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INTERNSHIP

Internships serve as invaluable experiences for students across various disciplines, in B.Tech degrees. Here are a few ways in which internships greatly benefit students:

1. **Real-World Application:** Internships provide a practical platform for students to apply theoretical knowledge gained in the classroom to real-world situations. This hands-on experience helps solidify concepts and understand their practical implications.
2. **Skill Development:** Students acquire industry-specific skills and practical know-how that cannot be learned solely through coursework. They gain expertise in using tools, technologies, and methodologies relevant to their field.
3. **Professional Networking:** Internships offer opportunities to build a network of contacts within the industry. This network can be instrumental in securing future job opportunities or mentorship.
4. **Career Exploration:** Internships allow students to explore different career paths within their field. They gain insight into various roles, industries, and work environments, helping them make informed decisions about their career trajectory.
5. **Resume Enhancement:** Having internship experience enhances a student's resume, making them more competitive in the job market. It demonstrates practical experience and a proactive attitude towards learning.
6. **Soft Skills Development:** Internships foster the development of soft skills such as communication, teamwork, problem-solving, adaptability, and time management, which are crucial for success in any professional setting.
7. **Potential Employment Opportunities:** A successful internship often opens the door to full-time job offers upon graduation. Employers value candidates with relevant internship experience, making interns more likely to be hired.
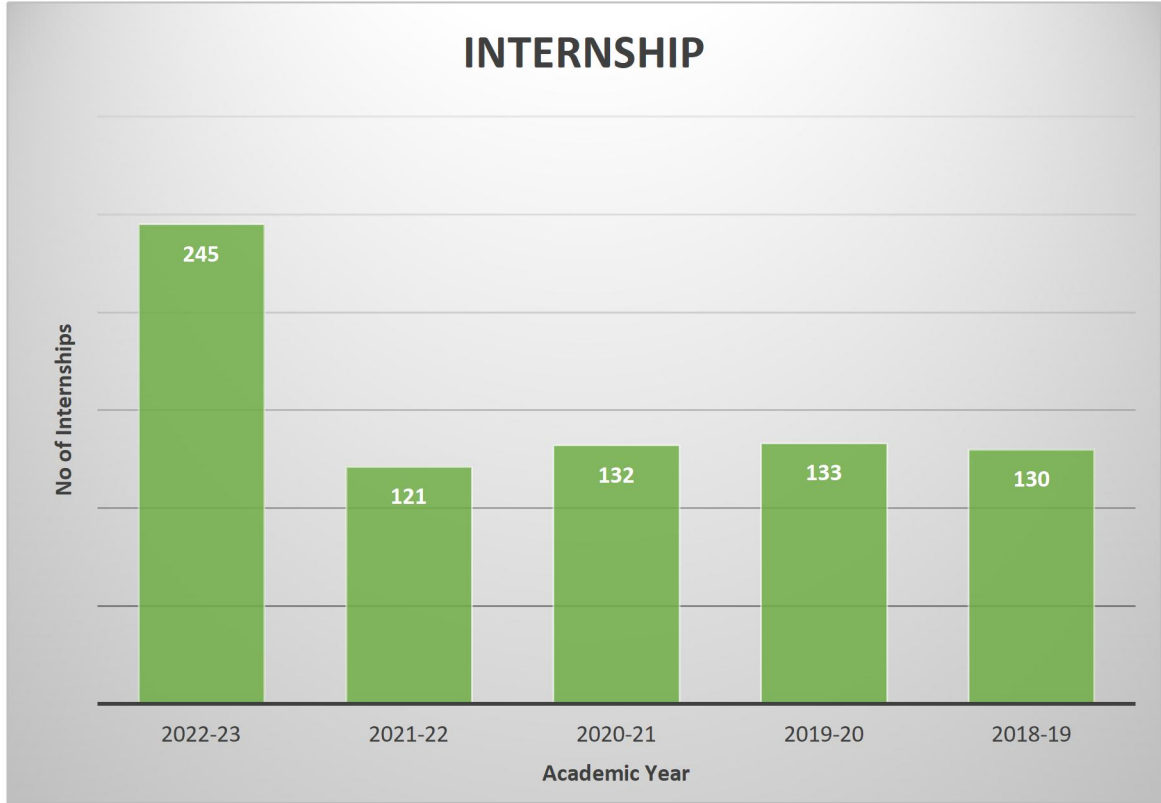
Overall, internships serve as a bridge between academic learning and the professional world, offering students a chance to gain practical experience, build skills, expand their networks, and clarify their career goals

KTU B.Tech Curriculum

Clause R3.7 - Sl. No 7 describes the role of internship in B.Tech regulation

R3.7	Every course of B. Tech. Program shall be placed in one of the nine categories as listed in table below.			
	S. No.	Category	Code	Breakup of Credits
	1	Humanities and Social Sciences including Management courses	HSMC	8
	2	Basic Science courses	BSC	26
	3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc	ESC	22
	4	Professional core courses	PCC	76
	5	Professional Elective courses relevant to chosen specialization/branch	PEC	15
	6	Open subjects – Electives from other technical and /or emerging subjects ` as specified in the curriculum concerned.	OEC	03
	7	Project work, seminar and internship in industry or elsewhere	PROJ	10
	8	Mandatory Courses [Environmental Sciences, Induction training, Indian Constitution, Essence of Indian Traditional Knowledge]	MC	Non credit
	9	Mandatory Student Activities (Pass/Fail)	SA	2
		Total Credits		162

BAR CHART

INTERNSHIP

Academic Year	No of Internships
2022-23	245
2021-22	121
2020-21	132
2019-20	133
2018-19	130

languify

INTERNSHIP
CERTIFICATION

This is to certify that

Aarsha Anil

has successfully completed internship program in **Artificial Intelligence with Python**
from 25th Jul, 2022 to 25th Sep, 2022. During the internship, the student
was found to be dedicated, hardworking and diligent.

ACADEMIC HEAD

Coincent
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DIRECTOR SIGNATURE

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KITES Softwares Pvt. Ltd.
www.kitesnet.com

CERTIFICATE

This certificate is awarded to

Ms. .... **ALANA ANCE JOHN** ....**B.Tech AI & Data Science**

student, **Vimal Jyothi Engineering College, Kannur**

has successfully completed

10 days **Internship** in **Python Bootcamp** at

KITES Softwares Pvt. Ltd., Kochi

from 06th May 2023 to 16th May 2023

Director

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ITBG - Knowledge Services Group
GSTIN : 32AABCK1319E4Z5

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CIN : U74999KL1972SGC002450

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

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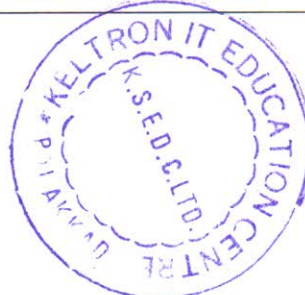
CERTIFICATE

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

Name of the Student	**Ms. AMRITHA PRADEEP**
Name & Address of the College/Institution at which the Student is Studying	Vimal Jyothi Engineering College, State Highway 59, Jyothi Nagar, Kannur, Chemperi, Kerala -670632
University/Board, which the Institution is Affiliated to	A P J Abdul Kalam Technological University (KTU), Kerala
Branch/Discipline of Study	B. Tech in Computer Science & Engineering
Student's Registration No.	6980
Semester / Year of Study	1st Semester
Name & Address of the Institution/Centre where the Internship Program was conducted	**Keltron REC (H249), 3rd Floor, Corporation Building, Naduvilal Junction, Thrissur - 680001, Kerala**
Online Portal Registration No.	KI011470
Roll No./Register No.	K20H249I110101
Program Category	**INTERNSHIP**
Period & Duration of the Program	28.12.2020 to 03.01.2021 (1 Week)
Area of Exposure	Understanding Real-Time Server Side Scripting using PHP, Programming Language, MySQL Database Connectivity, Session Tracking, Object Handling in Session, Real-Time Web Hosting using C Panel & FTP Tools
Status	**COMPLETED SUCCESSFULLY**

