

**NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY**

**Robotics (EE-381)**

Assignment 2

**Group Members**

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| --- | --- | --- |
| **Name** | **CMS ID** | **Question(s) Attempted** |
| Muhammad Abdullah Sohail | 343642 | **Q1** – 2.33 | **Q2** – 3.18 & 3.20 |
| Muhammad Ahmed Mohsin | 333060 | **Q1** – 2.32 | **Q2** – 3.17 |
| Muhammad Umer | 345834 | **Q1** – 2.34 | **Q2** – 3.19 & 3.21 |
| Hassan Rizwan | 335753 | **Q1** – 2.35 | **Q2** – 3.16 |

**Submission Details**

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| --- | --- |
| Instructor | Dr. Hafsa Iqbal |
| Class | BEE – 12 |
| Group | GP – 1 |
| Semester | 8th |
| Dated | 04/04/2024 |

1. Solve the following exercise questions from the book titled, **“Introduction to Robotics”** by Craig.

[4x5 = 20 marks]

1. 2.30
2. 2.32
3. 2.34
4. 2.35
5. Calculate DH Tables for the figures given with **Problems 3.16 to 3.21 (Fig 3.36 - 3.41)** from the book titled “Introduction to Robotics” by Craig. Assuming joint links from base to end effector with variable l1, l2, and l3 respectively.

[6x5 = 30 marks]

**Authors Contributions.** Mention each author’s contribution at the end of each question **(Mandatory)**.

* Author 1.
* Author 2.

**Grading Scheme.**

* Q1: 20 Marks
* Q2.1: 30 Marks
* Total: 50 marks

**Copying.** Copying is highly discouraged, and it will lead to **a significant loss (90-95 %) of marks.**

\* Copying includes using **sentences, variables, code, formats from others and AI tools**. Discussion is appreciated but attempt the tasks on your own (which would make it look original).