WORCESTER POLYTECHNIC INSTITUTE
ES 1310 – ENGINEERING DESIGN GRAPHICS
Introduction to Computer Aided Design. Term B'99

Final project. *Phase I: project proposal*

http://me.wpi.edu/~es1310/

Instructor: Cosme Furlong, TA: Greg Rixon

Project objective: to generate detail CAD drawings of all the specified components of an engineering assembly (some design/research is required). In addition, to generate an isometric, and exploded views (both with ballooning) of the assembly, and a parts/materials list as part of the exploded view. All drawings are to be presented on a professional format following engineering standards and regulations.

Team size for the execution of the project: 2 or 3 students (subjected to approval).

Grading: the final project counts 30% of your total course grade (please consult course syllabus for more details).

Schedule: the final project consists of three phases:

1) *Project proposal*. ***Due on November 15, '99.***
2) *Progress report*. ***Due on December 06, '99 or earlier.***
3) *Delivery of the final report*. ***Due on December 17, '99. No late reports will be accepted.***

PROJECT PROPOSAL

In the final project proposal, describe what you are going to do for the project, why you are doing this, how do you intend to achieve what you want to do, what do you expect as results, and what might the results mean (or how will they be used) once you obtain them. The *format* of the proposal consists of:

1) *Cover sheet* (see attached sample format).
2) *Summary*. The summary should be written as a single paragraph, no figures, no equations, just the text. The text should be typed double space, using 12 points font, on one side of a sheet of paper. The entire summary should be 500 ± 50 words in length, yet it should contain all the information necessary to convince the reader/reviewer of your proposal that you know what you are talking about and that what you propose is achievable in the time you have for the project. Please do not hesitate to ask if you have any questions.
3) *Project schedule*. Scheduling for delivery of your final report should be presented on one side of a sheet of paper and must include specific dates when you are planning to finish various stages of the project. Two important dates to take into consideration are the *Progress* report and *Delivery* of the final report. *Use a spread sheet format!!!*

ASSEMBLIES TO CHOOSE

1) ***Ku-band parabolic dish*. Figure 19.37 (TGC)**
2) ***Four cylinder engine* Crankshaft, Piston, and connecting rod assembly. Lab13.8 of CADKEY companion.**

PROPOSAL

as a partial requirement
for
the course on

<COURSE NAME>
<COURSE NUMBER, TERM>

FINAL PROJECT:
<**TITLE**, boldface and capitalized>

Submitted by:

<Sign your name. First partner >
_____

<Type your name. First partner – use alphabetical order >

<Sign your name. Second partner >
_____

<Type your name. Second partner >

Submitted to:

Dr. Cosme Furlong

DEPARTMENT OF MECHANICAL ENGINEERING
WORCESTER POLYTECHNIC INSTITUTE
WORCESTER, MA 01609-2280

<Date of submission>