

Learning Outcomes for the Master Program in Mathematics

A graduate of the Master's Program in Mathematics (Both Thesis track and Comprehensive track) must demonstrate:

1. Ability to understand the issues of advanced mathematics and the ability to analyze and connect them.
2. Ability to show and prove knowledge and understanding in the advanced level of the subjects of algebra (groups, rings, fields, modules, theory of numbers, etc.)
3. Ability to demonstrate and prove knowledge and understanding at the advanced level of mathematical analysis (real, complex, functional, differential equations, measure theory, etc.)
4. Ability to demonstrate and demonstrate knowledge and understanding at an advanced level of topology (general topology, algebraic topology, differential topology, engineering topology, etc.)
5. Ability to demonstrate and demonstrate knowledge and understanding at an advanced level of numerical analysis vocabulary (computation of dynamic values, interpolation, induction, regression, equation solving, equation systems, intrinsic value, optimization solution, differential equations, etc.)
6. Ability to demonstrate and prove knowledge and understanding at the advanced level of the vocabulary of applied mathematics (ordinary differential equations, partial differential equations, etc.)
7. The ability to generate information through mathematical reasoning and reasoning.
8. To have some knowledge in the philosophy of mathematics and the ability to build mathematical evidences and apply the unified infrastructure of mathematics in various branches.
9. The ability to find relevant scientific sources related to specific mathematical problems that need to be resolved.
10. To have knowledge in the theories of learning and teaching related to teaching university and secondary.