COURSE	Name	: e-Government and Smart City
	Code	: EE185262
	Credit(s)	: 3
	Semester	: II

Description of Course

This course is preparing student to understand the basic concept of Smart City and e-Government so that in the near future they can implmement this concept into governmental works. The course material consists of the background of e-Government and Smart City, basic prinsiple of e-Government and good governance, Sistem planning and evaluation, aspects in Good Governance (Transparancy, openess and public participation), Smart City as the implementation of e-Government, the construction of Smart City, Parameters for Smart term, Emerging data, smart power control and the role of sensors for Smart City application, Smart water management and traffic control.

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 of 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 the basic concept of e-Government and Smart City, basic prinsiple of e-Government and good governance, Sistem planning and evaluation, aspects in Good Governance (Transparancy, openess and public participation), Smart City as the implementation of e-Government, the construction of Smart City, Parameters for Smart term, Emerging data, smart power control and the role of sensors for Smart City application, Smart water management and traffic control.

Specific Skill

Able to analize and explain the most important aspects in e-Government, the implementation of tranparancy, openess and public participation in developing Smart City. Smart city as a solution for future problem such as health, environment, power system management and traffic control for human safety project.

General Skill

Able to explain the most important aspects in e-Government and Smart City, basic prinsiple of e-Government and good governance, Sistem planning and evaluation, aspects in Good Governance (Transparancy, openess and public participation), Smart City as the implementation of e-Government, the construction of Smart City, Parameters for Smart city, Emerging data, smart power control and the role of sensors for Smart City application, Smart water management, smart investment and smart traffic control in the city.

Attitude

Demonstrating attitude of responsibility on work in his/her field of expertise independently.

Main Subjects

1. History of e-Government
2. Basic prinsiple of e-Government and good governance
3. Sistem planning and evaluation
4. Aspects in Good Governance (Transparancy, openess and public participation)
5. Smart City as the implementation of e-Government
6. Design of Smart City
7. Smart parameter for A City
8. Emerging data in Smart City
9. Smart power control as one aspect in Smart City
10. Smart Building and Smart water management
11. Intelligence Traffic Control system for Smart City

Reference(s)

[1] Smart Cities Concept and Challenges: Bases for the Assessment of Smart City Projects., Andres Monzon(&) Transport Research Centre, Universidad Politécnica of Madrid, 2015.
[2] SMART CITIES READINESS GUIDE The planning manual for building tomorrow's cities today ., Smart Cities Council., 2013
[3] Smart city concept model – Guide to establishing a model for data interoperability., BSI Standards Publication., 2014

Prerequisite(s)

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