

Course: Decision Making System						
module/course code IAB69037		Student workload X hours 510 Minutes / Week	Credits (ECTS) 4.53 ECTS	Semester 6	Frequency Even Semester	Duration X semester(s) 1x / Semester
		Types of Tutorial/Lecture/Response	Contact hours : 150 Minutes / Week		Independent study 360 Minutes / Week	Class size X students 30 students
1	Prerequisites for participation (if applicable) -					
2	Learning outcomes 1. students are able to explain the scope of decision making in business organizations 2. students are able to apply decision making using DSS 3. students recognize the various risks that arise from the decision-making process					
3	Description: Decision Making System is a course that aims to provide students with an understanding of decision making in the business world which emphasizes the use of technology as a decision-making tool. The emphasis of the Decision Making System course is on 3 things, namely, forecasting, AHP and also DSS.					
4	Subject aims/Content 1. general introduction of DSS 2. DSS processes and components 3. Decisions and decision makers 4. Decision theory and simple methods 5. Decisions in organizations 6. Modeling decision process 7. Introduction to management science models 8. Introduction to linear and integer programming models 9. Application to linear and integer programming models 10. Introduction to simulation 11. Discrete event simulation as DSS application 12. Introduction to intelligent systems 13. Rule based expert systems 14. Review					
5	Teaching methods 1. Lectures 2. Discussions 3. Group Works					

6	<p>Assessment methods</p> <ol style="list-style-type: none"> 1. Task 2. Mid-Term Exam 3. Final-Term Exam 4. Quiz
7	<p>Other information e.g. bibliographical references</p> <ol style="list-style-type: none"> 1. Marakas, George M., Decision Support Systems in the 21st Century, 2nd Edition, Prentice Hall, 2003 2. Sprague, Ralph, H & Hugh, J. Watson, Decision Support Systems, Prentice Hall, Inc., 1993 3. Turban, Efraim & Aronson, Jay E., Decision Support Systems and Intelligent Systems, 8th edition, Prentice Hall, Upper Saddle River, NJ, 2007 4. Fahmi, Ilham. 2013. Manajemen Pengambilan Keputusan. Alfabeta: Bandung