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**İSTANBUL KÜLTÜR UNIVERSITY**

**FACULTY OF ENGINEERING**

**DEPARTMENT OF INDUSTRIAL ENGINEERING**

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| IKULogo **IE7803 INDUSTRIAL TRAINING II**  **INTERNSHIP REPORT**  A Project Report Presented to  **Department of Industrial Engineering**  İstanbul Kültür University  In Partial Fulfillment of the Requirements  For Internship Course  **Internship Period:**  **DD/MM/YYYY - DD/MM/YYYY**  **By**  **< Student Name >**  **< Email Address>**  **Employer Information**  **< Company Name >**  **< Name of Manager >**  **< Contact Info for Manager >** |

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# COMPANY INFORMATION

**[This section must be minimum 5 pages].**

* Give the organization's location and specify the address.
* State the vission and mission of the company.
* Evaluate the location of the company in terms of:

» Proximity to raw material and market,

» Transportation facilities,

» Water, energy and employee infrastructure,

» Environmental pollution, climate, legislation regulations.

* Give the information about the company's capital structure.
* Indicate the position of the company within the sector.
* Give the information on the company's product range, the current distribution system, and after-sales services (if exists).

## Organizational Structure

* Give the information of the company’s organisational structure (organisation scheme), number of employees, educational level of employees, governing structure (centralized, decentralized).
* Build an organization chart of the firm as a figure in English (i.e. Figure 1). Graphical user interface, diagram, application, Teams

  Description automatically generated

Figure 1. Organizational chart of the firm or … department

## Operations of Business Functions

* Give the details of company’s Information Technologies (IT) (softwares, databases, network connections, number of computers, absence of necessary IT applications, planned investments in IT, your evaluations.).
* Indicate Industrial Engineering activities within the organization.

# INTERNSHIP EXPERIENCE

**[This section must be minimum 7 pages].**

Explain your duties, observations, suggestions about your internship as general that includes both company and yourself.

## Roles and Responsibilities of the Department

* Give the organizational structure of the department, responsibilities of individuals, which departments has the relations with your department.

## Internship Responsibilities and Duties

* Develop a Gantt Chart to show your daily activities as given the below table.
* Explain the tasks in detail.

Table . Gantt Chart representation of the internship period.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tasks** | **Days** | | | | | | | | | | | | | | | | | | | | |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** |
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# PRODUCTION SYSTEM

* Provide information about the company's annual design capacity and used capacity.
* Calculate the unit production cost, direct labor, direct raw materials and overhead items of a product you have selected (no need to use actual numbers). Describe the system used to find the cost. Perform the "Breakeven Point Analysis" of the product with the cost.
* Review the workshops ergonomically and indicate your suggestions and deficiencies you have observed.
* Give the information of the time and work process undertaken. Otherwise, make an application consisting of 10 measurements.
* Give the information of efficiency studies and identify the level of productivity with a few samples.
* Give the information of tools, gears and benchs used in manufacturing.
* Provide information on material handling, storage systems and inventory management. Indicate any deficiencies you have observed, and discuss your suggestions.
* Provide information on the production system applied in the business (group technology, cellular production, assembly line, etc.).
* Provide information and examples about production planning activities.
* Give information on activities and methods applied for quality control with examples.
  1. Incoming control processes (for supplies),
  2. ​In-process 'product' controls (during operations),
  3. In process 'process' controls (during operations),
  4. Final control processes (for outgoing products),
* Provide information about the following Industry 4.0 technologies/applications (showed in the table below) that are available in the company. Indicate the applied ones in the table.

Table 2 Usage status of existing technologies

|  |  |
| --- | --- |
| **Application** | **In Use? (Yes/No)** |
| 3D Printing |  |
| Sensor Systems |  |
| Virtual Reality |  |
| Cloud Technologies |  |
| Internet of Things |  |
| Additive (3D) Manufacturing |  |
| Improved Robot Technologies |  |
| Automation |  |
| Modeling and Simulation |  |
| Online Education |  |
| Electronic Performance Reports |  |
| Big Data |  |
| Augmented Reality |  |
| Cyber Security |  |
| Integrated Product Development |  |
| Predictive Maintenance |  |
| Preemptive Maintenance |  |
| Smart Warehouses |  |
| Mobile Systems |  |

* Explain how existing technologies given in the above table are used.

# OBSERVATIONS ON COORPORATE SUSTAINABILITY

Please give information on the activities performed in the company for the following sustainability concepts:

* Social responsibilities (Occupational health and safety)
* Environmental responsibilities
* Legal responsibilities
* Ethical responsibilities

# COMPANY/INTERNSHIP EVALUATION

Student should evaluate the internship and the company.

(A scale of 1 – 10 with 10 being the most positive should be used.)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Evaluation Criteria** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| I implemented Industrial Engineering methods in the company. |  |  |  |  |  |  |  |  |  |  |
| I had chance to improve my knowledge and skills during my internship. |  |  |  |  |  |  |  |  |  |  |
| I had support from the company staff during my internship. |  |  |  |  |  |  |  |  |  |  |
| I recommend the company for other students’ internships. |  |  |  |  |  |  |  |  |  |  |
| I am satisfied with my internship in this company (overall score of the internship). |  |  |  |  |  |  |  |  |  |  |

Please write your experiences for the following topics:

* The strengths of the company
* The weaknesses of the company
* Your learnings and implemented methods during your internship