

## 22. Project Management (PH056IU)

Module designation	This course is developed to provide the principal concept on project management which was characterized by the project management body of knowledge guide (PMBOK Guide). This guide emphasizes the five project process groups of initiating, planning, executing, controlling and closing, and the nine knowledge areas of project integration, scope, time, cost, quality, human resources, communication, risk, and procurement management. Students will also apply all project management knowledge in a specific satellite development project to understand more about satellite life cycle via a mini project and final report. In addition, this course also provides computer aid for project management by introducing the application of Microsoft Project and project scheduling.
Semester(s) in which the module is taught	1, 2, summer semester
Person responsible for the module	Dr. Lê Xuân Huy
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, lesson, project.
Workload (incl. contact hours, self- study hours)	(Estimated) Total workload: 127.5
	Contact hours (please specify whether lecture, exercise, laboratory session, etc.): lecture: 37.5
	Private study including examination preparation, specified in hours: 90
Credit points/ECTS	3 credits/4.62 ECTS
Required and recommended prerequisites for joining the module	None



Module objectives/intended	Upon the succes able to:	ssful completion of	this course	students	will be
learning outcomes	Competency level	Course learning	outcome (C	CLO)	
	Knowledge	CLO1. Show the understanding of important aspects of project management		ortant	
	Skill	CLO2. Show the abilities of formulating, organizing and managing projects.		,	
		CLO3. Show the al	oilities of tea	am worki	ng
	Attitude	CLO4. Show the re ethics and respon managing and exe	ecognition o sibilities in ecuting proje	f professi formulati ects.	onal ng,
Content	The description of the contents should clearly indicate the weighting of the content and the level. Weight: lecture session (3 hours) Teaching levels: I (Introduce): T (Teach): II (IItilize)			he	
			Weight	Level	
	+ Course intro	duction	1	Ι	
	+ Introduction	of Project			
	management				
	+ The project life cycle and				
	organization				
	- Project mana	gement processes	1	T, U	
	for a project				
	+ Stakeholde	rs Interaction			
	+ Project Pla	nning & Control			
	Project Plannii	ng Phase	1	T, U	
	- Communication				
	- Stakeholders				
	- Scope				
	- Work breakd	own structure			
	(WBS)				
	- Resource management 1 T, U				
	+ Unitical pat	n metnoa –			
	Crasning a pro				
	+ Kesource a	nocation problem			
+ Resource lovali		auling			
	$    = \pi Resource le$	venng	1		



+ Constrained resource			
scheduling			
- Schedule management.	1	T, U	
+ Constructing the network:			
AON & AOA			
+ Gannt chart			
+ Solving the network			
- Project cost management	1	T, U	
Project budgeting & Cost			
estimation			
+ Top-Down budgeting			
+ Bottom-Up budgeting			
+ Improving the process of cost			
estimation			
- Mini project (for a pico satellite	1	T, U	
development project) - Planning			
Phase			
- Review			



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- Mini project (for a pico satellite	1	Τ, U
development project) - Planning		
Phase		
- Review		
- Risk management.	1	T, U
+ Risk management planning		
+ Risk identification		
+ Risk analysis		
+ Risk monitoring and control		
+ Using Crystal Ball software		
- Project quality management	1	T, U
+ Plan quality		
+ Perform quality assurance		
+ Perform quality control		
- Project human resource	1	T, U
management		
+ Develop human resource plan		
+ Acquire project team		
+ Develop project team		
+ Manage project team		
- Project procurement management	1	T, U
+ Plan procurements		
+ Conduct procurements		
+ Administer procurements		
+ Close procurements		
- Project control Phase.	1	T, U
+ Gather data		
+ Integrate and analyze data		
+ Access & recommendation		
actions		
+ Implementation and Monitor		
Impact.		
- Project (for a pico satellite	1	T. U
development project) closing		, -
- Presentation of term project (part		
1)		
- Presentation of term project (part	1	T. U
2)	_	1) 0
- Review		
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Examination forms	Project
Study and examination	Attendance: A minimum attendance of 80 percent is
requirements	compulsory for the class sessions. Students will be
	assessed on the basis of their class participation.
	Questions and comments are strongly encouraged.
	Assignments/Examination: Students must have more
	than $50/100$ points overall to pass this course.
Reading list	Textbooks:
	[1] A Guide to the project management body of knowledge
	(PMBOK® Guide). 4th Edition, Newtown Square, Pa.:
	Project Management Institute, Inc., 2008.
	[2] Jack R. Meredith ; Samuel J Mantel, Project
	management: a managerial approach. 7th edition,
	Hoboken, N.J.: Wiley ; Chichester : John Wiley
	[distributor], 2018.
	References:
	[3] Jason Westland, The project management life cycle.
	Kogan Page Limited, 2006.