Subject Description Form

Subject Code	EE6841 – EE6843				
Subject Title	Special Topics in Advanced Fiber Optic I/II/III				
Credit Value	3				
Level	6				
Pre-requisite / Co-requisite/ Exclusion	Recommended background knowledge: Knowledge of Fiber Optic equivalent to the final year of an Honours Degree in Electrical Engineering course. Preference will be given to those who has had research or working experience in the topic chosen.				
Objectives	To provide practising electrical engineers with an opportunity to study in depth a topic in advanced fiber optic engineering and management which are important to engineers and managers.				
Intended Learning Outcomes	 Upon completion of the subject students will be able: To acquire an understanding of a selected topic in this area, up to the expertise knowledge level, through self study and guidance by the supervisor. To possess the ability of developing latest innovations and cutting edge technologies, through literature studies, simulation studies, and/or experimental studies. To be able to report and explain the above selected area of knowledge, through written and oral means. 				
Subject Synopsis/ Indicative Syllabus	To conduct an in-depth study in a particular topic in Advanced Fiber Optic. The topic content will be fixed after mutual discussion with the prospective supervisor prior to the start of the module.				
Teaching/Learning Methodology	The subject can be conducted via guided study in two modes for individual students. Mode I requires a student to take an MSc subject related to the topics of the guided study subject or a relevant short course as the basis of the guided study subject. The student will be required to participate fully in the MSc subject/relevant short course (i.e. attend all the lectures, complete both the coursework and examination requirements). To bring the subject up to the doctoral level, a student is required to submit further write-ups and presentations. An overall grade for the guided study subject is then derived from the result of the MSc subject as well as the extra writes-up and presentations. Mode II is operated for guided study subjects with no relevant MSc subject/short course available. A student is required, under the supervision of the subject supervisor, to read specified monographs, journal publications and/or a book. The student and the subject supervisor must meet once per week to discuss the progress made by the student in the subject. Courseworks in terms of literature survey reports and presentations should normally be included. At the end of the semester the student will be examined, normally both orally and in written form.				

	Teaching/Learning Method	dology	Intended subject		learning outcomes		
			1		2	3	
	Lecture & Tutorial (for mode I study only)		✓		✓	✓	
	One-to-one guided tutorial		✓ ✓			✓	
	Self study				✓		
	Software/hardware experimentation				✓	✓	
Assessment Methods in Alignment with	Specific assessment 9 weig				subject learning es to be assessed		
Intended Learning Outcomes	methods	weighting	1		2	3	
	Coursework	49	√		✓	√	
	Examination	51	✓		✓	✓	
	Total	100					
Student Study	staff and a staff member who is knowledgeable in the topic) Coursework (normally assignment and presentations) Class contact (time-tabled):						
Effort Expected						24.11	
(Mode I)	Tutorial Euroratory Truettour Classes					24 Hrs.	
(Mode 1)						15 Hrs.	
	Guided activities:						
	 Meeting with the supervisor / Presentations/ Viva examination Self-study / Preparation of reports and presentation materials 					10 Hrs.	
						56 Hrs.	
	Total student study effort				105 Hrs.		
(Mode II)	Guided activities:						
	 Meeting with the supervisor / Presentations/ Viva examination 				20 Hrs.		
	 Self-study / Preparation of reports and presentation materials 				85 Hrs.		
	Total student study effort				105 Hrs.		
Reading List and References	To be assigned by the subject lecturer.						