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| Module designation | *Introduction to Plant Protection (AGB 201)* |
| Semester(s) in which the module is taught | *3rd semester* |
| Person responsible for the module | *Hasnah* |
| Language | *English* |
| Relation to curriculum | *Compulsory module* |
| Teaching methods | *lecture, lesson, case, practical work, seminar.* |
| Workload | ▪ *100 minutes of lecture and discussion per week*<br>▪ *120 minutes of structured tasks per week*<br>▪ *190 minutes of independent activity per week*<br>▪ *100 minutes of laboratory work* |
| Credit points | *3 (lesson 2 and lab works 1)* |
| Required and recommended prerequisites for joining the module | *-* |
| Module objectives/intended learning outcomes | *1. Mastering the theoretical concepts of basic plant protection from preplantation, planting to harvest.*<br>*2. Able to know plant nuisance organisms in general.*<br>*3. Able to know the symptoms of attack as well as the threshold of plant damage.*<br>*4. Able to determine the effective and accurate OPT handling methodology of the target.*<br>*5. Mastering the IPM concept launched by the government.* |
| Content | *Introduction to Plant Protection discusses thoroughly the basic understanding and definition of plant protection and the principles of plant protection, losses caused by OPT, causes of plant damage, factors affecting the development of OPT, OPT control techniques, the application of IPM in OPT control.* |
| Exams and assessment formats | *Essay, case study* |
| Study and examination requirements | *5% attitude*<br>*45% Practicum, Practicum report, teamwork.*<br>*5% Create a paper*<br>*5% quizzes*<br>*20% midterm examination*<br>*20% final examination* |

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| Reading list | 1. Agrios, G. N. 1998. Plant Pathology. Fourth edition, Academic Press.<br>2. Anonim. 2006. Perlindungan Tanaman dalam system pertanian berkelanjutan. Kumpulan pidato guru besar Jurusan hama dan Penyakit Tanaman. Faperta UGM.<br>3. 3. Alexopoulus, C. J. & C. W. Mims. 1979. Introductory Mycology. Third Edition. John Wiley & Sons. New York-Chichester-Brisbane-Toronto-Singapore.<br>4. Djafaruddin. 1995. Dasar-dasar Perlindungan Tanaman. Bumi aksara Press, Jakarta.<br>5. Djafaruddin. 1997. Dasar-dasar Perlindungan Tanaman. Bumi aksara, Padang.<br>6. Perhimpunan Fitopatologi Indonesia. 1995. Risalah Kongres Nasional XII dan Seminar Ilmiah PFI. Halaman 1-109. Yogyakarta, 6-8 September 1993.<br>7. Rodosevich, S. et al., 1997. Weed Ecology. Implication for management. John Wiley & Sons. New York.<br>8. Robert, D. A. & C. W. Boothroyd. 1972. Fundamental of Plant Pathology. W. R. Freeman & Co.<br>9. Ronoprawiro, S. 1992. Gulma Sebagai Lawan dan Kawan dalam Kehidupan Manusia. Pidato Pengukuhan Sebagau Guru Besar pada Faperta UGM. Yogyakarta, 13 Februari 1992. 23 halaman.<br>10. Sastrahidayat, I. R. 1986. Ilmu Penyakit Tumbuhan. Penerbit Usaha Nasional, Surabaya.<br>11. Sastrosuwignyo, S. 1987. Dasar-dasat Perlindungan Tanaman (Bagian Ilmu Penyakit Tumbuhan). Fakultas Pertanian Institut Pertanian Bogor.<br>12. Sastrodihardjo. 1984. Pengantar Entomologi Terapan. ITB. Bandung. Ogyakarta, 19 Nopember 1973. 23 halaman.<br>13. Semangun, H. 1973. Fitopatologi Tropika, Satu Aspek Fitopatologi yang memerlukan Perhatian Khusus. Pidato Pengukuhan Sebagai Guru Besar pada Faperta UGM. Y<br>14. Tarr, S. A. J. 1972. Principles of plant pathology. McMillan Press.<br>15. Triharso. 1996. Dasar-dasar Perlindungan Tanaman. Gadjah Mada University Press. Yogyakarta.<br>16. Untung, K. 1990. Perlindungan Tanaman Menunjang Pertanian Tangguh dan Kelestarian Lingkungan. PT. Agricon, Bogor : 63-73.<br>17. Wheeler, H. 1975. Plant pathogenesis. Springer-Verlag. Berlin Heiderberg-New York..<br>18. Van Endem, H. F. 1989. Pest Control. Edward Arnold Press. London.<br>19. Van Lentesen, J. C. 1996. International Trends and Prospects of Seasonal Inoculative Releases with Natural Enemies. |