

University of Pretoria Yearbook 2022

Software engineering 321 (EPE 321)

Qualification Undergraduate

Faculty [Faculty of Engineering, Built Environment and Information Technology](#)

Module credits 16.00

NQF Level 07

Programmes [BEng \(Computer Engineering\)](#)

[BEng \(Computer Engineering\) ENGAGE](#)

Prerequisites COS 212

Contact time 1 practical per week, 1 tutorial per week, 3 lectures per week

Language of tuition Module is presented in English

Department Electrical, Electronic and Computer Engineering

Period of presentation Semester 2

Module content

Software engineering deals with the application of engineering principles to develop and maintain high-quality software that is reliable and that works efficiently. Software engineering includes defining software requirements and performing software design, software construction, software testing, and software maintenance tasks. The module exposes students to various methodologies in the different stages of the software life cycle, the problems of group work, and software configuration management through versioning systems. The student is exposed to object modelling techniques and languages such as UML, as well as debugging and testing techniques.

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