

# University of Pretoria Yearbook 2021

## Infrastructure management 790 (SSI 790)

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| <b>Qualification</b>          | Postgraduate  |
| <b>Faculty</b>                | Faculty of Engineering, Built Environment and Information Technology  |
| <b>Module credits</b>         | 24.00   |
| <b>NQF Level</b>              | 08  |
| <b>Programmes</b>             | BEngHons Structural Engineering<br>BEngHons Transportation Engineering<br>BEngHons Water Resources Engineering<br>BScHons Applied Science Structure<br>BScHons Applied Science Transportation Planning<br>BScHons Applied Science Water Resources |
| <b>Prerequisites</b>          | No prerequisites.   |
| <b>Contact time</b>           | 40 Contact hours  |
| <b>Language of tuition</b>    | Module is presented in English  |
| <b>Department</b>             | Civil Engineering   |
| <b>Period of presentation</b> | Year  |

### Module content

A research term paper will be prepared.

This module will cover the following topics: Asset Management principles, Maintenance Management principles, Maintenance strategies and philosophies, Condition based Maintenance, Reliability Centred Maintenance (RCM), Resource Management, Maintenance Management Systems, Total Productive Maintenance (TPM) and Risk Management. Maintenance management of the following disciplines will be studied in detail: Road infrastructure, Railway infrastructure, Airport infrastructure, Buildings and other structures, Water resources and water supply.

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