



HUMANITARIAN WATER, SANITATION, AND HYGIENE (WaSH) Master's (MSc) Degree

GERMAN JORDANIAN UNIVERSITY
School of Natural Resources Engineering
and Management



PROGRAM DESCRIPTION

Study Type:

Applied Master's degree (36 Credit hours) with %60 of practical exercises including excursions and a 5 days humanitarian response field simulation. The program is integrated with technical and managerial competencies. Most lectures and labs are delivered face-to-face from 5:00 PM to 8:00 PM at GJU campus in Amman. A minimum of %25 of the courses will be delivered as crash courses by humanitarian experts who have extensive field experience to share with students. Courses are delivered in evening classes over 3 to 5 days per week. The two academic years entail three semesters and a summer semester of theoretical education at GJU, and a final semester to complete the Masters thesis and undergo a practical internship in a humanitarian organisation, this internship links young professionals with relevant institutions to develop field experience, ensuring that students gain both theoretical and practical skills to equip them as the next generation of humanitarian practitioners for their region.

Timeline:

- You could be graduated in no more than 2 years.
- Call for application 2023: **July-August**
- Application closure: **31 August**
- Application result: **September-October**
Registration: **October**

Program Structure:

- 4 semesters of lectures and labs (24 credit hours)
- Internship 4 months (3 credit hours): **February – June**
- Thesis (9 credit hours): **February – June**

Prospects:

With the professionalisation of the humanitarian sector, as well as with nationalisation of key position within organisations, the job market is very dynamic. The international Master's program in

WaSH prepares students for professional activity in high positions in various areas of the water, sanitation, and hygiene promotion in humanitarian. This MSc will open the door to a management position that quickly leads to upper position at national level. If the main employers are usually humanitarian organisations, this will not refrain you working in the public or private sector. Governmental bodies are in the front line of humanitarian response when private organisation often have charity activities or technical activities related to water, sanitation, or hygiene. Humanitarian allows activities often have an international network that allows their staff to either work in their country of origin or be deployed for assignments all over the world. Humanitarian organisations are expecting personal commitment, flexibility, and social skills from their staff. Respond to an emergency to cover the basic needs of people in a timely manner is lifesaving activities. If the humanitarian sector is often offering stable jobs with competitive salary and packages, organisations require committed staff able to practice empathy in their daily work.

Program Objectives:

The WaSH humanitarian master's program aims to educate and train students to access position of WaSH program managerial position within humanitarian organisation. The program objectives rely on providing the students with the following solid operational, technical, and managerial competencies:

- To understand humanitarian principles and international laws
- To acquire knowledge and experience on the various steps of project cycle management (PCM) related to WaSH interventions
- To acquire knowledge and experience to take into account humanitarian concepts and cross-cutting issues into programming
- To acquire skills in leadership, HR management, logistics, security, computer, reports writing, communication,

networking needed in humanitarian projects management and coordination

- To understand the ethics of the humanitarian work

Learning Outcomes:

Humanitarian Infrastructure

- Apply humanitarian principles, of international and domestic law into programming
- Design projects according to national and humanitarian standards
- Integrate Sustainable Development Goals, the Grand Bargain, and the Humanitarian-

Development Nexus into programming

- Ensure WaSH programming meet the needs of the affected population and use continuous functional, cost-effective technically and institutionally sound solution
- Be involved in contingency planning
- Coordinate with other stakeholders

Wash Project Cycle Management

- Mobilise resources
- Conduct needs assessment
- Conduct response analysis
- Design WaSH projects based on the needs assessment
- Design and implement contextually appropriate behaviour changes activities for appropriate practice in WaSH programming
- Design and implement contextually appropriate safe water supply, sanitation facilities, and hygiene interventions
- Design and implement specific interventions (conflict, displacement, urban context, natural



disaster, disease outbreak, WaSH in schools, health centres, etc.)

