	C Nivedsha	2023	5 days	Internship	Copy of Certificate
43	Transformer	KEL-MAMMALA, ERNAKULAM	Adithya B Krishnan	2023	5 days	Internship	Copy of Certificate
44	Transformer	KEL-MAMMALA, ERNAKULAM	Prabhav Ram	2023	5 days	Internship	Copy of Certificate
45	Embedded System	CSEED	Ajay K V	2023	7 days	Internship	Copy of Certificate
46	Embedded System	CSEED	Sreeram	2023	7 days	Internship	Copy of Certificate
47	Robotics	Autobonics, Kochi	Pranavu K	2023	15 days	Internship	Copy of Certificate
48	Robotics	Autobonics, Kochi	Suvin K S	2023	15 days	Internship	Copy of Certificate



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Kerala State Electronics Development Corporation Ltd.
(A Government of Kerala Undertaking)

ITBG - Knowledge Services Group
GSTIN: 32AABCK1319E4Z5

Phone: 0471-2724765 || Helpline No: +91 9188655545 || E-mail: iteg@keltron.org || Website Link: ksg.keltron.in

KELTRON

CIN: U74999KL1972SGC002450

KSG/42/INTP/23-08/L3081

05.08.2023

CERTIFICATE

Certified that the Student has completed the Internship Program conducted at KELTRON as per the particulars given below:

Name of the Student	Mr. ABHIJITH VINU
Name & Address of the College/Institution at which the Student is Studying	Nehru College of Engineering and Research Centre, Near Lakkidi Railway station, Pampady, Thiruvilwamala, Kerala - 680588
University/Board, which the Institution is Affiliated to	A P J Abdul Kalam Technological University (KTU), Kerala
Branch/Discipline of Study	B. Tech in Mechatronics Engineering
Student's Registration/Roll No.	NCE22MC002
Semester / Year of Study	2 nd Semester
Name & Address of the Institution/Centre where the Internship Program was conducted	Keltron Knowledge Centre (42), 3 rd Floor, MES Cultural Complex, Near Reserve Bank of India, Kaloor, Ernakulam - 682017, Kerala
Online Portal Registration No.	KI028221
Roll No./Register No.	K2342110657
Program Category	INTERNSHIP
Period & Duration of the Program	25.05.2023 to 31.05.2023 (1 Week)
Area of Exposure	Data Science: Python Fundamentals, Introduction to Data Science, Statistical Foundations, Data Acquisition, EDA, Data Visualization, Model Creation and Validation, Introduction to Machine Learning, Types of Machine Learning, Introduction to AI.
Status	COMPLETED SUCCESSFULLY

Authorized Signatory
(Knowledge Services)



Regd. Office: Keltron House, Vellayambalam, Thiruvananthapuram, Kerala State, India. Pin: 695 033, Tel: 0471-4094444
Doc. No: KSG/LH05-23/014(2000) Visit us at our website: <http://www.keltron.org>



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No. BC107



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BONAFIDE CERTIFICATE

This is to certify that Mr. / Ms. **ATHUL KRISHNA** **6TH SEMESTER** student

of **MECHATRONICS** at **NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTER** has

carried out his / her Internship in **PROJECT IN ROBOTICS** at BECIL Training Centre **PANAMPILLY NAGAR - KL11**

from **1ST MAY 2023** to **5TH MAY 2023**. During this period, his / her dedication and performance were appreciable. We found him / her to be hard working, sincere and devoted.

We wish all success in his / her future endeavours.



Managing Coordinator
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No.:BC110



DATE: 10-5-2023



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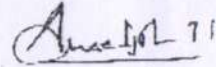
This is to certify that Mr. / Ms. **SRIDHUL BATHEESH** **6TH SEMESTER** student
of **MECHATRONICS** at **NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTER** has
carried out his / her Internship in **PROJECT IN ROBOTICS** at BECIL Training Centre **PANAMPILLY NAGAR - KL11**
from **1ST MAY 2023** to **5TH MAY 2023**. During this period, his / her dedication and performance were
appreciable. We found him / her to be hard working, sincere and devoted.

We wish all success in his / her future endeavours.

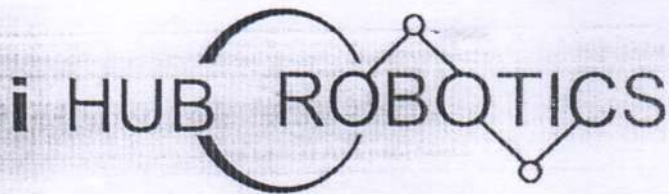



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✉ ihubrobotics@gmail.com

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05/05/2023

TO WHOM IT MAY CONCERN

This is to certify that **Mr.Akshay K(Reg no. NCE20MC003)** student of **Nehru College of Engineering and Research Centre, Pampady, Kerala** has successfully completed **5 Days Internship program** in the field of **Robotics from 1st to 5th of may 2023** under guidance of **Sethulakshmi S Nair** at **I Hub Research & Robotics Private Limited**.

During the period of his internship program with us, he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish him every success in his life and career.

For IHub Research & Robotics Private Ltd.

Amaljith S, Project Head



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This is to certify that Mr. / Ms. **DEEPAK K. K.** **6TH SEMESTER**
of **MECHATRONICS** at **NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTER**
carried out his / her Internship in **PROJECT IN ROBOTICS** at BECIL Training Centre **PANAMPILLY NAGAR - KLL**
from **1ST MAY 2023** to **5TH MAY 2023**. During this period, his / her dedication and hard work were
appreciable. We found him / her to be hard working, sincere and devoted.

We wish all success in his / her future endeavours.



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This is to certify that Mr. / Ms. **BASIL GEORGE** **6TH SEMESTER** student

of **MECHATRONICS** at **NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTER** has

carried out his / her Internship in **PROJECT IN ROBOTICS** at BECIL Training Centre **PANAMPILLY NAGAR - KL11**

from **1ST MAY 2023** to **5TH MAY 2023**. During this period, his / her dedication and performance were appreciable. We found him / her to be hard working, sincere and devoted.

We wish all success in his / her future endeavours.



Managing Coordinator
BECIL TRAINING DIVISION

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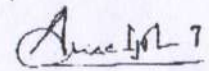
This is to certify that Mr. / Ms. **SYED MEERAN SYED KAZMI** **6TH SEMESTER** student
of **MECHATRONICS** at **NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTER** has
carried out his / her Internship in **PROJECT IN ROBOTICS** at BECIL Training Centre **PANAMPILLY NAGAR - KL11**
from **1ST MAY 2023** to **5TH MAY 2023**. During this period, his / her dedication and performance were
appreciable. We found him / her to be hard working, sincere and devoted.

We wish all success in his / her future endeavours.



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05/05/2023

TO WHOM IT MAY CONCERN

This is to certify that Mr.Sreerag T S(Reg no. NCE20MC026) student of Nehru College of Engineering and Research Centre, Pampady,Kerala has successfully completed 5 Days Internship program in the field of Robotics from 1st to 5th of may 2023 under guidance of Sethulakshmi S Nair at I Hub Research & Robotics Private Limited.

During the period of his internship program with us,he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish him every success in his life and career.

For IHub Research & Robotics Private Ltd.

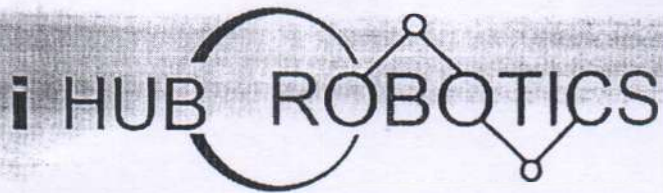
Amaljith S, Project Head



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TO WHOM IT MAY CONCERN

This is to certify that **Mr.Majid Bin Sulaiman(Reg no. NCE20MC015)** student of **Nehru College of Engineering and Research Centre, Pampady,Kerala** has successfully completed **5 Days Internship program** in the field of **Robotics** from **1st to 5th of may 2023** under guidance of **Sethulakshmi S Nair** at **I Hub Research & Robotics Private Limited**.

During the period of his internship program with us,he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish him every success in his life and career.

For IHub Research & Robotics Private Ltd.

Amaljith S, Project Head

Amaljith S 71



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INTERNSHIP CERTIFICATE

This certificate is proudly presented to

Sinto Simson

*from Nehru College of Engineering & Research Center has successfully completed 12-days
internship on Electrical Vehicle conducted by Acutro Technologies Pvt. Ltd.
(India, Germany) from 02/05/2023 to 16/05/2023.*



Acutro technologies

Rajeevan A B
016/05/23

16/05/2023

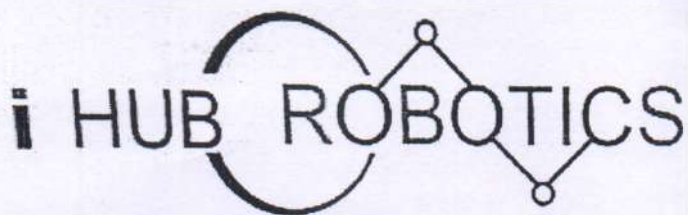


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Rajeevan A B
(CTO)
AcutroTechnologies pvt L





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TO WHOM IT MAY CONCERN

This is to certify that **Mr. Amaldev P M** (Reg no. NCE20MC005) student of **Nehru College of Engineering and Research Centre, Pampady, Kerala** has successfully completed **5 Days Internship program** in the field of **Python** from **1st to 5th of May 2023** under guidance of **Sethulakshmi S Nair** at **I Hub Research & Robotics Private Limited**.