**Authorized Signatory
(Knowledge Services)**

Temp.No.:KSG/INTP/Type- 1/2:01.04.2019

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KSG/H249/INTP/21-01/L0485

11.01.2021

CERTIFICATE

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

Name of the Student	**Mr. AUSTINE S MANUEL**
Name & Address of the College/Institution at which the Student is Studying	Vimal Jyothi Engineering College, State Highway 59, Jyothi Nagar, Kannur, Chemperi, Kerala -670632
University/Board, which the Institution is Affiliated to	A P J Abdul Kalam Technological University (KTU), Kerala
Branch/Discipline of Study	B. Tech in Computer Science & Engineering
Student's Registration No.	7030
Semester / Year of Study	1st Semester
Name & Address of the Institution/Centre where the Internship Program was conducted	**Keltron REC (H249), 3rd Floor, Corporation Building, Naduvilal Junction, Thrissur - 680001, Kerala**
Online Portal Registration No.	KI011458
Roll No./Register No.	K20H249I120001
Program Category	**INTERNSHIP**
Period & Duration of the Program	28.12.2020 to 10.01.2021 (2 Weeks)
Area of Exposure	Understanding Real-Time Server Side Scripting using PHP, Programming Language, MySQL Database Connectivity, Session Tracking, Object Handling in Session, Real-Time Web Hosting using C Panel & FTP Tools
Status	**COMPLETED SUCCESSFULLY**

Authorized Signatory
(Knowledge Services)

Temp.No.:KSG/INTP/Type- 1/2:01.04.2019

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Phone: 0495-2724698

KSG/58/OJT/17-08/0231

11.09.2017

CERTIFICATE

Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Ms. ANUSREE P S
College Register No	VML16AE005
Keltron Register No	K1758J220019
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture.
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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Kozhikode

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Verified by:

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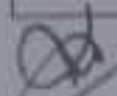
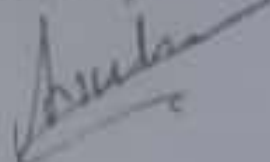Phone: 0495-2724698

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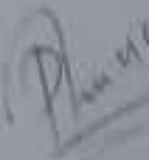|	
Name of the Student	Mr. AMAL SREENIVASAN
College Register No	VML16AE003
Keltron Register No	K1758J220014
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3ʳᵈ Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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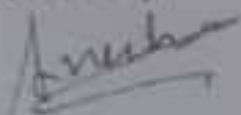
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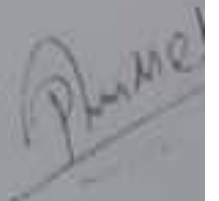|	
Name of the Student	Mr. ANURAG N P
College Register No	VML16AE004
Keltron Register No	K1758J220008
Branch/Discipline	B tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
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Name of the Student	Mr. ADHWAID M C
College Register No	VML16AE001
Keltron Register No	K1758J220006
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar,Chemperi-670632,Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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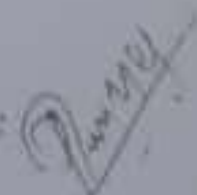|	
Name of the Student	Mr. ALAN TOM SHAJI
College Register No	VML16AE002
Keltron Register No	K1758J220014
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
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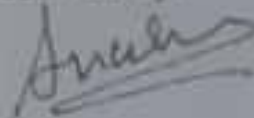KSG/58/OJT/17-08/0227

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Name of the Student	Mr. ASWANTH T
College Register No	VML16AE009
Keltron Register No	K1758J220010
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3ʳᵈ Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar,Chemperi-670632,Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
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Name of the Student	Mr. ASWANTH S
College Register No	VML16AE008
Keltron Register No	K1758J220004
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar,Chemperi-670632,Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
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CERTIFICATE

Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Mr. ASWAD S KUMAR
College Register No	VML16AE007
Keltron Register No	K1758J220017
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar,Chemperi-670632,Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
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Phone: 0495-2724698

KSG/58/OJT/17-08/0218

11.09.2017

CERTIFICATE

Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Mr. ARJUN P
College Register No	VML16AE006
Keltron Register No	K1758J220025
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3ʳᵈ Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar,Chemperi-670632,Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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CERTIFICATE

Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

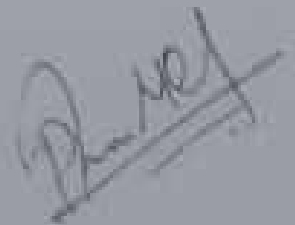|	
Name of the Student	Ms. DRISHYA K
College Register No	VML16AE014
Keltron Register No	K1758J220027
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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11.09.2017

CERTIFICATE

Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Ms. DEVA PRIYA S
College Register No	VML16AE012
Keltron Register No	K1758J220023
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar,Chemperi-670632,Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
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STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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11.09.2017

CERTIFICATE

Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Mr. ATHUL PRASANTH
College Register No	VML16AE011
Keltron Register No	K1758J220009
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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11.09.2017

CERTIFICATE

Certified that the student has attended 2 weeks On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Mr. ASWIN SUDHAN
College Register No	VML16AE010
Keltron Register No	K1758J220021
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar,Chemperi-670632,Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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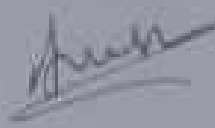KSG/58/OJT/17-08/0232   11.09.2017

CERTIFICATE

Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Ms. NAVAMI MANOHARAN
College Register No	VML16AE022
Keltron Register No	K1758J220020
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Mr. VISHNU
College Register No	VML16AE029
Keltron Register No	K1758J220028
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar,Chemperi-670632,Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks. Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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CERTIFICATE

Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Mr. JOYAL JOY
College Register No	VML16AE019
Keltron Register No	K1758J220002
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Mr. HAVINAND K
College Register No	VML16AE016
Keltron Register No	K1758J220005
Branch/Discipline	B. tech In APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3ʳᵈ Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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CERTIFICATE

Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Mr. FEBIN J NALAPPAT
College Register No	VML16AE015
Keltron Register No	K1758J220018
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Mr. NEERAJ K
College Register No	VML16AE023
Keltron Register No	K1758J220015
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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Name of the Student	Mr. VINEETH VINAY KUMAR
College Register No	VML16AE028
Keltron Register No	K1758J220012
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3ʳᵈ Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar,Chemperi-670632,Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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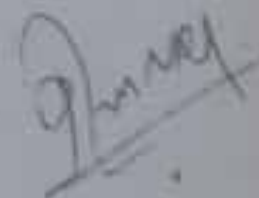|	
Name of the Student	Mr. NIVED VIJAYAN
College Register No	VML16AE025
Keltron Register No	K1758J220001
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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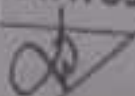
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11.09.2017

CERTIFICATE

Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Mr. NIVED N C
College Register No	VML16AE024
Keltron Register No	K1758J220016
Branch/Discipline	B. tech In APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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CERTIFICATE

Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Mr. RAMGEETH VP
College Register No	VML16AE026
Keltron Register No	K1758J220024
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3ʳᵈ Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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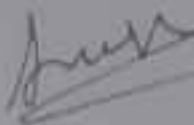
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11.09.2017

