MEC 4104 Mechanical Engineering Projectl

Hours per Semester				Weighted Total Mark	Weighted Exam Mark	Weighted Continuous Assessment Mark	Credit Units
LH	PH	TH	CH	WTM	WEM	WCM	CU
0	180	30	0	100	60	40	4

Brief Description of Course:

This course requires that each student carries out a project devoted to an investigation of a topic and produces a final report. This could be design of a product to fill an identified need or a study to solve an identified problem.

Objectives of the Course:

The objectives of this course are:

- Give the students the knowledge and understanding on how to apply the knowledge and principles from the other course in solving an engineering problem.

Expected Outcomes:

At the end of this course, a student should be able to:

- Isolate a need or a problem requiring a systematic design and/or study
- Conduct a guided investigation using knowledge from previously studied subjects to arrive at a rational solution
- Demonstrate the worth of the proposed solution
- Write a report of the work done
- Make an oral presentation and/or demonstration of the work done **Course Content:**

The course stretches over two semesters. A total of 30 contact hours in the first semester and 60 contact hours in the second.

Delivery Methods:

The project is conducted under the supervision of a member of the academic staff, assisted by a co-supervisor. An original report and a copy shall be handed in by the student before sitting for the final written examinations. The report should reflect the capacity of the student to apply theoretical and practical knowledge in Mechanical Engineering. Each candidate shall also present the report orally to a panel of Examiners made up of all the members of academic staff of the department. One

presentation takes place at the end of the First Semester while the Second takes place at the end of the Academic Year.

Assessment Methods:

The grading is as follows:

- First Semester with a proposals and a presentation 2 CU.
- The final report and presentation 4 CU.

The marking is as follows:

- Midyear presentation 10 Marks.
- The final presentation 20 Marks.
- The report accounts for 70 marks and is based on the following:

- Engineering Content 40
- Originality 15
- Report writing 15