- Design and implement a preparedness and contingency planning
- Monitor and evaluate projects by identifying indicators, selecting tools to monitor the progress of the project and the impacts
- Report and carry out administrative and budget management of WaSH projects
- Ensure project continuous functionality, cost-effectiveness of project, and include an exit strategy.
- Draft calls for tenders and manage contracts with suppliers/contractors
- Supervise subcontractors' work

Humanitarian Concepts and Cross-Cutting Programming

- Support local partners for smart investment and capacity building (material, training plan, financial support, reporting skills, accountability, fundraising)
- Use local resources (materials and workforce) from the beneficiary community and local institutions when appropriate
- Mainstream gender and inclusion in WaSH programming
- Mainstream protection in WaSH programming
- Reduce the impact of WaSH programming on the environment
- Consider climate change and water scarcity situations and the energy nexus
- Promote livelihoods activities
- Guarantee accountability towards beneficiaries and participation
- Guarantee accountability towards donors and authorities
- Include rights-based approach in WaSH programming

Communication, Human Resources, Relation With Administration, Logistics, Security and Finance Department

- Recruit and manage competent staff
- Promote staff training
- Assess staff performance
- Apply code of conduct/safeguarding
- Follow on procurement procedures and finances expenditures
- Assess security context and risks
- Apply security and safety rules while implementing activities
- Communicate appropriately

Ethics and Behaviour

- Develop empathy towards people involved in the projects
- Understand and apply the humanitarian principles and code of conducts into programming.
- Show cultural sensitivity
- Manage stress and adapt to the situation

Minimum Requirement and Candidate Selection Process:

- Be a holder of an undergraduate degree in any field of study from a recognised university with a minimum average of “good” in one of the following programs : water and/or sanitation management; public health, hygiene promotion, behaviour change, social work, hydraulics, hydrogeology, epidemiology, agronomy, chemistry, civil engineering, environmental engineering, environment science, chemical engineering, mechanical engineering.



environmental engineering, or environment science.

English Proficiency :

- Obtain a minimum TOEFL score of 120/90 or IELTS score of 6.5. Only a certificate delivered by accredited Jordan bodies are accepted. TOEFL iBT exam from the AMIDEAST Center. IELTS exam from the British Council, Oval International Academy, or UniHouse-for consultations and studies.
- Or obtain a minimum equivalent exam score of 75% from one of the following universities: German Jordanian University, Yarmouk University, the University of Jordan, the Hashemite University, or Mu'tah University. Additionally, the result of the equivalent exam should be approved by the Ministry of Higher Education, noting that (the holding of the equivalent exam was suspended by a decision of the Higher Education Council dated (20/10/2022)).
- For the international Applicants , it is permissible to take the TOEFL or IELTS exam from accredited centers in the country in which the applicant resides, provided that the applicant brings a document proving that the center is accredited by the country.
- The English exam should not be more than 2 years old.

- Passing the personal interview if mandatory.
- Recommendation letter from a party operating in the field of the Master's program and/or from previous academic professors.
- Motivation letter
- Candidate selection process:
- Grades of previous study weigh for %80 in the candidate selection when other criteria described below weigh for %20.
- Personal motivation to work in the humanitarian sector

Professional experience (humanitarian, private and public sector)

- Career plan coherent with the sector

Costing

The costs below are an estimation, which can vary from one year to another. Please refer to GJU website to have the last figures.

- Tuition Fees:
JOD 7,830 (JOD 1,170 + JOD 6,660)
 - General fees including registration, acceptance fees, exam fees, graduation fees, computer room fees and health insurance: JOD 1,170.
 - Course fees: JOD 6,660. (JOD 185 x 36 credit hours)
- Living cost:
JOD 5,670
 - Accommodation: JOD 270
 - Food and drink: JOD 160
 - Transport to university campus: JOD 120
 - Other JOD 80

Scholarship might be available for this specific program (please contact GJU for more details)

General Information:

- GJU does not dispose of its own dormitories. The Deanship of Students' Affairs/International office will help foreign students find a room for your stay in Amman. All the costs, however, will be covered by the student.
- There are GJU buses and public transportation options (buses) available at your own cost.
- It is the responsibility of each student to manage their own visa. Procedure depends on each country you are coming from. Some countries can obtain it on arrival, while others have to request it in the Jordanian embassies

in your place of residence prior to your travel to Jordan. GJU can support in providing documents such as acceptance letters to the program. Visa can be extended at country level and for a stay longer than 6 months, the GJU International Office can support in getting a residence permit from the Jordanian Ministry of Interior in case needed.

- The German Jordanian University offers all students an obligatory health insurance that enables you getting medical care on campus. In an urgent case, you will also get medical care at a hospital.



