

Teaching Plan

FAKULTI KEJURUTERAAN ELEKTRIK UNIVERSITI TEKNIKAL MALAYSIA MELAKA

ALGEBRA & CALCULUS

BEKA 1123 SEMESTER 1 SESSION 2011/2012

1. Learning Outcomes

Upon completion of this subject, the student should be able to:

- 1 Use the properties, determinant and inverse of matrix to solve systems of linear equations. (PO1, PO4, C3, CTPS3)
- 2 Apply the properties of trigonometry function to solve trigonometry problem. (PO1, PO4, C3, CTPS3)
- 3 Apply the properties and the operations of complex numbers. (PO1, PO4, C3, CTPS3)
- 4 Solve derivatives of algebraic, logarithmic, trigonometric and exponential functions. (PO1, PO4, C3, CTPS3)
- 5 Solve integrals of algebraic, logarithmic, trigonometric and exponential functions. (PO1, PO4, C3, CTPS3)

2. Synopsis

This subject serves as fundamental mathematics course for electrical engineering students. This subject is classified into two parts. The first part on Linear Algebra; will discuss about Matrices & Solving a System of Linear Equation, Trigonometry and Complex Numbers. The second part on Calculus; will focus about Differentiation & Integration with deep understanding.

3. Pre requisite

4. References

- [1] Irma et al, Linear Algebra & Calculus Module, Penerbit UTeM (2011)
- [2] Abd. Wahid et. al, Intermediate Mathematics, UTM, (2009)
- [3] Tay Choo Chuan et. al, Introduction to Linear Algebra, Penerbit UTeM, (2010)
- [4] Robert Blitzer, Algebra and Trigonometry, Prentice Hall, (2010)

5. Subject Implementations

- Lectures 3 hours per week for 14 weeks (Total = 42 hours)
- ii Tutorials 1 hour per week for a total of 4 6 weeks (Total = 4 to 6 hours)

6. Subject Evaluations

Assessment*	Marks
Quiz	10%
Test 1	15%
Test 2	15%
Assignment	10%
Final Examination	50%
Total	100%

Detail Syllabus and Delivery Planning
 Note: 1. Tutorial sessions (1h): 4 to 6 weeks throughout the semester 2. Test 1 (Week 6-8); Test 2 (Week 10-12)

Date Modified:

24/08/2011

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