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# University of Pretoria Yearbook 2016

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## Computer engineering design 320 (ERD 320)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Engineering, Built Environment and Information Technology</a>
<b>Module credits</b>	16.00
<b>Programmes</b>	<a href="#">BEng Computer Engineering</a> <a href="#">BEng Computer Engineering Engage</a>
<b>Prerequisites</b>	EMK 310 GS
<b>Contact time</b>	1 tutorial per week, 2 practicals per week, 2 lectures per week
<b>Language of tuition</b>	Both Afr and Eng
<b>Academic organisation</b>	Electrical, Electronic and Com
<b>Period of presentation</b>	Semester 2

### Module content

Electronic transducers. Circuit board layout: power circuit techniques, low noise techniques, high frequency techniques. Intellectual property law in South Africa. Design and implement a group project: technical specifications and interface specifications, systems engineering, Industry standards, architecture and engineering judgement, material procurement, documentation and configuration management, man/machine interfaces, packaging technology, ergonomics and aesthetics, complete design and construction of a system (including electromagnetic compatibility), design for manufacturing and maintainability, integration, production facilities and techniques, logistics.

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