During the period of his internship program with us, he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish him every success in his life and career.

For **IHub Research & Robotics Private Ltd.**
Amaljith S, Project Head

Amaljith S



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BONAFIDE CERTIFICATE

This is to certify that Mr. / Ms. **KAILASNATH N. P.** **6TH SEMESTER** student
of **MECHATRONICS** at **NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTER** has
carried out his / her Internship in **PROJECT IN ROBOTICS** at BECIL Training Centre **PANAMPILLY NAGAR - KL11**
from **1ST MAY 2023** to **5TH MAY 2023**. During this period, his / her dedication and performance were
appreciable. We found him / her to be hard working, sincere and devoted.

We wish all success in his / her future endeavours.


Managing Coordinator
BECIL TRAINING DIVISION




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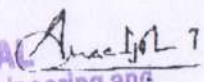
BONAFIDE CERTIFICATE

This is to certify that Mr. / Ms. **SIDEARTH PRAKASH** **6TH SEMESTER** student
of **MECHATRONICS** at **NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTER** has
carried out his / her Internship in **PROJECT IN ROBOTICS** at BECIL Training Centre **PANAMPILLY NAGAR - KL11**
from **1ST MAY 2023** to **6TH MAY 2023** During this period, his / her dedication and performance were
appreciable. We found him / her to be hard working, sincere and devoted.

We wish all success in his / her future endeavours.


Managing Coordinator
BECIL TRAINING DIVISION




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BONAFIDE CERTIFICATE

This is to certify that Mr. / Ms. **AJITH SHAJAN** **6TH SEMESTER** student
of **MECHATRONICS** at **NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTER** has
carried out his / her Internship in **PROJECT IN ROBOTICS** at BECIL Training Centre. **PANAMPILLY NAGAR - KL 11**
from **1ST MAY 2023** to **5TH MAY 2023**. During this period, his / her dedication and performance were
appreciable. We found him / her to be hard working, sincere and devoted.

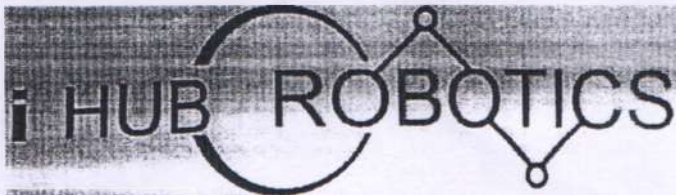
We wish all success in his / her future endeavours.

Managing Coordinator
BECIL TRAINING DIVISION



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Thiruvilwamala, Thrissur - 680588
Project In Charge
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7902899222

✉ ihubrobotics@gmail.com

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05/05/2023

TO WHOM IT MAY CONCERN

This is to certify that **Mr.Tinto Tomy(Reg no. NCE20MC029)** student of **Nehru College of Engineering and Research Centre, Pampady,Kerala** has successfully completed **5 Days Internship program** in the field of **Robotics from 1st to 5th of may 2023** under guidance of **Sethulakshmi S Nair** at **I Hub Research & Robotics Private Limited.**

During the period of his internship program with us,he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish him every success in his life and career.

For IHub Research & Robotics Private Ltd.

Amaljith S, Project Head



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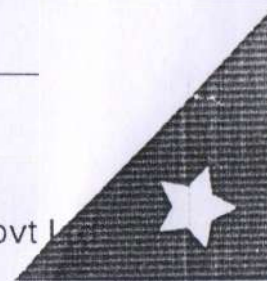
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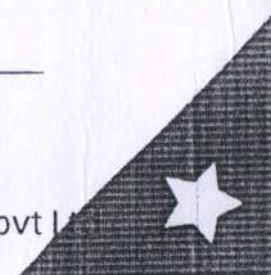


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7902899111

7902899222

ihubrobotics@gmail.com
www.ihubrobotics.com

05/05/2023

TO WHOM IT MAY CONCERN

This is to certify that **Mr.Boaz K Michael(Reg no. NCE20MC008)** student of **Nehru College of Engineering and Research Centre, Pampady,Kerala** has successfully completed 5 Days: Internship program in the field of **Python** from **1st to 5th of may 2023** under guidance of **Sethulakshmi S Nair** at **I Hub Research & Robotics Private Limited.**

During the period of his internship program with us,he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish him every success in his life and career.

For IHub Research & Robotics Private Ltd.
Amaljith S, Project Head



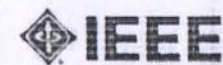
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to

Muhammed Murthaza PK

Nehru Institute of Technology

for the significant efforts made as in the
IEEE SPS Kerala Chapter Student Leadership Team of 2022. You contributed to the
development of the society via your leadership abilities and volunteerism. Your
commitment, professionalism, and crisis management expertise were simply
outstanding.

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MPA/61/ 735 /23

8th May, 2023

CERTIFICATE

This is to certify that Mr. Ajin Raju T (NCE21MC007), 4th semester B.Tech Mechatronics Engineering student of Nehru College of Engineering & Research Center, Pampady, Thiruvilwamala, Trichur has successfully completed the "**Internship Training**" in Various Sections of Transformer & Structural Division at Mamala Unit of the Company for a period of 1 week from 02.05.2023 to 08.05.2023.

This was done in partial fulfillment of his academic requirements.

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8th May, 2023

CERTIFICATE

This is to certify that Mr. Rishikesh M H (NCE21MC022), 4th semester B.Tech Mechatronics Engineering student of Nehru College of Engineering & Research Center, Pampady, Thiruvilwamala, Trichur has successfully completed the "Internship Training" in Various Sections of Transformer & Structural Division at Mamala Unit of the Company for a period of 1 week from 02.05.2023 to 08.05.2023.

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EPABX : 0484-2310012 / 13 / 14

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CERTIFICATE OF INTERNSHIP

We hereby present this certificate to

SHAMEEMA. C. P

NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTER, PAMPADY, THRISSUR

for the completion of the **Introduction to Robotics using Arduino** (15 days)
at Autobonics Private Limited : 15-05-2023 to 30-05-2023

Shahir Abdulla
CEO, Autobonics pvt ltd



DPIIT RECOGNISED
DPIIT NO: DIPP92599

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S. M. Muhammed Azhar
COO, Autobonics pvt ltd



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Abhishek A

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16/05/23

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Name

AJIN E

Register Number

NCE21MC006



Athira Dev
17/5/23

ATHIRA DEV

MANAGER - CSEED



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Name

AGNAY BABU P G

Register Number

NCE21MC004



Athira Dev
17/5/23

ATHIRA DEV

MANAGER - CSEED



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Name

VIPUL RAJ P B

Register Number

NCE21MC027

Athira Dev
17/5/23

ATHIRA DEV

MANAGER - CSEED



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Name

AFSANA THASNIM V U

Register Number

NCE21MC003

Athira Dev
17/5/23

ATHIRA DEV

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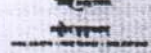
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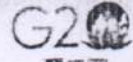
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This is to certify that Mr.Kishan V Sathyan (NCE21MC016), 4th semester B.Tech Mechatronics Engineering student of Nehru College of Engineering & Research Center, Pampady, Thiruvilwamala, Trichur has successfully completed the "Internship Training" in Various Sections of Transformer & Structural Division at Mamala Unit of the Company for a period of 1 week from 02.05.2023 to 08.05.2023.

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Name

PRANAV T P

Register Number

NCE21MC020



Athira Dev
17/5/23

ATHIRA DEV

MANAGER - CSEED



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CERTIFICATE

This is to certify that **Mr.Febin Scaria**, 4th semester B.Tech Mechatronics Engineering Student of Nehru College of Engineering & Research Centre, Pampady, Thiruvilwamala, Thrissur has successfully completed the "Internship Training" in Various Sections of Transformer Division such as Winding, Core Building, Core Coil Assembly, Terminal Gear Fixing, Tanking and Testing at Mamala Unit of the Company for a period from 10.05.2023 to 14.05.2023.

This was done in partial fulfillment of his academic requirements.

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20th May, 2023

CERTIFICATE

This is to certify that Mr. Jitto Abraham, 4th semester B.Tech Mechatronics Engineering Student of Nehru College of Engineering & Research Centre, Pampady, Thiruvilwamala, Thrissur has successfully completed the "Internship Training" in Various Sections of Transformer Division such as Winding, Core Building, Core Coil Assembly, Terminal Gear Fixing, Tanking and Testing at Mamala Unit of the Company for a period from 10.05.2023 to 14.05.2023.

