

<b>COURSE</b>	Name	: Project Management and Safety
	Code	: EE184919
	Credits	: 3
	Semester	: Elective

### Description of Course

Project management courses and safety discuss about project initiation process, proposal, scope of work, scheduling and financing including safety in particular in the field of electricity.

### Learning Outcomes

#### Knowledge

(P04) Mastering the concepts, principles, and procedures which considers economical, social, and environment aspects in power systems, control systems, multimedia telecommunications, or electronics.

#### Specific Skill

(KK01) Able to formulate engineering problems in power systems, control systems, multimedia telecommunications, or electronics.

(KK04) Able to implement alternative solutions of engineering problems in power systems, control systems, multimedia telecommunications, or electronics by concerning in factors of economy, public health and safety, culture, social, and environment.

#### General Skill

(KU11) Able to implement sustainability principles and develop knowledge.

(KU12) Able to implement information and communication technology (ICT) in the context of implementation of his/her work.

#### Attitude

(S06) Working together and having social sensitivity and caring towards society and the environment.

(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

- Knowing the applications and requirements of electronic-based energy conversion systems in the scope of electricity systems and society in general
- Knowing the energy converter device as well as its main component

#### Specific Skill

- Able to design energy conversion systems and be able to make technical analysis of energy conversion devices

### Main Subjects

1. Overview and basics of project understanding and project management

2. Methods and procedures for making RKS, BQ, and proposal projects
3. The steps of the tender process start from bidding, anwijzing, and determining the winner
4. Calculating the percentage of project progress and making an S curve
5. Standards of work safety in electric voltage areas
6. Procedures for self-rescue, equipment used when working in a voltage area, first aid in workplace accidents
7. Arrange procedures for the sequence of work performed and understand potential hazards and their anticipation in each sequence of work

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#### Reference(s)

- [1] John M Nicholas, Herman Steyn, Project Management for Engineering, bussines and Technology, Routledge Press, 2012
- [2] Adedeji B Badiru, Step Project Management, CRC Press, 2009
- [3] JhonCadick, Mary C, Dennis K, Electrical Safety Handbook, Third Edition, Mc GRAW-HILL, 2006

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#### Prerequisite(s)

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