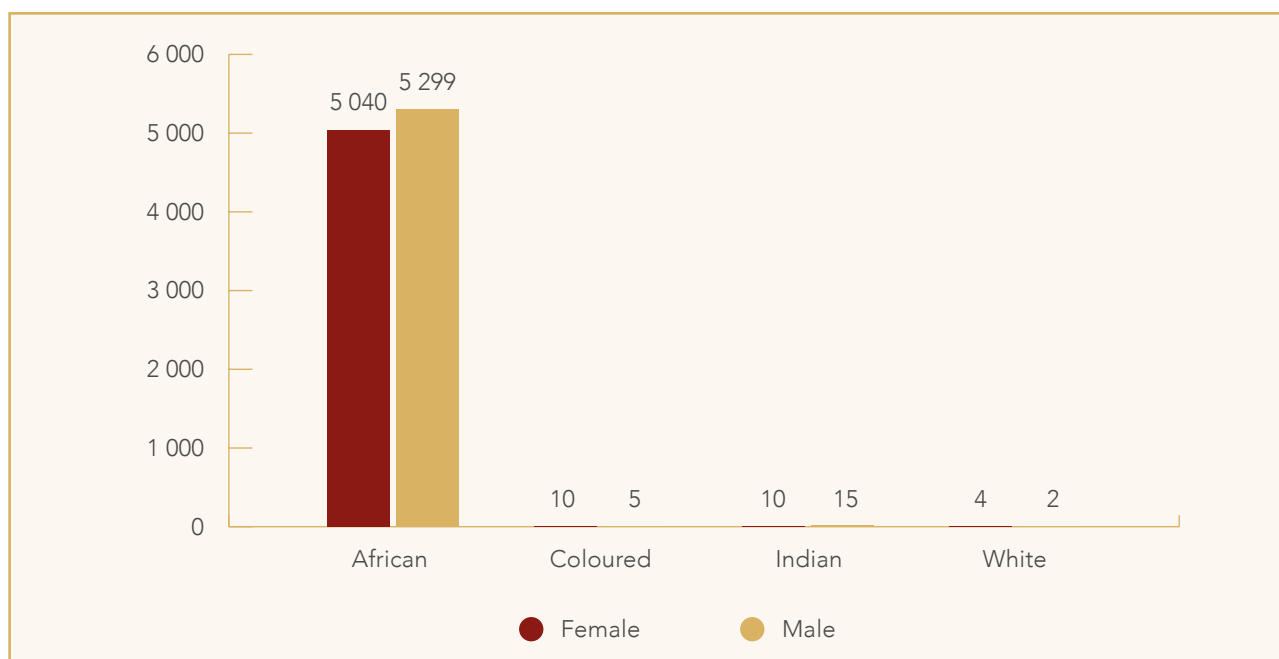


### 5.2.5.Race Profile

The University student population maintained a 100% (target: 99%) African representation as presented in Figure 5.6.

Figure 5.6: The MUT Student race profile.



## 5.3 Significant Academic Developments in Faculties

### 5.3.1. Faculty of Engineering

The Faculty of Engineering continued to address the skills shortage in the country by developing new programmes that directly address the skills needs identified by the government through programmes like the Strategic Integrated Projects (SIPs). In this regard, the Department of Electrical Engineering rolled out a suite of specialisation areas in the Electrical Engineering programme that are hoped to contribute positively in capacity building in the country. These specialisation areas were communicated extensively to all stakeholders, which include industry through its membership in the Industry Advisory Committee, and to students through an information-sharing roadshow. The areas of specialisation that are now open to our students are Process Automation and Control, Electronics and Telecommunication, Power Systems Engineering, Clinical Engineering, Computer Engineering, Marine Electronics Communication, Renewable Energy Engineering, and Mechatronic Engineering.

The proposed Higher Certificate in Electrical Engineering and Advanced Diploma in Electrical Engineering await endorsement by the Engineering Council of South Africa before they can be considered for PQM clearance by

the Department of Higher Education. The Advanced Diploma in Electrical Engineering will have specialisations in Process Automation and Control, Electronics and Telecommunication, and Power Systems Engineering.

#### Instruction

The mode of delivery for most of the subjects in the Faculty is through a careful combination of contact learning and e-learning platforms. Certain lecture venues have been converted to be compatible with the e-learning mode and to facilitate the incorporation of Learning Management Systems, like the Blackboard System. To further enhance this advancement, all simulation and modelling laboratories were equipped with computer-based audio-visual equipment. Industrial site visits added the necessary real-life experience for students in engineering to link what they learn in class and simulate in the laboratories to real life industry applications.

#### Limitations on Access to Certain Courses

Overfull classes posed a serious problem to the quality of teaching and learning where, in other instances, students were forced to attend lectures sitting on the floor. This has been brought to the attention of the Directorate for Institutional Planning and Research, and will be hopefully be addressed in due course. Serious limitations were