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MPA/GI/1625/23

20th May, 2023

CERTIFICATE

This is to certify that Mr. Alwin Mon P. Babu, 4th semester B.Tech. Mechatronics Engineering Student of Nehru College of Engineering & Research Centre, Pampady, Thiruvilwamala, Thrissur has successfully completed the "Internship Training" in Various Sections of Transformer Division such as Winding, Core Building, Core, Coil Assembly, Terminal Gear Fixing, Tanking and Testing at Mamala Unit of the Company for a period from 10.05.2023 to 14.05.2023.

This was done in partial fulfillment of his academic requirements.

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Website: www.kel.co.in

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20th May, 2023

CERTIFICATE

This is to certify that Mr. C Nivedsha, 4th semester B.Tech Mechatronics Engineering Student of Nehru College of Engineering & Research Centre, Pampady, Thiruvilwamala, Thrissur has successfully completed the "Internship Training" in Various Sections of Transformer Division such as Winding, Core Building, Core Coil Assembly, Terminal Gear Fixing, Tanking and Testing at Mamala Unit of the Company for a period from 10.05.2023 to 14.05.2023.

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Website: www.kel.co.in

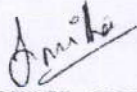
MPA/61/ 1625 /23

20th May, 2023

CERTIFICATE

This is to certify that Mr. Adithya B Krishnan, 4th semester B.Tech Mechatronics Engineering Student of Nehru College of Engineering & Research Centre, Pampady, Thiruvilwamala, Thrissur has successfully completed the "Internship Training" in Various Sections of Transformer Division such as Winding, Core Building, Core Coil Assembly, Terminal Gear Fixing, Tanking and Testing at Mamala Unit of the Company for a period from 10.05.2023 to 14.05.2023.

This was done in partial fulfillment of his academic requirements.


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Thiruvilwamala, Thrissur - 680588



Registered & Corporate Office

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CIN : U31200KL 1964 SGC002062

Website : www.kel.co.in

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20th May, 2023

CERTIFICATE

This is to certify that Mr.Prabhav Ram U, 4th semester B.Tech Mechatronics Engineering Student of Nehru College of Engineering & Research Centre, Pampady, Thiruvilwamala, Thrissur has successfully completed the "Internship Training" in Various Sections of Transformer Division such as Winding, Core Building, Core Coil Assembly, Terminal Gear Fixing, Tanking and Testing at Mamala Unit of the Company for a period from 10.05.2023 to 14.05.2023.

This was done in partial fulfillment of his academic requirements.

PERSONNEL OFFICER

SMITHA THOMAS
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Employability Development



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An autonomous organization recognized by Govt of India - NCT

INF 23/0102

17 May 2023

CERTIFICATE

This is to certify that the below mentioned student from **Mechatronics Engineering** dept. of **Nehru College of Engineering and Research Centre** has successfully completed the **Internship in Embedded Systems & Robotics** from **08/05/23 to 14/05/23** at **Centre for Skill Enhancement & Employability Development**. As per our measurement, performance of the candidate was excellent during the training period.

Name

AJAY K V

Register Number

NCE21MC005



Athira Dev
17/5/23

ATHIRA DEV

MANAGER - CSEED

KB

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Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvilwamala, Thrissur - 680004**



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Web: www.cseed.org | Email: mail@cseed.org | cseedkerala@gmail.com

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INT/23/0104

17 May 2023

CERTIFICATE

This is to certify that the below mentioned student from **Mechatronics Engineering** dept. of **Nehru College of Engineering and Research Centre** has successfully completed the **Internship in Embedded Systems & Robotics** from **08/05/23 to 14/05/23** at **Centre for Skill Enhancement & Employability Development**. As per our measurement, performance of the candidate was excellent during the training period.

Name

SREERAM

Register Number

NCE21MC025

*Athira Dev*
17/5/23

ATHIRA DEV

MANAGER - CSEED

*B***PRINCIPAL**

**Nehru College of Engineering and
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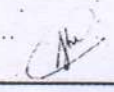
PRANAVU K

NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTER, PAMPADY, THRISSUR

for the completion of the **Introduction to Robotics using Arduino** (15 days)
at Autobonics Private Limited : 15-05-2023 to 30-05-2023


Shahir Abdulla
CEO, Autobonics pvt ltd




S. M. Muhammed Azhar
COO, Autobonics pvt ltd



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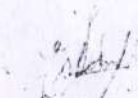
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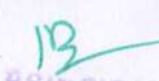
SUVIN KS

NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTER, PAMPADY, THRISSUR

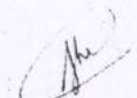
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Shahir Abdulla
CEO, Autobonics pvt ltd




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DPIIT RECOGNISED
DPIIT NO: DIPP92599


S. M. Muhammed Azhar
COO, Autobonics pvt ltd

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We hereby present this certificate to

SAMYUKTHA R

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Shahir Abdulla
CEO, Autobonics pvt Ltd

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S. M. Muhammed Azhar
COO, Autobonics pvt Ltd

CERTIFICATE OF INTERNSHIP

We hereby present this certificate to

ABHINAV S

NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTER, PAMPADY, THRISSUR

for the completion of the **Introduction to Robotics using Arduino** (15 days)
at Autobonics Private Limited : 15-05-2023 to 30-05-2023

Shahir Abdulla
CEO, Autobonics pvt ltd



DPIIT RECOGNISED
DPIIT NO: DIPP92599

CERTIFICATE
VERIFICATION

S. M. Muhammed Azhar
COO, Autobonics pvt ltd

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Thiruvilwamala, Thrissur - 680568



I HUB RESEARCH AND ROBOTICS Pvt Ltd
GST : 32AAGC15584A1ZU

☎ 7902899111

7902899222

✉ ihubrobotics@gmail.com

🌐 www.ihubrobotics.com

05/05/2023

TO WHOM IT MAY CONCERN

This is to certify that **Mr.Rahul Krishna U K Sathish**(Reg no. NCE20MC022) student of **Nehru College of Engineering and Research Centre, Pampady,Kerala** has successfully completed **5 Days Internship program** in the field of **Robotics** from **1st to 5th of may 2023** under guidance of **Sethulakshmi S Nair** at **I Hub Research & Robotics Private Limited.**

During the period of his internship program with us,he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish him every success in his life and career.

For IHub Research & Robotics Private Ltd.

Amaljith S, Project Head

Amaljith S 71



B

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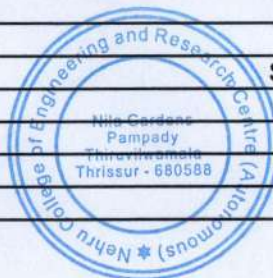


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NEHRU SCHOOL OF MANAGEMENT

SL NO	REGISTER NUMBER	NAME OF THE STUDENT	COMPANY NAME
1	NCE21MBA01	Adheep S	Yamuna Roller flour mills Thrissur
2	NCE21MBA02	Aiswarya A	periyar polymers kanjikode
3	NCE21MBA03	Ajay Krishnan PN	Sdf industries LTD
4	NCE21MBA04	Akhila k	Koso India pvt ltd,Kanjikode
5	NCE21MBA05	Akshay k	Developer Group PVT LTD
6	NCE21MBA06	Amritha c	Lukar Electric Technology pvt ltd
7	NCE21MBA07	Anagha k	Kakkanat Ayurveda Asramam
8	NCE21MBA08	Anagha. p. s	A. M. S spices& food products pvt. ltd
9	NCE21MBA09	Anand	KEI Industries pvt Ltd
10	NCE21MBA10	Ananthu Krishnan NG	Metal Industries Ltd
11	NCE21MBA11	ANGELIN PV	Oushadhi (Pharmaceutical Corporation Kerala Ltd)
12	NCE21MBA12	Anjali suresh	AKAY FLAVOURS AND AROMATICS PVT LTD, ELAVUMTHITTA, PATHANAMTHITTA, KERALA"
13	NCE21MBA13	Anjana M	WOOTZ STRUCTURES PVT.LTD
14	NCE21MBA14	Anol Justin O	Flavour of calicut
15	NCE21MBA15	Anumol. p m	Flavour of calicut
16	NCE21MBA16	Anusha.k	pattambi service cooperative Bank
17	NCE21MBA17	Aparna T G	Vaidyaratnam Oushadasala pvt Ltd
18	NCE21MBA18	Arathi ravikumar	vaidyamaham vaidyasala and nursing home mezhathur
19	NCE21MBA19	Archana Nair	Greenworld International Business Enterprises pvt.ltd
20	NCE21MBA20	Archana. R	BRD CAR WORLD
21	NCE21MBA21	Arya Raj C	Malabar Cements Limited,Walayar
22	NCE21MBA22	Biniya shaji	Steel industrials kerala limited Atani,Thrissur
23	NCE21MBA23	Christo Mathew	open project
24	NCE21MBA24	Dharsana S	Hanna poly products
25	NCE21MBA25	Fasil M	Anugraha Aluminium craft
26	NCE21MBA26	Fathima Lubna	Bellware Sanitary Ware
27	NCE21MBA27	Fathima Najilath.kk	Arya Vaidhya Pharmacy Coimbatore Ltd, kanjikode
28	NCE21MBA28	Jagadheeswaran A	craftsman automation Pvt Ltd , Coimbatore
29	NCE21MBA29	Jessy priya G	STAHLKIND private limited
30	NCE21MBA30	Jisni kp	PVR Wheels Royal Enfield palakkad
31	NCE21MBA31	Karthik R	South indian bank
32	NCE21MBA32	Lakshmi K Menon	Sevana Hospital & Research Centre Pattambi
33	NCE21MBA33	Majidha k	HP YAMAHA, PALAKKAD
35	NCE21MBA35	Muhammed Shejil T M	Hero Motors, Pazhayannur
34	NCE21MBA34	Megha Mahesh P	Variety Pharmaceuticals
37	NCE21MBA37	Neeraja mr	KP Lyfestyle pattambi