STUDY PLAN

Classification	Credit Hours
Compulsory Requirements	20
Elective Requirements	4
Internship	3
Master's Thesis	9
Total	36

First Year							
First Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect	Lab		
HWaSH 711	Humanitarian System and concepts	3	5	2	3	F2F	
HWaSH 721	Technical essentials: Water and sanitation	4	6	3	3	F2F	
HWaSH 741	Human Resources, logistics, security of humanitarian WaSH programs	2	3	1	3	F2F	
Total		9	14	6	9		

First Year							
Second Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect	Lab		
HWaSH 733	Budgeting, reporting, communication and partnership management essentials	2	3	1	0	F2F	
HWaSH 734	Budgeting, reporting, communication and partnership management lab	1	1.5	0	3	F2F	HWASH 733
HWaSH 722	Technical essentials: Behaviour change in water, sanitation and hygiene practices	3	5	2	3	F2F / OL	
HWaSH 799B	Master thesis	3	5	-	-	F2F	
Total		9	14.5	3	6		

First Year							
Summer Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect	Lab		
HWaSH 731	Humanitarian WaSH Project Cycle Management 1	4	6	2	6	F2F	
Total		4	6	2	6		

Second Year							
First Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect	Lab		
HWaSH 732	Humanitarian WaSH Project Cycle Management 2	4	6	2	6	F2F	HWaSH 731
HWaSH 751	Simulation exercise	1	1.5	0	3	F2F	
Total		5	6.5	2	9		

Second Year							
Second Semester							
Course ID	Course Name	Credit Hours	ECTS	Contact Hours		Type	Prerequisites / Corequisites
				Lect	Lab		
HWaSH 799C	Master thesis	6	9	-	-		
HWaSH 761	Internship	3	5	-	-		
Total		9	14	-	-		



Course Description

HWaSH 711 Technical Essentials: Water and Sanitation 4 Crs (3 Crs Lecture, 1 Cr Lab)

This course aims to provide students with a thorough understanding of the framework, principles, standards, and contexts of humanitarian aid, public health basic concepts, cross-cutting issues and approaches to WaSH in the Middle East.

The first part of the course includes an introduction to public health concepts, understanding basic of epidemiology and how to translate specific diseases into interventions, typology of crisis, and WaSH sector characteristics and human rights related to water and sanitation.

The second part of the course includes the following topics: applied geopolitics, humanitarian principles, standards and codes of conducts, the legal framework of humanitarian aid, stakeholders and coordination systems, and current challenges and developments in the humanitarian system.

The third part of this course deals with cross-cutting issues and humanitarian concepts such as protection, gender, participation of authorities and affected population, accountability, specific needs/marginalised groups, the environment and climate change, continuous functionality, localisation, livelihoods, and cash-based programming.

HWaSH 721 Technical Essentials: Water and Sanitation, 4 Crs (3 Crs Lecture, 1 Cr Lab)

This course aims to provide students with the fundamental technical knowledge and skills to implement emergency, recovery water and sanitation activities, and connection with development operations.

The contents include the basics of hydrogeology, topography, hydraulics, and energy.

The course also includes the design, development, maintenance and/or operation of: water sources, water treatment, water supply systems, water quality control techniques and methodology, integrated water resources management systems, drainage systems, liquid and solid waste management systems.

Theoretical concepts will be reinforced through practical exercises, labs, and field simulations.

HWaSH 722 Technical Essentials: Behaviour Change in Water, Sanitation and Hygiene Practices, 3 Crs (2 Crs Lecture, 1 Cr Lab)

This course aims to provide students with the fundamental technical knowledge and skills to implement behaviour change in water, sanitation, and hygiene practices of affected and host populations.

The contents include applied anthropology, social norms adaptation, awareness-raising methods and tools, barriers analysis, communication materials design, community engagement techniques, community-based management techniques, essentials of water conservation and good hygiene practices, hygiene-related health risks, and access to WaSH related Non Food Items.

**HWaSH 731 Humanitarian WaSH Project
Cycle Management Part 1, 4 Crs
(2 Crs Lecture, 2 Crs Lab)**

The first part of the course aims to provide students with methods and tools to conduct comprehensive assessments and analysis of WaSH context and the needs of affected and host populations.

The contents include: strategic design, understanding, assessment and analysis of epidemiological data, sanitary surveys, mapping and analysis of hydrology/hydrogeology data, needs assessment methods and tools, data analysis methods and tools, coordination with authorities and other stakeholders, and consolidated data, and applying standards principles.

The second part of this course focuses on methods and tools for monitoring, evaluating and learning for WaSH programs.

The content will include: monitoring and evaluation frameworks including data collection and processing systems, progress and evaluation reports, and knowledge management for learning. Theoretical concepts will be reinforced through practical exercises, labs, and field simulations.

