The German Jordanian University (GJU) is a unique university in Jordan that follows the German Applied model of education. Via its structured courses that go hand-in-hand with practical relevance and enhanced embedded training, the university is to produce highly skilled and well-trained cadres and professionals. Subsequently, our graduates will possess the knowledge needed for them to compete for future careers and will, at the same time, be in a position to contribute effectively and efficiently to their country's comprehensive economic and social development. Moreover, the university is keen to serve as a centre for the incubation of a multicultural society, whereby international and multinational cultural relations, tolerance, dialogue, rapprochement, and mutual understanding are fostered in an environment of open-mindedness, respect for others opinions, and appreciation of their differences. The university has established close ties with over 60 German partner universities.

Since its inception in 2005, GJU has positioned itself as a leader and is currently ranked in the top 50 universities in the Middle East. It has demonstrated a potential in industrial partnership with national and international enterprises and now with a recognised humanitarian organisation. These partnerships will enable the university to offer non-traditional programs with strong theoretical and practical orientation focusing on regional needs for industrialisation, technological advancement, and humanitarian action. As you join our educational community, I invite you not only to work for a degree, but also to ponder the deeper meaning of your presence here. GJU pledges to provide you with quality instruction second to none.

Myself, the staff, and the faculty are looking forward to seeing you among us and assisting you in fulfilling your educational and personal goals.

President
Prof. Manar Fayyad
About GJU

The German Jordanian University, founded in 2005 and located in Mushaqar, Amman (Madaba), is a public, comprehensive university devoted to academic distinction in teaching, research, and community service. The University is based on the German applied-sciences model, characterised by their focus on putting knowledge into practice and on promoting knowledge transfer. By taking advantage of the best educational practices in both Jordan and Germany, the university has positioned itself as a leader in its field. The conduct of research, scholarship, and creative activities are at the core of the university, including multiple missions of education, research, service, and outreach to the nation, the region and beyond.

GJU is committed to advancing Jordan and the region through the benefits of higher education, offering undergraduate, master’s, and PhD programs as well as a variety of outreach and vocational training programs. The university focuses on providing undergraduate and graduate programs of the highest quality and offers over 20 programs, with around a 5,000 student body, drawn predominantly from Jordan, but also includes international students. GJU recognises research and also includes research-led teaching as primary responsibilities of its academic staff and places value on fostering, publishing, and disseminating research of the highest quality internationally.

The university’s mission, goal, and strategy statements reflect this strong emphasis on the importance of quality research. The university’s hallmark is a culture of engagement that bridges theory with practice by implementing practice-oriented teaching and applied research programs.

GJU aspires to become one of the region’s leading universities and to be highly regarded for its learning and teaching excellence, focused research and enterprise, multiculturalism, and effective engagement with the community.

A WORD FROM THE DEAN

The Humanitarian WaSH MSc program responds to a clear need related to the humanitarian situation in the Middle East region. The scarcity of water resources for example, coupled with the domination of protracted conflicts, will unfortunately affect the lives of millions for a long time. As Dean of the School of Natural Resources Engineering and Management (SNREM) at GJU, I am glad that Action Against Hunger (recognised international non-governmental organisation) chose GJU to implement a program so important to alleviate the suffering of people.

Students will have the opportunity to get a postgraduate diploma in Water, Sanitation, and Hygiene but from a humanitarian perspective, making the value of this project incalculable, especially to the region.

The SNREM understands and values the need and importance of this project, which aligns with our goal of being recognised as a lead university in the sector, in Jordan and the region. It makes us proud that such a master’s program is offered to our students to educate them on the link between engineering and social sciences. This program is the first of its kind in the Arab world, with very few only globally.

Humanitarian aid is crucial in our region, especially as man-made and natural disasters are chronic in the region.

