



Al-Mustaqbal University		 
College of Engineering and Technology		
Biomedical Engineering Department		
Stage:4 th Sub: Computer Aided Design (CAD)		
Week	Laboratory Work	
1 st	CAD Applications: Engineering Products, Analogy: Documentation, Design Representation, FEM, Optimization, Software/AutoCAD/Mechanical Desktop/I-DEAS	
2 nd	Solid Modeling: Representation of Solids	
3 rd	Solid Modeling: Topology	
4 th	Solid Modeling: Topology Wireframe Modeling	
5 th	Electrical Circuits	
6 th	Computer Science	
7 th	Solid Modeling: Boundary Representation	
8 th	Solid Modeling: Boundary Representation, CSG, Operations: Extrude, Revolve, examples	
9 th	Design Of Curves: Representation, Piecewisecontinuous, Differential Geometry Of Curves.	
10 th	Design Of Curves: Fergusonsegments, Bézier Segments	
11 th	Design Of Curves: Béziersegments	

12th	Design Of Curves: B-Splines
13th	Design Of Surfaces: Piecewisecontinuous, Differential Geometry
14th	Design Of Surface Patches:Fersugon,16 point form, Bézier, B-spline
15th	Design of Curves: RationalCurves/NURBS.