



**FACULTY OF HEALTH & MEDICAL SCIENCES  
INSTITUTE OF ALLIED HEALTH SCIENCES**

**CURRICULUM**

**BS EMERGENCY MEDICAL TECHNOLOGY & DISASTER  
MANAGEMENT  
AUG 2020**



**UNIVERSITY OF AZAD JAMMU & KASHMIR  
MUZAFFARABAD**

**Associate Dean  
Dr. Bashir ur Rehman**



# Dean's welcome

Dear student and prospective student,

I welcome you wholeheartedly to the faculty of health and Medical sciences at the University of Azad Jammu & Kashmir.

The Emergency Medical Technology and Disaster Management Technologist is a highly qualified medical professional who is able to perform advanced level emergency care as it relates to assessment, treatment management and ongoing evaluation of the critically ill and injured patients. They are the key to patient's survival and well being to a variety of cases such as Automobile accident injuries, heart attacks, near drowning, unscheduled childbirths, poisonings, and gunshot wounds. Our four years Bachelor of Science program is tailored to equip you with knowledge, skills and attitudes that will make you a competent Emergency Medical Technologist. You will learn how to drive specially equipped vehicles to the scene of emergencies. There, you will be able to determine the nature and extent of the patient's injuries or illness and to give appropriate emergency care following strict guidelines. You will be trained to open airways, restore breathing, control bleeding, treat for shock, administer oxygen, immobilize fractures, bandage wounds, assist in childbirth, manage emotionally disturbed patients, treat and assist heart attack victims, give initial care to poison and burn victims, and treat patients with anti shock trousers. If it is required you will be trained to administer intravenous fluids, use defibrillators to give lifesaving shocks to a stopped heart, as well as other intensive care procedures. Further you will learn how to transport complicated cases to hospital under the step by step direction of a doctor by radio contact. After completing the course, you will be offered a professional Bachelor of Science degree. The degree is recognized nationwide and will qualify you to work as emergency medical technology and disaster management specialist. We have designed the course in a way that offers you the most interactive informal and encouraging environment conducive to learning. You will be encouraged to think critically to seek knowledge yourself and to translate theory into practice. Our curriculum is based on the art and science of helping you learn. The principles of our educational philosophy are that you are self directed learners have rich experiences and knowledge on which to draw, desire to learn to better handle real life situations, and see education as process that increases competence and leads to achievement of your full potential. Last but not least every facility that makes you enjoy learning shall be at your disposal.

I am confident that you will excel in this program and wish you all the best.

Dr. Bashir Ur Rehman

Associate Dean Faculty of Health & Medical Sciences.

## Objectives and curriculum

The goal of this four year bachelor of sciences degree program is to prepare Emergency Medical Technology and Disaster Management who are highly competent in the knowledge skills and professional demeanor consistent with local employer expectations and professional standards. The specific objective of the program is to produce Emergency Medical Technology and Disaster Management Technologists with the capabilities to:

- Function safely, effectively and efficiently and exhibit ethical behavior in an emergency medical role.
- Drive ambulance vehicles safely and efficiently to the emergency scene.
- Apply basic biomedical scientific principles for safe management of medical and surgical emergencies at pre hospital care level.
- Apply procedures for basic and advanced life support.
- Administer drugs and fluids orally and parentally following strict protocols for life saving of patients in the life threatening situations.
- Apply effectively and safely procedures for hemorrhage control and fracture and spinal Immobilization / Management.
- Transport patients to hospital safely and quickly.
- Use mobile equipment for monitoring of patient's vital signs and electrocardiography during transportation.
- Carry out critical care procedures during transportation out under the step by step direction of medical personnel by radio contact.
- Apply knowledge of interpersonal communication when working with patients, patients significant others colleagues and other members of the healthcare team.

The curriculum is designed to prepare students to work anywhere in Pakistan and abroad as highly qualified Emergency Medical Technology and Disaster Management Technologist. In the regard, the curriculum meets international standards and ensures that students master world class performance competencies. Subject are taught over eight semesters the duration of each semester is 20 weeks. A Maximum of 24 Credits can be obtained in a single semester. The Bachelor of Science in Emergency Medical Technology and Disaster Management Sciences is awarded when the student accumulates a total of 124 credits.

In the fourth study year students are required to complete an eight weeks practicum in an accredited institution attend particular honors seminars undertake independent research and write an honors thesis in a major subject.

