Hydrological science is very important component of the curriculum of the undergraduate and graduate education at the UAE University. Geology Department is offering few courses to support the hydrological science at the university and nation. Several hydrological and geophysical Instruments were obtained to increase the applicability of the department and enhance the student's skills and experience. The Geology Department Curriculum is enriched with hydrological courses. For example, Hydrogeology course is offered as a major compulsory course, whereas both Aquifer Analysis and Hydrogeochemistry courses are offered as advanced elective courses. The field observations and experiments of hydrology education seem to be more reliable and have a positive impact in the outcomes of the courses. Therefore, the field experimental education has been taken in consideration during teaching the hydrology related courses. Insight of that, each course associated with laboratory session. During the laboratory sessions, students were trained on conducting aquifer test, infiltration test experiment, taking water level measurements and physical parameters of collected groundwater and surface water. On the other hand, the applications of geophysical tools are applied as effective tools for groundwater exploration. One of the geophysical projects had been accomplished with the participation of the UAE University students.