

COSMETICS FORMULATION

Module designation	<i>Cosmetics Formulation</i>
Semester(s) in which the module is taught	1
Person responsible for the module	<ol style="list-style-type: none"> 1. Prof. Dr. apt. Widji Soeratri, DEA (Course Coordinator) 2. Prof. Dr. apt. Tristiana Erawati M., M.Si. 3. Prof. Dr. apt. Noorma Rosita, M.Si
Language	<i>Bahasa Indonesia</i>
Relation to curriculum	<i>Compulsory / elective / specialisation</i>
Teaching methods	<i>lecture, discussion, assignment</i>
Workload (incl. contact hours, self-study hours)	<i>(Estimated) Total workload: Contact hours (structured activities.): 90,67 hours Private study including independent learning activities: 90,67 hours</i>
Credit points	<i>2 SCU / 6 ECTS</i>
Required and recommended prerequisites for joining the module	NA
Module objectives/intended learning outcomes	<p>Students are:</p> <p>LO1: Able to realize excellence based on religious morals (excellence with morality), able to work together, and show a responsible attitude to work in their field of expertise independently</p> <p>LO2: Able to internalize the spirit of independence, struggle, and entrepreneurship</p> <p>LO9: Able to carry out molecular manipulation of substances and develop formulations and manufacturing of pharmaceutical preparations with active pharmaceutical ingredients derived from natural products and synthetic compounds through the manufacture of polymorphs, nanoparticles, solid dispersions</p>
Content	<p>This lecture discusses about:</p> <ol style="list-style-type: none"> 1. Principles of cosmetic preparations, 2. The purpose of using cosmetics, 3. Formulation (principle of formulation, polymer, surfactant, preservative), 4. Manufacturing of cosmetic preparations (equipment selection, manufacturing process determination, scale-up)
Exams and assessment formats	<i>Final exam (100 minutes), Presentations (100 minutes), take-home written assignments</i>
Study and examination requirements	<i>the final grade in the module is composed of 40% performance on final exams, 25% presentations, 25% take-home assignments, and 10 % in-class participation and soft-skills assessment. Students must have a final grade of 70% or higher to pass</i>

Reading list	<ol style="list-style-type: none">1. Balsam, Sagarin, 1972, Cosmetics Science and Technology, Willey Interscience, New York.2. Barry, Brian W. 1983. Dermatological Formulations. New York: Marcel dekker, Inc.3. Breuer, M.M., 1980, Cosmetic Science, Vol 2, Academic Press, London.4. Magdassi S., Touitou E., 1999. Novel Cosmetic Delivery System, Marcel Dekker Inc, New York.p 1-331.5. Mitsui, Takeo. 1993. New Cosmetic Science. The Netherlands: Elsevier Science B.V.6. Wilkinson J.B., Moore R.J., 1982, Harry's Cosmetology 7th Ed, Chemical Publishing Company Inc., New York Wade Ainley, 1980. Pharmaceutical Handbook 19" Ed.The Pharmaceutical Press. London.
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