Module designation	*Basic Physics for Agriculture*
Semester(s) in which the module is taught	*1st*
Person responsible for the module	*Dr. Ir. Afandi, MP*
Language	*Indonesian language*
Relation to curriculum	*Compulsory*
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*
Content	*The Basic Physics course is a 3 (2-1) credit course. This course contains studies on: Basic units and vectors; Motion: straight and circular; Force and mechanics: work, power energy, momentum, thermodynamics, fluid mechanics; electrodynamics, and electrostatic, electromagnetic, optics, and core physics*
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%)* *Performance in practicum (100%):* *Practicum exam (30%)* *Pre-test or post-test (10%)* *Experiment reports (60%)*
Reading list	1. *Walker J, Halliday D, Resnick R. 2014. Fundamentals of physics.10th edition. 2014.Wiley.* 2. *Sutarno. 2013.Fisika untuk Universitas. Penerbit Graha Ilmu.* 3. *Rosyid, M. Farchani, Eko Firmansah, Yusuf Dyan Prabowo. 2015. Fisika Dasar. Penerbit Periuk. yogyakarta* 4. *Jati, B. M. E. 2018. Pengantar fisika 1. UGM PRESS.* 5. *Frederick J Bueche. 1992. Fisika 8th edition. Erlangga*