Course Number and Title:	EE- 123 CAD	
Credit Hours:	0+1	
Instructor (s):	Engr. Mamoona Irfan	
Lab Engineer:	Engr. Muhammad Aleem Zahid	
Compulsory/Elective:	Compulsory	
If Elective: Depth Core/Breadth Core:		
Course Schedule:	Lecture:	
	Lab:	3 hours/week
	Office hours:	2 hours/week
Course Assessment:	Assignments:	5
	Quizzes:	3
	Lab project:	1
	Lab work:	16 experiments
	Exams:	Lab test
Grading Policy:	Assignments:	
	Quizzes:	
	Course project:	
	Lab work:	100%
	Mid-Semester:	
	End-Semester:	
Text Book:	Engineering Graphics with AutoCAD 2002	
Reference Book(s):		
Topics covered in the course and level of coverage:	❖ Basic introduction of Engineering drawing	3 hours
	❖ Free hand sketching of angles and dimensions	3 hours
	❖ Introduction to AutoCAD and basic commands	3 hours
	❖ Dimensioning	3 hours
	❖ Fundamentals of 2-D construction	6 hours
	❖ Sketching techniques	3 hours
	❖ Designing the map of house	3 hours
	❖ Orthographic views	6 hours
	❖ Sectional views and auxiliary views	6 hours
	❖ Thread terminology	3 hours
	❖ 3D solid Modeling	3 hours
	❖ Introduction to PCB designing	6 hours
Mapping of course to program learning outcomes:	PLO-1	
	PLO-3	
❖ Upon completion of this course, students will have had an opportunity to learn about the following		
Specific course learning	❖ Basic introduction of Engineering drawing	PLO-3

outcomes:	❖ Free hand sketching of angles and dimensions	PLO-3
	❖ Introduction to AutoCAD and basic commands	PLO-3
	❖ Dimensioning	PLO-3
	❖ Fundamentals of 2-D construction	PLO-3
	❖ Sketching techniques	PLO-3
	❖ Designing the map of house	PLO-3
	❖ Orthographic views	PLO-3
	❖ Sectional views and auxiliary views	PLO-3
	❖ Thread terminology	PLO-3
	❖ 3D solid Modeling	PLO-3
	❖ Introduction to PCB designing	PLO-3
Program learning outcomes and how they are covered by the specific course outcomes	PLO-3	o Basic introduction of Engineering drawing o Free hand sketching of angles and dimensions o Introduction to AutoCAD and basic commands o Dimensioning o Fundamentals of 2-D construction o Designing the map of house o Sketching techniques o Orthographic views o Sectional views and auxiliary views o Thread terminology o Introduction to PCB designing o 3D solid Modeling