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| **Obligatory module or**  **Selective module** | **Apiology** | | **PNH 3273** |
| **Semester** | **Even semester** | | |
| **Module level** | **Undergraduate** | | |
| **Module Coordinator** | **Dr. Suputa** | | |
| **Lecturer(s)** | Dr. Suputa | | |
| **Type of Module** | Lecture: 50 minute  Laboratory work: 2 hours | | |
| **Status** | **E (elective courses)** | | |
| **Exam** | Written and practical assignment | | |
| **Number of participants** | 3 | | |
| **Credit Points:** | 1/1 | | |
| **Learning outcomes:**  1. Understanding the importance of honey bees in natural habitats  2. Undertsanding the role of honey bee in agricultural systems as a pollinator  3. Understanding and implementing the apiculture techniques including make a new honey bee queen and create new colony  4. Able to become a beekeeping entrepreneur | | | |
| **Contents:**  Discussion of the bioecology aspects of honeybees and the factors that influence the development of honeybee colonies. The importance of honey bees in natural habitats, honey bees as pollinators in agriculture, honey bee cultivation techniques for Apis spp and Trigona spp, farming analysis and marketing capabilities of bee products. | | | |
| **Which previous course required?** Basic Entomology | | | |
| **Literature:**   1. Gullan, P.J. and P.S. Cranston. 2005. The Insects: an outline of entomology. Blackwell Publishing. pp. 304-312. 2. Suputa & A.T. Arminudin, 2013. Beternak Lebah. 2nd Edition. PT Citra Aji Parama Publisher. Yogyakarta. ISBN 978-979-3483-94-8. | | | |
| **Materials provided:** Hand out of weekly materials | | | |
| **Requirements for exam:** 75% attendance set by the Faculty of Agriculture | | | |
| **Teaching method(s)** | | Classes  Special assignment related to the subject matters  Apiculture practicum | |
| Workload (hrs).   1. Theoretical of course: 14 times 2. Lab work: 7 times 3. Home studies: independent work of making queen bees | | | |