CERTIFICATE

Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Mr. VISHNU RAJ
College Register No	VML16AE030
Keltron Register No	K1758J220026
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3rd Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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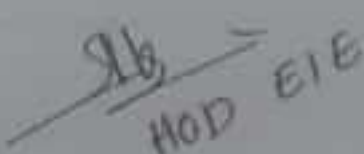Keltron Knowledge Centre
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11.09.2017

CERTIFICATE

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KELTRON as per the particulars given below:

Name of the Student	Mr. MUHAMMED RAZAL K C
College Register No	VML16AE021
Keltron Register No	K1758J220003
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3ʳᵈ Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON "INTERNET OF THINGS."
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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11.09.2017

CERTIFICATE

Certified that the student has attended 2 weeks 'On the Job Training program' conducted by KELTRON as per the particulars given below:

Name of the Student	Mr. SHAHABAS P P
College Register No	VML16AE027
Keltron Register No	K1758J220011
Branch/Discipline	B. tech in APPLIED ELECTRONICS & INSTRUMENTATION
Year/Semester	3ʳᵈ Semester
Address of College	VIMAL JYOTHI ENGINEERING COLLEGE, Jyothi Nagar, Chemperi-670632, Kannur
University	Affiliated to APJ Abdul Kalam Technological University
Program Category	ON THE JOB TRAINING – BASIC SKILLS ON *"INTERNET OF THINGS."*
Period of Program	07.07.2017 to 18.07.2017
Program Done at	KELTRON KNOWLEDGE CENTER, MANKAVU
Area of Expertise	Embedded system, Wireless networks, Sensors, Server side scripting – PHP, HTML, Java script, CSS, IOT Protocols, User interface design tutorials, IOT architecture
STATUS OF PROGRAM	COMPLETED SUCCESSFULLY

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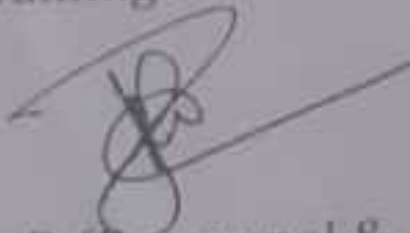|	
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Kalliasseri P.O.	Fax : (0497) 2781055
Kannur-670 562	E-mail : info@keltroncomp.org
Kerala, India	Website : www.keltroncomp.org

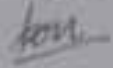436   03.08.2019

CERTIFICATE

This is to certify that Mr. Abhishek K., B.Tech. (Applied Electronics & Instrumentation Engineering) student of Vimal Jyothi Engineering College, Chemperi – 670 632 has done Internship at Keltron Component Complex Ltd, under our guidance from 23rd July 2019 to 30th July 2019.

The student has shown keen interest and initiative during the training.

HoD (Personnel & Admin.)

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Kalliasseri P.O. Fax : (0497) 2781055
Kannur-670 562 E-mail : info@keltroncomp.org
Kerala, India Website : www.keltroncomp.org

03.08.2019

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CERTIFICATE

This is to certify that Mr. Akshay P., B.Tech. (Applied Electronics & Instrumentation Engineering) student of Vimal Jyothi Engineering College, Chemperi – 670 632 has done Internship at Keltron Component Complex Ltd, under our guidance from 23rd July 2019 to 30th July 2019.

The student has shown keen interest and initiative during the training.

HoD (Personnel & Admin.)

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ISO 9001 : 2015 Certified Company

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Website   : www.keltroncomp.org

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03.08.2019

436

CERTIFICATE

This is to certify that Mr. Akshay K., B.Tech. (Applied Electronics & Instrumentation Engineering) student of Vimal Jyothi Engineering College, Chemperi – 670 632 has done Internship at Keltron Component Complex Ltd, under our guidance from 23rd July 2019 to 30th July 2019.

The student has shown keen interest and initiative during the training.

HoD (Personnel & Admin.)

1620033-Rev-2

KELTRON COMPONENT COMPLEX LTD
(A Govt of Kerala Undertaking)   GSTIN 32AAACK977781ZL   CIN: L31...

KELTRON

436   03.08.2019 (31)

CERTIFICATE

This is to certify that Mr. Vishnu K.K., B.Tech. (Applied Electronics & Instrumentation Engineering) student of Vimal Jyothi Engineering College, Chemperi – 670 632 has done Internship at Keltron Component Complex Ltd, under our guidance from 23rd July 2019 to 30th July 2019.

The student has shown keen interest and initiative during the training.

HoD (Personnel & Admin.)

MCET
COLLEGE OF ENGINEERING AND TECHNOLOGY

rexroth
A Bosch Company

Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. .... **Amal Raj P** ....of
B.Tech. Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala has

successfully completed a Five days In-plant Training on "Industrial Automation" during the period
from 23 to 27July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial
Automation Technologies, MCET Campus, Pollachi – 642003.

Training Area:

- Basic functions of Hydraulic and Pneumatic System Components
- Designing Hydraulic and Pneumatic Circuits for manual operation
  - Sequential Control and Signal Overlapping Circuits
- Electrical Logic Circuits for Electro Hydraulic and Pneumatic Systems
- Hardware Structure of PLC
  - CPU Structure.
  - I/O Modules – Digital & Analog
  - Communication Modules
- Creating, Loading and Testing PLC Program using Ladder Diagram
- Programming Using Timers and Counters
- HMI Programming using VI Composer
- Operator panel development for Bosch PLC using HMI
- Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudural
Centre Coordinator

Dr. A. Rathinavelu
Principal

Drive & Control Academy

Drive & Control Technologies

M-BR/ IPT-IA/2019–

MCET
COLLEGE OF ENGINEERING AND TECHNOLOGY

rexroth
A Bosch Company

Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. **Anu Sajeev** of B.Tech. Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala has successfully completed a Five days In-plant Training on "Industrial Automation" during the period from 23 to 27 July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial Automation Technologies, MCET Campus, Pollachi – 642003.

Training Area:

- Basic functions of Hydraulic and Pneumatic System Components
- Designing Hydraulic and Pneumatic Circuits for manual operation
  - Sequential Control and Signal Overlapping Circuits
- Electrical Logic Circuits for Electro Hydraulic and Pneumatic Systems
- Hardware Structure of PLC
  - CPU Structure,
  - I/O Modules – Digital & Analog
  - Communication Modules
- Creating, Loading and Testing PLC Program using Ladder Diagram
- Programming Using Timers and Counters
- HMI Programming using VI Composer
- Operator panel development for Bosch PLC using HMI
- Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudurai
Centre Coordinator

Dr. A. Rathinavelu
Principal

Drive & Control Academy

Drive & Control Technologies

M-BR/IPT-IA/2019-03

Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. .... **Anandhu Prakash** ....of B.Tech. Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala has

successfully completed a Five days In-plant Training on "Industrial Automation" during the period from 23 to 27July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial Automation Technologies, MCET Campus, Pollachi – 642003.

Training Area:

- ➢ Basic functions of Hydraulic and Pneumatic System Components
- ➢ Designing Hydraulic and Pneumatic Circuits for manual operation
  - ❖ Sequential Control and Signal Overlapping Circuits
- ➢ Electrical Logic Circuits for Electro Hydraulic and Pneumatic Systems
- ➢ Hardware Structure of PLC
  - ❖ CPU Structure,
  - ❖ I/O Modules – Digital & Analog
  - ❖ Communication Modules
- ➢ Creating, Loading and Testing PLC Program using Ladder Diagram
- ➢ Programming Using Timers and Counters
- ➢ HMI Programming using VI Composer
- ➢ Operator panel development for Bosch PLC using HMI
- ➢ Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudurai
Centre Coordinator

Dr. A. Rathinavelu
Principal

M-BR/ IPT-IA/2019-02

rexroth
A Bosch Company

Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. .... **Jis Mathew** ....of B.Tech. Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala has successfully completed a Five days In-plant Training on "Industrial Automation" during the period from 23 to 27 July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial Automation Technologies, MCET Campus, Pollachi – 642003.