It will take time for conflicts to be resolved and climate change will increase natural disaster occurrences such as floods or drought. Even when crises are over, it will take significant time until we can deal with their consequences. And for this reason, we need to train our people, the young professionals, to be up to it. Water, sanitation, and hygiene are critical for dealing with the aftermath of a crisis when you have refugees and displaced persons in areas that are not connected to the sewers system. For example, we have to ask: what can we do about this? How can we supply the people with fresh water, to do proper sanitation, to take care of...
hygiene issues while considering the specific needs of women, children, and people with disabilities?
With untold support from the partners like Bioforce, UNICEF, the Global WaSH cluster, Action Against Hunger, and many more, the program was developed over several years and different phases. Partners support creating this program are not only from the humanitarian sector but as well from academic, public, and private.
Thanks to donors and partners, SNREM is well equipped with the necessary pedagogical equipment. Course outlines and material have been designed with more than 30 humanitarian actors working in the Middle East. Long-term partnerships are secured with top humanitarian organisations to bring a humanitarian flavour during course delivery.

Dr. Arwa Abdelhay
Dean, 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. Most lectures and labs are delivered face-to-face during daytime at GJU campus. Students will be devoted to the program for the whole week from Sunday to Thursday. 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 on a full-time day class schedule with no flexibility. The program is integrated with technical and managerial competencies. The program is designed on an integrated and continuous process. Knowledge and competencies acquired during the first semester are necessary to apprehend the second semester of lectures and labs.

Timeline:
You could be graduated in no more than 1.5 years.
- Call for application: December
- Application closure: January
- Application result: January
- Registration: February

Program Structure:
- 3 semesters of lectures and labs (24 credit hours):
  - February – January
- Internship 4 months (3 credit hours): February – May
- Thesis (9 credit hours): October-December (Proposal) & February-June (Defence)

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 sta 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 sta. 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 sta 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 programing
- 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 (an average of "good" does not necessarily guarantee admission to the program): water and/or sanitation management; public health (hygiene promotion, behaviour change, social work); hydraulics; hydrogeology;
- The following fields could be considered under special conditions: epidemiology, agronomy, chemistry, civil 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. These are: British Council- Jordan Branch for IELTS and AMIDEAST- Jordan Branch for TOEFL
- Or obtain a minimum equivalent exam score of 675 from one of the following universities: German Jordanian University; University of Jordan; Yarmouk University; Hashemite University; Mu’tah University
- The English exam should not be more than 2 years old.
- The students can get conditional acceptance based on their score in TOEFL or IELTS from other than the centres mentioned above. Provided that, re-examining the TOEFL, IELTS or the equivalent exam from the accredited bodies in Jordan. The pass result must be submitted to the Deanship of Graduate studies before the teaching starts.

- Passing the personal interview if required.
- 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.
- This is the responsibility of each student to manage its 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

<table>
<thead>
<tr>
<th>Classification</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Compulsory Requirements</td>
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<tr>
<td>Elective Requirements</td>
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<tr>
<td>Internship</td>
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<tr>
<td>Master's Thesis</td>
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### First Semester

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<th>Credit Hours</th>
<th>Lecture</th>
<th>Lab</th>
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<tbody>
<tr>
<td>HWaSH 711</td>
<td>Humanitarian System and Concepts</td>
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<td>2</td>
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<tr>
<td>HWaSH 721</td>
<td>Technical Essentials: Water and Sanitation</td>
<td>4</td>
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<td>Technical Essentials: Social Science Applied to Water, Sanitation and Hygiene</td>
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<td>HWaSH 733/734</td>
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<td>HWaSH 731</td>
<td>Humanitarian Wash Project Cycle Management 1</td>
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<td>HWaSH 751</td>
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<td>HWaSH 799</td>
<td>Master Thesis (proposal)</td>
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<td>HWaSH 799</td>
<td>Master Thesis (defense)</td>
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**Total**
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.
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.

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
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,
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 1Crs. (Elective course) (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/uniFB00 monitoring in compliance to the student’s capacity to develop an understanding of situation of the a/uniFB00ected population. The simulation exercise will bring together all the technical and management skills developed in the previous courses.

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.
Master of Science Humanitarian Water, Sanitation, and Hygiene (WaSH)

School of Natural Resources Engineering and Management

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Humanitarian Wash MSc