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| ***Code*** | ***Title*** | ***Credits*** | ***Option*** |
| First Semester | | | |
| SS 5108 | Soil Ecosystems and their Functions | 2 | Compulsory |
| SS 5109 | Microbial Ecology | 3 | Compulsory |
| SS 5154 | Plant-Microbe Interaction | 2 | Compulsory |
| SS 5198 | Directed Study | 2 | Compulsory |
| SS 5199 | Seminar | 1 | Compulsory |
| SS 5113 | Environmental Microbiology | 2 | Compulsory |
| SS 5102 | Physical Properties and Processes in Soils | 2 | Elective |
| SS 5103 | Mineralogical and Chemical Properties of Soils | 3 | Elective |
| ST 5155 | Design and Analysis of Experiments | 2 | Elective |
| PP 5108 | Methods in Microbiology and Microbial  Technology | 3 | Elective |
| PP 5109 | Molecular Microbiology | 2 | Elective |
| Second Semester | | | |
| SS 5198 | Directed Study | 2 | Compulsory |
| SS 5199 | Seminar | 1 | Compulsory |
| SS 5212 | Soils of Sri Lanka | 1 | Compulsory |
| SS 5254 | Environmental Biotechnology | 2 | Compulsory |
| SS 5255 | Special Topics Related to Microbiology | 2 | Compulsory |
| SS 5207 | Reclamation & Management of  Problem Soils in Sri Lanka | 2 | Elective |
| SS 5251 | Organic Pollutants and Environment | 2 | Elective |
| SS 5252 | Environmental Impact of Inorganic Pollutants and Radio- nuclides | 3 | Elective |
| SS 5253 | Solid Waste and Environment | 2 | Elective |
| SS 6202 | Environmental Soil Mineralogy | 2 | Elective |
| SS 6203 | Land Use and Environment | 1 | Elective |
| SS 6204 | Remediation of Contaminated Soil and Water | 2 | Elective |
| PP 5212 | Aquatic Microbiology and Water Quality | 2 | Elective |