COURSE	Name	: Special Topics in Telematics
	Code	: EE185569
	Credit(s)	: 2
	Semester	: (Elective Course)

Description of Course

This course materials consist of introducing new technology and system in Telematics, including the advance knowledge on how this new technology works such as new technique for virtual operation using motion capture data, advance biometrics system, infrared technology in medicine or nano technology. Review technique regarding this new technology and its implementation is also discussed, besides reviewing new branch of sciences and its contribution to human's life.

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 the new technology and system in Telematics field, including the advance knowledge on how this new technology works such as new technique for virtual operation using motion capture data, advance biometrics system, infrared technology in medicine or nano technology. Review technique regarding this new technology and its implementation is also discussed, besides reviewing new branch of sciences and its contribution to human's life.

Skill

Able to explain the development of new technology in the field of telematics and its implementation in human's life, including the advance knowledge on how this new technology works. Able to review technique regarding this new technology and its implementation, besides reviewing new branch of sciences and its contribution to human's life.

Main Subjects

1. Technology Innovation
2. Novelty in technology (Nano technology)
3. New technology and system in Telematics
4. Advance knowledge of new technology
5. Advance biometrics system
6. Nano technology.
7. Review technique on science
8. Reviewing new branch of sciences and its contribution to human's life.

Reference(s)

[1] Advansed Materials of Micro and Nano Technology., Valeriy Skryshevsky, Anatoliy Evtukh, Valeriy Lozovski, Oleg Tretyak., Institute of High Technology, Taras Shevchenko National University of Kyiv., 2016

[2] Nanoscience Nanotechnologies and Nanophysics., C. Dupas P. Houdy M. Lahmani., Springer 2004.

[3] ADVANCES IN TELEMEDICINE: Applications in Various Medical Disciplines and Geographical Regions., Edited by Georgi Graschew and Theo A. Roelofs., Croatia, 2011.

Prerequisite(s)

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