
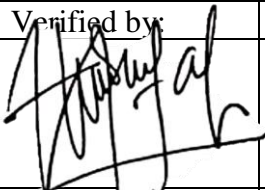
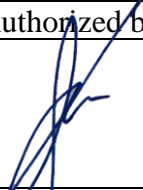




Faculty of Natural Sciences and Mathematics
Chemistry Department
Chemistry Education Study Program

Module Name		Chemical Process Industry		
Module level, if applicable		3 st year		
Code, if applicable		SPK-652		
Semester (s) in which the module is taught		6 st semester		
Person responsible for the module		Prof. Riyanto, M.Si., Ph.D		
Lecturer(s)		Muhaimin, M.Sc. M. Miqdam Musawwa, M.Sc.		
Language		English- Indonesia		
Relation to curriculum		Compulsory		
Types of teaching and learning	Class size	Forms of active participation	Workload: 91 hours	
Lecture and discussion	50 – 60	Collaborative discussion, presentation	Lecture: 100 (min) x 16 (meeting)	27 hours
			Assignment: 120 (min) x 16 (week)	32 hours
			Independent study: 120 (min) x 16 (week)	32 hours
ECTS credit		3.25		
Credit points		2 SCU		
Requirements according to examination regulations		Minimum attendance at lectures is 75% (according to UII regulation)		
Recommended prerequisites		N/A		
Related course		Instrumental Chemistry		
Module objectives/intended learning		<p>On successful completion of the course students should be able to:</p> <ol style="list-style-type: none"> 1. have knowledge of basic chemical industrial processes 2. have the spirit of entrepreneurship in the field of small to medium-scale chemical industry 3. has responsibility for the development of chemical industry products based on national industrial raw materials 4. have knowledge about the use of potential industrial resources in a professional manner 		
Content		<ul style="list-style-type: none"> • The role of water as an industrial material and its 		

	processing <ul style="list-style-type: none"> • Chemical conversion • Evaluation of factory establishment • Types of industrial products • Industrial product manufacturing process 															
Study and examination requirements and forms of examination	Final score (NA) is calculated as follows:															
	<table border="1"> <thead> <tr> <th>Intended learning outcomes</th> <th>Weight (%)</th> <th>Technique of assessment</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>25</td> <td>Written test: assignment, midterm</td> </tr> <tr> <td>2</td> <td>25</td> <td>Written test: assignment, midterm</td> </tr> <tr> <td>3</td> <td>25</td> <td>Written test: assignment, final examination</td> </tr> <tr> <td>4</td> <td>25</td> <td>Written test: assignment, final examination</td> </tr> </tbody> </table>	Intended learning outcomes	Weight (%)	Technique of assessment	1	25	Written test: assignment, midterm	2	25	Written test: assignment, midterm	3	25	Written test: assignment, final examination	4	25	Written test: assignment, final examination
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	2	25	Written test: assignment, midterm													
3	25	Written test: assignment, final examination														
4	25	Written test: assignment, final examination														
Media employed	Power point slide presentation, video, Google classroom															
Reading lists	<ol style="list-style-type: none"> 1. Romagnoli, J.A., and Palazoglu, A., 2012, Introduction to Process Control, Second Edition (Chemical Industries), CRC Press. 2. Chandrasekaran, V.C., 2009, Tank Linings for Chemical Process Industries, Smithers Rapra Press. 3. Felder, R.M., Rousseau, R.W., and Huvad, G.S., 2009, Elementary Principles of Chemical Processes, 3rd ed., John Wiley & Sons Inc. 4. Stephenson, R.M., 1996, Introduction to the Chemical Process Industries, Van Nostrand, Reinhold, Holland. 															

Prepared by:	Verified by:	Authorized by:
		
Person responsible for the module	Student representative	Coordinator Program