91. PRECISION AGRICULTURE
Level I
Department of Agricultural, Food, Environmental and Forestry Sciences and Technologies (DAGRI)
The master is held in collaboration with the University of Tuscia, the University of Teramo and the University of Salerno
Course coordinator Marco Vieri

STUDY PLAN

Subject	Academic Discipline	CREDITS
Data Management (integrated course)		**7**
Principles and methods of Precision Agriculture: concepts, criteria and cases applications. PA in agricultural policies	AGR/02	3
Introduction to spatial and temporal data analysis methods in R	AGR/17	2
Simulation models of biological and cultural processes	AGR/02	2
Logistics and Automation (integrated course)		7
Corporate information systems and robots to support the PA. Application cases	AGR/09	3
Territorial Information Systems (GIS)	AGR/09	2
Drones for crop control	AGR/09	2
Intelligent Machines (integrated course)		6
Global positioning systems; agricultural machinery guidance systems; production mapping systems	AGR/09	3
Precision mechanization, ISOBUS and telemetry; Variable soil tillage and variable rate sowing	AGR/09	3
Soil and fertility management (integrated course)		6
Remote sensing in AP and precision fertilization	AGR/02	4
Sensors and methods for proximal measurements of soil properties	AGR/14	2
Management of water, herbaceous supply chains and cover crops (integrated course)		8
Precision irrigation	AGR/08	2
Technological and digital innovation in the management of herbaceous crops and cover crops in perennial crops	AGR/02	4
Technological and digital innovation in the management of horticultural crops	AGR/04	2
Management of vine, fruit and livestock supply chains (integrated course)		8
Technological and digital innovation in viticulture management. Criteria for adopting innovation in agricultural businesses. Application cases.	AGR/09	4
Punctual control of the physiology of the vine and fruit trees	AGR/03	2
Precision Animal Husbandry	AGR/19	2
Total credits of face-to-face classes		**42**
Internship		8
Project work		10
Final examination		**60**