Training Area:

- Basic functions of Hydraulic and Pneumatic System Components
- Designing Hydraulic and Pneumatic Circuits for manual operation
    - Sequential Control and Signal Overlapping Circuits
- Electrical Logic Circuits for Electro Hydraulic and Pneumatic Systems
- Hardware Structure of PLC
    - CPU Structure,
    - I/O Modules – Digital & Analog
    - Communication Modules
- Creating, Loading and Testing PLC Program using Ladder Diagram
- Programming Using Timers and Counters
- HMI Programming using VI Composer
- Operator panel development for Bosch PLC using HMI
- Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudurai
Centre Coordinator

Dr. A. Rathinavelu
Principal

M-BR/IPT-IA/2019-05

rexroth
A Bosch Company

Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. .... **Joice Joy** ....of B.Tech. Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala has successfully completed a Five days In-plant Training on "Industrial Automation" during the period from 23 to 27July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial Automation Technologies, MCET Campus, Pollachi – 642003.

Training Area:

- Basic functions of Hydraulic and Pneumatic System Components
- Designing Hydraulic and Pneumatic Circuits for manual operation
    - Sequential Control and Signal Overlapping Circuits
- Electrical Logic Circuits for Electro Hydraulic and Pneumatic Systems
- Hardware Structure of PLC
    - CPU Structure.
    - I/O Modules – Digital & Analog
    - Communication Modules
- Creating, Loading and Testing PLC Program using Ladder Diagram
- Programming Using Timers and Counters
- HMI Programming using VI Composer
- Operator panel development for Bosch PLC using HMI
- Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudural
Centre Coordinator

Dr. A. Rathinavelu
Principal

Drive & Control Technologies

M-BR/ IPT-IA/2019-06

Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. **Mathew Sebastian** of B.Tech. Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala has successfully completed a Five days In-plant Training on "Industrial Automation" during the period from 23 to 27 July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial Automation Technologies, MCET Campus, Pollachi – 642003.

Training Area:

- Basic functions of Hydraulic and Pneumatic System Components
- Designing Hydraulic and Pneumatic Circuits for manual operation
    - Sequential Control and Signal Overlapping Circuits
- Electrical Logic Circuits for Electro Hydraulic and Pneumatic Systems
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    - Communication Modules
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- Programming Using Timers and Counters
- HMI Programming using VI Composer
- Operator panel development for Bosch PLC using HMI
- Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudurai
Centre Coordinator
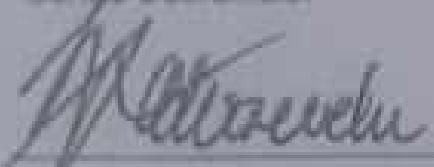
Dr. A. Rathinavelu
Principal

M-BR/ IPT-IA/2019-07

MCET
COLLEGE OF ENGINEERING AND TECHNOLOGY

rexroth
A Bosch Company

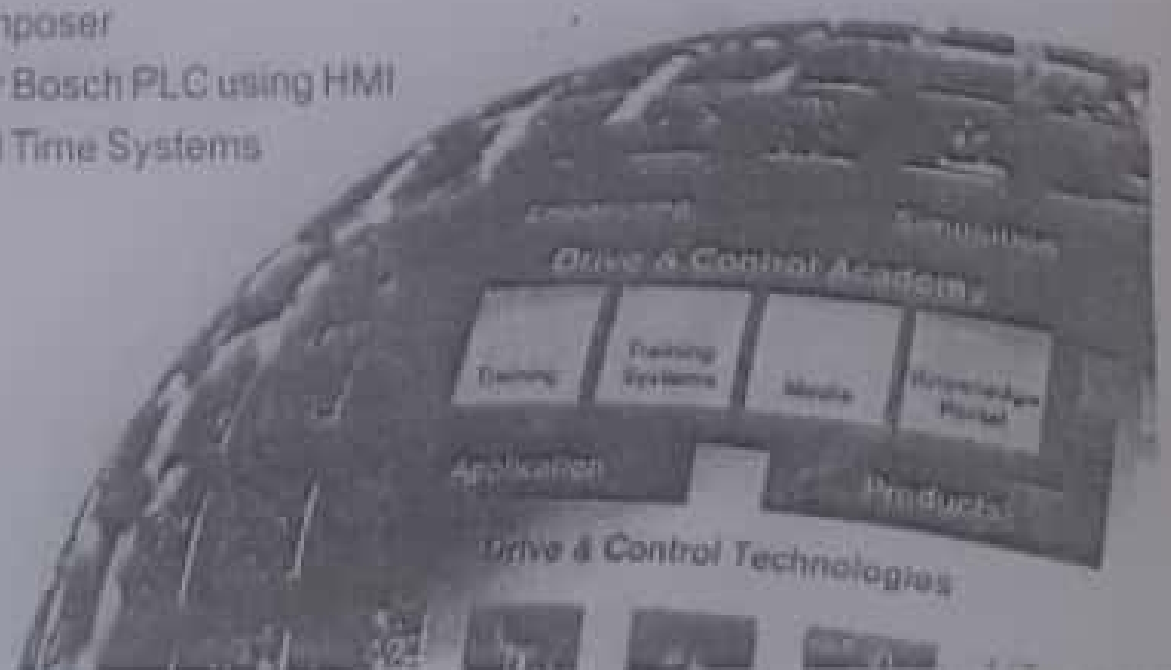# Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. **Robin Jose** of **B.Tech. Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala** has successfully completed a Five days In-plant Training on "Industrial Automation" during the period from 23 to 27 July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial Automation Technologies, MCET Campus, Pollachi – 642003.

Training Area:

- Basic functions of Hydraulic and Pneumatic System Components
- Designing Hydraulic and Pneumatic Circuits for manual operation
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- Programming Using Timers and Counters
- HMI Programming using VI Composer
- Operator panel development for Bosch PLC using HMI
- Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudurai
Centre Coordinator

Dr. A. Rathinavelu
Principal

Drive & Control Academy
Drive & Control Technologies

M-8A/ IPT-IA/2019-09

MCET

rexroth
A Bosch Company

(18)

Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. **Pranav C** of **B.Tech, Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala** has successfully completed a Five days In-plant Training on "Industrial Automation" during the period from 23 to 27July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial Automation Technologies, MCET Campus, Pollachi – 642003

Training Area:

- Basic functions of Hydraulic and Pneumatic System Components
- Designing Hydraulic and Pneumatic Circuits for manual operation
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- Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudurai
Centre Coordinator

Dr. A. Rathinavelu
Principal

Drive & Control Academy

Drive & Control Technologies

M-BR/IPT-IA/2019-05

MCET
COLLEGE OF ENGINEERING AND TECHNOLOGY

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A Bosch Company

Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. .... Sreehari ....of B.Tech. Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala has successfully completed a Five days In-plant Training on "Industrial Automation" during the period from 23 to 27July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial Automation Technologies, MCET Campus, Pollachi – 642003.

