

UGM has **vision** to be excellent and innovative world class university, imbued with nation's cultural values based on Pancasila as the state ideology and dedicated to the nation's interest and humanity. The **mission** of UGM is to carry out education, research and community service as well as preservation and development of knowledge that is excellent and useful for society.

One of the faculties in UGM is Faculty of Mathematics and Natural Sciences (FMNS). FMNS was born in September 19, 1955 based on the decision of the Ministry of Education and Culture No. 53759/Kab in 15 September 1955. At first time, the FMNS' name was **Fakultas Ilmu Pasti dan Alam (FIPA)** and starting from 28 December 1982, FIPA was changed to be FMNS based on KEPRES RI No. 53 in 1982.

FMNS has a **vision** to be a well-known and an excellent faculty, both internationally and nationally, through activities in educations, researches and community services, and to have graduates that competent in their field, literate in information technology, entrepreneurial and able to compete nationally and internationally. The **missions** of the FMNS are:

1. To carry out researches-based education in mathematics and natural sciences from bachelor up to doctoral degree which have potentially to grow world-class graduates in all study-programmes and departments.
2. To carry out basic researchs and their applications in an integrated and internationally level that support development of sciences and technologies for the welfare of nation and mankind in all study-programmes and departments.
3. To enhance the role of the faculty via series of activities which bring benefit to the societies through utilization of mathematics and natural sciences that supporting social welfare in all aspects materially and spiritually.
4. To enhance the role of the faculty in the industry, information and communications technologies, environments, health and economics, so that the industry can be convinced and invited to work together to develop sciences and their applications
5. To enhance the faculty as a center of research services, training, consulting, and services in the fields of sciences and their applications.
6. To enhance the faculty as a good-governance institution in order to support the transition of the university as an independent university.

At the present time, the FMNS UGM offers 15 study programmes consisting of 7 (seven) undergraduate programmes, 4 (four) master programmes, and 4 (four) doctor programmes, which spread at the 4 (four) departments. One of the departments in FMNS is the Department of Mathematics. The Department of Mathematics offers 4 study programmes, namely: Undergraduate Programme of Mathematics (UP-Math), Undergraduate Programme of Statistics (UP-Stat), Master Programme of Mathematics (MP-Math), and Doctor Programme in Mathematics (DP-Math). So, the UP-Math is one of the seven undergraduate programmes offered by the Faculty of Mathematics and Natural Sciences, UGM. Comparing to the others, UP-Math is the oldest programme at the faculty. It was founded on September 19, 1955. The programme was initially born under need of the civil engineering programme at the faculty of engineering UGM. It was the only programme of FIPA until 1956. Actually the preparation itself has been initiated by the late Prof. Ir. RMJT Soehakso as a part of the Civil Engineering Programme at the Faculty of Engineering UGM in 1950.

The department has a **vision** to be an internationally level department in educations, researches, and development of mathematics and community services. The **missions** of the department are:

1. to enhance and promote the applications of mathematics as a pillar of science and technology development.

2. to stimulate, continue, maintain and empower the research groups in Mathematics in order to provide internationally level of basic and applied researches, especially those supporting the development of science and technology.
3. to enhance the appreciation of mathematics in the society through several activities in the context of mathematical grounding.

Relating with the vision and the mission of the university, faculty, and department, UP-Math has formulated the following vision and mission.

VISION of the UP-Math
In 2025, the UP-Math becomes an outstanding Study Programme of Mathematics, recognized and leading nationally and internationally in theory and its applications.
MISSION of the UP-Math
<ol style="list-style-type: none"> 1. Develop learning activities through new innovations to improve the quality, efficiency and relevance of mathematics learning. 2. Develop research culture in groups of expertise to support mathematical research and its applications. 3. Develop the role and applications of mathematics in various fields, to make a mutually beneficial cooperation between the UP-Math and mathematics users. 4. Make the UP-Math as a study program that has a credible, transparent, accountable and responsible management system.