DS Electrical Engineering Education Plan for practical periods (DSEE) **Date: 19th November 2018**

Company: _____

Student: StName/Mobile/email

Tutor in Company: Eng. _____
Mobile : +972 _____
Email : _____

Recommended Tasks, Activities	
Term 1 3rd Dec. 2018 till 28th Feb 2019	• Instruct the student in basic rules of safety and security (electrical and mechanical) and the risks of electricity • Learn basic mechanical and electrical skills in the workshop • Work on simple electrical applications and installations • Attend by tasks in measurement techniques and let the student document the results • Learn to know and name the different components of electrical circuits and systems • General understanding of product and services of the company • Communicate over phone/personally properly • Communicate in English according to knowledge level

Recommended Tasks, Activities	
Term 2 1st June 2019 till 31st August 2019	• Work in maintenance department • Work in quality measurement department • Get familiar with the technical production process (mechanical and electrical) • Work with electrical equipment especially motors, electronics • Prepare and support testing of electric components • Support IT services – if possible • Simple mechanical or electrical assembling and/or testing tasks, installations in the production • Read and draw simple electrical wiring diagrams • Deal with simple electrical applications and installations • Use analog electronic devices

Recommended Tasks, Activities	
Term 3 1st Dec. 2019 till 28th Feb 2020	• Work in the workshops • Work in the maintenance department • Work in testing quality (incoming outgoing) • Attend installations together with skilled staff • Attend meetings with clients/colleagues and produce minutes • Service and maintenance tasks in respective teams in production process • Handle analog and/or digital electronics • Get a basic understanding of electrical network and circuits • Do instrumentation and measurement tasks • Do trouble shooting in simple circuits • Test and document components like sensors, motors, power supplies etc.

Recommended Tasks, Activities	
Term 4 1st June 2020 till 31st August 2020	• Work in the workshops or in production line • Work in the maintenance department • Design and conduct tests, analyze and interpret data. • Work in site operations together with skilled staff, maintenance • Attend meetings with colleagues and produce minutes • Assist IT department in SW handling and networking. • Communicate in English • Take over responsibility for parts of a project • Test power supplies

<table>
<tr><th colspan="2">Recommended Tasks, Activities</th><th colspan="2">Recommended Tasks, Activities</th></tr>
<tr><td>Term
5

1st Dec. 2020
till
28th Feb 2021</td><td>• Work in the engineering department in design and planning
• Test and document electrical systems
• Plan electrical systems
• Take over limited tasks under own responsibility
• Write documentations
• Become full competent technical member of the department
• Work with power electronics, electrical machines, electronics
• Apply Control Systems, PLC, Controller or Microprocessor, Sensors
• Make a market analysis for components
• Do quality measurements including evaluation and documentation
• Do trouble shooting in maintenance</td><td>Term
6

1st June 2021
till
31st August 2021</td><td>Same as in term 5 plus
• Write documents and measurement protocols
• Become a full member of the EE team
• Work independently in quality control.
• Be engaged in services
• Apply time and project management
• Analyse complex problems and propose solutions
• plan and implement independently smaller projects</td></tr>
<tr><td>Term
7
and

8</td><td colspan="3">Graduation Project (done under responsibility of the company)

The title and theme of the graduation project in the broad area of electrical engineering is proposed by the company and have to be approved by the University. The project should have a strong relation to the products and offered services of the company. The graduation project demonstrates the student’s ability to deal and solve practice-related problems from the respective field by using practical and scientific knowledge and methods. The intellectual rights belong to the company. The work has to be done in the company or on the site – outside the University. It will be supervised by the company and the University..

The title with a short description of the task has to be submitted 6 weeks before practice phase 7 starts to the University/Head EE Dual Studies.

Recommended Tasks
• The student analyzes problems and evaluates alternative solutions.
• The student works like an electrical engineer
• The student demonstrates that he/she can work out or develop solutions for complex technical problems in Electrical Engineering by applying scientific methods.
• The student proves to know the current state of research in his/her specific project area. and takes over of professional and ethical responsibility
• The student can expand his/her knowledge and interpret current knowledge.
• He/she communicate to customers and colleagues.
• As a team member, he/she takes over responsibility for a task.
• The student can create a project plan for monitoring and tracking of the project
• The student delivers his/her graduation report in time (approved by the company)</td></tr>
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