Training Area:

➤ Basic functions of Hydraulic and Pneumatic System Components

➤ Designing Hydraulic and Pneumatic Circuits for manual operation
  ❖ Sequential Control and Signal Overlapping Circuits

➤ Electrical Logic Circuits for Electro Hydraulic and Pneumatic Systems

➤ Hardware Structure of PLC
  ❖ CPU Structure,
  ❖ I/O Modules – Digital & Analog
  ❖ Communication Modules

➤ Creating, Loading and Testing PLC Program using Ladder Diagram

➤ Programming Using Timers and Counters

➤ HMI Programming using VI Composer

➤ Operator panel development for Bosch PLC using HMI

➤ Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudurai
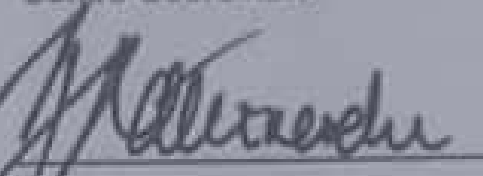Centre Coordinator

Dr. A. Rathinavelu
Principal

Drive & Control Academy
Engineering | Simulation
Training | Training Systems | Media | Knowledge Portal
Application | Products
Drive & Control Technologies

Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. **Sonima Rajeevan** .... of B.Tech. Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala has successfully completed a Five days In-plant Training on "Industrial Automation" during the period from 23 to 27 July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial Automation Technologies, MCET Campus, Pollachi – 642003.

Training Area:

- Basic functions of Hydraulic and Pneumatic System Components
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- Operator panel development for Bosch PLC using HMI
- Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudurai
Centre Coordinator

Dr. A. Rathinavelu
Principal

M-BR/ IPT-IA/2019-11

Dr. MAHALINGAM
MCET
COLLEGE OF ENGINEERING AND TECHNOLOGY

rexroth
A Bosch Company

(21)

Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. **Sarath Chandran** of B.Tech. Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala has successfully completed a Five days In-plant Training on "Industrial Automation" during the period from 23 to 27July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial Automation Technologies, MCET Campus, Pollachi – 642003.

Training Area:

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- Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudurai
Centre Coordinator

Dr. A. Rathinavelu
Principal

Drive & Control Academy

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Training · Training Systems · Media · Knowledge Portal
Application · Products
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MCET
COLLEGE OF ENGINEERING AND TECHNOLOGY
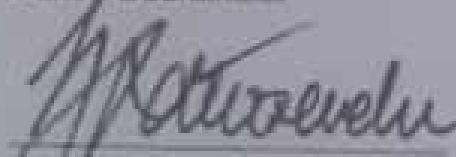
rexroth
A Bosch Company

Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. **Vivek C** of B.Tech. Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala has successfully completed a Five days In-plant Training on "Industrial Automation" during the period from 23 to 27 July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial Automation Technologies, MCET Campus, Pollachi – 642003.

Training Area:

- Basic functions of Hydraulic and Pneumatic System Components
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    - Sequential Control and Signal Overlapping Circuits
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- HMI Programming using VI Composer
- Operator panel development for Bosch PLC using HMI
- Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudurai
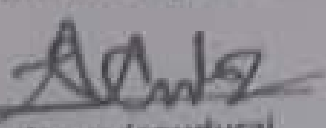Centre Coordinator

Dr. A. Rathinavelu
Principal

Drive & Control Academy

Drive & Control Technologies

M-BR/ IPT-IA/2019-14

Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. **Vishnu M.T** of B.Tech. Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala has successfully completed a Five days In-plant Training on "Industrial Automation" during the period from 23 to 27July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial Automation Technologies, MCET Campus, Pollachi – 642003.

Training Area:

- Basic functions of Hydraulic and Pneumatic System Components
- Designing Hydraulic and Pneumatic Circuits for manual operation
    - Sequential Control and Signal Overlapping Circuits
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- HMI Programming using VI Composer
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- Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudurai
Centre Coordinator

Dr. A. Rathinavelu
Principal

M-BR/ IPT-IA/2019-11

MCET
COLLEGE OF ENGINEERING AND TECHNOLOGY

rexroth
A Bosch Company

(28)

Certificate

In-plant Training on Industrial Automation

This is to certify that Mr. / Mrs. .... **Yadulekh J** .... of
B.Tech. Applied Electronics and Instrumentation Engg., Vimal Jyothi Engineering College, Kerala has

successfully completed a Five days In-plant Training on "Industrial Automation" during the period

from 23 to 27 July 2019 at MCET-Bosch Rexroth Regional Centre of Competence in Industrial

Automation Technologies, MCET Campus, Pollachi – 642003.

Training Area:

- Basic functions of Hydraulic and Pneumatic System Components
- Designing Hydraulic and Pneumatic Circuits for manual operation
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- Interfacing PLC & HMI with Real Time Systems

Mr. S. Anthony Jesudurai
Centre Coordinator

Dr. A. Rathinavelu
Principal

Drive & Control Academy

Engineering Simulation

Training Training Systems Media Knowledge Portal

Application Products

Drive & Control Technologies

rexroth

M-BR/IPT-IA/2019-15

INTERNSHIP CERTIFICATE

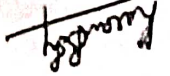This is to certify that

Mr. Amal P V

of

VIMALJYOTHI ENGINEERING COLLEGE

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

Deepak Rajan
Chief Executive Officer,
TECHMACHI LLP

ORGANISED BY
TECHMACHI

Prof. Kiran Boby
Staff Coordinator,
TAKSHAK 21

TAKSHAK'21

METCON
BUILT FAST

TAKSHAK'21

INTERNSHIP CERTIFICATE

This is to certify that

Ms. Fida Hameed

of

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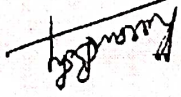
has successfully completed the 5-Day Internship on Basics of Site Engineering organized by Techmachi in association with Metcon and Takshak 21' (National Level Technical Fest of Mar Athanasius College of Engineering, Kothamangalam) from 29th Dec 2021 to 2nd Jan 2022.

ORGANISED BY
Ⓜ TECHMACHI

Deepak Rajan
Chief Executive Officer,
TECHMACHI LLP

Prof. Kiran Boby
Staff Coordinator,
TAKSHAK 21

METCON
TINT BANK

TAKSHAK 21

INTERNSHIP CERTIFICATE

This is to certify that

Mr. Ansaf C P

of

VIMALJYOTHI ENGINEERING COLLEGE

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

ORGANISED BY

™ TECHMACHI

Deepak Rajan
Chief Executive Officer,
TECHMAGHI LLP

Prof. Kiran Boby
Staff Coordinator,
TAKSHAK 21

METCON
TMT BARS

TAKSHAK'21

TO WHOM IT MAY CONCERN

This is to certify that Mr. **YADU A BABU** (Reg. No: **VML21CSD044**), a student of B.Tech (CSD & CSE S4), from VIMAL JYOTHI ENGINEERING COLLEGE, has been successfully completed 10 days internship (from 20/05/2023 to 30/05/2023) programme on " **MOBILE APPLICATION - FLUTTER"** at **SYSBREEZE TECHNOLOGIES**. During the period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.

