



ETHICS CLEARANCE

Dear Izuchukwu Okoye-Ogbalu -Student number: 220163698

Ethical Clearance Number: Sem 1-2023-001

Topic: Developing mathematics pre-service teachers' level of mental construction of two-dimensional and three-dimensional trigonometry

Ethical clearance for this study is granted subject to the following conditions:

- If there are major revisions to the research proposal based on recommendations from the Faculty Higher Degrees Committee, a new application for ethical clearance must be submitted.
- If the research question changes significantly so as to alter the nature of the study, it remains the duty of the student/researcher to submit a new application.
- It remains the student's/researcher's responsibility to ensure that all ethical forms and documents related to the research are kept in a safe and secure facility and are available on demand.
- Please quote the reference number above in all future communications and documents.

The Faculty of Education Research Ethics Committee has decided to: Approve

<input checked="" type="checkbox"/>	Grant ethical clearance for the proposed research.
<input type="checkbox"/>	Provisionally grant ethical clearance for the proposed research.
<input type="checkbox"/>	Recommend revision and resubmission of the ethical clearance documents.

Kindly be informed that this ethical clearance is only valid for three years.

Sincerely,

A handwritten signature in black ink, appearing to read "Mdu Ndlovu".

Prof Mdu Ndlovu

Chair: FACULTY OF EDUCATION RESEARCH ETHICS COMMITTEE

The Faculty of Education Research Ethics Committee comments:

Low risk, high benefit. Must just indicate that students who choose not to participate in the study will still be allowed to take part in the scheduled lecture. You should also indicate how sampling was done - i.e. why were these pre-service teachers selected?