

University of Pretoria Yearbook 2016

Software engineering 321 (EPE 321)

Qualification Undergraduate

Faculty Faculty of Engineering, Built Environment and Information Technology

Module credits 16.00

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 Both Afr and Eng

Academic organisation Electrical, Electronic and Com

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 with versioning systems such as CVS. The student is exposed to object modelling techniques and languages such as UML, as well as advanced debugging and testing techniques.

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