

University of Pretoria Yearbook 2017

Manufacturing systems 311 (MVS 311)

Qualification Undergraduate

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

Module credits 16.00

Programmes [BEng Industrial Engineering](#)
[BEng Industrial Engineering ENGAGE](#)

Prerequisites No prerequisites.

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

Language of tuition Module is presented in English

Academic organisation Mechanical and Aeronautical En

Period of presentation Semester 1

Module content

Basic knowledge of conventional manufacturing processes like casting, forming, machining and joining. Modern manufacturing of plastic products, powder metallurgy, micro-electronic manufacturing and non-traditional machining. Quality control by work-holding devices, measurement, inspection and testing and determination of process capability. Manufacturing automation, rapid prototyping and free form fabrication. Manufacturing systems design concepts like Jobshop, Flowshop, Leanshop with linked cells, Projectshop and continuous processing.

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