Elective Course Handbook Bachelor Program of Information Technology Education Computer Science Faculty, Universitas Brawijaya

Decision Support System

		Decision Suppor					
				Compation	En e en en en	Dunation	
	se Code: 060015	Student Workload: 8.50 Hours/ Weeks	Credits: 3 Credits (4.50 ECTS)	Semester: 7 th Semester	Frequency Odd Semest	er 16 Weeks/ Semester (<i>Lecture</i> : 14 weeks; <i>Midterm</i> <i>assessment</i> : 1 week; <i>Final</i> <i>assessment</i> : 1	
-	-	60		 		week)	
1	Content Knowledge Course		C ontact Hours: Lecturing: 2.50 Hours Veek; Practical Work Hours/ Week	s/ Self-study k: 0.00 Week; Str	3.00 Hours/	Class Size: 40 Students	
2	Prerequisites for Participation (If Applicable):						
	1. Ar						
		Data Mining					
4	 Learning Outcomes: M1: Able to explain basic concepts, examples, and application of decision support systems (ILO-4) (0,3) M2: Able to explain the components and basics of decision support system design (ILO-7) (0,2) M3: Able to develop small-scale modeling and applications through decision support system algorithms (ILO-8) (0,3) M4: Able to explain current and future decision support system development-related topics and challenges (ILO-10) (0,2) Subject aims/Content: At the end of the course, students are expected: L1: Able to explain the basic concepts and techniques of decision-making systems (M1) L2: Able to explain the components of a decision support system (M2) L3: Able to build solutions that can be solved using Weighted Product, Fuzzy Inference System, and Analytic Hierarchy Process (M3) approaches L4: Able to build solutions that can be solved using the Simple Additive Weighting approach, K-Nearest Neighbor with Fuzzy Inference System, and Group Decision Support Vector Machine (M3) L5: Able to adopt current and future decision support system-related implementation 						
5	challenges (M4) Teaching Methods:						
Ĩ	Lecturing, Group Discussion, Case-Based Learning						
6	Assessment Methods:						
ľ			Performance Test, Pe	er Assessment			
7		This Course is Used in The Following Study Programme/s as Well: -					
8	Responsibility for Course: Dr.Eng. Fitra Abdurrachman Bachtiar, S.T., M.Eng. Satrio Hadi Wijoyo, S.Si., S.Pd., M.Kom.						
9	Bibliogr 1. Ma Pro 2. Tu	urakas, George M entice-Hal. rban, Efraim & A	. 2003. Decision Sup ronson, Jay E. 2007. all, Upper Saddle Riv	Decision Suppor	-	r, 2nd Edition, ntelligentSystems, 8th	