INDUSTRIAL UNIVERSITY OF HOCHIMINH CITY

SOFTWARE ENGINEERING
(Công nghệ Phần mềm)

Total no. of credits: 3 (45 hours)
Lecturer: PhD. Nguyen Thi Hanh
Email: ngthihanh@gmail.com
LMS System: lms.iuh.edu.vn

Course's Learning Outcomes (CLO)

– **Explain** core knowledge in Software Engineering.

– **Apply** requirements acquisition knowledge to identify User Requirements and System Requirements of a Software System to be developed.

– **Apply** core knowledge in Software Engineering to identify basic solutions to solve a given problem in software development technology.

– **Design** a preliminary solution based on core knowledge in Software Engineering to meet a specific set of requirements in software development technology.

– **Solve** an IT-related situation based on legal and ethical principles in a wise manner.

Contents

- Overview about Software Engineering
- Software development process
- RE Requirement Engineering
- Analytical Models
- Interface Design
- Software Testing
- Software Quality Management

Assessment Methods

STT	CHUẨN ĐẦU RA	TK1	TK2	TK3	GK	CK	HÌNH THỨC
1	**Explain** core knowledge in software engineering.	X			X		GK, CK: tự luận
2	**Apply** requirements acquisition knowledge to identify user requirements and system requirements of a software system to be developed.		X		X		TK: tự luận / trắc nghiệm/ bài tập nhóm
3	**Apply** core knowledge in software engineering to identify basic solutions to solve a given problem in software development technology.			X	X	X	
4	**Design** a preliminary solution based on core knowledge in software engineering to meet a specific set of requirements in software development technology.					X	
5	**Solve** an IT-related situation based on legal and ethical principles in a wise manner.			X		X	

Nguyễn Thị Hạnh

Learning Materials

- [1] Roger S. Pressman, Software Engineering – A Practitioner's Approach 7th ed, Mc Graw Hill Hiher Education, 2010. **[100253510]**
- [2] Ian Sommerville, Software Engineering 9th ed, Pearson, 2011. **[100253509]**
- [3] B.B. Agarwal, S.P. Tayal, M. Gupta. - Sudbury, Mass : Jones and Bartlett; Software engineering & testing : An introduction; Hingham, 2010. **[900253495]**

Learning Materials

- Ian Sommerville's , "Software Engineering 7th Ed."
- Nhập môn công nghệ phần mềm – Trần Đình Quế
- Kiểm thử và bảo đảm chất lượng phần mềm - Thạc Bình Cường
- Phân tích và Thiết kế Hệ thống thông tin với UML - TS. Dương Kiều Hoa – Tôn Thất Hoà An
- http://www.mhhe.com/pressman