

CALENDAR DESCRIPTION:

Steam turbines: impulse and reaction, Operation of steam turbines. Gas turbines: open and closed cycles. Air compressors: types and operation, advantages/disadvantages. Internal combustion engines, Introduction to Pump types, classifications and operation, Lubrication principles and types of bearings. An overview of the types of plants that use and employ power engineers; gas plants, refineries, food processing, sawmill, hot oil systems, and pulp mills.

CREDIT/CONTACT HOURS: 39 Hours

DELIVERY MODE(S): Fairview Campus Only

OBJECTIVES:

To ensure students gain knowledge of and competence in the operation of the aforementioned processes and machines.

TRANSFERABILITY: As per ABSA requirements

GRADING CRITERIA:

Method	Percentage	Minimum
Course assignments/workbooks	15%	50%
CML quizzes	15%	50%
Unit Exams	30%	50%
Final Exam	40%	50%
	100%	50%
		65% average, with no mark below 50%

EXAMINATIONS: As per Power Engineering Student Manual

STUDENT RESPONSIBILITIES: As per Power Engineering Student Manual

STATEMENT ON PLAGIARISM AND CHEATING:

Please refer to pages 49-50 of the College calendar regarding plagiarism, cheating and the resultant penalties. These are serious issues and will be dealt with severely.

COURSE SCHEDULE/TENTATIVE TIMELINE:

Nov. 15- Dec 17., 2010

Monday – Thursday – 08:30-10:20

Friday -08:30-09:30