



M.Sc. Ag. (Agronomy)
PROGRAMME SCHEME
Department of Agronomy
School of Agriculture,
ITM University, Gwalior, Madhya Pradesh 474001

Course scheme for M.Sc. Ag.(Agronomy)
Course programme

Department: Agronomy

School: Agriculture/PGS

Degree programme: M.Sc. Ag. (Agronomy)

S.N.	Course code	Course title	Credit hours
I. Major courses			
1.	AGRON-501*	Modern concept of crop Production	4(4+0)
2.	AGRON-502	Principles and Practices of soil fertility and nutrient management	3(2+1)
3.	AGRON-503	Principles and Practices of weed management	3(2+1)
4.	AGRON-504*	Principles and Practices of water management	3(2+1)
5.	AGRON-505	Conservation Agriculture	2(1+1)
6.	AGRON-506	Agronomy of Major cereals and Pulses	3(2+1)
7.	AGRON-507	Agronomy of oilseeds, fibre and Sugar crops	3(2+1)
8.	AGRON-508	Agronomy of medicinal, aromatic & underutilized crops	3(2+1)
9.	AGRON-509	Agronomy of fodder and forage crops	3(2+1)
10.	AGRON-510	Agrostology and Agro-Forestry	3(2+1)
11.	AGRON-511	Cropping system and sustainable agriculture	2(2+0)
12.	AGRON-512	Dry land farming and watershed management	3(2+1)
13.	AGRON-513	Principles and Practices of Organic Farming	3(2+1)
14.	AGRON-591	Master seminar	1(1+0)
II. Minor courses (Soil science)			
1.	SST-501	Elective (Seed physiology)	3(2+1)
2.	SOIL-502	Soil fertility & fertilizer use	3(2+1)
3.	SOIL-503	Soil chemistry	3(2+1)
4.	SOIL -504	Soil mineralogy, genesis and classification	3(2+1)
5.	SOIL -505	Soil erosion and conservation	3(2+1)
6.	SOIL -506	Soil Biology and Biochemistry	3(2+1)
7.	SOIL -508	Soil, water and air pollution	3(3+0)
8.	SOIL -509	Remote sensing and GIS technique for soil and crop studies	3(2+1)
9.	SOIL -511	Management of problematic soils and water	2(1+1)
10.	SOIL -514	Introduction to Nanotechnology	3(2+1)
III. Related courses (Crop physiology)			
1.	PPH-504	Hormonal regulation of plant growth and development	3(2+1)
IV. Supporting courses			

1.	STAT-511	Statistical methods for applied sciences	3(2+1)
2.	STAT-512	Experimental Design	3(2+1)
V. Master research/thesis			
1.	AGRON-599	Master research	30 (0+30)
VI. Compulsory non-credit courses			
1.	PGS-501	Library and Information Services	1(0+1)
2.	PGS-502	Technical writing and communication skills	1(0+1)
3.	PGS-503	Intellectual property and its information in agriculture	1(0+1)
4.	PGS-504	Basic concept in laboratory techniques	1(0+1)
5.	PGS-505 (e-course)	Agriculture research, research ethics and rural development programme	1(0+1)

Major: Agronomy (20 credits), **minor:** Soil Science & Agril. Chemistry (08 credits), **related courses:** Crop physiology & **supporting courses:** statistics (06 credits), **Compulsory non-credit courses**(05 credits), **Master seminar** (01 credits) & **research/thesis** (30 credits);

Scheme of the course program (semester-wise)

Semester	Course code	Course title	Credit hours
I	AGRON-501*	Modern concept of crop Production	4(4+0)
	AGRON-502	Principles and Practices of soil fertility and nutrient management	3(2+1)
	STAT-511	Statistical methods for applied sciences	3(2+1)
	SST-501	Elective (Seed physiology)	3(2+1)
	PGS-501	Library and Information Services	1(0+1)
	PGS-503	Intellectual property and its information in agriculture	1(0+1)
II	AGRON-503	Principles and Practices of weed management	3(2+1)
	AGRON-504*	Principles and Practices of water management	3(2+1)
	AGRON-506	Agronomy of Major cereals and Pulses	3(2+1)
	SOILS-502	Soil fertility & fertilizer use	3(2+1)
	STAT-512	Experimental Design	3(2+1)
	AGRON-591	Master seminar	1(1+0)
	AGRON-599	Master research	4(0+4)
PGS-504	Basic concept in laboratory techniques	1(0+1)	
III	AGRON-507	Agronomy of oilseeds, fibre and Sugar crops	3(2+1)
	AGRON-511	Cropping system and sustainable agriculture	2(2+0)
	AGRON-512	Dry land farming and watershed management	3(2+1)
	SOILS-509	Remote sensing and GIS technique for soil and	3(2+1)

		crop studies	
	PGS-502	Technical writing and communication skills	1(0+1)
	PGS-505 (e-course)	Agriculture research, research ethics and rural development programme	1(0+1)
	AGRON-599	Master research	10(0+10)
IV	AGRON-599	Master research	16(0+16)

*Indicate core courses for M.Sc. Ag. (Agronomy) Program