



Diponegoro University
Faculty of Science and Mathematics
Undergraduate Program Of Chemistry

Module designation	Organic Chemistry 3 (K03)
Semester(s) in which the module is taught	4
Person responsible for the module	Dra. Dewi Kusriani, M.Si
Language	Indonesian
Relation to curriculum	Compulsory /elective/ specialisation
Teaching methods	Lecture
Workload (incl. contact hours, self-study hours)	Face to face : 1 x (2 x 50 min); Structured study: 1 x (2 x 60 min); Self study: 1 x (2 x 60 min)
Credit points	2
Required and recommended prerequisites for joining the module	K02
Module objectives/intended learning outcomes	Able to explain (C1) and understand (C2), apply (C3), and analyze (C4) oxidation, reduction, and substitution reactions on aromatic compounds, carbohydrates, lipids, amino acids, and proteins.
Content	<ol style="list-style-type: none">1. Aromatic polycyclic compounds2. Heterocyclic aromatic compounds3. Pericyclic Reaction4. Dyes5. Discussion6. Carbohydrates7. Lipids8. Phospholipids9. Amino acids10. Protein
Exams and assessment formats	Mid-Semester Exam and Final Exam

Study and examination requirements	Participatory Activities 20% Project Results 30% Task 10% Quiz 10% Mid-semester 15% Final exams 15%
Reading list	<ol style="list-style-type: none"> 1. Allinger, N.L., Cava, M.P., Jongh D.C., Johnson, C.R., Lebel, N.A and Stevens, C.L., 1976, "Organic Chemistry" Worth Publishers, Inc, U.S.A. 2. Fessenden, R.J and Fessenden, J.S., 1989. " Kimia Organik" alih bahasa Pudjaatmaka,A.H., jilid II, edisi ke tiga, Erlangga, jakarta. 3. Jacqueline I. Kroschwitz and Melvin Winokur, 1990, Chemistry : General Organic Biological, 2nd Edition, McGraw-Hill Publishing Company, New york. 4. McMurry, John, 1988 " Organic Chemistry", Brooks/Cole Publishing Company, California. 5. Solomon, 1988, "Organic Chemistry" John Willey & Sons, New York. 6. Sumardjo, damin, "Pengantar Kimia: Buku Panduan kuliah Mahasiswa Kedokteran dan Program Strata I Fakultas Bioeksakta" 2009 EGC, Jakarta. 7. Volhardt, K.P.C., 1994, " Organic Chemistry" , W.H Freeman and Co, New York