



**MODULE HANDBOOK DESCRIPTION**

Module designation	<i>Engineering Economics</i>	
Code	<i>FBS2236</i>	
Semester(s) in which the module is taught	<i>6/third year</i>	
Person responsible for the module	<i>Dr.Rosmaliati, S.T., M.T.</i>	
Language	<i>Indonesian</i>	
Relation to curriculum	<i>Compulsory</i>	
Teaching methods	<i>lectures, small group discussion, case base method.</i>	
Workload (incl. contact hours, self-study hours)	Contact minutes every week, each week of the 16 weeks/semester: <ul style="list-style-type: none"> <li>• Lectures (incl. on-site lectures): 2 x 50 minutes</li> <li>• Exercises and Assignments: 2 x 60 minutes</li> <li>• Self-study: 2 x 60 minutes.</li> </ul> Total study hours = 5 hours 40 minutes/week.	
Credit points	<i>2 SKS (~ 3.2 ECTS)</i>	
Required and recommended prerequisites for joining the module	-	
Module objectives/intended learning outcomes	<i>1. Students are able to explain the concept of engineering economics.</i>	<i>P2</i>
	<i>2. Students are able to calculate the mathematics of money in technical economics.</i>	<i>P3</i>
	<i>3. Students are able to implement depreciation methods and compare investment feasibility.</i>	<i>P3, P8</i>
	<i>4. Students are able to analyze and compare alternative choices.</i>	<i>P3, P8</i>
	<i>5. Students are able to plan a complete feasibility example project.</i>	<i>P8</i>
	<i>6. Students are able to create network planning.</i>	<i>P8</i>

Content	<i>This course includes : the definition and development of Engineering Economics (Techno-Economics), several applied mathematics theories on interest rates, including: Discount Factor, Compounding Factor, Cash Flow, Net Present Value, Internal Rate of Return, Benefit Cost Ratio, Break-Even Point, and Network Planning</i>
Examination forms	- <i>Written and oral case study</i> - <i>Midterm and final test</i>
Study and examination requirements	<i>The final grade in the module is composed of:</i> a. <i>Case assessment: 2 x 30% = 60%</i> b. <i>Midterm assessment: 20%</i> c. <i>Final assessment: 20%</i> <i>Students must have a final grade of 65% or higher to pass</i>
Reading list	1. <i>Ekonomi Teknik (Konsep, Teori dan Aplikasi). Dr.Ir. Waldiyono, MS. Penerbit Pustaka Pelajar, Yogyakarta. 2008.</i> 2. <i>Studi Kelayakan Proyek (Teori dan Praktek). Siswanto Sutojo. PT. Pustaka Binaman Presindo, 1991.</i>