

Sedimentation Engineering

Tutor: Professor Nadhir Al-Ansari

Credit Points: 10

The aim of the course is to understand:

- The Physical Properties and Dimensional Analysis of sediment.
- Initiation of sediment motion.
- The behavior of sediment during the processes of erosion, transportation and deposition.
- Engineering problems created due to sediment transport.
- Calculation and evaluation of sediment transport budget.
- Problems of siltation in reservoirs.

Course Outline:

- Natural properties of sediment grains and water
- Weathering and the sediment cycle
- Sediment in rivers
- Problems of Erosion, transportation and deposition
- Bed load transport (Direct measurements+ formulas and models)
- Suspended load transport (Direct measurements+ formulas and models)
- Total load transport (Direct measurements+ formulas and models)
- Siltation in Reservoirs

There will be exercises given.

Time table

Date	Time	Place
May 4, 2015	9:00 -11:00	F1033
May 5, 2015	9:00 -11:00	F1033
May 6, 2015	9:00 -11:00	F1033
May 8, 2015	9:00 -11:00	F1033
May 12, 2015	9:00 -11:00	F1033
May 13, 2015	9:00 -11:00	F1033
May 18, 2015	9:00 -11:00	F1033
May 19, 2015	9:00 -11:00	F1033
May 20, 2015	9:00 -11:00	F1033