

GRADUATION PROJECTS LIST

NO.	SUPERVISOR NAME	FIRST PROJECT TITLE	SECOND PROJECT TITLE
1	Asst. Prof. Dr. Thair Faiz Ahmed Sultan	Design, manufacturing, and assembly of a low-cost plantar pressure distribution measurement system for prosthetics and orthotics applications.	Design, manufacturing, and assembly of a low-cost thermoforming machine for polymeric materials used in prosthetics and orthotics fabrication.
2	Asst. Prof. Dr. Thair Faiz Ahmed Sultan	Design, manufacturing, and assembly of a low-cost 3D printer using FDM technology for prosthetics and orthotics applications.	Assembly of 3D printer components.
3	Dr. Aymen Sabah Rashad	A comparative study of materials used in prosthetic limbs manufacturing.	Study of orthoses used in the treatment of limb deformities.
4	Dr. Ashraf Abdul-Razzak Saeed	Design of a limb length measurement device.	Evaluation of metal durability used in prosthetic limbs in terms of strength and ease of manufacturing.
5	Dr. Ashraf Abdul-Razzak Saeed	Types of materials used in terms of quality and durability for prosthetic limbs from different manufacturers.	Plastics used in socket manufacturing and their suitability for use: A comparative study.
6	Alaa Emad Hameed Majeed	Comparison of selected materials used in orthoses manufacturing.	Materials used in orthotic brace manufacturing.
7	Maysam Saleh Mutlaq Abboush	Humidity and odor control inside orthoses and braces.	Natural hydrogel for prosthetic liners.
8	Firas Saad Al-Din Ahmed Abdul-Qader, Dr. Aymen Sabah Rashad	Design and implementation of a low-cost portable system to monitor lower limb alignment using dual MPU6050 inertial sensors.	Design and implementation of an electromechanical upper-limb prosthesis driven by servo motors and EMG sensors.
9	Zaid Khalaf Muhammad Khallo	Fabrication of an adjustable-size transfemoral (above-knee) socket.	Design of a prosthetic hand controlled via multiple methods, including voice commands or EMG sensors.
10	Sowla Taha Hamid Muhammad	Fabrication of an Ankle-Foot Orthosis (AFO) using low-cost thermoplastic materials.	Application of 3D printing in the manufacturing of orthotic braces.
11	Hassan Mahmoud Kydi Hassan	3D printer setup and configuration.	Assembly and integration of 3D printer parts.