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40	NCE21MBA40	Nikhil C	Maruti Suzuki
41	NCE21MBA41	Nimna Ayshath M	Diamond Cements Pvt Ltd, Kanjikode, Palakkad
42	NCE21MBA42	Nisar C B	Elanad milk privte limited
43	NCE21MBA43	Nithi Krishna.c.u	Company grand Hyundai Palakkad
44	NCE21MBA44	Prabhitha Raj P	Mahaushadhi Herbal Remedies
45	NCE21MBA45	Reshma G	Sanrea Health Care Products Pvt Ltd, Kanjikode
46	NCE21MBA46	Reshma S. Unni	AR handlooms Kuthampully
47	NCE21MBA47	Sachethan AU	Steel industrials kerala limited (OTTAPALAM)
48	NCE21MBA48	Sangeetha Lakshman	Sri Gayathri modern raw and boiled rice mill Pvt Ltd, vadavannur
49	NCE21MBA49	Sankar Das	South Indian metal company
50	NCE21MBA50	shajudheen K K	Wynfield Exports
51	NCE21MBA51	Sisira P	KEXA Ventures Private Limited
52	NCE21MBA52	Sneha. M	menkol industries ltd
53	NCE21MBA53	Sreelakshmi p	Ideal Printing and Packaging Solutions Kallipadam industrial Estate Shoranur
54	NCE21MBA54	Sruthi M	Fact udhyogamadal complex office
55	NCE21MBA55	Stelcy Davis K	Kerala State Financial Enterprises
56	NCE21MBA56	Swetha.k.s	Cedicom electronics ,shornur
57	NCE21MBA57	Thasleem P S	Eveready Industries India Ltd
58	NCE21MBA58	Thasniya R	A M Honda wings , palakkad
59	NCE21MBA59	Vinayachandran P	Universal Implements Pvt Ltd
60	NCE21MBA60	Vinija George	Brocade India Polytex Limited



Sanjay
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Thiruvilwamala, Thrissur - 680588



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May 24, 2023

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This is to certify that Ms. ARCHANA NAIR (NCE21MBA19), MASTER OF BUSINESS ADMINISTRATION (HR and FINANCE) Student from Nehru College of Engineering and Research Centre (NCERC), Thrissur under APJ Abdul Kalam Technology University has done her Project Work titled "A STUDY ON EMPLOYEE PERFORMANCE APPRAISAL" at our company from 04.05.2023 to 23.05.2023 as part of Curriculum.

We are glad to state that during the Period of her Project Work, she was sincere, punctual and particularly strong in her analytical skills. Her conduct was found to be satisfactory.



SIJIMOL JOSEPH

Assistant HR Manager

GREENWORLD International



Saisuresh
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Thiruvithamala, Thrissur - 680588

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This is to certify that **Ms. ANAGHA P S** (Reg No. NCE21MBA08) final year MBA student of **Nehru College of Engineering & Research Centre Pambady**, has successfully completed her project on "A STUDY ON **QUALITY MANAGEMENT SYSTEM AT AMS SPICES AND FOOD PRODUCT PVT.LTD. MANJERI**".

We appreciate the effort and sincerity shown by her throughout the project, and wish all success in her future.

Date: 26-05-2023

Place: Manjeri



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[Signature]
GENERAL MANAGER

[Signature]
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Nilg Garden, Pambady
Thiruvananthapuram, Kerala - 680008

AMS SPICES & FOOD PRODUCTS PVT. LTD.

MBA Internship 2022-2023

Sl. No	Register no.	Name of student	Company name
1	NCE22MBA01	Aadithya ks	executive events
2	NCE22MBA02	Abhay N	Ottapalam Service Cooperative Bank
3	NCE22MBA03	Abhijith P U	Muthoot Mini Financiers, Kochi
4	NCE22MBA04	Afrah Ashref A.A	M2H Infotech LLP, cyber park Calicut
5	NCE22MBA05	Aiswarya K M	Strockx Kochi
6	NCE22MBA06	Aiswarya Santhosh K S	Camino Infotech Pvt. Ltd
7	NCE22MBA07	Akhil M C	Hykon India Pvt Ltd, Thrissur
8	NCE22MBA08	Amal Ganga	Italian Floorings Mannarkkad
9	NCE22MBA09	Amaljith M	Avitis Institution Of Medical Science, Nenmara
10	NCE22MBA10	Anamika U	Kerala SIDCO, Ollur
11	NCE22MBA11	Anjana. p. j	vaidhyamadam vaidhyashala nursing home mezhathur
12	NCE22MBA12	Anooj K H	J K Tyres Kochi
13	NCE22MBA13	Anu P Lorance	Paalana institute of medical sciences , palakkad
14	NCE22MBA14	Aparna VM	STROKX, KOCHI
15	NCE22MBA15	Aradhidha Sathish	M2H infotech LLP, Cyber park , Calicut
16	NCE22MBA16	Arifa kp	D4 integrated security solutions LLP , Calicut
17	NCE22MBA17	Arya Ravindran	Maxvalue Credits and Investment Ltd Thrissur
18	NCE22MBA18	Asna K Y	Elanadu Milk
19	NCE22MBA19	Aswath	petcetera
20	NCE22MBA20	Athira A	Metal industries Ltd, Shornur
21	NCE22MBA21	Benziya P Beninu	Nextgen pro Kochi
22	NCE22MBA22	Devika Krishna J	Pushpagiri Medical College Hospital, Pathanamthitta
23	NCE22MBA23	Dona Varghese	Sahrudaya Hospital, Alappuzha
24	NCE22MBA24	FATHIMA RINA K A	D4 integrated security solutions Ltd , Calicut
25	NCE22MBA25	FATHIMATHUL IRFANA	Sunrise hospital changaramkulam
26	NCE22MBA26	Fathimath Zainab	Saint Gobain - Sefpro
27	NCE22MBA27	Harsha.M	TENZOTECH, KOCHI
28	NCE22MBA28	Hasna P	Aester India Pvt Ltd
29	NCE22MBA29	Jaseela.K.A	DHOFAR Facilities and management, Oman ,salalah
30	NCE22MBA30	Jepth Joseph	Techwarelab Pvt Ltd Kochi
31	NCE22MBA31	Kavyaprasad R	METASTROX, Kochi
32	NCE22MBA32	Majidha Farhana	Kalladikode Service Cooperative Bank
33	NCE22MBA33	Marakkamthodi Hajna	Indus motors Pvt Ltd
34	NCE22MBA34	Megha M	Universal implements, Kulapully
35	NCE22MBA35	Meghna Santhosh	SDF Industries Ltd., Pampady Thrissur
36	NCE22MBA36	Mohamed mushthahak	Alsiding pvt ltd eranakulam
37	NCE22MBA37	Muhsina.M.M	P K DAS institute of medical sciences
38	NCE22MBA38	Neha. K	Hill Ranches Resort, Kozhikode
39	NCE22MBA39	Nimisha C	TENZOTECH, Kochi
40	NCE22MBA40	Orville Don	TENZOTECH ,Kochi
41	NCE22MBA41	Pranav P	Executive Events, Panampilly Nagar, Kochi
42	NCE22MBA42	RESINA.Y	Courtyard By Marriot Kochi
43	NCE22MBA43	Riswana P	Alsiding Pvt. Ltd
44	NCE22MBA40	Riyas KB	Ociuz Infotech Pvt Ltd, Thrissur
46	NCE22MBA46	Sandra P S	Aester India Pvt. Ltd



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47	NCE22MBA47	Sangeetha C G	Metastrokx kochi
48	NCE22MBA48	Shanmugh das h	Aswathy gold loan palakkad
49	NCE22MBA49	Shibina.A	Jeevothaya Mission Hospital, Chelakkara
50	NCE22MBA50	Shilpa Sasindran	NextGenpro Eranakulam
51	NCE22MBA51	Sreelakshmi K P	Muthoot Mini Financiers, Kochi
52	NCE22MBA52	Sreelakshmi.Ravi	Jayon Implants Private limited, Kanjikode, Palakkad
53	NCE22MBA53	Sruthymol T. L	Aceware FinTech Service Pvt Ltd. kochi
54	NCE22MBA54	Suji.S	Avitis Institute of Medical Sciences, Nenmara
55	NCE22MBA55	Swathy M. V	Hill Ranches Resort, Kozhikode
56	NCE22MBA56	Syam Krishna A	HYKON INDIA LIMITED THRISSUR
57	NCE22MBA57	V. Gopika	Das Institute Of Medical Sciences Hospital and Medical College
58	NCE22MBA58	Vidya. V	Adorn Design Studio
59	NCE22MBA59	Vineetha. P. V	Indus motor Pvt Ltd
60	NCE22MBA60	Vishnupriya. V	Atmios technologies and software solutions, Kochi



Sunitha
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Thiruvilwamala, Thrissur - 680588

18/10/2022

TO WHOMSOEVER IT MAY CONCERN

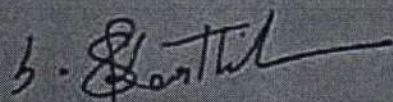
This is to certify that Ms. Sisira Sivadasan, MBA Student from Nehru College of Engineering and research Centre, Pambady, Kerala has done her internship in Human Resource Management at Home Intel India Pvt Ltd, Chennai from 19th July 2022 to 2nd September 2022.

