



**Faculty of Engineering – Assiut University
Bachelor Degree**

Design and Production Engineering Program

Dept. of Mechanical Engineering

Course specification

Elective Course (2) Die Design MR 433

1. Course Aim

Main Aim	Die design is a large division of engineering. It is a complex and fascinating subject. It is one of the most exacting of all the areas of the general field of tool designing.
Sub-Aims	<ul style="list-style-type: none">• The designer originates designs of dies, employed stamp and form parts from sheet metal• Assemble parts together.• Perform a variety of other operations

2. Course Content

Over view of CAD / CAM systems - Geometric modeling- two and three-dimensional graphic concepts - General design applications- precision bulk forming – computer aided perform design – precision die manufacturing.

(Reference: Faculty bylaw 2004 – program specification)

3. CourseTopics	Subject	No. - hours
1st topic	Over view of CAD/CAM system	5
2nd topic	Geometric Modeling	5
3rd topic	Two & three- dimensional graphic concepts	10
4th topic	General design applications	20
5th topic	Precisim bulk forming	10
6th topic	Computer-aided perform design	10
7th topic	Precisim die manufacturing	10
Total		70

4. Grades Distribution			
Assesment Methods		Percentage	
Final Exam		60% من النهاية العظمى	
Oral Final Exam		%XX	
Med term exam		%XX	
Assessments	Written Exam	8%	40%
	Oral Exam	-	
	Tutorial assessment	-	
	Project assessment	20%	
	Model assessment	-	
	Report assessment	-	
	Quiz assessment	-	
	Presentation assessment	8%	
	Discussion	4%	
	Laboratory test	-	
	Home Exam	-	
	Monitoring	-	
Total		%١٠٠	

5. List of References	
Course notes	Lectures by: Prof. M. G. El-Sebaie
Required books	J. R. Paquin & E. Crowley, Die Design Fun damentals, 2 nd Edition, Industrial Press INC, 1987.
Recommended books	F. W. Wilso, P. D. Harve, C. B. Gump. Die Design Handbook, Mcqraw Hill B. Company, 1965.
Periodicals, web sites.. etc.	Search for commercial companies” Die design- Sheet metal works, Bulk Forming of metals”