

EIE332 - Electromagnetics[Copy Schedule](#)[Print](#)

Lecturer: Wai-Yip, Tam (Dr)

Academic Year: 2004-2005

Class: EIE D2, EIE D3F, EIE D4

Core/Elective: ELECTIVE

Enrol. No. After Add/Drop: N/A

Consultation Hour	Friday: 8:30-9:30am; 2:30-3:30pm; 4:30-5:30pm
Lecture Time	Friday: 10:30am-12:30pm
Tutorial Time	Group1 Friday: 9:30-10:30am; Group 2 Friday 1:30-2:30pm
Laboratory Time	Monday: 9:30am-12:30pm
Wai-Yip, Tam (Dr)	
SFQ	Date: 2005-04-22 Time: 12:00:00 Venue: CD309
SFQ on Practical Work	Date: 2005-04-22 Time: 12:15:00 Venue: CD309

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Week	Date	Lecturer	
Week 1	2005 - Jan - 21	Wai-Yip, Tam (Dr) - COM	
	Lecture	Transmission Line Theory I: General Transmission-Line Equations; Wave Characteristics on an Infinite Transmission Line	2 hr
	Self-Study	Transmission Line Theory: Ch. 8-1, 8-2 and 8-4	3 hr
Week 2	2005 - Jan - 28	Wai-Yip, Tam (Dr) - COM	
	Lecture	Transmission Line Theory II: Wave Characteristics on Finite Transmission Lines	2 hr
	Tutorial	Transmission Line Theory	1 hr
	Self-Study	Transmission Line Theory: Ch. 8-5	3 hr
Week 3	2005 - Feb - 04	Wai-Yip, Tam (Dr) - COM	
	Lecture	Transmission Line Theory III: Smith Chart; Impedance Matching	2 hr
	Tutorial	Transmission Line Theory	1 hr
	Homework		2 hr
	Self-Study	Transmission Line Theory: Ch. 8-6 and 8-7	3 hr
Week 4	2005 - Feb - 18	Wai-Yip, Tam (Dr) - COM	
	Lecture	Static Electric Fields I: Coulomb's Law; Gauss's Law	2 hr
	Self-Study	Static Electric Fields: Ch. 3-3 and 3-4	3 hr
Week 5	2005 - Feb - 25	Wai-Yip, Tam (Dr) - COM	
	Lecture	Static Electric Fields II: Electric Potential; Poisson's and Laplace's Equations	2 hr
	Tutorial	Static Electric Fields	1 hr
	Self-Study	Static Electric Fields: Ch. 3-5 and 3-11	3 hr
Week 6	2005 - Mar - 04	Wai-Yip, Tam (Dr) - COM	
	Lecture	Static Electric Fields III: Boundary Conditions; Material Media in Static Electric Fields; Capacitance	1 hr
	Tutorial	Static Electric Fields	1 hr
	Laboratory	Reflection and Transmission of a Plane Wave Incident on a Dielectric Slab	3 hr
	Test Quiz	Transmission Line Theory	1 hr
	Self-Study	Transmission Line Theory; Static Electric Fields: Ch. 3-6, 3-8 and 3-9	6 hr
Week 7	2005 - Mar - 11	Wai-Yip, Tam (Dr) - COM	
	Lecture	Static Magnetic Fields I: Biot-Savart Law; Ampere's Law	2 hr
	Laboratory	Reflection and Transmission of a Plane Wave Incident on a Dielectric Slab	3 hr

	Self-Study	Static Magnetic Fields: Ch. 5-4	3 hr
Week 8	<u>2005 - Mar - 18</u>		Wai-Yip, Tam (Dr) - COM
	Lecture	Static Magnetic Field II: Boundary Conditions; Inductance	2 hr
	Tutorial	Static Magnetic Field	1 hr
	Homework		2 hr
	Laboratory	Reflection and Transmission of a Plane Wave Incident on a Dielectric Slab	3 hr
	Self-Study	Static Magnetic Field: 5-9 and 5-10	3 hr
Week 9	<u>2005 - Apr - 01</u>		Wai-Yip, Tam (Dr) - COM
	Lecture	Time Varying electromagnetic fields: Faraday's Law; Maxwell's Equations	2 hr
	Tutorial	Time Varying electromagnetic fields	1 hr
	Laboratory	Microstrip Patch Antennas	3 hr
	Self-Study	Time Varying electromagnetic fields: 6-2 and 6-3	3 hr
Week 10	<u>2005 - Apr - 08</u>		Wai-Yip, Tam (Dr) - COM
	Lecture	Wave Equation I: Plane Waves in Lossless Media; Plane Waves in Lossy Media	2 hr
	Laboratory	Microstrip Patch Antennas	3 hr
	Self-Study	Wave Equation: Ch. 7-2 and 7-3	3 hr
Week 11	<u>2005 - Apr - 15</u>		Wai-Yip, Tam (Dr) - COM
	Lecture	Wave equation II: Poynting vector	1 hr
	Tutorial	Wave Equations	1 hr
	Laboratory	Microstrip Patch Antennas	3 hr
	Test Quiz	Static and Time-vary Fields	1 hr
	Self-Study	Static and Time-varying Fields: Ch. 7-5	6 hr
Week 12	<u>2005 - Apr - 22</u>		Wai-Yip, Tam (Dr) - COM
	Lecture	Wave Equation III: Normal Incidence of Plane Waves at Plane Boundaries	2 hr
	Tutorial	Wave Equations	1 hr
	Homework		2 hr
	Laboratory	Microstrip Patch Antennas	3 hr
	Self-Study	Wave Equations: Ch. 7-6	3 hr
Week 13	<u>2005 - Apr - 29</u>		Wai-Yip, Tam (Dr) - COM
	Lecture	Antennas I: Elemental Electric Dipole; Antenna Patterns	2 hr
	Tutorial	Antennas	1 hr
	Laboratory	Microstrip Patch Antennas	3 hr
	Self-Study	Antennas: Ch. 10-2 and 10-3	3 hr
Week 14	<u>2005 - May - 06</u>		Wai-Yip, Tam (Dr) - COM
	Lecture	Antennas II: Thin Linear Antennas; Friis Transmission Equation	2 hr
	Self-Study	Antennas: Ch. 10-4 and 10-7	9 hr

Summary

	Tot. Hour	Tot. No.		Tot. Hour	Tot. No.
Lecture	26	0	Test/Quiz	2	0
Tutorial	9	0	Self-Study	54	0
Homework	6	0	Presentation	0	0

Lab. Session	24	0	Mini-Project /Report	0	0
Other Activities	0	0			
Grand Total Hour	121	hour(s)			

I declare that the teaching schedule has covered all the materials as stated on the detailed syllabus.