Using HRM tools, she has attempted to become familiar with the Talent Acquisition procedures. She gained knowledge of sourcing, screening, interview scheduling, and employment coordination for new hires as a result of their endeavour.

During her internship, she demonstrated her ability to learn new techniques and skills through self-motivation. Her performance was good, and she successfully met the deadline.

We wish her all the best for future endeavours.

Regards,



Karthik Selvaraj

Director - People Xperience Team



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Mizhassery, Pambady
Thiruvananthapuram - 695014



Home Intel India Pvt Ltd
Tidel Park, 4, Rajiv Gandhi Salai, Module 0406, 4th Floor-South
Taramani, Chennai, Tamil Nadu-600 113, India.



044 2254 0530 / 31



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GST No. 33AAGCH2870Q1Z5 | CIN: U72900TN2022FTC151877



Metind Nagar, Shoranur - 679 122, Kerala
Tel. : 0466 2222268, 2222359
Fax : 0466 2225452
Email : metind@themetallindustries.in
Website : www.themetallindustries.in

Ref:C-12/22-23/785

10/10/2022

CERTIFICATE

This is to certify that Ms. **SNEHA M**, MBA student, Roll No.NCE21MBA52) Nehru College of Engineering and Research Centre, Pampady, Thiruvilwamala, Thrissur Dist., Kerala State, has successfully completed INTERNSHIP in this company, for a period of 45 days, as part of partial fulfillment of the requirement of her course.

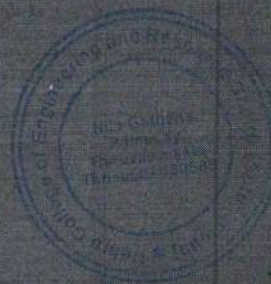
During the above period she had shown keen Interest in learning industrial and management aspects connected with her academic requirement and she was found obedient and industrious.

We wish her all success.

For The Metal Industries Ltd.,


Radhakrishnan.C,
Manager (Comm & Admn)

Rcpt/082-0108722




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DEPARTMENT OF COMPUTER APPLICATIONS
PROJECT GUIDE ALLOTMENT LIST OF MCA BATCH 2021-2023

REG. NO.	NAME OF THE STUDENT	GUIDE
NCE21MCA2001	ABINRAJ M R	Dr. Sudheer S Marar
NCE21MCA2002	ADARSH R NAIR	
NCE21MCA2003	AHSANA FATHIMA E	
NCE21MCA2004	AIRISH BABY	
NCE21MCA2005	AJMAL	
NCE21MCA2006	AMRUTHA R	
NCE21MCA2007	ANJANA V	
NCE21MCA2008	ANJU BABU	
NCE21MCA2009	ANOOP B K	Mr. PRAMOD K
NCE21MCA2010	ANURAJ. N	
NCE21MCA2011	ARUNDHATI B	
NCE21MCA2012	ARUNIMA O	
NCE21MCA2013	ASWATHY VENU	
NCE21MCA2014	ASWATHY V S	
NCE21MCA2015	ASWIN D	
NCE21MCA2016	ATHUL M	
NCE21MCA2017	BASIL JIJI	
NCE21MCA2018	DEVAKI V K	
NCE21MCA2019	DHANUSH U	
NCE21MCA2020	FATHIMA SHAHANA	
NCE21MCA2021	FATHIMA THAHASIM	
NCE21MCA2022	FATHIMA THASLIYA	
NCE21MCA2023	GOPIKA NADARAJAN	Dr. VINEETHA K R
NCE21MCA2024	HABEEBA SINU	
NCE21MCA2025	HARSHIL S	
NCE21MCA2026	HIBA MOL C	
NCE21MCA2027	JEENA THOMAS	
NCE21MCA2028	KASHYAP KRISHNA K R	
NCE21MCA2029	KRISHNA K	
NCE21MCA2030	MADHU H	
NCE21MCA2031	MELVIN VINCY	
NCE21MCA2032	MOHAMED SANHAR S	
NCE21MCA2033	MRIDULA P	
NCE21MCA2034	NASREEN PARAYIL	
NCE21MCA2035	PRAVEENA K R	
NCE21MCA2036	RADHIDEV E	
NCE21MCA2037	RANJITHA MENON K G	
NCE21MCA2038	RASEENA K K	Mr. ASHISH L
NCE21MCA2039	RUSHDA NASREEN	
NCE21MCA2040	SABANA JASMINE	
NCE21MCA2041	SAHAL P S	

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NCE21MCA2042	SHAN ALI HASAN	Ms. DIVYA P
NCE21MCA2043	SHIBIN SHANTY	
NCE21MCA2044	SIDHARTHAN V U	
NCE21MCA2045	SNEHA VIJAYAN T	
NCE21MCA2046	SOORAJ M	
NCE21MCA2047	SOORYA S NAMBOOTHIRI	Ms. SUMI M
NCE21MCA2048	SREEJITH K M	
NCE21MCA2049	SUBITHA P	
NCE21MCA2050	SWATHI LAKSHMI P R	
NCE21MCA2051	VARSHA J	
NCE21MCA2052	VISHNU A S	
NCE21MCA2053	VISHNU PREM NAIR	
NCE21MCA2054	VISHNU S	
NCE21MCA2055	VISMAYA VIJAY V	




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DEPARTMENT OF COMPUTER APPLICATIONS

S4 FINAL PROJECT KEY DATES AND MILESTONES

2021-23

Week	Schedule	Date (Time: 10.00)
	Initial Discussions on Project Methodology.	2023Jan19 <i>Whole Class session</i>
I	Selection of Topic, Feasibility analysis.	Jan 30
II	Topic Approval, Meeting of student and Scrum Master with Product Owner. Informal, preliminary discussions of requirements. Creating user stories in the rough record. Commencement of the Project.	Feb 10 <i>Meet your guide in-person.</i>
III	Identifying modules, Initial Design of Database & UI. Starting Test Driven Development. Creating an empty git repository by Scrum Master / Student. Pushing the first version of the Project along with a Readme file containing contact details of team members. Using Branch for individual members. Merging with Master.	Feb 24
IV	First Scrum Review. (Here onwards, the Scrum reviews are conducted on every other week)	Feb 28 <i>Meet your guide in-person.</i>
VII	Project Presentation - Interim Evaluation to be based on Git History	March 10 <i>Whole Class session</i>
XII	Project Presentation - Final Evaluation to be based on Git History	March 24 <i>Whole Class session</i>
XIII	Submission of Project Report, with Rough Record	April 20
	Project Report Submission in KTU Portal	April 28
	PDF file Uploading	<i>Awaiting KTU dates (around May 3)</i>
	Viva expected date	<i>Awaiting KTU dates (around May 10)</i>

Note: All students should stay linked with their Faculty Guides/Scrum masters, and send all required communications/documents connected with the project when and where necessary.

Mandatory: Students MUST PUBLISH their project execution findings in *NeCTAR Conference Proceedings*. Departn would help the process by waiving the Whole Publication Fees, but quality won't be compromised.



