

Erasmus+ Internship Program – Electric Field

****Target:**** Erasmus+ Internship Student

****Duration:**** 3 Weeks – 15 Working Days

****Level:**** Intermediate

****Daily Hours:**** 6 hours (including 30 minutes of Turkish)

****Method:**** Guided Internet Research + Hands-on Practice + Daily Reflection

Daily Schedule Template

- 09:00 – 09:30: Turkish Language Practice / Mini-Lesson
- 09:30 – 12:00: Self-Study on Assigned Topic (Research, Videos, Articles, Tutorials)
- 12:00 – 12:30: Lunch Break
- 12:30 – 14:00: Practical Application (if available) or Virtual Simulation
- 14:00 – 15:00: Daily Summary & Presentation to Supervisor / Learning Journal

WEEK 1: Fundamentals of Electricity and Safety

Day	Topic	Online Research Focus
Day 1	Electricity Basics	What is voltage, current, resistance? Ohm's Law – Watch Khan Academy / All About Circuits
Day 2	Electrical Symbols & Tools	Common tools (multimeter, screwdriver, tester), safety signs – PDF guides, YouTube tool reviews
Day 3	Electrical Safety	Safety rules, PPE, circuit breakers, insulation – Read OSHA/European safety standards
Day 4	Basic Circuit Diagrams	Drawing simple circuits

		(bulb, switch, battery) – Try online tools like Tinkercad or CircuitLab
Day 5	Cable Types & Connections	Learn types of wires, connectors, and stripping methods – Read manufacturer catalogs & videos

WEEK 2: Residential Electrical Systems

Day	Topic	Online Research Focus
Day 6	Lighting Circuits	One-way, two-way switches – Watch wiring tutorials and create diagrams
Day 7	Sockets and Plugs	Installation, grounding, voltage standards in Europe & Turkey
Day 8	Electrical Panels	MCBs, RCDs, fuses – Panel structure and functions via video walkthroughs
Day 9	Power Consumption	How to read energy meters, calculate kWh – Use online calculators
Day 10	Basic Fault Detection	Common problems in home systems – how to test and solve basic issues (e.g. no light, fuse blown)

WEEK 3: Smart Systems, Renewable Energy & Project Work

Day	Topic	Online Research Focus
Day 11	Smart Home Basics	Introduction to IoT, smart lighting, voice-controlled switches
Day 12	Renewable Energy	Basics of solar panels, inverters, battery systems –

		Watch how solar home systems work
Day 13	Simple Automation	Timers, motion sensors – basic introduction with Arduino or simulation tools
Day 14	Mini Project Design	Plan a small home circuit (e.g., light + socket + switch), draw wiring diagram
Day 15	Project Presentation	Prepare and present findings and diagrams; self-reflection & feedback session

Student Responsibilities

- Keep a daily journal (learning log, what was researched, notes, and reflections).
- Complete 1 small report per week (short summary of what they've learned).
- Prepare a final mini-presentation at the end of the internship.