



**JORDAN UNIVERSITY OF SCIENCE & TECHNOLOGY
INDUSTRIAL ENGINEERING DEPARTMENT**

Course Number and Name	PDDE 586 Rapid Prototyping Lab
Course Description	Introduction to rapid prototyping processes, rapid manufacturing and rapid tooling methods. Operating principles and characteristics of current rapid prototyping processes. Principles of Additive manufacturing (AM), Hybrid AM and Subtractive .based Rapid technologies , methods and systems
Credits and contact hours	1 Credit hours; 3 hours of lecture
Pre- or Co-requisites	PDDE 481, PDDE 581
Required/ Elective	Required

Instructor	
Office Location	
Office Phone	
Email	
Office Hours	

Textbook(s)	Gibson, I., Rosen, D., & Stucker, B. (2015). <i>Additive Manufacturing Technologies, 3D Printing, Rapid Prototyping, and Direct Digital Manufacturing</i> . Springer, New York, NY.
References	.Zeid, I. (2004). <i>Mastering Cad/Cam</i> . McGraw-Hill, Inc [2] External reading assignments/ Journal Papers [3]
Useful links	

Course Objectives	1. Identify the basic building principle of RP
	2. Classify different RP processes
	3. Recognize advantages and limitations of RP processes
Measured Outcomes	SLO2, SLO5

Class Schedule		
Classroom		

Evaluation

First Exam	25%
Reports	25%
Final Exam	40%
Activity	10%