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DEPARTMENT OF COMPUTER APPLICATIONS

Sl.No	PROJECT TITLES
1	AUTOMATED LICENSE PLATE RECOGNITION FOR MOTORCYCLISTS WITHOUT HELMETS - DR. SUDHEER S MARAR, ABINRAJ MR
2	TRAVELBUDDY - Dr. SUDHEER S MARAR, ADARSH R NAIR
3	MISSING CHILD IDENTIFICATION SYSTEM BASED ON ADVANCED FACIAL RECOGNITION AND MACHINE LEARNING - Dr. SUDHEER S MARAR, AHSANA FATHIMA E
4	DESIGNING A MACHINE LEARNING APPLICATION 'DROWZ DET' TO AVOID VEHICLE ACCIDENT - Dr. SUDHEER S MARAR, AIRISH BABY
5	HEART DISEASE PREDICTION USING MACHINE LEARNING - Dr. SUDHEER S MARAR, AJMAL K
6	HIGH TECH REGULATION CLASSIFICATION PORTAL -Dr. SUDHEER S MARAR, AMRUTHA R
7	WEB APPLICATION FOR CONNECTING PEOPLE TO METRO - Dr. SUDHEER S MARAR, ANJANA V
8	ONLINE ASSISTANCE FOR FARMING - PRAMOD K, ANJU BABU
9	ONLINE CHATTING WEBSITE WITH SPAM MESSAGE DETECTION - PRAMOD K, ANOOP B K
10	GARD-AID: THE ONE-STOP GARDENING SOLUTION - PRAMOD K, ANURAJ N
11	REAL TIME MOCK INTERVIEW USING DEEP LEARNING - PRAMOD K, ARUNDHATHI B
12	VIGILATE FOR RABBLES - PRAMOD K, ARUNIMA O
13	SMART VOTING SYSTEM USING VOTER ID AND BIOMETRIC AUTHENTICATION - PRAMOD K, ASWATHY V S
14	PADDY LEAF DISEASE DETECTION USING CONVOLUTIONAL NEURAL NETWORK - PRAMOD K, ASWATHY VENU
15	SECURITY AGAINST PHISHING ATTACKS USING MACHINE LEARNING - PRAMOD K, ASWIN D
16	LIFE DENT CARE : COMPREHENSIVE DENTAL CLINIC WEBSITE FOR ENHANCED ACCESS - Dr. DEEPA A, ATHUL M
17	DECENTRALISED VOTING APPLICATION USING BLOCKCHAIN - Dr. DEEPA A, BASIL JIJU
18	KEY-AGGREGATE CRYPTOSYSTEM FOR SCALABLE DATA SHARING IN CLOUD STORAGE. - Dr. DEEPA A, DEVAKI V K
19	LAW ENFORCEMENT WITH THE HELP OF PUBLIC ASSISTANCE - Dr. DEEPA A, DHANUSH U
20	KERATOCONUS DETECTION USING MACHINE LEARNING - Dr. DEEPA A, FATHIMA SHAHANA
21	EARLY DIAGNOSING FOR SPECIFIC LEARNING DISABILITY USING DECISION TREE ALGORITHM - DR. DEEPA A, FATHIMA THAHASIM U
22	WEB APPLICATION FOR BUILDING CONSTRUCTION AID - Dr. DEEPA A, FATHIMA THASLIYA P A
23	DIAMOND QUALITY PREDICTION USING MACHINE LEARNING -Dr. DEEPA A, GOPIKA.NADARAJAN
24	MEDICINE REMINDER - Dr. VINEETHA K R, HABEEBA SINU
25	A MAC BASED BLOCKCHAIN FOR EFFICIENT DATA INTEGRITY SCHEME IN MULTI-CLOUD STORAGE - Dr. VINEETHA KR, HARSHIL S
26	HOUSE PRICING PREDICTION USING MACHINE LEARNING - Dr. VINEETHA K.R, HIBA MOL C
27	STUDENT PERFORMANCE PREDICTION USING MACHINE LEARNING - Dr. VINEETHA KR, JEENA THOMAS

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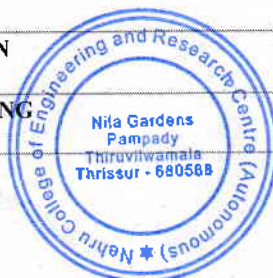


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DEPARTMENT OF COMPUTER APPLICATIONS

28	CRIME PREDICTION THROUGH AI IN SMART CITIES - Dr.VINEETHA K. R, KASHYAP KRISHNA K. R.
29	INSURANCE FRAUD DETECTION - Dr. VINEETHA K R, KRISHNA K
30	PLAGIARISM DETECTION AND SENTENCE PARAPHRASING USING PYTHON - Dr.VINEETHA K.R, MADHU H
31	DETECTING PHISHING WEBSITE USING MACHINE LEARNING - Dr.VINEETHA K.R, MELVIN VINCY
32	UNDER WATER GARBAGE DETECTION AND CLASSIFICATION USING DEEP LEARNING - Dr.G ANITHA,KAHE,MR. ASHISH L, MOHAMED SANHAR S
33	FOOD DONATION MANAGEMENT SYSTEM - MR.ASHISH L, MRIDULA P
34	DETECTION OF ABUSIVE CONTENTS AND FAKE NEWS IN SOCIAL MEDIA - MR. ASHISH L. NASREEN PARAYIL
35	ONLINE CHARITY MANAGEMENT SYSTEM - MR. ASHISH L, PRAVEENA K R
36	HUMAN MEDICAL HISTORY SYSTEM - MR. ASHISH L,RADHIDEVE
37	VHELP ONLINE VOLUNTEERING SYSTEM - MR. ASHISH L, RANJITHA MENON KG
38	DIABETES PREDICTION USING MACHINE LEARNING ALGORITHMS - MR.ASHISH. L, RASEENA.K.K
39	WEDDING CONNECT - MR.ASHISH. L, RUSHDA NASREEN. P
40	STRESS DETECTION IN IT PROFESSIONALS BY IMAGE PROCESSING AND MACHINE LEARNING - Dr.K ANURADHA, Karpagam College of Engineering, MS.DIVYA P, SABANA JASMINE C
41	MEDICAL WASTE OBJECT DETECTION USING -YOLO - MS.DIVYA P, SAHAL P S
42	DEPRESSION DETECTION USING MACHINE LEARNING - MS.DIVYA P, SHAN ALI HASAN
43	SUBJECTIVE ANSWER EVALUATION USING MACHINE LEARNING AND NLP - MS DIVYA P, SHIBIN SHANTY
44	FLIGHT DELAY PREDICTION SYSTEM - MS. DIVYA P, SIDHARTHAN V. U
45	T- KINDHEARTS.COM - MS.DIVYA P, SNEHA VIJAYAN T
46	E COMPLAINT RESOLVER: STREET LIGHT, WATER PIPE LEAKAGE, RAINWATER DRAINAGE, ROAD - MS.DIVYA P, SOORAJ M
47	AN IMPROVED FATIGUE DETECTION SYSTEM BASED ON BEHAVIORAL CHARACTERISTICS OF DRIVER - MS. DIVYA P,SOORYA S NAMBOODIRI
48	SENTIMENT ANALYSIS USING MACHINE LEARNING - Dr. S MANJUPRIYA,KAHE, MS. SUMI M, SREEJITH K M
49	KNEE OSTEOARTHRITIS DETECTION AND IT'S SEVERITY PREDICTION USING CNN - MS. SUMI M, SUBITHA P
50	ELECTRIC VEHICLE CHARGING STATION FINDER USING FLUTTER - MS. SUMI M, SWATHILAKSHMI P R
51	BLIND ASSISTANCE SYSTEM : REAL TIME OBJECT DETECTION WITH VOICE FEEDBACK - MS.SUMI M, VARSHA J
52	ALPHA AI ASSISTANT - MS.SUMI M, VISHNU A S
53	ANDROID LOCATION BASED REMINDER SYSTEM - MS. SUMI M, VISHNU PREM NAIR
54	FUEL DELIVERY ON DEMAND WEB APPLICATION - MS.SUMI M, VISHNU S
55	BRAIN TUMOR DETECTION USING DEEP LEARNING - MS. SUMI M, VISMAYA VIJAY V



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Department of Electronics and Communication Engineering

INDUSTRIAL VISIT REPORT

AY 2022-23

An **Industrial Visit** is a practical way of learning the internal working environment of a company. Such an opportunity gives the Students an exposure to the practical challenges that organizations face in the business world.

We the students of S6 **B.Tech Electronics & Communication Engineering** department as part of our curriculum got an opportunity to visit **Kaynes Technology Pvt Ltd. India** for an Industrial Visit. A group of 25 students and 2 faculty members set out for a four days journey to Gokarna, Bellur, Mysore, and Coorg. Journey started at the night of 22 June of 2022 from the college ground.

DAY 1: GOKARNA

Reached Gokarna after a night journey at around 9:30AM to Cute Resort. Quickly freshened up and had breakfast. The bus was an equally interesting place with fun filled activities, songs to dance. The tour operators engaged us with activities during long travelling hours. We had a hearty meal from 1 hotel on the way to Gokarna. At 2pm we reached our last destination, Kudle beach. A cool breeze welcomed us to the vast blue expanse of Arabian sea. Spent the whole day walking through warm sand and playing in the sea water. Then started journey to the next destination bellur.