For,

SYSBREEZE TECHNOLOGIES

Authorized Signatory

VIMAL JYOTHI
ENGINEERING COLLEGE
Affiliated to APJ Abdul Kalam Technological University
Approved by AICTE
Under the Archdiocese of Thalassery

NBA

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

INDUSTRIAL TRAINING IMPACT REPORT

Name of Industry: Techmagi
Type of Industry: Educational institution
Date: From 9 th may 2023   To 13 th may 2023
Semester and academic year:S6 , 2022-23
Duration (no of days): 5 days
Batch: S6 ,EEE

a. Knowledge acquired (knowledge you gained through your training experience and relate this knowledge to what you learned in specific courses at the college)

We learned basics of electrical engineering, basics of Generation, Transmission, Distribution in power system

b. Skills learned: (skills and any career-specific abilities that you gained during your internship like technical skills, problem analysis, etc. Discuss any of the skills that you learned as part of courses at the college)

We learned basic components used in electrical system

c. Impact analysis: Compare the **knowledge and skills** sets that you gained (mentioned as per para a & b above) before and after your internship/visit

Use scale from 1 to 5

Poor = 1 fair = 2, good = 3, very good = 4 and excellent = 5

Sl. No	Knowledge/Skills	Before	After
1	Basics of electrical engineering	3	4
2	Basics of Generation, Transmission, Distribution	3	4
3	Basic components used in electrical system	3	4

d). Connected POs & PSOs Attainment

(Select relevant POs /PSOs and rate the same for the Industrial Training /internships/Industrial visits undergone)

Use scale from 1 to 3

1 –Poor, 2-Medim, 3- High

POs	Rating			POs	Rating			PSOs	Rating		
	3	2	1		3	2	1		3	2	1
PO 1	3			PO 7				PSO 1	3		
PO 2			1	PO 8				PSO 2		2	
PO 3				PO 9							
PO4				PO 10							
PO 5				PO 11							
PO 6				PO 12	3						

| Program Outcomes (POs)

Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Design/ Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and Team Work: Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

| Program Specific Outcomes (PSOs)

Apply the knowledge of electrical fundamentals, circuit design, control engineering, analog & digital electronics to the field of electrical & electronics systems in industry.

Develop technical knowledge, skill, and competence to identify, comprehend and solve problems in research and academic related to power system engineering, industrial drives & control.

| Program Educational Objectives (PEOs)

Graduates will achieve broad and in-depth knowledge of Electrical & Electronics Engineering relating to industrial practices and research to analyze the practical problems and think creatively to generate innovative solutions using appropriate technologies.

Graduates will make valid judgment, synthesize information from a range of sources and communicate them in sound ways appropriate to the discipline.

Graduates will sustain intellectual curiosity and pursue lifelong learning not only in areas that are relevant to Electrical & Electronics Engineering, but also that are important to society.

Graduates will adapt to different roles and demonstrate leaderships in global working environment by respecting diversity, professionalism and ethical practices.

Vision

To evolve as a centre of excellence, to train students in contemporary technologies, to meet the needs of global industry and to develop them into skillful engineers instilled with human values and professional ethics.

Mission

To produce competent and disciplined Electrical & Electronics Engineers through delivery of quality education to meet the ongoing global challenges in alignment with technical education system and society

Tutor's Signature

TECHMAGI
KOCHI EDUCATIONAL INSTITUTIONS

Internship Training Report 2023
(Duration: 09/05/2023 – 13/05/2023)

TOPIC: ELECTRICAL SYSTEM DESIGN
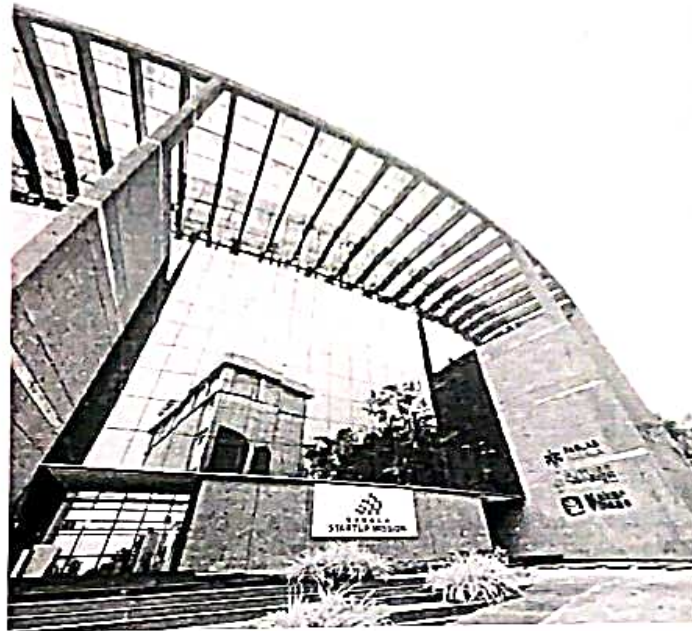
Institution	Pursuing degree with Discipline and Academic year
VimalJyothi Engineering College, Chemperi	BTech Electrical and electronics Engineering , 2020-2024

ACKNOWLEDGEMENT

All glory and honors of God, the Almighty without his grace our project wouldn't have seen the light of success. Motivation is the driving source behind every successful venture. With regard to the completion of this project, we wish to acknowledge the following people who are the source of motivation behind it.

We have great pleasure in expressing our deep sense of gratitude and indebtedness to our course co-ordinators Mr.Rojith K, Ms. Shelma George Assistant professor, department of electrical and electronics engineering,Vimal Jyothi Engineering College Chemperi, Kannur for their valuable guidance through every stage of our work and timely advice.

We express our sincere thanks to Mrs. Laly James. Head of the Department, Dr. Benny Joseph, Principal, tutors and all other staff of Department of Electrical and Electronics engineering, Vimal Jyothi Engineering College, Chemperi, for their valuable suggestion and co-operation. Last but not least we would like to thank our parents and friends whose encouragement and advice helped us a lot during the period of this work.

Project Team

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1) <u>INTRODUCTION</u>

Techmagi is an Ed-Tech startup which focuses mainly on helping people upgrade their skills with the help of technology and expertise by combining the magic of both online and offline learning. They have trained more than 25000 students in the past 8 months and were able to associate with many reputed institutes across the country, including many IITS and NITS.During internship program, We attended theoretical classes from Kerela start up mission kalamassery about the places we visit in the first two days and then we had the opportunity to gain practical experience in the field of electrical engineering. The internship visited different locations to understand the functioning of electric panel rooms, panel board manufacturing units, and a high-voltage substation . This report summarizes my observations and learning experiences during the internship.

Day 1

The first day of our five day internship. Was a normal three hour class held at the institution of Techmagi. The class was handled by the retired director of KSEBL Mr. Rajan Joseph. The session was very useful as it dealt with the basics of electrical engineering and systems. Electrical system Design engineering skills and knowledge are also critical in a wide range of industries ranging from power industries, oil and gas, water utilities, process plants, mining, pharmaceuticals, manufacturing and defense. successful candidates for electrical engineering positions have earned electrical Design engineer certificates in the field. Hands-on experience is also valuable, so programs that provide practical familiarity with the tools and methods of the profession can give graduates an edge when it comes time to hit the career market.

Electrical engineering is a technical discipline concerned with the study, design, and application of electricity! Through electrical engineering, we can design devices and systems using electrical components such as resistors, capacitors, transistors, etc. The session covered almost all the basics of electrical engineering such as electricity, voltage, resistance, inductors, capacitors, electromagnetism etc. And also explained the basics of the power system which includes generation, transmission & distribution. Overall the class was very helpful for the further onsite visits.

Day 2

The Second day had two sessions.And the sessions held at the institution of Techmaghi .First session was handled by Thomas Jacob the retired chief Engineer of KSEB.It was a theory session about power system.The session covered all important topics of power system such as power generation concepts ,circuits breakers,CT and PT,power system protection etc.An electric power system is a network of electrical components deployed to supply, transfer, and use electric power. An example of a power system is the electrical grid that provides power to homes and industries within an extended area.The session was very helpful for our current semester.

Next session was handled by Eldho Thomas, the Class A contractor of Leela Electric Power service (p)Ltd.He is an electrical engineer with 23 years of experience in electrical system design, planing, erection, testing, and commissioning and HT and LT installations and 21 years of experience in design and manufacturing of switchgear panels of up to 4000 he is current training at own factory at pampa kuda, ernakulam. The class was about Design Planning,Implementation of Electrical Installation such as Factories,Crusher Units, Hospitals, Engg Colleges, Shopping Malls, High Rise Buildings . It was a very useful session.At the end of the class he shared his life experience. It was a very interesting session.

