

UNIVERSITAS MATARAM

(University of Mataram)

FAKULTAS TEKNIK

(Faculty of Engineering)

PROGRAM STUDI TEKNIK INFORMATIKA

(Department of Informatics Engineering)

MODULE HANDBOOK DESCRIPTION

Interaction Engineering (P22C11)

	interaction Engineering (P22C11)
Module designation	Interaction Engineering
Semester(s) in which the module is taught	5 / third year
Person responsible for the module	Noor Alamsyah, S.T., M.T.
Language	Indonesian
Relation to curriculum	Compulsory
Teaching methods	Lectures, Discussions, Case Studies, Practical Assignments
Workload (incl. Contact hours, selfstudy hours)	Contact Hours every week, each week of the 16 weeks/semester including Evaluation • 2 x 50 minutes lecturer/week • 120 minutes class exercise/week • Self Study hours = 120 minutes/week • Midterm Exam = 60 minutes • Final Exam = 60 minutes Total workload 81,33 hours/semester
Credit points	2 (~ 3,25 ECTS)

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Required and	-
recommended	
prerequisites for	
joining the module	
Module	When we discuss the interaction between systems and humans,
objectives/intende d learning outcomes	we are essentially talking about how humans themselves
	typically interact. Referring to Abraham Maslow's hierarchy of
	needs, four out of five levels of human needs demonstrate how
	humans interact: Security Needs: Users expect systems to be
	safe, reliable, and trustworthy Belongingness Needs: Systems
	should foster social interactions, personalization, and
	engagement. Esteem Needs: Interfaces should provide users
	with a sense of accomplishment, recognition, and feedback.
Contont	Introduction to Interaction Engineering
Content	2. Human-Centered Design
	3. Psychological and Cognitive Aspects of Interaction
	4. User Experience (UX) and Usability Testing
	5. Multimodal and Advanced Interaction Techniques
	6. Designing for Security and Trust7. Interaction Prototyping and Development
	Social and Collaborative Interactions
	9. Human-Al Interaction and Automation 10. Final Project
Examination forms	Assignments, Quizzes, Case Studies, Final Project
Study and	Assignments: 15%
examination	Quizzes: 20%
requirements	Case Studies: 30%
'	Final Project: 35%
Reading list	1. Norman, D. (2013). The Design of Everyday Things (Revised
	Edition). MIT Press.
	2. Krug, S. (2014). Don't Make Me Think, Revisited: A Common
	Sense Approach to Web Usability. New Riders.
	3. Nielsen, J. (2020). Usability Engineering. Morgan Kaufmann.
	4. Garrett, J. J. (2010). The Elements of User Experience:
	User-Centered Design for the Web and Beyond. New Riders.
	5. Hassenzahl, M., & Tractinsky, N. (2006). User Experience – A
	Research Agenda.