

# MASTER OF SCIENCE IN INTEGRATED WATER RESOURCE MANAGEMENT (MSc. in IWRM)

OFFERED BY THE UNIVERSITY OF PRISHTINA 'HASAN PRISHTINA' IN PARTNERSHIP WITH THE UNIVERSITY 'HAXHI ZEKA', PEJE, AND IN COOPERATION WITH TH KÖLN, GERMANY



Technology  
Arts Sciences  
TH Köln

## INTRODUCTION

Water is a vital resource essential not only for the well-being of individuals but also for economic progress. The scarcity of water resources in the future could potentially limit economic and social development. Therefore, the need for experts who can address water resource planning, management, and multi-sectoral problem-solving is paramount. The Master of Science in Integrated Water Resource Management (MSc. in IWRM) program is designed to equip professionals with the skills and knowledge needed to tackle crucial water-related challenges, including efficient water use, protection, and restoration of degraded ecosystems.

## Program HIGHLIGHTS

- **Comprehensive Curriculum:**  
Gain a multidisciplinary understanding of water resource management, preparing you for diverse challenges.
- **Expert Faculty:**  
Learn from accomplished professors and lecturers with international experience (Germany, Switzerland, Austria, Italy, Poland), enriching your education.
- **Hands-on Learning:**  
Engage in a blend of theoretical and practical work using cutting-edge facilities, laboratories, and software.
- **Real-world Exposure:**  
Explore modern water management facilities and sites through study visits, enhancing your practical insights.
- **Duration:**  
Complete the program in three semesters (90 ECTS), with a fourth semester for internships and Diploma Thesis (30 ECTS) or 120 ECTS in total.
- **Recognized Degree:**  
Earn a Master of Science degree in IWRM, from the University of Prishtina "Hasan Prishtina".

## Post-Program PROSPECTS

Upon successful completion of the program, you can look forward to:

- **EU-standard Knowledge:**  
Acquire up-to-date international knowledge on environmental, economic, legal, and social aspects of water resources management.
- **Holistic Approach:**  
Develop problem-solving skills by adopting a multidisciplinary perspective, bridging science and management.
- **Leadership Roles:**  
Qualify for leadership positions in public and private water organizations, driving change.
- **Domestic and International Career Opportunities:**  
Unlock diverse career opportunities in your home country, the region, and beyond.
- **Network of Excellence:**  
Join a community of experts committed to advancing Integrated Water Resource Management.

Students will be engaged in theoretical and practical work using cutting-edge facilities of **water quantity and quality laboratories, and computer room for software modelling available at University of Prishtina and University of Haxhi Zeka.**





## Structure of the MSc. in IWRM

The state-of-the-art program curriculum comprises the following compulsory and elective courses:

### Compulsory

- Introduction: IWRM and Water Security
- Hydrology and Hydrometry
- Water Economics and Financial Instruments for the Implementation of IWRM
- Biophysical Characterization of Water
- Water Conservation and Water Efficiency
- Environmental Monitoring and Data Analysis
- Water Legislation & Governance
- Flood and Drought Management
- Climate Change: Risk and Resilience
- Geospatial Tools for IWRM Implementation
- Water and Conflicts-power and politics in the Water Sector
- Ecosystem Based Management
- Hydraulic Structures

### Electives

- Research Methods and Study Design
- Project Management
- Meteorology
- Water and Agriculture
- Public Health
- Sustainable Development Goals
- Hydro-Informatics/Hydraulic Modeling
- Entrepreneurship
- Watershed Management

## Application Requirements & Procedure

The public announcement comes from the University of Prishtina in coordination with the Faculty of Civil Engineering and specifies the admission criteria. For more information on the public announcement, please refer to the **University of Prishtina's web page** (<https://uni-pr.edu>) and the **Faculty of Civil Engineering's web page** (<https://fin.uni-pr.edu>) from 15th of September 2023. Admission requirements are consistently and fairly applied to all applicants.

### TO APPLY, YOU SHOULD:

- **Hold a Bachelor's Degree:** Possess at least a bachelor's degree, regardless of your academic background (engineering, natural sciences, economics, legale, etc.).
- **Relevant Experience:** Prior professional or internship experience related to water resources management is advantageous.
- **English Proficiency:** Exhibit excellent English language skills to engage effectively.
- **Motivation and Aspiration:** Demonstrate a strong drive to address the water crisis and contribute to the international water sector.
- **Leadership Potential:** Display willingness to take on leadership roles in the future.



Figure: Most relevant prior academic backgrounds for the MSc. in IWRM

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