

Division of Mechanical Science and Engineering	Research field	Applied Mathematical Structures	Lab. ID ME02
Laboratory web site			
Research subjects			
In this laboratory, we research for pure Mathematics (real analysis, low dimensional topology, partial differential equation). The research theme in master's course is decided in consideration of the applications to the mechanical field. For instance, the students can choose the theme such as knot theory, theory for viscous conservation law and so on. In doctor's course, they can learn more specific contents such as the research of classification problem on 3- and 4-manifolds, analysis for compressible viscous fluid and so on.			
Master/Doctor course: Education policy, curriculum, typical activity in the laboratory			
The research fields of our laboratory (Mathematical Foundation of Mechanical Systems) consist of "Applied Mathematical Analysis" and "Applied Mathematical Structures". In master's course, the students give a seminar with advising teachers on a regular basis. Also, they give a talk for explaining the progress of their research in front of all members in our laboratory. In doctor's course, the students have seminars with their advising teachers individually. Students can have remote seminars with their advisors.			
Daily life in the laboratory, etc.			
We have computers in our laboratory in which Mathematica and Maple has been installed, and it is available to apply them for numerical computations or simulations. We recommend especially for master's students to come to the laboratory in the morning and live a regular life. We strongly wish you to use this enough time meaningfully and to spend a fruitful research life.			
Message or comments by the laboratory faculty staffs			
First, the students learn the basical knowledge of pure mathematics. We advise the students to think of mathematics by using their own brains. Sometimes it would be not easy but we hope the students to feel the joy or accomplishment after their persevering efforts were finally rewarded. The place of employment after the graduation is wide-ranging. The companies concerning mechanics will be chosen mostly but some students have choices to find employment related to computer systems. It would be also considerable to proceed to a graduate school in the mathematical course.			
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