Benha University

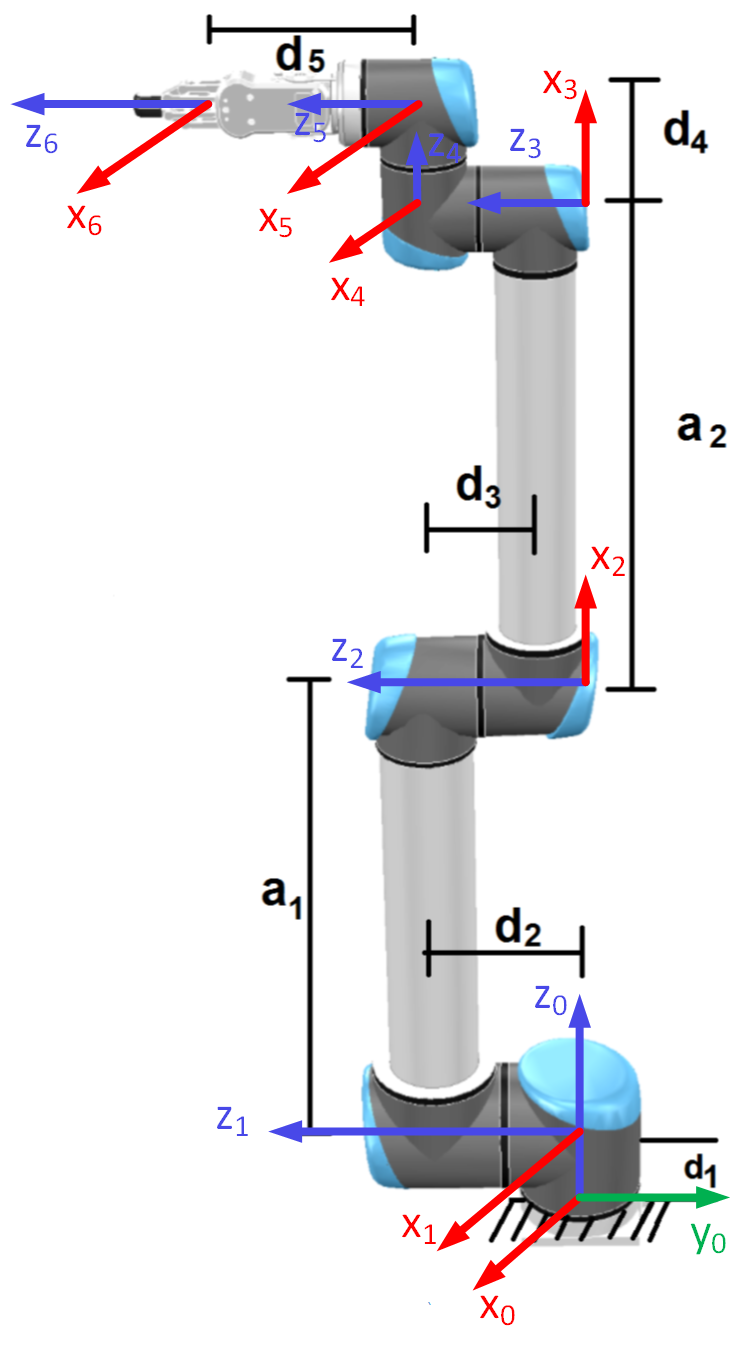
Faculty of engineering (Shoubra)  **Model Answer**

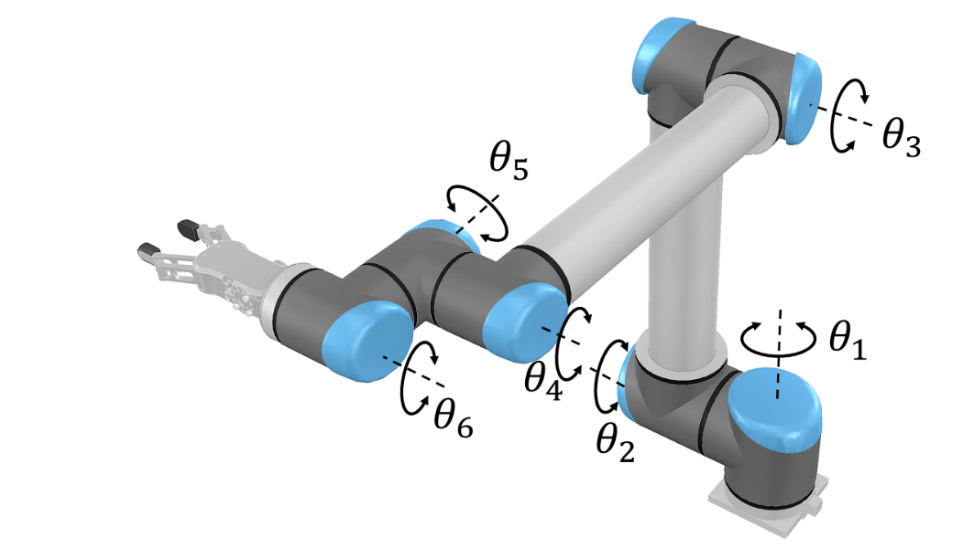
ECE 447: Robotics Engineering Quiz No. 2 (Time: 45 min)

**Name**: **Department**: ECE / CSE

Please note, this is a one of many possible solutions according to the assignment of the frames.

For the shown UR10 robotic manipulator, **assign the coordinate frames** on the right projection. **Fill the DH table** below.





|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Link | *a* | *α* | *d* | *θ* |
| 1 | 0 | +90 |  |  |
| 2 |  | 0 | 0 |  |
| 3 |  | 0 | 0 |  |
| 4 |  | -90 |  |  |
| 5 | 0 | +90 |  |  |
| 6 | 0 | 0 |  |  |
|  |  |  |  |  |

DH Table

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DH terms:

