

LESSON PLAN

Subject:- : **Principles of Bio- Engineering**
 Class : BPT IV year
 Class Incharge : Dr. Kedar Sule (PT)
 Faculty Incharge : Dr. Ajay Malshikare (PT)
 Theory :- 20 hrs + Clinical :- 10 hrs = 30 Hours

Sr. no.	Topics	No. of Lectures	Mode of Teaching
1.	Classification of Aids & appliances.	1	Seminar
2.	Knowledge of various component of prosthesis & orthosis. - Introduction and Types - Upper limb prosthesis - Lower Limb Prosthesis - Upper limb Orthosis - Lower Limb Orthosis - Spinal Orthosis	(6) 1 1 1 1 1 1	PPT and Demo
3.	Biomechanical principles in designing of appliances & assessment procedures for static & dynamic alignment of the following - Aids & appliances - Splints - Orthosis for spine, upper & lower limb - Prosthesis for Lower limbs & Upper limbs	3	PPT and Demo
4.	Assessment of Gait post Prosthetic / Orthotic (Lower Limb) fitting.	3	PPT and Demo
5.	Care of prosthesis & orthosis.	2	PPT and Demo
6.	Methods of donning & doffing.	1	PPT and Demo
7.	Decision making for prosthetic fitting	2	PPT and Demo
8.	Psychological aspect of patients.	2	PPT and Interactive

Total Lecture scheduled = 20 Hours
 Total Practical's/ Clinicals scheduled = 10 Hours (at clinical posting)
 Total = 30 Hours
 Total Tutorials scheduled = 03 Hours
 Total Doubt clearing sessions = 02 Hours (as and when required)
 Total Hours for the subject = 35 Hours