

Module Handbook

Module Name	Food and Agricultural Products Analysis				
Module Level	Higher Diploma				
Code, if applicable	VKT742				
The subtitle, if applicable	-				
Courses, if applicable	-				
Semester(s) in which the module is taught	Odd semester				
A person responsible for the module	Yuli Rohyami, M.Sc.				
Lecturer	Yuli Rohyami, M.Sc.				
Language	Bahasa Indonesia				
Relation to curriculum	Elective				
Type of teaching, contact hours	Student active learning and project based learning: (1) face to face: student active learning; (2) structure activities: project based learning; (3) independent study (4) exam: 6.47 hours x 16 weeks per semester				
Workload	Total Workload		91 hours; 2 CU		
		Face to face	Structure activities	Independent study	Exam
	Hours	24	28	28	11
Credit Points	2 CU/3.37 ECTS				
Requirements according to the examination regulations	75% minimum requirements of attendance				
Recommended prerequisites	-				
Module objectives/intended learning outcomes	<p>PLO 5: Able to contribute to solving problems in the scope of work. Subject LO:</p> <ol style="list-style-type: none"> 1. Students are able to apply principles of sample analysis methods for foodstuffs and agricultural products 2. Students are able to describe and analyze samples of food and agricultural products both instrumental and non-instrumental according to their characteristics 3. Students are able to respond, solve, and overcome problems related to food and agricultural products 				
Content	<ol style="list-style-type: none"> 1. Food safety standards (AOAC, HACCP) 2. Food sampling strategy 3. Water analysis 4. Analysis of carbohydrates 5. Protein analysis 6. Fat analysis 7. Vitamin analysis 8. Ash and mineral analysis 9. Metabolite material analysis 10. Analysis of food additives and food contamination 				

Study and examination requirements and forms of examination	Subject LO	Examination requirements and forms of examination	Percent
	1	Quizzes, assignment, midterm exam, final exam	40
	2	Quizzes, assignment, midterm exam, final exam	30
	3	Quizzes, assignment, midterm exam, final exam	30
Media employed	Google classroom, youtube, zoom meeting, google form, google doc		
Reading list	<ol style="list-style-type: none"> 1. Apriyantono, A., Dedi F., Ni Luh P., Sedar N., Slamet B., 1989, Analisis Pangan, Departemen Pendidikan dan Kebudayaan, Direktorat Jenderal Pendidikan Tinggi, Pusat Antar Universitas Pangan dan Gizi, Institut Pertanian Bogor 2. Charley, H., Weaver, C., 1998, Foods, A Scientific Approach. Prentice-Hall, Inc., New Jersey 3. deMan, J.M., 1999, Principles of Food Chemistry, Aspen Publishers, Inc. Gaithersburg, Maryland 4. Fennema, O.R., 1996, Food Chemistry, Marcel Dekker, Inc., New York 5. Meyer, L.H. (1973). Food Chemistry, Reinhold Corporation , New York 6. Pomeranz, Y, Meloan, C.E., 1994, Food Analysis : Theory and Practice 3rd Ed., Chapman and Hall, New York 7. Sudarmadji,S., Haryono, B., 1997, Suhardi, Prosedur Analisis untuk Bahan Makanan dan Pertanian, Liberty, Yogyakarta 8. Winarno, F.G., 1997. Kimia Pangan dan Gizi. PT Gramedia, Jakarta 		