**Title of Degree: BS EMERGENCY MEDICAL TECHNOLOGY & DISASTER MANAGEMENT**

**Minimum Duration: 08 semesters**  
**First four semesters on Campus**  
**Last four semesters in Teaching Hospitals**

**Total Duration: 08-12 semesters**

**Total Credit Hours: 124 credit hours**

**List of Affiliated Teaching/Training hospitals:**

- **HH SKBZ CMH Muzaffarabad**
- **Abbas Institute of Medical sciences (AIMS) HOSPITAL Muzaffarabad**
- **Divisional Head Quarter Hospital Mirpur**
- **Rawalpindi Institute of Cardiology Rawalpindi**

**SCHEME OF STUDIES****BS EMERGENCY MEDICAL TECHNOLOGY & DISASTER MANAGEMENT****1<sup>st</sup> Semester**

<b>Code</b>	<b>Course Title</b>	<b>Credit Hour</b>
BMT-3101	Anatomy– I	3 (2 + 1)
BMT-3102	Physiology – I	3 (2 + 1)
BMT-3103	Biochemistry – I	3 (2 + 1)
BMT-3104	Microbiology – I	3 (2 + 1)
BMT-3105	Pakistan Studies	3 (3 + 0)
BMT-3106	Introduction to Computer & IT	3 (3 + 0)
<b>Total Credit Hours</b>		<b>18</b>

**2<sup>nd</sup> Semester**

<b>Code</b>	<b>Course Title</b>	<b>Credit Hour</b>
BMT-3201	Pathology	3 (3 + 0)
BMT-3202	Anatomy– II	3 (2 + 1)
BMT-3203	Physiology – II	3 (2 + 1)
BMT-3204	Biochemistry – II	3 (2 + 1)
BMT-3205	Microbiology – II	3 (2 + 1)
BMT-3206	Islamic Studies	3 (3 + 0)
<b>Total Credit Hours</b>		<b>18</b>

**3<sup>rd</sup> Semester**

<b>Code</b>	<b>Course Title</b>	<b>Credit Hour</b>
BMT-4301	Pathology – II	3 (2 + 1)
BMT-4302	Pharmacology – I	3 (2 + 1)
BMT-4303	Emergency Medicine	3 (3 + 0)
BMT-4304	Critical Care – I	3 (2 + 1)
BMT-4305	Arabic	3 (3 + 0)
<b>Total Credit Hours</b>		<b>15</b>

**4<sup>th</sup> Semester**

<b>Code</b>	<b>Course Title</b>	<b>Credit Hour</b>
BMT-4401	Pharmacology – II	3 (2 + 1)
BMT-4402	Critical Care – II	3 (2 + 1)
BMT-4403	Emergency Medicine-II	3 (3 + 0)
BMT-4404	Applied Physics and Engineering Sciences	3 (2 + 1)
BMT-4405	Epidemiology and Biostatistics	2 (2 + 0)
BMT-4406	English Communication Skill	2 (2 + 0)
<b>Total Credit Hours</b>		<b>16</b>

**BS EMERGENCY MEDICAL TECHNOLOGY & DISASTER MANAGEMENT****5th Semester**

Code	Course Title	Credit Hour
BMT-5511	General Emergency Management	4 (3 + 1)
BMT-5512	Trauma	4 (3 + 1)
BMT-5513	Resuscitation & Cardiac Life Support	4 (3 + 1)
BMT-5514	Clinical Practicum	3 (0 + 3)
<b>Total Credit Hours</b>		<b>15</b>

**6th Semester**

Code	Course Title	Credit Hour
BMT-5611	Common Emergencies	4 (3 + 1)
BMT-5612	Emergency Skills in Special disease	4 (3 + 1)
BMT-5613	Shock	4 (3 + 1)
BMT-5614	Clinical Practicum	3 (0 + 3)
<b>Total Credit Hours</b>		<b>15</b>

**7th Semester**

Code	Course Title	Credit Hour
BMT-6711	Fundamentals Disaster Management	3 (3 + 0)
BMT-6712	Principles of Disaster Management	3 (3 + 0)
BMT-6713	Disaster Preparedness	3 (3 + 0)
BMT-6714	Disaster Response/Crises Management	3 (3 + 0)
BMT-6715	Nutrition in Critical Care and Disaster Food Security	3 (3 + 0)
<b>Total Credit Hours</b>		<b>15</b>

**8th Semester**

Code	Course Title	Credit Hour
BMT-6811	Post Disaster Management	3 (3 + 0)
BMT-6812	Pre-Hospital Ambulatory Care	4 (3 + 1)
BMT-6813	Biomedical Ethics & Behavioral Sciences	3 (3 + 0)
BMT-6814	Research Methodology	3 (2 + 1)
BMT-6815	Research Project (Thesis)	3 (0 + 3)
<b>Total Credit Hours</b>		<b>16</b>