Graduation Project Proposal Form

1. Project Information

- **Project Title:** DEPI Sensors.
- **Course/Track** Oracle Digital Supply Chain Management
- **Team Members:**
  1. Mostafa Fahmey Mohamed Ibrahim
  2. Omaima Mohamed Mohamed Turky
  3. Asmaa Mohamed Mohamed Torky
  4. Esraa Ahmed Fahim Youssef
  5. Yousra Yusuf Abdelghany Muhammad

2. Project Overview

- **Objective:**
  Our project aims to market IoT sensors, given their critical role in today's technology landscape, while leveraging and utilizing Oracle software to streamline all supply chain operations.

- **Scope of Work:**
  The project scope entails the implementation & integration of Oracle software into the DEPI Sensors project. By utilizing Oracle's capabilities, we can effectively manage all operations associated with selling IoT sensors.

- **Expected Outcomes:**
  - Accurately predict future demand to optimize inventory levels.
  - Streamline processes, reduce manual errors, and improve overall efficiency.
  - Gain visibility into inventory levels and order statuses.
  - Provide excellent customer service through efficient order fulfillment and issue resolution.
  - Meet customer expectations for timely delivery and order accuracy.
  - Easily scale Oracle software to accommodate business growth and changing requirements.
  - Streamline procurement processes, supplier management, and contract management.
  - Negotiate better deals with suppliers and reduce costs through strategic sourcing.

3. Problems Statement

In today's rapidly evolving global market, businesses face numerous challenges in managing their supply chains. These challenges include:

- Lack of real-time visibility into inventory levels, transportation routes, and supplier performance.
- Difficulty in adapting to changes in demand, supply, or market conditions.
- Lack of effective risk management strategies, which may expose to financial losses and reputational damage.
- Difficulty in managing complex supply chains with multiple tiers, suppliers, and distribution channels.

4. Proposed Solutions

Oracle offers a comprehensive suite of software solutions designed to address the challenges faced by digital supply chains. Here are some key ways Oracle can help:

- Oracle Warehouse Management: Streamlines warehouse operations, including receiving, putaway, picking, packing, and shipping.
- Oracle Supply Chain Planning: Optimizes supply chain planning processes, including demand planning and inventory management.
- Oracle Demand Management: Enables businesses to accurately forecast demand and adjust production plans accordingly.
- Oracle SCM Cloud: Provides real-time visibility into inventory levels, transportation routes, and supplier performance.
- Oracle Transportation Management: Offers visibility into transportation operations, including freight rates, carrier performance, and shipment tracking.
- Oracle Supplier Lifecycle Management: Enables businesses to evaluate and manage supplier sustainability performance.

5. Resources Needed

- **Hardware/Software:**
  - Oracle E-Business Suite Applications with an integrated suite of Oracle SCM Cloud.
  - Computers and Servers for running software applications and sorting data.
  - Networking Equipment (Routers, switches, and modems) to connect devices and enable communication within a network.
  - Peripheral Devices (Printers, scanners, cameras, and other devices may be needed for specific tasks)
  - Barcode Scanners and RFID Readers to capture and track the movement of products and materials.

6. Approval

- **Instructor/Advisor: Engr. Muhammad Samir**
- **Signature:**