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# University of Pretoria Yearbook 2016

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## Digital systems 220 (ERS 220)

**Qualification** Undergraduate

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

**Module credits** 16.00

**Programmes** [BEng Computer Engineering](#)  
[BEng Computer Engineering Engage](#)  
[BEng Electrical Engineering](#)  
[BEng Electrical Engineering Engage](#)  
[BEng Electronic Engineering](#)  
[BEng Electronic Engineering Engage](#)

**Prerequisites** No prerequisites.

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

**Language of tuition** Both Afr and Eng

**Academic organisation** Electrical, Electronic and Com

**Period of presentation** Semester 2

### Module content

Introduction to digital circuit design, digital representations of numbers, device electronics in digital circuits, representation and simplification of logic functions, components of combinational circuits, analysis and design of combinational circuits, components of sequential circuits, analysis and design of sequential circuits, programmable components for combinatorial and sequential logic.

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