

Hydrology and Water Resources

The program in Hydrology and Water Resources aims at cultivating high-level academic individuals with comprehensive fundamental knowledge and theory of hydrology and water resources, who are capable of getting insight into the status and development trend of hydrological science, and have good international visions, honest and team-work spirits. The program also aims at training high-level researchers who know about Chinese culture, are able to use the Chinese language for daily communication, and have the ability of using computers and English to carry out scientific research and academic exchange.

The program is designed to provide students with an intellectual environment to explore the knowledge and principles in hydrology and water resources through research project under guidance of an experienced supervisor. Through the program, students have opportunities to develop their problem-solving ability with new knowledge and skills, and to make their own contributions to their research field.

Hydraulics and River Dynamics

The program aims to foster highly qualified specialists in the field of Hydraulics and River Dynamics with the consolidation of their basic theories, systematic professional knowledge and necessary engineering practice, and the development of their ability on scientific research and technological work. They should fully understand the frontier technology and development trend in this research field, read the English documents and papers frequently in this discipline and related fields, have a strong ability to write English documents and be active in the international academy communication. They are able to solve the technical problems and carry out their research work with the proficient application of the fundamental theories, advanced computational methods and experimental technology, and then be fully qualified for the work on higher education, scientific research, planning, design and management.

Hydraulics Structure Engineering

The program aims at cultivating advanced professional individuals in the fields of hydraulic structure engineering. The candidate should: 1) be equipped with comprehensive fundamental knowledge and theory in this discipline; 2) be capable of doing research work or undertaking expertise work independently in the scientific research; 3) read the English documents and papers in this discipline and related fields, write English documents and be active in the international academy communication.

Water Conservancy and Hydropower Engineering

The program aims to foster highly qualified specialists in the field of Water Conservancy and Hydropower Engineering with the consolidation of their basic theories, systematic professional knowledge and necessary engineering practice, and the development of their ability on scientific research and technological work. They should fully understand the frontier technology and development trend in this research field, read the English documents and papers frequently in this discipline and related fields, have a strong ability to write English documents and be active in the international academy communication. They are able to solve the technical problems and carry out their research work with the proficient application of the fundamental theories, advanced computational methods and experimental technology, and then be fully qualified for the work on higher education, scientific research, planning, design and management.

Harbor, Coastal and Offshore Engineering

The program in Harbor, Coastal and Offshore Engineering aims at cultivating high-level individuals with solid fundamental knowledge in the theory of harbor, coastal and offshore engineering, who are capable of handling complex technical problems in harbor, coastal and offshore engineering projects, can undertake research and development project in large engineering companies or teaching and research work in academic institutions.

Agricultural Engineering

The Master students should have cooperative spirits in the team work and have the innovative spirit in researches. In addition to master the basic theory of agricultural engineering disciplines, the Master after graduation should also have the ability to solve scientific problems and have comprehensive understanding of the discipline, as well as having the ability to do the scientific research independently and solve the practical problems efficiently. Overall, the aim of this discipline is to cultivating academic talents for the rational utilization of agricultural water and soil resources all over the world.

Civil Engineering

The program in Civil Engineering aims at nurturing high-level professional individuals working on railway, highway and hydraulic engineering, and on embankment, structure, bridge, tunnel, slope as well as underground engineering. The students should be capable of (1) understanding fundamental knowledge in the theory of Mathematics, Mechanics, Geology, and systematic engineering professions; (2) modeling and analyzing complex technical problems; (3) using fundamental theory, advanced computational methods and experimental techniques to conduct research; and (4) undertaking R&D positions in large complex projects; and (5) excelling in education and research in universities and research institutes.

The program is designed to provide students with an intellectual environment to explore the knowledge and principles in Civil Engineering through research projects under the guidance of supervisors. Through the program, students have opportunities to develop their problem-solving ability with new knowledge and skills.

Environmental Science and Engineering

The program in the Environmental Science and Engineering aims at cultivating high-level individuals with solid fundamental knowledge in the theory of mathematics, chemistry, biology, mechanics and computer application. After graduation, the students are capable of handling complex technical problems in environmental protection, undertaking research and development project in engineering companies or teaching and research work in academic institutions.

The program is designed to provide students with an intellectual environment to

explore the knowledge and principles in Environmental Science and Engineering through research project under guidance of an established professor (PhD supervisor). Through the program, students have opportunities to develop their problem-solving ability with new knowledge and skills, and to make their own contributions to their research field.

Resettlement Science and Management

The discipline is to train resettlement personnel with the solid and fundamental knowledge in theories and methods of management sciences and economics, who master the knowledge of resettlement science thoroughly and systematically, and is able to undertake research on resettlement science or work on resettlement technical work independently.

Public Management

The master program in public management aims to cultivate high-level professional talents with comprehensive knowledge and theories of international public management, who are capable of getting insight into the status and trend of the discipline of public management, and have good international visions, honesty and team-work spirits. The programs aims at training excellent academic individuals who are skilled in dealing with public management issues and public policy analyses, and applying the specialized knowledge and professional skills on management science, politics, economics, law and modern technology to develop theories and to solve practical problems in public management filed.

The program is designed to provide students with excellent environment and intellectual guidance to know the frontier of international public management and its trends of theoretical development, to master the knowledge, principles and multiple skills in public management, to expertly resolve practical or theoretical problems relevant with public management via research project supervised by experienced professors or experts. Through the program, students' professional skills, specialized knowledge, and related problem-solving abilities would be greatly improved, which are necessary to make their own contributions to their research fields.