

**AN ORGANISATIONAL STUDY AT UNITED ELECTRICAL
INDUSTRIES LIMITED, KOLLAM**

INTERNSHIP REPORT

*Submitted to the University of Kerala in partial fulfillment of the requirement for
the Award of the Degree of*

**FYUGP COMMERCE- BUSINESS INFORMATION
SYSTEMS**

Course Code: UK4INTCOM200

Submitted by

Sneha R S Nair

:

227454260355

**Under the Supervision of
Mr. Anasmon S**



**DEPARTMENT OF COMMERCE
DON BOSCO COLLEGE, KOTTIYAM**



2024 - 2028



DON BOSCO COLLEGE, KOTTIYAM

(Affiliated to the University of Kerala)

CERTIFICATE

This is to certify that **Ms. SNEHA R S NAIR**, student of **FYUGP Commerce – Business Information Systems, Semester IV**, Don Bosco College, Kottiyam, has successfully completed an **Internship Programme** at **United Electricals Industries Limited, Kollam**, during the **Summer Vacation**, from **10 April 2026 to 27 April 2026**.

During the internship period, the student gained practical exposure to the functioning of the organisation and had the opportunity to apply and enhance the knowledge and skills acquired through the academic programme.

The student has successfully completed the internship as part of the academic requirements of the **FYUGP Commerce – Business Information Systems Programme**.

Date :

Place :

Mr. Anasmon S

Internship Supervisor/Mentor

Assistant Professor

Mr. Anasmon S

Head of the Department

Seal

UNITED ELECTRICAL INDUSTRIES LTD.

(A Kerala Government Company)
CIN No. U31200KL-1960SGC 001281
GSTIN 32 AAACU2833N1ZB



Regd. Office : Pallimukku, Kollam-691010, Kerala
Phone : 0474-2729241, 2729242, 2729473
2724019, 2726562
Email : ueikollam@gmail.com
Website : www.unilec.co.in

PO/ 0142 /2026-27
27th April 2026

CERTIFICATE

*This is to be certify that Ms. Sneha R S Nair
(Apaar No. 227454260355) Fourth Semester B.Com
student of Don Bosco College Kottiyam has
successfully completed the "Internship" in our
Company for a period from 10/04/2026 to
27/04/2026.*

For UNITED ELECTRICAL INDUSTRIES LTD;

SENIOR PERSONNEL OFFICER



DECLARATION

I **Sneha R S Nair**, hereby declare that the internship report entitled “**AN ORGANISATIONAL STUDY AT UNITED ELECTRICAL INDUSTRIES LIMITED, KOLLAM**” is a bonafide record of the work carried out by me during the period from 10th April to 25th April as part of my **FYUGP Commerce – Business Information Systems Programme** at Don Bosco College, Kollam.

I further declare that this report has not been submitted previously, in whole or in part, for the award of any degree, diploma, or any other academic qualification in any institution.

Date :

SNEHA R S NAIR

Place :

APAAR ID 227454260355

ACKNOWLEDGEMENT

I express my sincere gratitude to United Electricals Industries Ltd., Kollam for providing me with the opportunity to undertake this internship and gain practical exposure.

I wish to express my heartfelt thanks to **Mr. Mohamed M (IPO Supervisor)** for the esteemed guidance and advices during internship program.

I am thankful to the management and staff of the organization for their guidance and support throughout the internship period.

I also extend my sincere thanks to the Head of the Department, **Mr. Anasmon S**, Department of Commerce, Don Bosco college, Kottiyam, for his guidance and encouragement in completing this report.

Finally, I thank my institution for providing me with this opportunity as part of my academic curriculum.

SNEHA R S NAIR

CONTENTS

SL NO	Particulars	Page no
1	Introduction	1
	Objective of internship	2
2	Industry profile	3 - 4
3	Company profile	5 - 6
4	Strategic intent	7
5	Product profile	8 - 14
7	Limitation of internship	16
8	Conclusion	17
9	Bibliography	18
	Work Diary	

INTRODUCTION

The primary objective of an industrial internship is to acquire practical exposure and develop a comprehensive understanding of the functioning of various departments within an organization. It serves as a vital platform for bridging the gap between theoretical knowledge and real-world industrial practices. In this context, the present study has been undertaken in an organization operating under the Government of Kerala.

