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| ***Code*** | ***Title*** | ***Credits*** | ***Option*** |
| First Semester |
| SS 5101\* | Fundamentals of Soil Science | 2 | Compulsory |
| SS 5110 | Environmental Soil Physics  | 3 | Compulsory |
| SS 5111 | Environmental Soil Chemistry  | 3 | Compulsory |
| SS 5113 | Environmental Microbiology | 2 | Compulsory |
| SS 5152 | Techniques in Soil Plant, Water & Fertilizer Analysis | 3 | Compulsory |
| SS 5198 | Directed Study | 2 | Compulsory |
| SS 5199 | Seminar | 1 | Compulsory |
| SS 5107 | Formation and Characteristics of Tropical Soils | 2 | Elective |
| SS 5109 | Microbial Ecology | 3 | Elective |
| SS 5114 | Digital Soil Mapping | 2 | Elective  |
| SS 5156 | Water Quality and Environment | 2 | Elective |
| SS 6101 | Tracer Techniques in Soil and Plant Studies  | 2 | Elective |
| AE 5152 | Environmental Impact Assessment | 2 | Elective |
| ST 5155 | Design and Analysis of Experiments | 2 | Elective |
| Second Semester |
| SS 5198 | Directed Study | 2 | Compulsory |
| SS 5199 | Seminar | 1 | Compulsory |
| SS 5212 | Soils of Sri Lanka | 1 | Compulsory |
| SS 5251 | Organic Pollutants and Environment  | 2 | Compulsory |
| SS 5252 | Environmental Impact of Inorganic Pollutants and Radio-nuclides | 3 | Compulsory |
| SS 6203 | Land Use and Environment  | 1 | Compulsory |
| SS 6204 | Remediation of Contaminated Soil and Water | 2 | Compulsory |
| SS 5253 | Solid Waste and Environment | 2 | Elective |
| SS 5254 | Environmental Biotechnology | 2 | Elective |
| SS 6202 | Environmental Soil Mineralogy | 2 | Elective |
| SS 6205 | Advanced Instrumentation in Environmental Research  | 2 | Elective |
| SS 6206 | Soil Environmental Modelling | 2 | Elective |
| SS 6207 | Applications of Digital Soil Mapping  | 2 | Elective  |
| CS 5212 | Scientific Writing and Proposal Formulation | 2 | Elective |