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| ***Code*** | ***Title*** | ***Credits*** | ***Option*** |
| First Semester |
| AE 5103  | Hydrology and Meteorology | 3 | Compulsory |
| AE 5105  | Water and Society | 2 | Compulsory |
| AE 5107  | Water Quality for Agriculture and Environment | 2 | Compulsory |
| EC 5108 | Water Resources Economics I | 2 | Compulsory |
| AE 5101  | Water for Agriculture | 2 | Elective |
| AE 5109  | Soil Mechanics | 2 | Elective |
| AE 5119 | Water and Industry | 2 | Elective |
| EC 5107  | Project Analysis | 2 | Elective |
| ST 5106  | Computer Programming | 2 | Elective |
| Second Semester |
| AE 5210  | Health, Sanitation and Wastewater Management | 2 | Compulsory |
| AE 5202  | Water Application Systems | 2 | Elective |
| AE 5206  | Fluid Mechanics | 2 | Elective |
| AE 5209  | GIS for Natural Resources Management | 2 | Elective |
| AE 5211  | Hydraulics of Erosion and Sediment Transport | 2 | Elective |
| AE 5212  | Water Supply | 2 | Elective |
| AE 6104 | Interdisciplinary Field Research Methodology | 3 | Elective |
| AE 6105 | Gender in IWRM | 2 | Elective |
| EC 5208 | Water Resource Economics II | 2 | Elective |
| Second Year First Semester |
| AE 5151 | River Basing Planning & Management | 2 | Compulsory |
| AE 5152  | Environmental Impact Assessment | 2 | Compulsory |
| AE 5198  | Directed study and Seminar | 2 | Compulsory |
| AE 6101  | Advanced Irrigation Water Management | 2 | Compulsory |
| AE 5108  | Groundwater Development | 2 | Elective |
| AE 5154  | Application of Remote Sensing in Agriculture | 2 | Elective |
| AE 5155  | Financing Water Development | 2 | Elective |
| AE 6102  | Advanced GIS and Geo-informatics | 2 | Elective |
| AE 6103  | Modeling Hydrological Systems | 1 | Elective |