

TIF21-41-41

Capstone Design Project 2

Proyek Perancangan Teknologi Informasi 2

BASIC INFORMATION

Course Credit	3 / 150 minutes per Week3 / 150 minutes per Week
Course Type	RequiredRequired
Course Classification	Engineering TopicsEngineering Topics
Prerequisites	Junior Projects; Capstone Projects I

STUDENT AND LEARNING OUTCOMES

Covered Student Outcomes

Engineering Design (c)Engineering Design (c)	Data and Experiments (d)Data and Experiments (d)
Modern Tools Utilization (e)Modern Tools Utilization (e)	Multidisciplinary Teamwork (h)Multidisciplinary Teamwork (h)

Learning Outcomes

- LO1** Students are able to design Electrical Engineering solutions given a general problems
- LO2** Students are able to present the idea in adequate level of technical details
- LO3** Students are able to apply modern tools and IT in their works
- LO4** Students are able to design experiments to verify their solutions
- LO5** Students are able to compose a detailed technical report

COURSE DESCRIPTION

Compared to Proyek Junior, Senior project is aimed to give further experience for the 3rd students. In this project, students have to be able to design solutions for more difficult problems. The solution should fall within the information engineering area (i.e., not interdisciplinary area, see Proyek Perancangan Teknologi Informasi for complex interdisciplinary engineering problems). In order to perform the project well, series of assignments in the laboratories are compulsory for all students.

TOPICS

1. Introduction to engineering design
2. Project management
3. Introduction to DTETI Proyek Perancangan Teknologi Informasi

REFERENCES

- [3] J. Abarca, A.J. Bedard, D.W. Carlson, L.E. Carlson, J. Hertzberg, B. Louie, J. Milford, R. Reitsma, T. L.Schwartz and J.F. Sullivan, "Introductory Engineering Design: A Projects-Based Approach," Third Edition.
- [4] Alan D. Wilcox, Engineering Design for Electrical Engineers, 1st Edition, Pearson