**SVC-course: Dams and dam safety (2 credits)**

Wednesday November 12th

|  |  |
| --- | --- |
| Time | Content |
| 13.00 - 13.30 | Course introduction |
| 13.30 – 15.00 | The soil material |
| 15.00 – 15.30 | Break |
| 15.30 – 17.00 | Dam design: dam types, their construction and applications |

Thursday November 13th

|  |  |
| --- | --- |
| Time | Content |
| 8.00 – 9.30 | Tailings dams |
| 9.30 – 10.00 | Break |
| 10.00 – 11.00 | A dam experiment in the laboratory |
| 11.00 – 11.45 | Dam safety |
|  | Lunch |
| 13.00 – 13.45 | Dam safety |
| 13.45 – 14.30 | Filter and filter design I |
| 14.30 – 15.00 | Break |
| 15.00 – 15.45 | Filter and filter design II |
| 15.45 – 16.30 | Dam monitoring |
| 16.30 – 16.45 | Break |
| 16.45 – 17.30 | Test dam in Älvkarleby |

Friday November 14th

|  |  |
| --- | --- |
| Time | Content |
| 08.00 – 08.45 | Finite element modelling of dams/Parameter identification |
| 08.45 – 09.00 | Break |
| 09.00 – 10.00 | The Mosul dam |
| 10.00 – 12.00 | Own preparation before the Jeopardy exam |
|  | Lunch |
| 13.00 – 15.00 | Jeopardy exam |
| 15.00 – 15.15 | Course ending |