United Electricals Industries Limited (UEIL), popularly known as the Meter Company, is an ISO 9001:2000 certified State Level Public Enterprise engaged in the electrical engineering sector since 1950. The company holds a significant position in the industry as the first manufacturer of electrical house service meters in India, reflecting its longstanding contribution to the nation's industrial development.

In the contemporary era marked by globalization and privatization, it becomes essential to analyze how government-controlled enterprises function and sustain competitiveness alongside private sector counterparts. This internship provided valuable insights into the organizational structure, interdepartmental coordination, and operational efficiency of the company. The smooth functioning of the organization is ensured through effective cooperation among departments and the systematic management of resources, facilitating the consistent production and supply of finished goods.

Furthermore, the company has maintained commendable industrial relations, which contribute to its stability and productivity. With the Government of Kerala as its major shareholder, UEIL continues to play a crucial role in the public sector while adapting to the evolving industrial environment.

OBJECTIVES OF THE STUDY

- ❖ To have a general awareness of the functioning and management of the company
- ❖ A better understanding of the organizations goals and objectives.
- ❖ To study the duties and responsibilities of the employees of the organization

SCOPE OF THE STUDY

- ❖ The scope of the study is limited to United Electricals Industries Ltd, Kollam.

INDUSTRY PROFILE

The electrical equipment industry is a vital component of economic development, as it supports the generation, transmission, and distribution of electricity. Reliable power supply is essential for industrial growth, infrastructure development, and improved living standards, making this industry a key driver of national progress.

In India, the electrical equipment industry has experienced steady growth due to rapid urbanization, industrial expansion, and increasing demand for electricity. Government initiatives such as rural electrification, smart grid development, and the promotion of renewable energy have further strengthened the sector. The growing focus on energy efficiency and digitalization has also contributed to the modernization of electrical systems.

The industry can be broadly classified into three main segments:

- ❖ Generation Equipment – used in power plants for producing electricity
- ❖ Transmission Equipment – used for transferring electricity over long distances
- ❖ Distribution Equipment – used for delivering electricity to end users

In addition to these, the industry includes products such as energy meters, transformers, switchgear, motors, capacitors, and consumer electrical appliances. Among these, electricity meters play a crucial role in monitoring and billing energy consumption.

In recent years, there has been a significant shift from conventional electromechanical meters to advanced electronic and smart meters. These modern systems enable accurate measurement, remote monitoring, automated billing, and better demand management. Features such as real-time data collection and communication capabilities have improved efficiency and transparency in power distribution.

The electricity metering industry in India and South Asia is highly competitive, with the presence of both public sector enterprises and private manufacturers. While low-cost imports

create pricing pressure, there is increasing demand for high-quality and technologically advanced products. Companies that focus on innovation, reliability, and compliance with standards are better positioned to gain market share.

Despite strong growth prospects, the industry faces challenges such as rising raw material costs, technological advancements, and the need for continuous upgradation. However, the future remains promising due to increasing investments in infrastructure, digital transformation, and the expansion of smart energy systems.

Overall, the electrical equipment and metering industry continues to evolve with advancements in technology, playing a crucial role in ensuring efficient and sustainable energy management.

COMPANY PROFILE

United Electrical Industries Limited or **UNILEC** or **UEIL** (locally known as **Meter Company**) is an ISO 9001:2015 certified State Level Public Enterprise, operating in the electrical engineering sector since 1950. The company was founded on 3 October 1950 and is situated in the city of Kollam, Kerala.

