



# FACULTY OF ENGINEERING

**NC: Mechanical  
Engineering**  
**N4 -N6 (1 Year)**

## **COURSE DESCRIPTION**

The programme progresses through three levels. Each N level takes place over one trimester. After each trimester, students are eligible for a National Certificate on that level. We recommend continuing through all three levels in order to qualify for the National Diploma. The National Diploma requires students to work for 24 months in a Mechanical department before they are entitled to receive a National Diploma.



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# NC: Mechanical Engineering N4 -N6 (1 Year)

1:

## ENTRY LEVEL REQUIREMENTS

Learners who want to register for this qualification must have;

**N4**

- An appropriate National Certificate
- N3: Engineering Studies.
- Grade 12/Matric pass with 40% in Physics and Maths

**N5**

- A National Certificate: N4: Mechanical Engineering with four subjects passed

**N6**

- A National Certificate: N5: Mechanical Engineering with four subjects passed

2:

## MODULES BY SEMESTER

**N4**

- Mechanotechnics
- Mathematics
- Engineering Science
- Mechanical Draughting

**N5**

- Power Machines
- Mechanotechnics
- Mechanical Draughting and Design
- Mathematics

**N6**

- Power Machines
- Mechanotechnics
- Mathematics
- Mechanical Draughting and Designing

3:

## LEARNING OUTCOMES

Recipients of this Qualification will be able to:

- Evaluate and apply essential methods to technical operational systems.
- Analyse and apply acquired knowledge in performing the tasks and solve common problems.
- Execute role and responsibilities by being able to summarise, classify, discuss and estimate application processes required through mathematical concepts, technical and schematic diagrams, computer and technology usage in a range of different contexts.
- Communicate with peers, customers and members of supervisory/management levels by presenting information reliably and accurately in spoken and written form.

4:

## ARTICULATION OPTIONS

**N4**

This qualification has been designed to allow entry into N5

**N5**

This qualification has been designed to allow entry into N6.

**N6**

Higher certificate, Diploma or Bachelor's Degree.

The following criteria must be met in order to write the National DHET Examinations  
\* DP 40%  
\* Attendance Ratio 80%

5:

## JOB OPPORTUNITIES

### Find Employment

- Assistant Mechanical Engineer
- Auto Electrician
- Boilermaker

- Diesel Mechanic
- Fitter and Turner
- Mechanical Engineering Technician

- Motor Mechanic
- Sheetmetal Worker
- Tool Maker
- Welder

6:

## LEARNING OUTCOMES

Completion of National Certificates: Mechanical Engineering N4, N5 and N6 as above plus 24 months of practical experience in a workplace leads to the National Diploma in Mechanical Engineering.

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