Module designation	Technology of Cereal Crops
Semester(s) in which the module is taught	7 th
Person responsible for the module	Prof. Dr. Muhammad Kamal, M.Sc.
Language	Indonesian language
Relation to curriculum	Elective Course
Teaching methods	Lectures (100 minutes) Practicum sessions (170 minutes)
Workload (incl. contact hours, self-study hours)	Contact hours: 14 weeks x 100 minutes Structured learning: 14 weeks x 120 minutes Independent study: 14 weeks x 120 minutes Practicum sessions: 14 weeks x 170 minutes
Credit points	3 (2-1) CP or 4.76 (ECTS) ((14 weeks x 100 minutes) + (14 weeks x 120 minutes) + (14 weeks x 120 minutes) + (14 weeks x 170 minutes)) : 60 minutes/hour = 119 hours : 25 study hours/ECTS = 4.76 (ECTS)
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	 Students are able to apply the basic concepts and principles of cultivation technology and the development of sustainable agriculture technology. Students are able to identify, formulate, solve problems, and apply plant science, plant protection, soil science, socio-economic agriculture, and plant production engineering principles that are oriented towards good agricultural practices (GAP) Students are able to plan, design, implement and develop plant production with the latest and environmentally friendly technology creatively and innovatively.
Content	Technology of Cereal Crops is a 3 (2-1) credit course. This course contains studies on: food crops of the grain group (rice, corn, sorghum, and wheat); origin and history of deployment, potential, prospects, problems and development programs; botanical and growing requirements; cultivation techniques, aspects of plant pest and diseases, and post-harvest handling, distribution and marketing of produce
Examination forms	oral presentation, essay

Study and examination requirements	Participants are evaluated based on their performance in class (lectures) (70%) and lab (practicum) (30%).
	Performance in theory (100%):
	Mid Exam (20%)
	Final Exam (20%)
	Assignments (40%)
	Class participation (10%)
	Individual quiz (10%)
	Parformance in practicum (100%):
	Performance in practicum (100%): Practicum exam (30%)
	Pre-test or post-test (10%)
	Experiment reports (60%)
	1. Smith, C.W. and R. H. Dilday. 2002. Rice: origin, history, technology
Reading list	and production. John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester, West Sussex, PO19 8SQ, United Kingdom. 658p
	2. Delcour, Jan A. and R. Carl Hoseney. 2010. Principles of Cereal Science and Technology. 3rd Edition. AACC International, St. Paul, Minnesota. USA. 222p.
	3. McDonald, M.B. and L.O. Copeland. 1997. Seed Production
	Principles and Practices. Springer-Science Business Media, Dordrecht. 754 p.
	4. Rao, P.S. and C. G. Kumar. 2013. Characterization of Improved Sweet Sorghum Cultivars. Springer New Delhi Heidelberg New York Dordrecht London. 133p.
	5. Patil, J.V. 2017. Millets and Sorghum. Biology and Genetic Improvement. John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester, West Sussex, PO19 8SQ, United Kingdom. 517p.