**Module Handbook**

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| Module Name: | Semisolid Preparation Pharmaceutics |
| Module Level: | Bachelor |
| Abbreviation, if applicable: | Lecture FAF211 |
| | Practical Work FAF209 |
| Sub-heading, if applicable: | |
| Courses included in the module, if applicable: | |
| Semester/term: | 2 / Third year |
| Module coordinator(s): | Dra. Noorma Rosita, M.Si. |
| Lecturer(s): | Prof. Dr. Widji Soeratri, DEA |
| | Dra. Esti Hendradi, MSi., PhD., Apt |
| | Dra. Tutiek Purwanti, MSi., Apt |
| | Dr. Tristiana Erawati, MSi., Apt |
| | Dewi Melani Haryadi, SSi, M.Phil., PhD., Apt |
| Language: | Bahasa Indonesia |
| Classification within the curriculum: | Compulsory Course/~~Elective Studies~~ |
| Teaching format/class hours per week during the semester: | Lecture<br>100 minutes lectures, 13 lecture classes/semester |
| | Practical Work<br>200 minutes practical work classes, 13 practical work classes /semester |
| Workload: | Lecture<br>Total 22 hours a semester |
| | Practical Work<br>Total 43 hours a semester |
| Credit Points: | Lecture<br>2 |
| | Practical Work<br>2 |
| Requirements: | Physical Pharmacy Course (FAF201) and Practice (FAF206), Pharmaceutics (Solid dosage forms) Course (FAF202) and Practice (FAF207), Pharmaceutics (Liquid dosage forms) Course(FAF203) and Practice (FAF208) |
| Learning goal/competencies: | Knowledge<br>– To understand the concept of Pharmaceutics (Semisolid dosage forms) |
| | Skills<br>– Discipline, empathy, communication, honesty, thoroughness, teamwork, tolerance, initiative, leadership, accurate decision-making |
| | Competence<br>– Able to plan the formulation of semisolid dosage forms (gel, ointment, cream, paste, and suppository) and its development on laboratory scale considering the safety, effectivity, acceptability, and stability aspect of the product<br>– Able to make non-sterile semisolid dosage forms (gel, emulgel, ointment, cream from chemical or |

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| | natural ingredients) on laboratory scale based on formulation plan considering the safety, effectivity, acceptability, and stability aspect of the product |
| Content: | Lecture<br>Formulation of semisolid dosage forms (gel, ointment, paste, cream, suppository) and its development. |
| | Practical Work<br>Planning (Journal-making which include: Preformulation, formulation, producing, production tools, evaluation, and packaging), group discussion, formula optimation, making the chosen dosage forms, evaluation, packaging, and seminar about some types of semisolid dosage forms (Cream, gel, ointment)<br>This practice will be on block system, after the course finished (half of the semester) |
| Study/exam achievements: | Lecture<br>Student are considered to be competent and pass if at least get 50% of maximum mark of the exams based learning.<br><br>Final score (NA) is calculated as follow :<br>45% Exam I + 45% Exam II + 10% Soft skill<br><br>Final index is defined as follow :<br>A : 100 > NA > 75<br>AB : 75 > NA > 70<br>B : 70 > NA > 65<br>BC : 65 > NA > 60<br>C : 60 > NA > 55<br>D : 55 > NA > 50<br>E : 50 < NA |
| | Practical Work<br>Student are considered to be competent and pass if at least get 50% of maximum mark of the exams based learning.<br><br>Final score (NA) is calculated as follow :<br>50% Daily practice + 30% Exam + 20% Seminar<br><br>Final index is defined as follow :<br>A : 100 > NA > 75<br>AB : 75 > NA > 70<br>B : 70 > NA > 65<br>BC : 65 > NA > 60<br>C : 60 > NA > 55<br>D : 55 > NA > 50<br>E : 50 < NA |
| Forms of Media: | LCD projector, whiteboard |
| Literature: | 1. Lieberman H.A, Martin M.R., Gilbert S.B,1998, *Pharmaceutical Dosage Forms; Disperse Systems, Marcel Dekker, Inc,* New York, 2nd Ed., Vol. 1,2 and 3 |
| | 2. Florence A.T., Attwood D., 1988, *Physicochemical Principe of Pharmacy*. The Macmillan Press Ltd., 2nd |

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| | Ed.<br>3. Rowe R.C, Sheskey P.J., Owen S.C., 2006, *Handbook of Pharmaceutical Excipients, 5th Ed.,*<br>4. Sinko, P.J., Yashveer Singh, 2011, *Martin's Physical Pharmacy and Pharmaceutical Sciences,* Wolters Kluwer, London |
| Notes: | |