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Grand Mall Moovatupuzha – Electric Panel Room of Mall

(11th May 2023):

On the third day of our internship, We visited the electric panel room of Grand Mall Moovatupuzha. The purpose of this visit was to understand the electrical infrastructure and panel room operations in a commercial establishment. We had the chance to interact with the maintenance team and gain insights into their daily tasks, such as monitoring electrical equipment, troubleshooting electrical issues, and ensuring proper power distribution within the mall. We also learned about safety protocols and the importance of regular maintenance to prevent electrical failures.

Company Background:

Grand Mall Moovatupuzha is a prominent shopping mall located in Moovatupuzha, India. It is known for its wide range of retail stores, entertainment facilities, and a diverse selection of food and beverage options. The mall attracts a large number of visitors on a daily basis, making it a bustling hub of activity.

Internship Objective:

The main objective of my internship was to gain practical experience and knowledge in managing the electric panel room of the mall. This involved understanding the electrical systems, conducting inspections, and assisting in maintenance and troubleshooting tasks.

Tasks and Responsibilities:

During my internship, We was assigned various tasks and responsibilities within the electric panel room. These included:

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A. Assisting in routine inspections of the electric panel room and its components.

b. Learning about the electrical systems installed in the mall and their functions.

c. Collaborating with the maintenance team to perform routine maintenance tasks.

d. Assisting in troubleshooting electrical issues and identifying potential hazards.

e. Gaining hands-on experience in handling electrical equipment and tools.

f. Following safety protocols and ensuring compliance with electrical codes and standards.

Skills and Knowledge Acquired:

Throughout our internship, We developed several skills and acquired valuable knowledge related to electrical systems and panel room management. These include:

a. Understanding the basics of electrical systems and their components.

b. Knowledge of safety procedures and protocols for working with electricity.

c. Familiarity with troubleshooting techniques for identifying electrical issues.

D. Practical experience in using electrical tools and equipment.

e. Improved communication and teamwork skills by collaborating with the maintenance team.

f. Time management and organizational skills by prioritizing tasks and meeting deadlines.
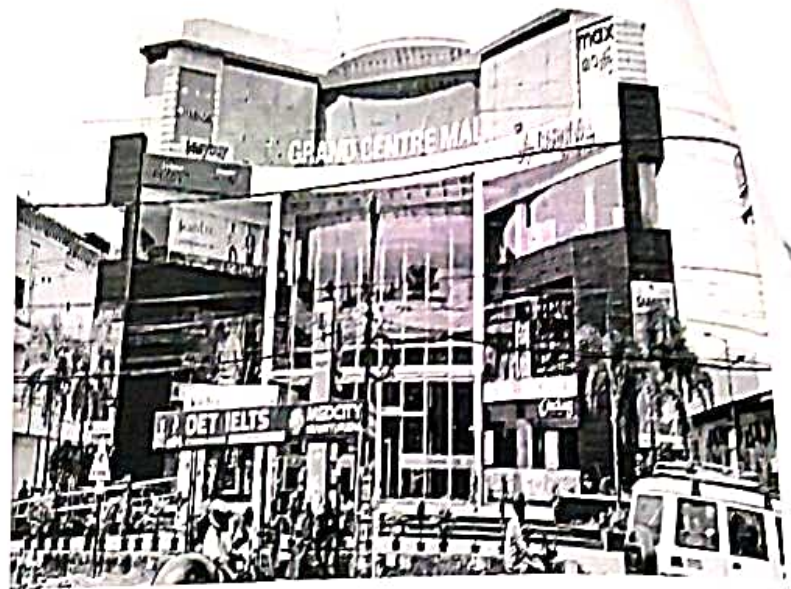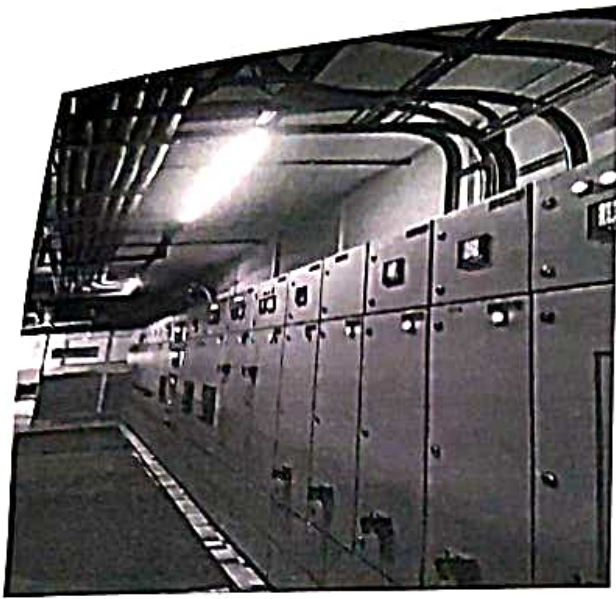
Leela Electric Pampakuda – Panel Board Manufacturing Unit

(12th May 2023):

The Fourth day of our internship was spent at Leela Electric, a panel board manufacturing unit in Pampakuda. This visit aimed to provide us with an understanding of the manufacturing process and quality control measures in the production of panel boards. We observed the various stages involved in the production, including cutting, drilling, wiring, and assembly. We also learned about the different types of panel boards manufactured and their applications in electrical systems. The visit gave us valuable insights into the importance of precision, adherence to standards, and attention to detail in the manufacturing process. The purpose of this internship report is to provide a comprehensive overview of my experience during the training program at Leela Electric Pampakuda. The training program focused on gaining practical knowledge and understanding of the panel board manufacturing process.

Company Background:

Leela Electric is a renowned panel board manufacturing unit located in Pampakuda. The company specializes in the production of high-quality panel boards that are used in various electrical applications. With a strong reputation for delivering reliable and efficient electrical

solutions, Leela Electric serves a wide range of industries and customers.

Objectives:

The training program aimed to provide insights into the panel board manufacturing process and the overall operations of Leela Electric Pampakuda. The specific objectives of the program were as follows:

A. Understanding the manufacturing stages of panel boards.

b. Observing quality control measures and adherence to industry standards.

c. Gaining practical knowledge about the types and applications of panel boards.

d. Interacting with industry professionals and learning from their expertise.

Training Program Observations and Activities:

Introduction to Panel Board Manufacturing:

The training program began with an introductory session on panel board manufacturing. The company's representatives provided an overview of the manufacturing process, including design, material selection, and production techniques. They explained the importance of precision, quality control, and adherence to safety standards in manufacturing panel boards.

Factory Tour:

I had the opportunity to visit the production facility and observe the various stages involved in panel board manufacturing. The tour covered areas such as cutting, drilling, wiring, and assembly. We observed skilled workers operating advanced machinery and witnessed the meticulous attention to detail required at each production stage. The representatives explained the significance of quality checks and the implementation of standardized procedures.

Quality Control Measures:

During the training program, We learned about the rigorous quality control measures employed by Leela Electric. The representatives highlighted the importance of testing the functionality, safety, and reliability of the panel boards before they are dispatched to customers. We observed the testing procedures and the use of specialized equipment to ensure the highest quality standards.

Types and Applications of Panel Boards:

The representatives provided detailed information about the different types of panel boards manufactured by Leela Electric and their respective applications. They explained how panel boards are customized based on specific requirements, such as power distribution, motor control, and automation systems. I gained insights into the diverse applications of panel boards across industries and their role in electrical installations.

