

Year	Semester	Course Type	Course Code	Course Title	Credits	Course Hours		
						T	P	D
2	1	MR		Introduction to Horticultural Science	3	3	0	
		MR		Introduction to Smart Farm Science	3	3	0	
		ME		Seed and Seedling Management and Practice	3	2	2	
		ME		Fundamentals of Internet of Things (IoT)	3	2	2	
2	2	MR		Smart Farm Facility Engineering	3	3	0	
		ME		Plant Environmental Control	3	3	0	
		ME		Introduction to Crop Protection	3	3	0	
		ME		Hydroponics and Nutrient Solution Management	3	3	0	
3	1	MR		Understanding and Construction of Smart Farms	3	3	0	
		ME		Soil and Growing Media Science	3	3	0	
		ME		Integrated Environmental Control and Practice	3	2	2	
		ME		Smart Farm Operation and Practice	3	2	2	
		ME		Environmental Systems and Sensing	3	3	0	
3	2	ME		Smart Agriculture Programming	2	2	0	
		ME		Physiological Disorders of Horticultural Crops and Practice	3	2	2	
		ME		Plant Pathology	3	3	0	
4	1	MR		Big Data Analysis and Applications	3	2	2	
		ME		Utilization of Public Data	3	2	2	
		ME		Smart Farm Capstone Design I	3	1	0	2
		ME		Internship I	3	-	4ws (160h)	
		ME		Artificial Intelligence and Practice	3	2	2	
4	2	ME		Smart Farm Capstone Design II	3	1	0	2
		ME		Internship II	3	-	4w (160h)	
		ME		Understanding the Smart Farm Industry	3	3	0	
		ME		Agricultural Product Safety and Hygiene Management	3	3	0	

MR : Major Required / ME : Major Elective

T : Theory, P : Practices, D : Design.