

Course Code	TKIT163213											
Course Name	Wireless and Mobile Computing											
Course Instructors	-											
Course Type	Selected Elective											
Course Classification	Engineering Topics											
Credit / Contact Hour per Week	3 / 150 minutes per Week											
Course Description	This course discusses the principle of mobile computing with regard to communication, transmission and wireless networks. The material is divided into four major themes: (1) the basic concept of mobile computing and its problems, (2) wireless and mobile networks, (3) wireless and mobile communications and (4) mobile communication protocols											
Prerequisites Courses	Distributed System (TKIT163106)											
Covered Student Outcome	Development of Engineering Solution (b) Modern Tools Utilization (e) Engineering Awareness and Society (j)											
Learning Outcome												
		Study Program Student Outcome										
No	Learning Outcome	SO (a) – SO (k)										
1.	Able to develop mobile computing based applications	Engineering Awareness and Society										
2.	Able to use technical related concepts and paradigms of moving koputasi	Modern Tools Utilization										
3.	Able to develop ad hoc networks on applications or algorithms or protocols on mobile computing	Development of Engineering Solution										
Topic	<ol style="list-style-type: none"> 1. Introduction to mobile computing 2. Mobile computing communication 3. Wireless and mobile network principle 4. Mobile communication protocols 											
Direct Asessment	<table border="1"> <thead> <tr> <th>Direct Asessment Plan</th> <th>Measured Learning Outcome</th> </tr> </thead> <tbody> <tr> <td>Mid-term exam</td> <td>LO1</td> </tr> <tr> <td>Final Exam</td> <td>LO2, LO3</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>		Direct Asessment Plan	Measured Learning Outcome	Mid-term exam	LO1	Final Exam	LO2, LO3				
Direct Asessment Plan	Measured Learning Outcome											
Mid-term exam	LO1											
Final Exam	LO2, LO3											
Indirect Assesment	Questionnaire (EDOM)											
References	[1] Raj Kamal, "Mobile Computing", Oxford University Press, 2007, ISBN: 0195686772. [2] Mobile Computing Hand Book											