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Planet Earth Aquarium, Gokarna

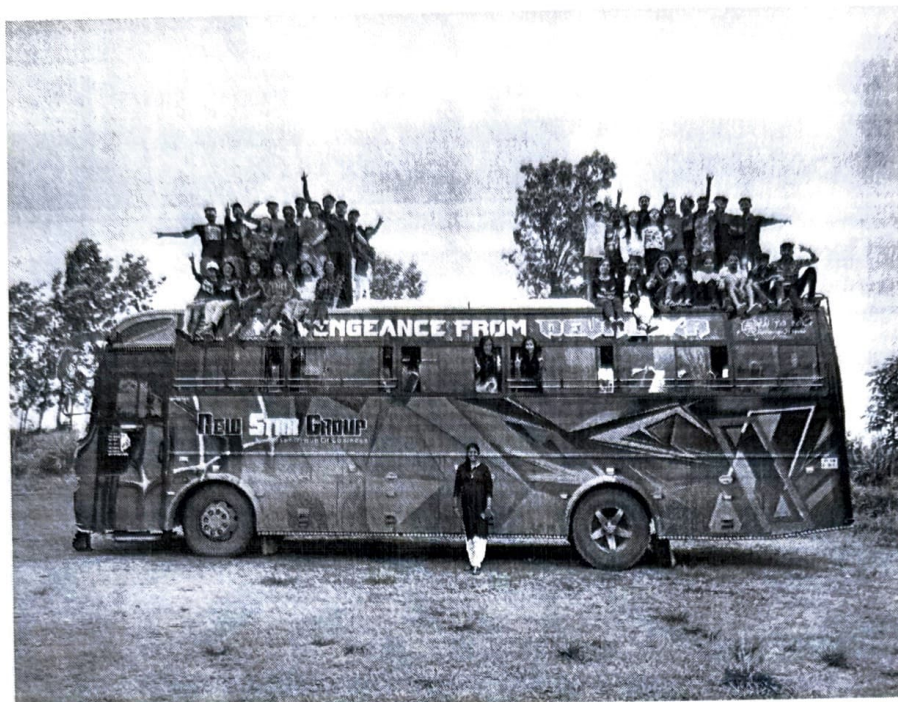
DAY 2: BELLUR

Reached Bellur after a night journey at around 8:30AM to Hotel JM Residency. Quickly freshened up and had breakfast. Then move to Bellur Dam for the river activities. All are tired because of the late night travel so everybody is taken a good sleep in the bus. Reached Bellur at 12PM, Some students not going for the activities because of their health problems. And Remaining students and staff do the activities Kayakin, Bannana Boating, Bumbber Boat. After the activities all are freshup in the Bathroom. After then having food at 3PM And goes to Hotel back



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Bellur Dam

DAY 3: MYSORE

Started Journey at Morning 7 Am To Mysore for our Industrial visit. Reached our Industry Kaynes Technology Pvt Ltd. India at 11:30 AM. Completed the initial verifications from the gate and moves to the company Assembling Point. We splinted in to two groups and each group will lead by a two company production managers. The company mainly Assembled of PCB Boards For Many other Companys. They Mainlt Assembling LED Bulb Circuit Board, Inverter Board, Coolin Systeems Etc.

After a long walk we decided to move to the last place for the day, Mysore Brindavan gardens The garden was a place perfect for spending time with friends, taking photos and appreciating the architecture of brindavan.



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Group photo in front of Kaynes Technology Pvt Ltd.India

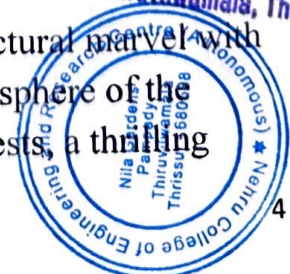
DAY 4: COORG



Golden Temple, Coorg

Our first visit at Coorg was to the Golden Temple, an architectural marvel with statues scale up to 8 feet in height. The calm and serene atmosphere of the Buddhist temple was peaceful the next spot was Bamboo forests, a thrilling

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experience in the woods and waters made our day. At the exit of the forests were the shops selling famous Coorg chocolates, clothes, gift items. Everyone spent the remaining evening at these busy shops. After the purchasing Started Journey back to College. In the long travelling nights the tour operators ask the feedbacks to the staffs and students. All the staff and Students share their experience with others.

We reached college on 26.06.2022. The industrial visit was remarkable, ever green in our thoughts and informative.



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SOLAR OPERATED SMART MULTIFUNCTIONAL FLOOR CLEANING ROBOT

PROJECT REPORT

Submitted by

ABHIJITH P

NCE19EC001

ASWIN V

NCE19EC013

MALAVIKA VENUGOPAL

NCE19EC018

SRIJUSH P R

NCE19EC026

to

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



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE
(APPROVED BY AICTE, ISO 9001:2015 CERTIFIED,**

NAAC ACCREDITED WITH A GRADE)

PAMPADY THIRUVI WAMALA, THRISSUR-680588



JUNE 2023

S. S. S. S.
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Nehru College of Engineering and
Research Centre

DECLARATION

We undersigned hereby declare that the project report "Solar Operated Smart Multifunctional Floor Cleaning Robot", submitted for partial fulfillment of the requirements for the award of degree of Bachelor of Technology of the APJ Abdul Kalam Technological University, Kerala is a bona-fide work done by ours under the supervision of **Mr. Vishnu Prabha N Kaimal**, Assistant Professor of Electronics and Communication Engineering, NCERC, Pampady. This submission represents our ideas in our own words and where ideas or words of others have been included, we have adequately and accurately cited and referenced the original sources. we also declare that we have adhered to ethics of academic honesty and integrity and have not misrepresented or fabricated any data or idea or fact or source in my submission. we understand that any violation of the above will be a cause for disciplinary action by the institute and/or the university and can also evoke penal action from the sources that have thus not been properly cited or from whom proper permission has not been obtained. This report has not previously formed the basis for the award of any degree, diploma, or similar title of any other university.

Place : **Pampady**
Date : **16-05-2023**

Signature

Malavika Venugopal

Abhijith P

Aswin V

Srijush P R



32/05/2023



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ENGINEERING**

**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (ACCREDITED
BY NAAC)**

PAMPADY, THIRUVILWAMALA, THRISSUR, KERALA



CERTIFICATE

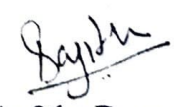
This is to certify that the report entitled **"SOLAR OPERATED SMART MULTIFUNCTIONAL FLOOR CLEANING ROBOT"** submitted by **ABHIJITH P, ASWIN V, MALAVIKA VENUGOPAL, SRIJUSH P R** to the API Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology, Department of Electronics and Communication 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.


Internal Supervisor(s)


External Supervisor(s)


Project Coordinator




Head of the Department


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ABSTRACT

The conventional floor cleaning machines is most widely used in airport platforms, railway platforms, hospitals, bus stands, malls and in many other commercial places. These devices need an electrical energy for its operation and not user friendly. In India, especially in summer, there is power crisis and most of the floor cleaning machine is not used effectively due to this problem, particularly in bus stands. Hence it is a need to develop low cost, user friendly floor cleaning machine. In this project, an effort has been made to develop a solar powered mobile operated floor cleaning machine so that it can be an alternative for conventional floor cleaning machines. In this work, modelling and analysis of the floor cleaning machine was done using suitable commercially available software. The conventionally used materials were considered for the components of floor cleaning machine. From the finite element analysis, we observe that the stress level in the mobile operated floor cleaning machine is within the safe limit. Automated floor cleaning machines are commonly used in developing countries since many years because of high cost of labor, time, efforts and affordability. The concept is not popular in developing or emerging economic countries. Reasons for non-popularity are cost of machine and operational charges in terms of power tariff. This article is based upon on our innovative project to design, development and manufacturing of semi-automatic solar powered mobile operated floor cleaning machine which will work on solar energy, mobile communication, battery or electricity. A semi-automatic floor cleaning machine is developed by keeping basic consideration for less energy consumption, machine as well as operational cost reduction, reduce the human effort, environment friendly and easy to handle. Base of the project was to use renewable energy which is abundant in most of the countries, will have less environmental impact.



