

Graduate Courses: M.Sc. program

Core Courses

01	Advanced Soil Chemistry	3
02	Advanced Soil Physics	3
03	Advanced Soil Fertility	3
04	Advanced Soil Genesis and Classification	3
05	Advanced Soil Conservation	3
06	Advanced Statistical Methods	3
		18

Elective (Chemistry and Fertility)

07	Soil Testing	3
08	Advanced Plant Physiology	2
09	Advanced Soil Microbiology	3
10	Chemical Equilibria in Soils	3
11	Mathematics (1)	3
12	Mathematics (2)	3
13	Differential Equation	3
14	Advanced Soil, Water and Plant Relations	3
15	Advanced Biochemistry	3
16	Principles and Methods of Microbial Biotechnology	3
17	Advances in Soil Chemistry and Fertility	2
18	General Biochemistry	3
19	Soil and Water Pollution	2
20	Advanced Plant Nutrition	3
21	Water Quality for Agriculture	3
22	Stable Isotopes in Soil Science	2

DEPARTMENT OF SOIL SCIENCE

23	Special Topics in Soil Science	2
24	Seminar	1
25	Soil Physical Chemistry	3
26	Research Methodology	2
27	Geostatistics	3
28	Limitation of Iranian Soils	3
29	Seminar	1
30	Soil Organic Matter	3
31	English for Soil Science Student	2
32	Chemical and Organic Fertilizers Technology	3

Elective Courses (Physics and Conservation)

33	Soil Mechanics	3
34	Drainage Engineering	3
14	Advanced Soil Water and Plant Relations	3
13	Differential Equations	3
35	River Engineering	2
36	Wind Erosion	2
11	Mathematics (1)	3
12	Mathematics (2)	3
37	Advanced Topic in Soil Physics and Soil Conservation	2
38	Mathematical Modeling in Soil Physics	2
39	Sustainable Soil Management	3
25	Soil Physical Chemistry	3
26	Research Methodology	2
27	Geostatistics	3
28	Limitation of Iranian Soils	3
23	Special Topics in Soil Science	2

DEPARTMENT OF SOIL SCIENCE

40	Remote Sensing	3
31	English for Soil Science Students	2
24	Seminar (1)	1
29	Seminar (2)	1
41	Water shed Management	3
42	Hydrology	3
43	Geomorphology (1)	2
44	Land Evaluation and Suitability	3
45	Aerial and Images Interpretation	3
19	Soil and Water Pollution	2
21	Water Quality for Agriculture	2
46	Sedimentology	2
23		
24		
29		

Elective Courses (Soil Genesis and Classification)

47	Micromorphology	3
48	Optical Mineralogy	3
43	Geomorphology (1)	2
40	Remote Sensing	3
49	Geographical Information Systems	3
44	Quantitative Land Suitability Evaluation	3
11	Mathematics (1)	3
50	Advances in Pedology, Soil Classification and Land Evaluation	3
25	Soil Physical Chemistry	3
26	Research Methodology	2
27	Geostatistics	3

DEPARTMENT OF SOIL SCIENCE

28	Limitation of Iranian Soils	3
31	English for Soil Science Students	2
51	General Mineralogy	3
52	Identification of Rocks	2
53	Geochemistry	3
19	Soil and Water Pollution	2
39	Sustainable Soil Management	3
23	Special Topics in Soil Science	2
24	Seminar (1)	1
12	Mathematics (2)	3
54	Soil Geography (Iran and World)	2
29	Seminar (2)	1

Elective (Soil Biology)

20	Advanced Plant Nutrition	3
14	Advanced Soil Water and Plant Relations	3
22	Stable Isotopes in Soil Science	2
55	Biological Relationships of Soil and Plant	3
56	Microbial Genetics of Soil Bacteria	3
57	Taxonomy and Identification of Soil Bacteria	3
30	Soil Organic Matter	3
58	Principles of Cell and Molecular Biology	3
59	Principles and Methods of Microbial Biotechnology	2
09	Advanced Soil Microbiology	3
60	Taxonomy and Identification of Soil Fungi	3
61	Soil Enzymes	3
62	Bioremediation	3

DEPARTMENT OF SOIL SCIENCE

24	Seminar (1)	1
23	Special Topics in Soil Science	2
31	English for Soil Science Students	2
08	Advanced Plant Physiology	2
15	Advanced Biochemistry	3
63	Basic Principles of Soil and Plant Analysis	3
25	Soil Physical Chemistry	3
26	Research Methodology	2
27	Geostatistics	3
28	Limitation of Iranian Soils	3