

<b>COURSE</b>	Name : ICT System and Network
	Code : EE185161
	Credit(s) : 3
	Semester : I

### Description of Course

The course of ICT Systems and Networks consists of basic theory of system, ICT system, basic of Information technology, ICT in organization, Initiating ICT system, ICT system evaluation, Computer Network and Wireless technology, Long-term ICT planning, ICT development strategy, case studies: ICT implementation in Smart City, ICT in medicine and ICT for government.

### Learning Outcomes

#### Knowledge

(P02) Mastering engineering concepts and principles to develop the necessary procedures and strategies for systems analysis and design in the areas of power systems, control systems, multimedia telecommunications, electronics, intelligent multimedia network, or telematics.

#### Specific Skill

(KK01) Being able to formulate engineering problems with new ideas for the development of technology in power systems, control systems, multimedia telecommunications, electronics, intelligent multimedia network, or telematics.

#### General Skill

(KU11) Being able to implement information and communication technology in the context of execution of his/her work.

#### Attitude

(S09) Demonstrating attitude of responsibility on work in his/her field of expertise independently.  
(S12) Working together to be able to make the most of his/her potential.

### Course Learning Outcomes

#### Knowledge

Mastering basic theory of system, ICT system, basic of Information technology, ICT in organization, Initiating ICT system, ICT system evaluation, Computer Network and Wireless technology, Long-term ICT planning, ICT development strategy, case studies: ICT implementation in Smart City, ICT in medicine and ICT for government.

#### Skill

Able to implement ICT system design, ICT system evaluation, Information Technology in Medical and governmental field and ICT blue-print planning.

### Main Subjects

1. Basic theory of system
2. ICT system and Design
3. Basics of Information Technology,
4. ICT in Organization
5. Initiating ICT system

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6. ICT system evaluation
  7. Computer Network and Wireless technology
  8. Long-term ICT planning
  9. ICT development strategy, case studies: ICT implementation in Smart City, ICT in medicine and ICT for government.

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#### Reference(s)

1. Management Information System., James A Obrien and George Marakas., 10th Edition., 2011
2. Conceptual Foundations of the Balanced Scorecard., Robert S. Kaplan., 2010
3. Internet of Things, An Overview : Understanding the issues and challenges in a more conencted world., 2015.
4. An Introduction to Wireless technology., F Ricci., 2011

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#### Prerequisite(s)

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