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# University of Pretoria Yearbook 2016

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## Analytical soil mechanics 787 (SGS 787)

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| <b>Qualification</b>          | Postgraduate  |
| <b>Faculty</b>                | <a href="#">Faculty of Engineering, Built Environment and Information Technology</a>                                      |
| <b>Module credits</b>         | 24.00   |
| <b>Programmes</b>             | <a href="#">BEngHons Geotechnical Engineering</a><br><a href="#">BScHons Applied Science Applied Science: Geotechnics</a> |
| <b>Prerequisites</b>          | No prerequisites.   |
| <b>Contact time</b>           | 20 Contact hours  |
| <b>Language of tuition</b>    | English   |
| <b>Academic organisation</b>  | Civil Eng   |
| <b>Period of presentation</b> | Year  |

### Module content

A research term paper will be prepared.

Solution of confined and unconfined seepage problems using the methods of fragments, finite differences and finite elements. Numerical solutions of consolidation problems and secondary compression. Slope stability analysis methods. The point estimate method. Monte Carlo simulation.

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