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Department of Mechanical Engineering	
Engineering Workshop II (67200)	
Total Credits	**1**
major compulsory	
Prerequisites	P1 : Engineering Workshop I (67100) OR Eng'g Workshop I (61102)

Course Contents

Theoretical and practical development of basic skills in fields of sheet metal fabrication, metal machining, measurements, metal forming, sand casting, and welding, and household electric circuits.

	Intended Learning Outcomes (ILO's)	Student Outcomes (SO's)	Contribution
1	Ability for using machining process such as cutting tools, tool geometry and cutting fluids.	K	55 %
2	The ability to process the metal processing and forming such as Rolling Drawing and Casting processes.	C	20 %
3	Application of material joints and material assembly in real life.	H	25 %

Textbook and/ or Refrences

Workshop II manual and several handouts through out the semester. Project, e.g. Qualification Project Pick &Place Device. South Westphalia Chamber of Commerce and Industry SIHK, Hagen 1993. Workshop technology -1, by PK Spara &RK Kapur, 1996. Workshop technology, volume 2, HS Bawa,1998.

Assessment Criteria	Percent (%)
First Exam	15 %
Laboratory Work	50 %
Final Exam	35 %

Course Plan

Week	Topic
1	Introduction and terminology
2, 3, &4	Cutting tools, geometry and cutting fluids
5 &6	Metal processing (Rolling Mills)
7 &8	Metal Processing (Drawing)
8 &9	Metal Processing (Casting)
10 &11	Exam
12,13, &14	Material Assembly
15 &16	Final Exam