Dept of ECE

seivisapathy

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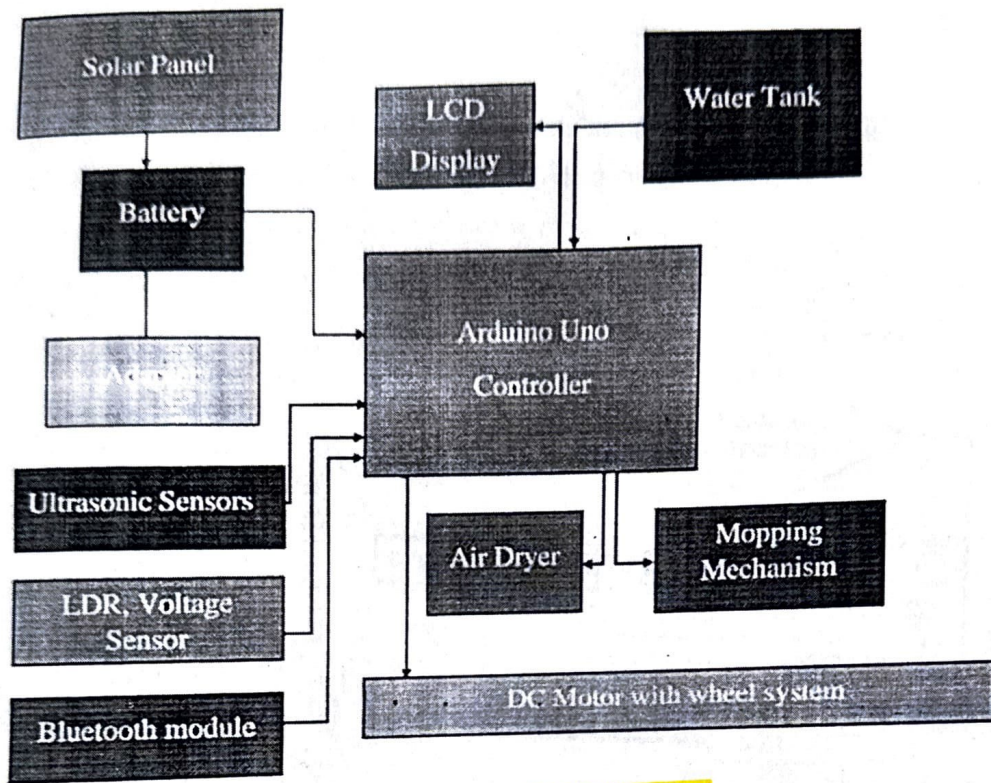


Figure 1. System block diagram

3.3 System Flowchart

The figure 2 shows the system flowchart. And the process starts at the vacuum power is on. The DC motor will start moving forward and the ultrasonic sensor will detect if there is an object and according to that the device directions will change. When the battery is low the vacuum will stop cleaning and search for a light source. If the vacuum is full, it will send notification to the user phone via Bluetooth and power off the vacuum.

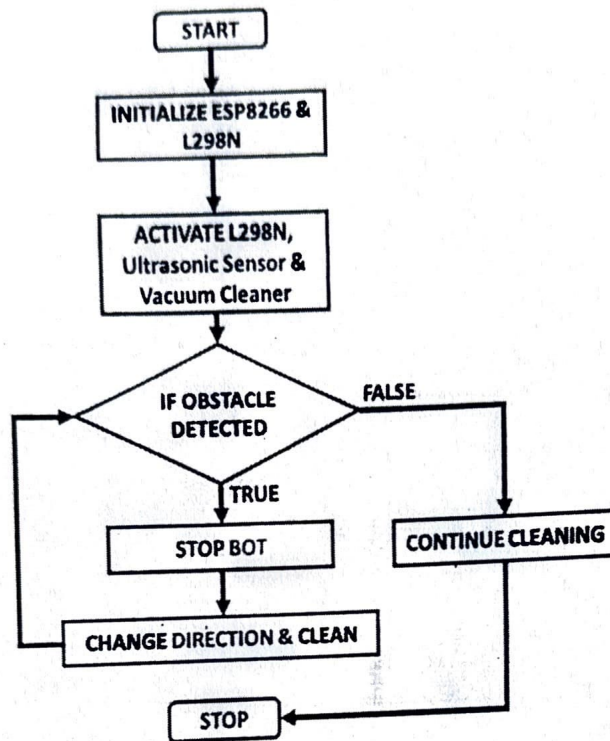


Figure 2. System Flowchart



Seemitha

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NCERC, Pampady

CHAPTER 4 CIRCUIT DIAGRAM

When Solar Panel of 20w is applied and their electric energy stored in battery. 12v DC battery supply is provided to the electrical switch board of the machine. The main supply from electrical board is supplied to a Vacuum cleaner, during working DC is supplied to the vacuum cleaner. Vacuum cleaner is used to operate the DC motors which performs a key role in cleaning operation.

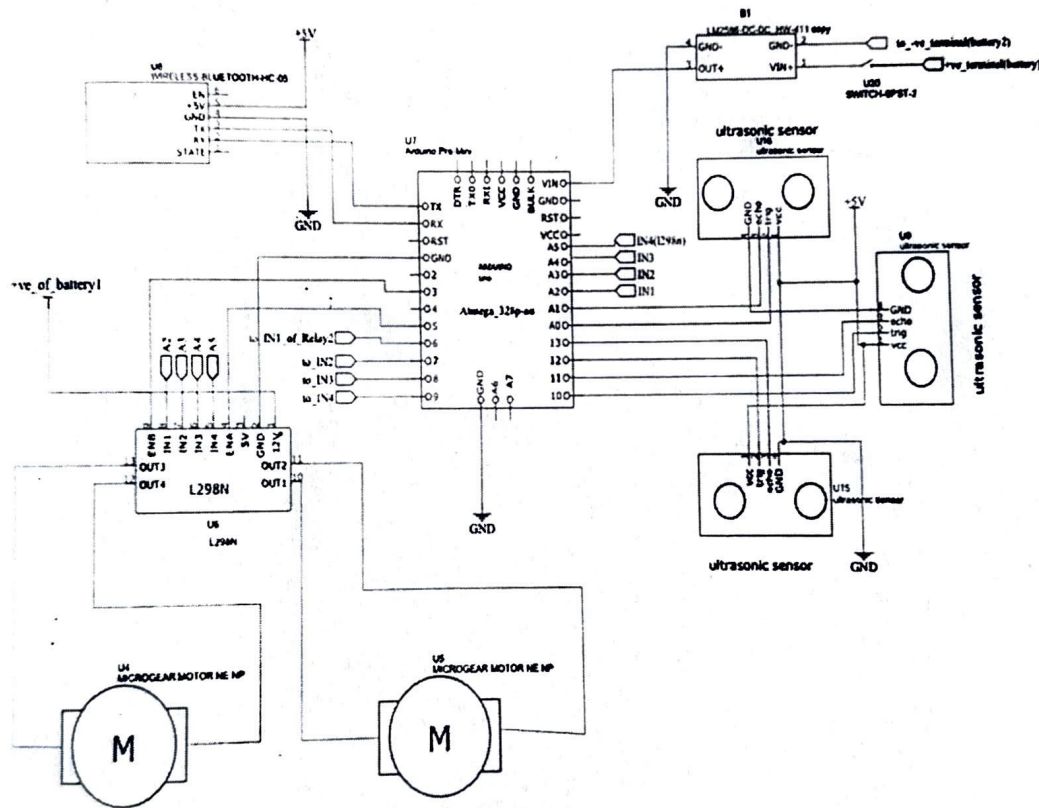


Figure 3. Main Circuit Diagram

There are three D.C motors one is used to rotate the mop for cleaning the middle surface that is covered by the chassis. The DC motor used for rotation of the mop having high torque than the motor used for the brushes. The other two DC motors having high RPM are used to clean the front

CHAPTER 8

RESULTS AND DISCUSSION

The aim of this project is to design and develop a Vacuum Cleaning Robot.

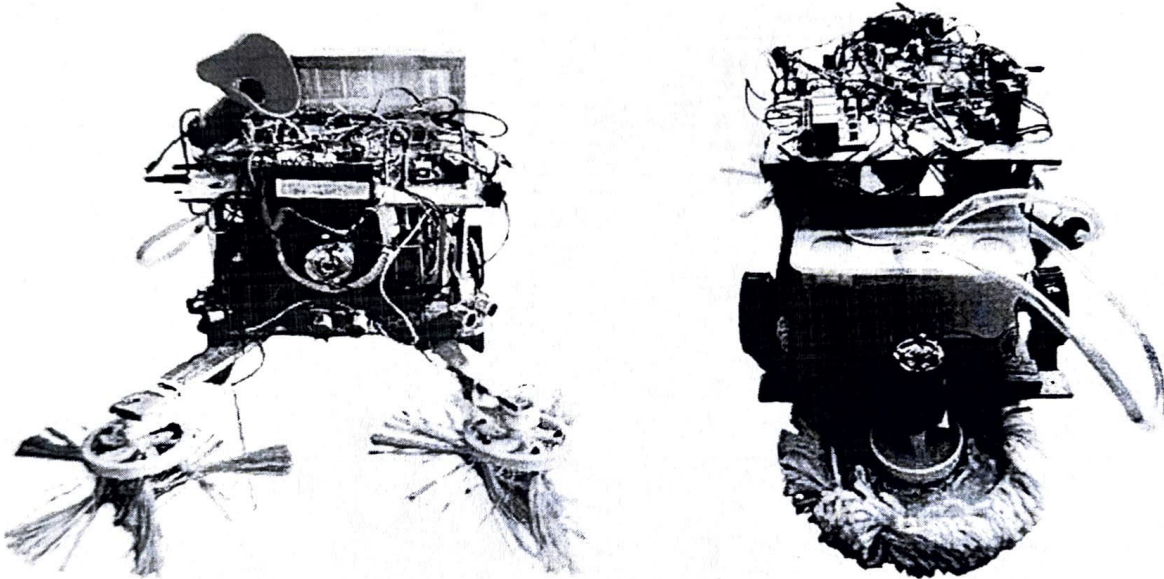


Fig . Full Development System



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