

TMA4195 Mathematical Modeling. Grades and Comments on the 2011 project.

Group	Studentno.	Comments	Grades
1	708092 708115 708109 708090 708188	Worked on 2D modell, Dupuit approximation via perturbation, and numerics. They introduce the original and interesting idea of going to a fixed domain, but the derivation of the new model is incorrect and numerics fail. Ok report and nice presentation.	70
2	690672 697408 698238 704828 705420	Worked on 2D modell, Dupuit approximation, similarity solutions, numerics (FDM approxiamtion of Dupuit model). Some mistakes in similarity solutions. Ok report and nice presentation.	80
3	696168 697405 697354 696534 708102 697449	Worked on 2D modell, Dupuit approximation with and without perturbation, analytical solution, and numerics (FDM approximation of 2D model). The report is mostly correct and shows deep understanding and ability to solve and interpret the results. Very nice report and presentation. Voted best presentation.	95
4	697376 708082 708153 708131 709483	Worked on 2D model, Dupuit approx. with and without perturbation, analytical solutions, and numerics – FEM solver for 2D and 3D model. Impressive FEM solver and original modeling, but some mistakes in the analysis. Very nice report and presentation.	90
5	697351 697448 697413 692603 721064	Worked on 2D model, Dupuit approximation via perturbation, numerics for 2D model (FEM) and for Dupuit model (FDM), comparison of the two models. Some mistakes in Dupuit approximation and wrong boundary conditions here. Impressive FEM solution! Nice presentation and report.	85
6	697412 692567 697373 697393 697399	Worked on 2D model, Dupuit approx. with and without perturbation, similarity solution, numerics for 2D model (FEM and FDM). Impressive FEM solution and real data! Wrong boundary conditions for Dupuit approx. Very nice presentation and report.	90
7	642640 708956 708185 708186 708182	Worked on 2D model, Dupuit approx. with and without perturbation, numerics for 2D model (two FDM solvers). Nice numerical work! Very nice presentation and report.	90
8	697389 728366 728371 728842	Worked on 3D model, Dupuit approximation via perturbation, similarity solutions, and numerical solutions (FEM). Very nice solution by method of images, impressive FEM solution! Very nice presentation and report.	98
9	697398 692584 708104 697439	Worked on 2D model, Dupuit approximation via perturbation, analytic solution, and numerics for 2D problem (FDM). Interesting explicit solution satisfy only one boundary condition, problems with numerics. Nice report, ok presentation.	75
10	708087 708099 697396 691206 640829 673698	Worked on 2D modell, Dupuit approximation via perturbation, analytic and similarity solution, and numerics for 2D problem (FDM). Interesting explicit solution satisfy only one boundary condition, problems with numerics described by group. Nice presenation and report.	80