United Electrical Industries Limited was the first factory in India to manufacture Electricity House Service Meters. UNILEC started its manufacturing activity during 1950, in technical collaboration with the world-renowned measuring instrument manufacturer Aron Meters Ltd., England. After 7 years, major shares of the company were taken over by the Government of Kerala and reconstituted it as a Public Limited Company under the ownership of Kerala State in 1957. Government of Kerala is holding 97.20% of the total share value of United Electrical Industries Limited.

It is the first factory in India to manufacture Electricity House Service Meters. The products of UNILEC Limited are BIS approved with ISI marking. They are producing type tested Energy Meters which are approved in various Test Labs like ERDA - Baroda, ERTL North - Delhi, CPRI - Bangalore, and ETDC - Chennai.

The company has a high level of productivity with a monthly production capacity of more than 1 lakh Energy Meters. UNILEC Limited has so far supplied over 40 lakh Electro-mechanical Meters and 50 lakh of Electronic Meters for domestic and industrial purpose. UNILEC is the only Electrical Equipment Manufacturing company in Kerala capable of producing Energy Meters of any specification on bulk basis maintaining quality standards of BIS, IEC etc.

The Company also has a R&D Division. now received Govt order for supply and installation of LED lights in all LSGDs of state. In 2019, UNILEC developed Vehicle Location and Tracking device(VLTD) which is an empanelled product of Kerala Motor Vehicle department.

The company is on the stage of modernization. As part of that, UNILEC has started producing double-jet water meters. They have started the production of LCD energy meters in 2014. On the basis of this development, the company is now preparing to take part in KSEB's tender process for supply of energy meters. Government of Kerala has proposed a plan to manufacture LED lights in association with United Electrical Industries Limited. They have a plan to start a smart card manufacturing unit in the company.

In 2018, Government of Kerala has decided to equip UNILEC to become the first Kerala public sector company going to have smart meter technology. Three new wings would be setting up at UNILEC as part of modernization; LED street light production unit, renovated water meter manufacturing unit, and a research and development department.

→ Major products of the company are Electric Meters and Solar Panels

- ❖ 11 kV Air Break Switches.
- ❖ Minimast/ Highmast Lights
- ❖ LED street Lights
- ❖ Solar Street Lights
- ❖ Static Energy Meters
- ❖ Smart Energy Meters
- ❖ Multijet Watermeters
- ❖ Mechanical Type Motor Starters- Auto Transformer Starters, Normal Star Delta Starters, Oil Sling Ring Starters
- ❖ DOL starters
- ❖ Soft Starters
- ❖ Vehicle Location and Tracking Device(VLTD)
- ❖ Polymer Insulators (HT/LT)-Post, Pin, Disc

STRATEGIC INTENT

OUR MISSION

To benefit society at large through innovation, quality, productivity, human development and growth, and to generate surpluses, always striving for excellence, within the framework of law, and with pride in ethical values.

OUR VISION

Our aim is to make Indians proud by providing highly innovative products, which are better than the competition which simplifies our lives and provides an unmatched customer experience.

Quality Certifications

- ISO 9001:2015 for quality management systems.
- ISO 14001:2015 for environmental management.
- ISI Marked Products: Ensuring the highest standards of quality

PRODUCT PROFILE

The main product under United electrical industries Ltd includes:

➤ AIR BREAK SWITCHES

11kV, 3-Phase, 400A, 50Hz Gang-Operated Outdoor Air Break Switches

11kV Gang-Operated Air Break (AB) Switches are designed for reliable and efficient outdoor switching operations. Built with the highest quality materials and advanced engineering, these switches provide excellent performance, durability, and safety in harsh environmental conditions.

Key features:

- ★ High-Quality Materials
- ★ High-Grade Hardware
- ★ Reliable Contact Mechanism
- ★ Robust Operating Mechanism
- ★ Advanced Insulation
- ★ Triple-Pole Construction
- ★ Durable and Corrosion-Resistant Design
- ★ Ease of Installation

➤ **AUTO TRANSFORMER STARTERS**

Autotransformer Starters (15 HP to 200 HP)

Autotransformer Starters are built to provide robust control for A.C. Squirrel Cage Induction Motors up to 200 HP, offering reduced starting currents and enhanced starting torque. These starters are ideal for heavy-duty applications requiring reliable and efficient motor startup.

