Artificial Intelligence (K22B53)

Module designation	Artificial Intelligence
Semester(s) in which the module is taught	*5 / third year*
Person responsible for the module	*Ramaditia Dwiyansaputra, S.T., M.Eng.*
Language	*Indonesian*
Relation to curriculum	*Compulsory*
Teaching methods	*Lectures, Discussions, Quiz, Project*
Workload (incl. contact hours, self- study hours)	Contact Hours every week, each week of the 16 weeks/semester including Evaluation ● 3 x 50 minutes lecturer/week ● 2 x 60 minutes class exercise/week ● Self Study hours = 180 minutes/week Total workload 450 minutes/week
Credit points	*3 (~ 4,8 ECTS)*
Required and recommended prerequisites for joining the module	Probability and statistic.
Module objectives/intended learning outcomes	In this course, students are expected to be able to: • Understand the concept of intelligent agents and their utilization • Understand a variety of intelligent search strategies to solve problems • Understand the concept of utilizing expert systems • Understand information processing systems that have properties such as human intelligence that are able to learn independently
Content	This course provides students with knowledge, design, and analysis about artificial intelligence techniques how to apply the techniques to solve certain cases. This course contains important topics such as intelligence agent, intelligence search, rule base expert system, fuzzy logic, uncertainty, and basic algorithm of machine learning.
Examination forms	*Assignments, Quiz, Simulation, Project*