**HWaSH 732 Humanitarian WaSH Project
Cycle Management Part 2, 4 Crs
(2 Crs Lecture, 2 Crs Lab)**

This course aims to provide students with methods and tools to plan, design and implement WaSH programs.

The first part of the course aims to provide



students with methods and tools to design and plan WaSH programs based on the results of the assessment and analysis data including integration with other sectors (health, education, camp management, shelter, logistic, etc.).

This includes the selection and/or adaptation, and/or operation and maintenance procedures of appropriate technical solutions in terms of water sources, water treatment, water supply, water quality control, integrated water resources management, liquid and solid waste management, behaviour changes, awareness-raising, communication materials design, WaSH Non Food Items and distribution strategy to fit the local and humanitarian context.

The second part of this course focuses on the operational application of WaSH activities, namely supervision of fieldwork, organising delivery of materials, organising teamwork, adapting resources according to project needs in the implementation of the following types of activities: water sources, water treatment, water supply, water quality control, integrated water resources management, liquid and solid waste management, awareness raising, developing communication materials, WaSH Non Food Items distribution within the local and humanitarian context.

The content will also include the consideration of cross-cutting issues and humanitarian concepts in the implementation of WaSH activities and specific interventions such as interventions in

conflict, displacement, urban context, natural disaster, disease outbreak, WaSH in schools, health centre, nutrition, etc. The contents also include: operational strategy methodology, theory of change, the logical framework and indicators, resources planning techniques, disaster risk reduction methods and tools.

The content also includes concept note and proposal writing.

Theoretical concepts will be reinforced through practical exercises, labs and field simulations.

HWaSH 733 Budgeting, Reporting, Communication and Partnership Management Essentials (Elective Course) 2 Crs (2 Crs lecture)

This course aims to provide students with the essential knowledge, practice and tools to comply with organisational procedures and donor guidelines in budget design, management and reporting, and to manage partnerships, and communication methodologies and tools.

The first part of the course includes topics related to the development of funding strategy, and humanitarian finance: abilities to understand budget structure and abilities to design, forecast and follow up budgets while respecting donor and organisation requirements.

The second part of the course focuses on reporting skills: activity report, technical report, donor report.

The third part of the course includes partnership: Memorandum of understanding,





types of partnerships, partner capacity audit and knowledge and experience sharing needs identification, partner coordination and monitoring, partner accountability process and partner's performance evaluation.

The fourth part of this course focuses on the theoretical aspects of communication in a multicultural context, negotiation skills, conflict management, advocacy, diplomacy, leadership, and facilitation of meetings.

HWaSH 734 Budgeting, Reporting, Communication and Partnership Management Practice (Elective Course), 1Cr (1 Cr Lab)

This course aims to allow students to practice their knowledge and skills in organisational procedures, donor guidelines, budget design, management and reporting, partnerships, and communication.

HWaSH 741 Human Resources, Logistics and Security Management, 2 Crs (1 Cr Lecture, 1 Cr Lab)

This course aims to provide students with the fundamentals of humanitarian human resources, logistics, and security management methodologies and tools.

The first part of the course includes topics related to humanitarian human resources: recruitment procedure, job description, appraisal and training and use of human resources procedure and tools, code of conduct, and leadership skills.

The second part of the course includes topics related to humanitarian logistics: basics of supply chain, procurement procedure, supplier contract types, tender and bidding procedure, and quality control of contractor's performance, bill of quantities, delivery, and transport planning. The third part of the course includes topics related to applied security rules in the field: understanding and compliance with security protocol and compliance with site safety conditions. Theoretical concepts will be reinforced through practical exercises, labs, and field simulations.

HWaSH 751 Simulation Exercise (Elective Course), 1 Cr (1 Cr Lab)

This simulation exercise aims to provide an opportunity for students to apply the full range of skills acquired in water, sanitation and behaviour change practices in a field situation. A part of this exercise will aim to develop the organisation security rules, analysis of the environment, context understanding, mitigation measure, staff monitoring in compliance to the student's capacity to develop an understanding of the situation of the affected population. The simulation exercise will bring together all the technical and management skills developed in the previous courses.



FOR MORE INFORMATION:

School of Natural Resources Engineering
and Management

+4444 429 6 962

Ext.: 4230 Administrative coordinator

4202 Academic Coordinator

info@gju.edu.jo

Website: gju.edu.jo

Social Media: Humanitarian Wash MSc

