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| C:\Users\Ram Computer\Downloads\qqqqqqqqqqqqqq.png | **TISHK INTERNATIONAL UNIVERSITY**  **Civil Engineering Department**  **Graduation Project Proposal Form** |

**Project Information**

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| **Title of the Project** |
| Comprehensive Analysis of Bearing Capacity in Granular and Cohesive Soils |
| **Project Description** |
| This project aims to study the bearing capacity of granular and cohesive soil using computer software (PLAXIS 3D). The computed bearing capacity will be compared with predictions made by traditional and widely-used methods to thoroughly validate their accuracy. Based on this verification, suggestions will be provided |

**Project’s Supervisor**

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| Name | Dr.Yousif Abduallah Hussein | E-mail | [yousif.abduallah@tiu.edu.iq](mailto:yousif.abduallah@tiu.edu.iq) |

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| **Project Justification/Characteristics** | |
| New Aspects/  Challenging Problems and Issues (if any) | 1. Conducting an in-depth analysis of soil bearing capacity across multiple layers and under unique footing shapes. 2. Validation of traditional bearing capacity estimation methods. 3. Thoroughly verifying settlement calculation methodologies. |
| Related Civil Engineering Science Fields and Subfields | Geotechnical Engineering/ Foundation Engineering |
| Tools | Computer software PLAXIS 3D |
| Labs Needed for this Project | N/A |