Key features:

- ❖ Sheet Metal Enclosure
- ❖ High-Quality Contact Tips
- ❖ Undervoltage Protection/No Volt Coil Protection
- ❖ Oil Dashpot Type Overload Relays
- ❖ Floor-Mounting Design
- ❖ Adjustable Voltage Tapping

➤ **STAR DELTA STARTERS(NSD)**

Oil-Immersed Star Delta Starters (Type NSD)

Oil-Immersed Star Delta Starters are specially designed to provide reliable and efficient control for motors ranging from 10 HP to 200 HP. These starters ensure smooth motor starting and seamless transition from Star to Delta position, minimizing mechanical and electrical stress during operation.

Key features:

- ❖ Wide Range of Motor Control: Supports capacities from 10 HP to 200 HP.
- ❖ Manual Tripping Mechanism: Easy-to-use lever for manual tripping on the side of the starter.

- ❖ Correct Sequence Device: Ensures proper operation sequence by starting in the Star position and transitioning to Delta for running.
- ❖ Adjustable Time Lag Device
- ❖ Undervoltage Protection
- ❖ Sheet Metal Enclosure
- ❖ High-Quality Contact Tips
- ❖ Oil Dashpot Overload Relays

➤ **Oil-Immersed Slip Ring Motor Starter (Type 1 OSR)**

Oil-Immersed Slip Ring Motor Starters (Type 1 OSR) are designed for Slip Ring Motors ranging from 10 HP to 150 HP, offering superior control, protection, and reliability for industrial applications. Engineered for precision, these starters ensure smooth motor operation with enhanced safety features to prevent damage during startup and operation.

Key features:

- ❖ Oil Dashpot Relays
- ❖ Adjustable Magnetic Overloads
- ❖ Oil Break Contacts
- ❖ High-Quality Contacts
- ❖ Stator Circuit Protection

➤ **LED STREETLIGHTS**

Energy efficient LED streetlights for Public places illumination are produced in United Electrical Industries. This includes High mast, Mini mast, and Low mast streetlight installation.

➤ **Water Meter**

The United Electrical Industries Multijet Class B Water Meter is a high-precision domestic water meter designed to provide accurate and reliable measurement of water flow. Engineered with magnetic drive technology and featuring a dry dial mechanism, it ensures consistent performance and long-term durability.

Key Features:

- **Class B Water Meter:** Ensures high accuracy, meeting international standards for reliable water measurement.
- **Magnetic Drive Dry Dial:** Reduces wear and tear, provides smooth operation, and ensures enhanced longevity.
- **Brass Body Construction:** Robust, corrosion-resistant brass body for extended durability in varied environments.
- **Analog Display:** Easy-to-read display for quick and precise water flow readings.

Product Highlights:

- **Type:** Multijet, Domestic, magnetic drive, dry type
- **Class:** Class B, ensuring high measurement accuracy even at low flow rates.
- **Compliance:** Conforms to IS 779: 1994 standards, ensuring quality and performance.
- **Material:** Durable brass base body, providing excellent resistance to corrosion and long service life.

➤ **POLYMER INSULATOR**

11kV Polymer Post Insulators

UEIL specialize in manufacturing high-quality Polymer Insulators, designed to meet the needs of modern electrical systems. Also known as Composite Polymer Insulators or Silicone Rubber Insulators, our products are engineered for 11 kV overhead distribution and transmission lines, transformers, and industrial electrical systems.

Key features

★ Raw Materials:

FRP Rods: For superior tensile strength and mechanical flexibility.

Silicone Rubber: Ensures high resistance to UV radiation, pollution, and moisture while maintaining excellent insulation properties.

Cast Iron End Fittings: Provides strong and secure connections for structural stability.

★ Design Specifications

Voltage Rating: 11 kV (Suitable for systems up to 33 kV).

Tensile Strength: 5 kN.

Creepage Distance: 320 mm.

Number of Sheds: 3.

Spacing: 320 mm.

Material Color: Grey.

➤ **Pin Insulators**

111kV Composite Polymer Pin Insulator

UEIL's 11kV Composite Polymer Pin Insulator is designed for high-performance power distribution with superior electrical insulation, mechanical strength, and weather resistance. It offers a lightweight, durable, and maintenance-free alternative to traditional porcelain insulators, ensuring reliable operation in harsh environments.

Key features

- High Dielectric Strength – Ensures excellent insulation and stable power transmission.
- Lightweight & Easy to Install – Reduces handling and installation effort compared to porcelain.
- Superior Weather & Pollution Resistance – Performs efficiently in extreme climates and high-pollution areas.
- Hydrophobic & Anti-Tracking Surface – Minimizes moisture absorption and prevents electrical leakage.
- High Mechanical Strength – Withstands mechanical loads, wind pressure, and vibrations.

FINDINGS AND SUGGESTIONS

FINDINGS

- ❖ Good reputation of the company.
- ❖ Well-disciplined staff and employee.
- ❖ Hardworking skilled labour force
- ❖ Company plans their personnel needs very effectively and recruits the correct number of people. This ensures maximum utilization of resource.
- ❖ Good and harmonious industrial relationship is maintained Hence employee are motivated to work for the company

SUGGESTIONS

- ❖ Employee turnover should be minimized as it will hamper company in long run.
- ❖ Effective performance appraisal system should be maintained in the company.
- ❖ Research and Development should be given more assistance with
- ❖ Experience hands in the company.
- ❖ Appoint marketing executives at least for rural areas.
- ❖ Advertisement and promotional activities should be improved.

CONCLUSION

The industrial internship at United Electricals Industries Limited (UEIL) proved to be a highly valuable and enriching experience, offering significant practical exposure to real-world industrial operations. It provided an opportunity to bridge the gap between theoretical knowledge and its practical application within a professional environment.

During the course of the internship, a comprehensive understanding of the organizational structure, production processes, and interdepartmental coordination was developed. The study of various departments, including production, maintenance, quality control, and administration, highlighted the importance of teamwork, efficient resource management, and systematic planning in achieving organizational objectives

.

The internship also offered insights into the functioning of a government-owned enterprise and its ability to adapt and compete in a rapidly evolving industrial landscape. The exposure to modern industrial practices, safety measures, and quality standards enhanced both technical knowledge and professional skills.

Overall, the internship contributed to the development of problem-solving abilities, communication skills, and a sense of professional responsibility. It has laid a strong foundation for future career growth and provided a clearer perspective on the practical aspects of engineering and industrial management.

Bibliography

Reference

- ❖ Annual report , United electrical industries Ltd
- ❖ Company journal
- ❖ Department files

Website

- ❖ <http://unilec.co.in/>
- ❖ https://en.wikipedia.org/wiki/United_Electrical_Industries_Limited

WORK DIARY

Day	Activity	Process observed and documents handled	Learning (to be stated in terms of experiences and competencies)
Day 1	Visited UEI.Ltd	Observed their employees and equipment	Got an idea about the company.
Day 2 & 3	Visited the production department	Manufacturing for products like AB switches, Motor Starters, VTS(vehicle tracking system) etc.	Got an overview about how these products are manufactured.
Day 4& 5	Visited the purchase department	Collected the information about purchase department and studied the company profile.	Get familiarized with the company profile and identified various activities of production department.
Day 6 & 7	Visited the marketing department	Familiarization of the process of marketing.	Got an idea about how the marketing is carried out.
Day 8 & 9	Visited the Accounts department	Referred the annual report of accounts.	Got an overview about the final accounts statement.

Day 10 & 11	Visited the Sales department	Analyzed the process of products are manufactured.	Got a brief idea about the quantity and quantity of goods.
Day 12	Submitted the report of internship.	Received the certificate.	Completed the internship

Signature of the student :

Date :

Signature of the faculty :

Date :

Head of the Department :

Date :

Seal