



University of Pretoria Yearbook 2020

Engineering activity and group work 320 (MIA 320)

Qualification Undergraduate

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

Module content

Two exit learning outcomes (ELO) of ECSA are addressed and each must be passed in the same semester. ELO7: Demonstrate critical awareness of the impact of engineering activity on the social, industrial and physical environment. The history of engineering globally and in South Africa. Most important engineering projects globally and in South Africa. The impact of technology on society. Occupational and public health and safety. Occupational Health and Safety Act. Impacts on the physical environment. The personal, social, cultural values and requirements of those affected by engineering activity. The combination of social, workplace (industrial) and physical environmental factors are appropriate to the discipline of the qualification. ELO8: Demonstrate competence to work effectively on a small project as an individual, in teams and in multidisciplinary environments. Identifies and focuses on objectives. Works strategically. Executes tasks effectively. Delivers completed work on time. Effective team work: Makes individual contribution to team activity; performs critical functions; enhances work of fellow team members; benefits from support of team members; communicates effectively with team members; delivers completed work on time. Multidisciplinary work by the following: Acquires a working knowledge of co-workers' discipline; uses a systems engineering approach; communicates across disciplinary boundaries. Report and presentation on team project. Tasks require co-operation across at least one disciplinary boundary. Students acquire a working knowledge of co-workers discipline. Students communicate between disciplinary boundaries.

Module credits 8.00

- Programmes**
- [BEng Chemical Engineering](#)
 - [BEng Chemical Engineering ENGAGE](#)
 - [BEng Computer Engineering](#)
 - [BEng Computer Engineering ENGAGE](#)
 - [BEng Electrical Engineering](#)
 - [BEng Electrical Engineering ENGAGE](#)
 - [BEng Electronic Engineering](#)
 - [BEng Electronic Engineering ENGAGE](#)
 - [BEng Industrial Engineering](#)
 - [BEng Industrial Engineering ENGAGE](#)
 - [BEng Mechanical Engineering](#)
 - [BEng Mechanical Engineering ENGAGE](#)



BEng Metallurgical Engineering

BEng Metallurgical Engineering ENGAGE

BEng Mining Engineering

BEng Mining Engineering ENGAGE

Prerequisites (BSS 310), (CJJ 310) or (EJJ 210) or (BJJ 210) or (MJJ 210) or (NJJ 210) or (PJJ 210)

Contact time 1 other contact session per week, 2 lectures per week

Language of tuition Module is presented in English

Department Mechanical and Aeronautical Engineering

Period of presentation Semester 2

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of each student to familiarise himself or herself well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.