

Module Description

MPKP 302 Industrial Management

Module Name	Industrial Management
Module Level, if applicable	Undergraduate Programme
Code, if applicable	MPKP 302
Subtitle, if applicable	-
Course, if applicable	-
Semester (s) in which the module is taught	6 th Semester
Module Coordinator (s)	Tri Wahyudi, ST, MT
Lecturer	Tri Wahyudi, ST, MT
Language	Bahasa Indonesia
Relation to curriculum	Elective course for the undergraduate programme in Chemistry
Type of teaching, contact hours	Decide teaching/training components for each course outcome <ul style="list-style-type: none"> ● Theory/face-to-face lecture (for understanding): 6 lecture meetings ● Seminar/presentation (for communication skills):4 ● Problem: 2 ● Assignments: 2
Workload	(Estimated) Total workload: 2 x 2,83 hours = 5,66 hours per week. Contact hours (lecture): 2 x 0,83 hours = 1,66 hours per week Private study including examination preparation, specified in hours: 2 x 2 hours = 4 hours per week 2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 80 total hours
Credit Points	2 (3.36 ECTS)
Requirements according to the examination regulations	Registered in this course Minimum 75% attendance in this course
Learning goals/competencies:	Intended Learning Outcomes (ILO) After taking this course, students will be able to:

	<ul style="list-style-type: none"> ● ILO- 1
Module objectives	<ul style="list-style-type: none"> ● Students are able to overview the development of industrial engineering and the concept of industrial thought in the era of World War. ● Students are able to understand the introduction to industrial management, the implementation of optimisation and simulation. ● Students are able to describe the production/operation system and control planning. ● Students are able to master the principles of ergonomics and management as well as organisational science. ● Students are able to understand the scientific scope of Industrial Management. ● Students are able to review problem-solving techniques both in industrial problems and in writing scientific papers in the field of industrial management.
Content	<ul style="list-style-type: none"> ● History of the development of industrial engineering science, the development of the concept of thinking and technology from the era of World War II ● Body of knowledge of industrial engineering, optimisation and simulation modelling ● Production/operation system, planning and control ● Ergonomics and design of work systems, Management and organisational science. ● The scope of the profession and science of Industrial Engineering in the field of the service industry. ● Review Journal I: Industrial management, basic concepts of industrial management, industrial cluster, criteria for selecting products/techniques in the industry, Industrial development policy, industrial development program. ● Review Journal II. Interaction between the Company and the Environment, Identification of Industrial and Environmental Characteristics, Creative Industries.
Attribute Soft skill	Discipline, collaboration, responsibility, and argumentation in the natural classroom setting
Recommended prerequisites	-

Study and examination requirements and forms of examination	<p>Students are considered to be competent and pass if they get at least 50% of the maximum final grade. The final grade (NA) is calculated based on the following :</p> <table border="1" data-bbox="619 327 1171 656"> <thead> <tr> <th>Assessment Components</th> <th>Percentage Contribution</th> </tr> </thead> <tbody> <tr> <td>Participation</td> <td>10%</td> </tr> <tr> <td>Assignment</td> <td>20%</td> </tr> <tr> <td>Mid-semester test</td> <td>35 %</td> </tr> <tr> <td>Final semester test</td> <td>35%</td> </tr> <tr> <td>Total</td> <td>100%</td> </tr> </tbody> </table> <p>Essay form: Examination Performance Assessment: presentation and Journal review</p>	Assessment Components	Percentage Contribution	Participation	10%	Assignment	20%	Mid-semester test	35 %	Final semester test	35%	Total	100%
Assessment Components	Percentage Contribution												
Participation	10%												
Assignment	20%												
Mid-semester test	35 %												
Final semester test	35%												
Total	100%												
Learning Methods	Small group discussion, Case-Based Teaching Method												
Media employed	Whiteboard, PowerPoint presentation, and e-learning system												
Reading list	<ul style="list-style-type: none"> ● Maynard, B. H., & Zandin, B. K. (Ed.) (2004). Maynard's Industrial Engineering Handbook (5th ed.). McGraw-Hill Professional. ● Arman Hakim Nasution. (2006). Manajemen Industri. Andi Offset. Indonesia ● Bridger, R. S. (2003). Introduction to ergonomics. London; Taylor & Francis. ● Fogarty, Donald W., John H. B. and Thomas R. H. (1991). Production & Inventory Management, South-Western Publishing Co., Ohio. ● Salvendy, G. (E.d). (2001). Handbook of Industrial Engineering: Technology and Operations Management (3rd ed.). John Wiley & Sons. ● Simchi-Levi, David. (2000). Designing and managing the supply chain: concepts, strategies, and case studies. Irwin/McGraw-Hill. ● Taylor, G. Don. (2008). Introduction to Logistics Engineering. CRC-Press. ● Muyadi Nitisusastro., Kewirausahaan & Manajemen Usaha Kecil, Bandung: Alfabeta, 2010 ● Nofiandri., Manajemen Praktis UKM dan Koperasi, UNRI Press, 2003. ● Zimmerer., Kewirausahaan dan Manajemen Usaha Kecil, Jakarta: Salemba Empat, 2007 												

