Al-Mustaqbal University	
College of Engineering and Technology	
Prosthetics and Orthotics Engineering Department	
Stage: 2 nd **Sub: Prosthetics and Orthotics lab.**	

Week	Laboratory Work
1st	Understanding Prosthetic Feet.
2nd	Factors in selecting a prosthetic foot, functional level.
3rd	Activities of Daily Living and Work Requirements, Patient's Weight, Amputation Level and Residual Limb Characteristics.
4th	Performance features and appearance of available prosthetic feet: a compact guide k1 feet.
5th	K2 feet, k-3 feet The Rockers of Stance Phase, Prefab, Custom Fit, Or Custom Molded.
6th	K-4 feet: high activity Appropriate footwear, ankle-foot orthoses, Biomechanical Principles.
7th	Postsurgical Management of Partial Foot and the Syme Amputation, PARTIAL FOOT AMPUTATIONS Static ankle-foot orthoses, Solid Ankle-Foot Orthoses, SAFO Control Systems.
8th	Gait characteristics after partial foot amputation Progression Through Stance Phase, Indications for SAFO, The Anterior Floor Reaction Ankle-Foot Orthosis.
9th	Prosthetic Management, Toe Fillers and Modified Shoes, Custom Shoe Inserts and Toe Fillers.
10th	Cosmetic slipper designs, prosthetic boots Dynamic ankle foot orthoses, The UCBL Orthosis.

$11th$	**Syme amputation Dynamic Ankle Foot Orthosis, Posterior Leaf Spring Ankle-Foot Orthosis.**
$12th$	**Postoperative care: walking casts, prosthetic management, Canadian Syme prostheses, medial opening Syme prostheses Additional Dorsiflexion Assist Options, Carbon Fiber Spring Orthoses.**
$13th$	**Sleeve suspension Syme prostheses, expandable wall prostheses, tucker-Winnipeg Syme prostheses Functional Neuromuscular Electrical Stimulation, Commercially Available Dorsiflexion-Assist Designs.**
$14th$	**Determining the Prosthetic Clearance Value, Nonarticulating Syme Feet, Hinged Thermoplastic Ankle-Foot Orthosis.**
$15th$	**Dynamic Response Syme Feet, Alignment Issues Conventional Dorsiflexion-Assist Ankle Foot Orthosis, AFO Designs, Tone, and Postural Control.**