

Mathematics Induction Course for MTHS111 (MIC) 2025 for FNAS and FENG students

Aim of the Mathematics Induction Course for MTHS111 (MIC)

The main purpose of the MIC is to help first year students to adapt to the high pace of first year Mathematics and to improve the pass rate. To cope with the fast pace and the large quantity of work, the MIC is of utmost importance. Work done at school is revised and new concepts are discussed. These concepts are frequently used during the year, so students will understand it easier since it has already been presented during the MIC.

The modules MTHS111/121 (Introductory Algebra and Analysis I and II) are prerequisites for many other Mathematics and Applied Mathematics modules. This includes students who are enrolled for programs that have Chemistry, Physics, Mathematics, Applied Mathematics, and Statistics as modules, as well as all engineering students. Students taking these modules can easily fall behind because their study time is extended by at least one year if they fail MTHS111/121. Engineering students and BSc students with MTHS111, cannot continue with any second year Mathematics or Applied Mathematics modules. It is therefore very important that they pass MTHS111/121 the first time.

Presentation of the MIC

The MIC is starting now. It consists of a workbook that you must work through during the time between the matriculation examination and the commencement of the Registration and Orientation Period (R&O Period) from 1 to 8 February 2025, an on-campus session during the R&O Period and a test. The MIC costs R500 and will be deducted from your NWU account by the end of March 2025. You will need an exercise book of at least 192 pages, a pen or pencil, at least 50 hours, and dedication to complete the course.

Download the workbook. Start working on it immediately. It will take you approximately 50 hours to work through it. This workbook must be completed by 1 February 2025. Additional help is available on the online platform eFundi. Once you are registered as an NWU student (<https://studies.nwu.ac.za/af/studies/registrasie>), you will gain access to this platform. From this platform you will also have access to an AI Mathematics tutor, MindJoy, who will assist you.

Help with the use of the eFundi platform and MindJoy will be provided during the MIC session in the R&O period. See the programme (<https://studies.nwu.ac.za/studies/first-year-students-2025>), for details regarding the sessions and times during which the computer laboratories will be available for the use of the eFundi platform and MindJoy.

The MIC test contributes to your final mark for MTHS111. If you achieve more than 70% in all sections of this test, you can consider yourself sufficiently prepared for MTHS111. A practice test is available on eFundi.

There will be two opportunities to write the test.

- The first opportunity is during the first class opportunity for MTHS111 in the week of 10 February 2025.
- The second opportunity is during the fourth week of the semester.

The best mark will be used.

Access to eFundi

To access the MIC eFundi page, you must do the following.

- Register for the module MTHS111. If these modules are not listed, contact your faculty officer urgently. (<https://studies.nwu.ac.za/studies/registration>)
- Set up your NWU password and email: <https://services.nwu.ac.za/ithome>
- Go to the eFundi website <https://efundi.nwu.ac.za/portal/> and sign in with your NWU number and password.
- To receive notifications from the eFundi platform, you must activate your NWU email address. <https://services.nwu.ac.za/information-technology/student-email>

Students obliged to complete the MIC

Students admitted to the following programs must attend the MIC:

- Faculty of Engineering
 - Chemistry (7CG K03 - I401P)
 - Computer and Electronics (7CH K01 - I424P)
 - Electrical and Electronics (7CN K01 - I423P)
 - Electromechanical (7CL K01 - I425P)
 - Industrial (7CK K01 - I437P)
 - Mechanical (7CJ K01 - I426P)
 - Mechatronics (7CR K01 - I401P)
- Faculty of Natural Sciences
 - Actuarial Science (2FQ H01 - N301P)
 - Applied Mathematics and Chemistry (2FF H13 - N301P/M)
 - Applied Mathematics and Electronics (2FF H14 - N301M)
 - Applied Mathematics and Mathematics (2FG H03 - N301M)
 - Business Analytics (2FR H01 - N301P/V)
 - Chemistry and Computer Science (2FF H31 - N301M)
 - Chemistry and Geography (2DJ H18 - N301M)
 - Chemistry and Mathematics (2FF H11 - N301P/M)
 - Chemistry and Physics (2FF H05 - N301P/M)
 - Computer Science and Economics (2FF H28 - N301P/V)
 - Computer Science and Electronics (2FF H17 - N301M)
 - Computer Science and Mathematics (2FF H09 - N301P/M/V)
 - Computer Science and Statistics (2FF H26 - N301P/V)
 - Electronics and Mathematics (2FF H19 - N301M)
 - Electronics and Physics (2FF H20 - N301M)
 - Financial Mathematics (2FS H01 - N301P/V)
 - Geography and Applied Mathematics (2FF H30 - N301P)
 - Information Technology and Computer Science (2DX H01 N302P/V) if MTHS111 is elected
 - Mathematics (2FG H01 - N301P)
 - Mathematics and Economics (2FF H29 - N301P/V)
 - Physics and Applied Mathematics (2FF H24 - N301P/M)
 - Physics and Computer Science (2FF H25 - N301P/M)
 - Physics and Mathematics (2FF H23 - N301P/M)
 - Quantitative Risk Management (2FT H01 - N301P/V)
 - Statistics and Mathematics (2FG H02 - N301P/V)
- Faculty of Arts
 - Any BA with Mathematics as elective
- Students appointed by the Admission office or Faculty Manager to attend the course for possible admission

Contact us

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