



Module Description Application of Analytic Chemistry and Organic Chemistry

Module designation	Application of Analytic Chemistry and Organic Chemistry			
Module code	23G03110602			
Semester(s) in which the module is taught	2 nd semester			
Person responsible for the	❖ Prof. Dr. Ir. Meta Mahendradatta			
module (lecturers)	❖ Dr. rer.nat. Ir. Zainal, STP., M.Food.Tech.			
Language	Indonesian language			
Relation to curriculum	Compulsory course			
Teaching methods	Laboratory practice			
Workload	Total workload (estimated): 91 hours of practicum			
Credit points	2 credit points = 3.24 ECTS			
Required and recommended prerequisites for joining the module				
Module objectives/ Intended Learning Outcomes (ILO)	ILO 3. Demonstrates effective communication of scientific knowledge both verbally and in written form, adhering to academic and professional standards (S) ILO 5. Applies the principles of food science and technology, statistics, and computer science to implement good manufacturing practices in food industry management (C2)			
	CLO 1. Students can practically practice analytical chemistry concepts CLO 2. Students can practically practice organic chemistry concepts CLO 3. Students can organize and collaborate with teams in practicing analytical chemistry and organic chemistry concepts			
Content	 Analytical chemistry classic method Analytical chemistry instrumentation method Organic chemistry 			
Examination form	Writing (essay)			



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Study and examination	Examination requirements: Attendance above 80%			
requirements	·			
	❖ Final Report of Practicum: 70%			
	❖ Midterm exam: 15%			
	❖ End of semester exam: 15%			
	Grading:			
	Numerical range	Letter grade	Conversion value	
	85 - 100	A	4.00	
	80 - < 85	A-	3.75	
	75 - < 80	B+	3.50	
		В+		
	70 - < 75 65 - < 70	В-	3.00 2.75	
	60 - < 65	C+	2.50	
	50 - < 60	C	2.00	
	40 - < 50	D	1.00	
	< 40	F	0.00	
	If student(s) receives(s) a score below 40, student(s) must retake the course			
Reading list				
Neading list	1. Belitz, HD. W. Grosch und P. Schieberle, 2001. Lehrbuch der Lebensmittelchemie, Springer-Verlag, Berlin,			
	Heidelberg, New York. 2. Potter, N.N. and J.H.Hotchkiss, 1998. Food Science, 5th Ed. Springer Science+Business Media, Inc., New York. 3. Schwedt, Georg., 2005. Taschenatlas der Lebensmittelchemie. Wiley-Vch Verlag, Weinheim.			
		Walstra, P. Physical Chemistry of Foods. 2003. Marcell		
	Dekker, Inc. New York			
	5. Kusnandar, F. 2010. Food Analysis. IPB Press.			
	6. Fessenden R. J and Fessende J. S., Organic Chemistry. Third			
	edition. Editor: Aloysius H. Erlangga Publisher, 1982			
	7. Paula Y.B., Organio	Paula Y.B., Organic Chemistry. Pearson Education. 2017		
	8. Jonathan C., Nick G., and Stuart W., Organic Chemistry.			
Oxford University Press. 2012				
	G., and Peter S., Fo	, and Peter S., Food Chemistry.		
	Springer. 2009			
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