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| **Obligatory module or****Selective module** | **Principles of Plant Pest Science (Dasar-dasar Ilmu HamaTanaman)** | **PNH 2220** |
| **Semester** | **IV** |
| **Module level** | **Bachelor** |
| **Module Coordinator** | **Prof. Ir. Y. Andi Trisyono, M.Sc., Ph.D.** |
| **Lecturer(s)** | 1. Prof. Ir. Y. Andi Trisyono, M.Sc., Ph.D.

Dr. Suputa, SP, MP1. Prof. Dr. Edhi Martono, M.Sc.

Dr. Ir. Arman Wijonarko, M.Sc.1. Prof. Dr. Ir. FX. Wagiman, SU

Dr. Alan Soffan, SP., MSc1. Dr. Ir. Witjaksono, M.Sc.

Dr. Ir. Nugroho Susetya P., M.Si1. Dr. Tri Harjaka, SP, MP

Dr. Ir. Siwi Indarti, MP1. Dr. Alan Soffan, SP., MSc.

Dr. Ir. Nugroho Susetya P., M.Si1. Dr. Tri Harjaka, SP, MP (Koordinator Prakt)

Dr. Ir. Witjaksono, M.Sc. |
| **Type of Module** | Lecture: 1 hour and 40 minutes Laboratory work: 3 hours |
| **Status** | C (compulsory courses) |
| **Exam** | Written |
| **Number of participants** | Tolong dicarikan datanya |
| **Credit Points:** | 2/1 |
| **Learning outcomes:**1. Understanding the importance of pests in agricultural production systems and the consequences of pest outbreaks
2. Undertsanding the role of biotic and abiotic factors in regulating the population dynamic of pests
3. Understanding and implementing the principles of Integrated Pest Management and the tools available for combating pests
4. Recognizing the major pests on different major crops in Indonesia
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| **Contents:** Definition of pests*,* Classification, Pests and their environment, Population ecology, Economic importance of pests, General equilibrium, Monitoring and surveillance, Outbreaks, Area-wide pest management, Cultural control, Mechanical and Physical control, Regulatory control, Host plant resistance, Biological control, Chemical control, and Major pests in different agricultural important crops in Indonesia.  |
| **Which previous course required?** Principles of Crop Protection |
| **Literature:**1. Evans, H.E. 1984. Insect Biology. Academic Press.
2. Highley, L.G., L.L. Karr, and L.P. Peddigo. 1989. Manual of Entomology and Pest Management. McMillan & Co.
3. Kalshoven, L.G.E. 1981. Pest of Crops in Indonesia. Translated by van der Laan. PT. Ichtiar Baru.
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| **Materials provided:** Hand out of weekly materials |
| **Requirements for exam:** 75% attendance set by the Faculty of Agriculture |
| **Teaching method(s)** | ClassesSpecial assignment related to the subject matters |
| Workload (hrs).1. Theoretical of course: 14 times
2. Lab work: 7 times
3. Home studies: related to the chapter discussed in the class
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