Interaction with Industry Professionals

Throughout the training program, We had the opportunity to interact with experienced professionals at Leela Electric. They shared their knowledge, answered our questions, and provided valuable insights into the panel board manufacturing industry. Their expertise and guidance contributed significantly to our learning experience.

Key Learnings:

Manufacturing Process and Quality Control: We acquired in-depth knowledge of the panel board manufacturing process, including the importance of precision, adherence to standards, and rigorous quality control measures. We understood how these factors directly influence the reliability and efficiency of electrical systems.

Types and Applications of Panel Boards: We gained an understanding of the different types of panel boards and their diverse applications. This knowledge will be beneficial when designing and selecting appropriate panel boards for various electrical projects.

Attention to Detail and Safety: The training program emphasized the significance of attention to detail and safety measures in panel board manufacturing. We learned how even minor deviations or oversights can impact the functionality and safety of electrical systems.

KSEB 220kV Substation Kalamassery

(13th May 2023):

On the final day of our internship, We visited the KSEB 220kV Substation in Kalamassery. This visit was focused on understanding the functioning of a high-voltage substation and the role it plays in power distribution. We had the opportunity to observe the various components of the substation, such as transformers, circuit breakers, isolators, and control systems. The visit also included a discussion on the safety measures and protocols followed at the substation to ensure efficient and reliable power supply to the region.

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Objectives:

The objectives of the internship were as follows:

To understand the functioning and operations of a 220kV substation.

To gain practical knowledge of electrical equipment used in the substation.

To learn about the maintenance and troubleshooting procedures of electrical systems.

To observe the safety protocols followed in a substation environment.

Overview of KSEB 220kV Substation Kalamassery:

The KSEB 220kV Substation in Kalamassery is a critical facility that plays a significant role in the power distribution network of the region. It receives electricity from the higher voltage transmission lines and steps it down to lower voltage levels for distribution to various areas. The substation consists of various components such as transformers, circuit breakers, switchgear, control systems, and protection devices.

Tasks and Responsibilities:

During our internship, We were involved in the following tasks and responsibilities:

Assisting the engineers in routine inspections and maintenance activities of the substation.

Observing and learning the procedures for testing and calibration of protective relays.

Participating in the troubleshooting and repair of electrical equipment.

Analyzing and documenting the electrical parameters of the substation using specialized software.

Familiarizing myself with the safety protocols and emergency procedures followed in the

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substation.

Knowledge and Skills Acquired:

Through my internship at the KSEB 220kV Substation Kalamassery, I acquired the following knowledge and skills:

Understanding of substation layout, equipment, and their functions.

Knowledge of protective relays and their applications.

Familiarity with electrical testing and calibration procedures.

Troubleshooting skills for electrical equipment.

Adherence to safety protocols in a substation environment.

Experience in working effectively within a team.

Observations and Learning:

### Practical Application of Electrical Engineering:

The internship provided me with practical exposure to real-world electrical engineering applications. We witnessed the practical implementation of electrical systems, and understood the importance of safety measures in electrical installations.

Importance of Maintenance and Quality Control:

During the visits, We realized the significance of regular maintenance and quality control in electrical systems. The proper functioning of electrical equipment and adherence to manufacturing standards play a crucial role in ensuring safety, reliability, and efficiency.

Collaboration and Teamwork:

Interacting with professionals and observing their teamwork in different environments enhanced my understanding of the importance of collaboration in the field of electrical engineering. We witnessed how effective communication and coordination among team members contributed to successful operations and problem-solving.
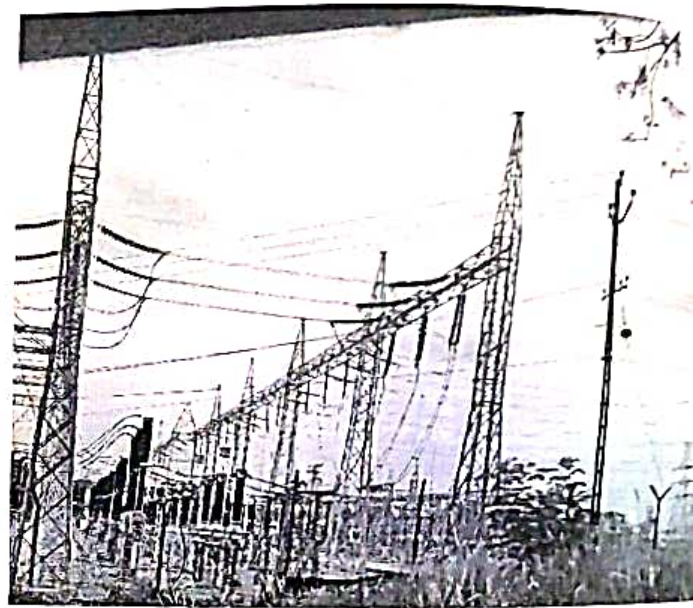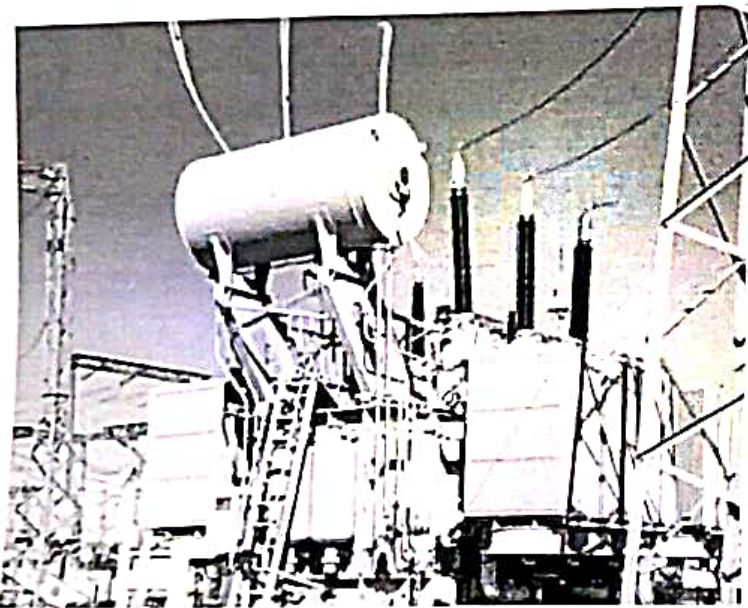
2) <u>CONCLUSION</u>

The internship program by Techmaghi conducted at Kerala start up mission included theoretical classes at kerela start up mission kalamassery for the first two days and their practical applications on the other three days. The internship experience at Grand Mall Moovatupuzha, Leela Electric Pampakuda, and KSEB 220kV Substation Kalamassery provided me with practical insights into the field of electrical engineering. The visits allowed me to observe and learn about the operations, maintenance, manufacturing, and safety practices associated with electric panel rooms, panel board manufacturing units, and high-voltage substations. This internship has enriched my knowledge and will undoubtedly be valuable as we pursue a career in electrical engineering. We are grateful to the professionals who guided me during this internship, as their expertise and experiences have contributed significantly to my learning.

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CERTIFICATE

THIS IS TO CERTIFY THAT

AISWARYA C

OF

VIMALJYOTHI ENGINEERING COLLEGE

Has successfully completed the 5- Day Internship/Industrial Training program in Electrical System Design from 9th May 2023 to 13th May 2023.

During this period she got theoretical training as well as practical exposure, including visits to the following three sites to gain hands-on experience.

1. Leela Electric Pampakuda (Panel Board Manufacturing Unit)
2. Grand Mall Muvattupuzha (Electrical Panel Room of the Mall)
3. KSEBL 220 KV Substation, Kalamassery

Deepak Rajan
Founder & CEO
Techmaghi

30-05-2023

Date

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OF

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OF

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OF

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