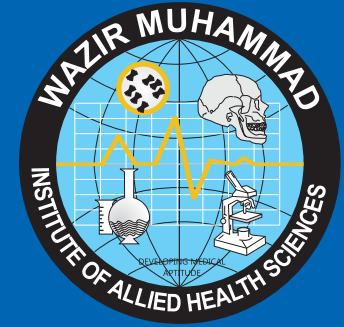




GANDHARA UNIVERSITY PESHAWAR

Wazir Muhammad
Institute of Allied Health Sciences



PROSPECTUS

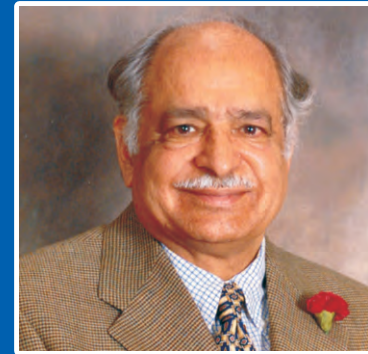
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THE FOUNDER

Prof. Surgeon Muhammad Kabir (Late)



Surgeon, educationist and philanthropist, Late Prof. Muhammad Kabir was the founder of Gandhara University, Kabir Medical College, Sardar Begum Dental College, Gandhara College of Pharmacy, Wazir Muhammad Institute of Paramedical Technology and the Farkhanda School of Nursing. All these educational training centers in health care are of national importance and repute.

Gandhara University is an eloquent testimony to the vision, motivation and hard work of Prof. Muhammad Kabir. His zealous imitative, dedication and energy inspired the team of Gandhara University thus motivating a collective effort that had achieved many milestones.

Professor Surgeon Muhammad Kabir was born on 7th December 1935. He had been associated with the medical field for over 45 years.

He got his primary education from Abbottabad, Dera Ismail Khan and Bannu. For his further education, he joined Islamia College Peshawar, following which he went to Dow Medical College, University of Karachi. During his house job he developed a taste for General Surgery and went to the UK for post graduate training. He completed his FRCS in General Surgery from Royal College of Glasgow and Edinburgh UK in 1966.

In 1966, upon his return from the UK he opted for teaching appointments, starting as Assistant Professor of Surgery at Khyber Medical College, Peshawar. He was promoted to the post of Associate Professor in 1971, at the age of 36: by 40, he was Professor of Surgery. He remained the Head of Surgery and Orthopedics Department till 1995.

During his career, Dr. Kabir served as an administrator Khyber Teaching Hospital and Lady Reading Hospital. Furthermore he was the Principal of Khyber Medical College from 1981-1983. He also served as the Secretary Health, Govt. of NWFP from 1991-1992. He started the Surgical ICU in Khyber Teaching Hospital, and was also the pioneer in developing a center for laparoscopic surgery at Khyber Teaching Hospital. In addition, he wrote 24 original articles and research papers.

Prof Kabir was a visionary and an inventor; he designed Kabir's Cholecystectomy Forceps Kabir's Kidney Incision, Kabir's 2.5cm Incision for open Cholecystectomy. Following his retirement in December 1995 he continued his attachment to the medical field by establishing a Medical and Dental college which branched into other institutions and eventually gained the status of a university.

Dr. Kabir was practicing surgeon till the end of his life. He passed away at the age of 68 after suffering a heart attack.

May Allah rest his soul in Heaven, Amin

Prof. Dr. Ejaz Hassan Khan

Vice Chancellor

Gandhara University Peshawar



I am pleased to write a message for Wazir Muhammad Institute of Allied Health Sciences, a constituent institution of Gandhara University.

In Gandhara University, we are pursuing the dream of the founder Prof. Dr. Muhammad Kabir and the directions of the Honorable Chancellor Madam Roeeda Kabeer which is excellence in Education with high standards of professionalism.

We have added new training institutions based on excellent professional development available for our students, these are Institute of Radiotherapy and Nuclear Medicine (IRNUM) Peshawar and Hayatabad Medical Complex (HMC) Peshawar besides our own teaching hospitals.

I wish all the best to those who will be part of our institution as students. We are also working on Postgraduate courses for the Allied Health Sciences, Which will be the availability of opportunities to the students at their doorstep.

I wish you all the best.

Prof. Dr. Jafar Khan

Dean

Wazir Muhammad Institute of Allied Health Sciences.



Contemporary health care knowledge and applied technologies are of paramount importance in providing efficient patient care and advancing the medical field with its innovative potential. The significance of allied health sciences and technologies at the university level cannot be overstated. Aspiring students in fields like medical imaging, clinical laboratory sciences, dental technologies and more, benefit immensely from a comprehensive education that combines the theoretical knowledge with practical skills. Incorporating advanced technologies into these programs equip students with hands-on experience using the latest tools and techniques in health care.

Allied health sciences in Pakistan has gained significant recognition and importance in recent years. As the country's health care infrastructure expands, the demand for skilled allied health professionals continue to rise, generating an ecosystem by complementing and supporting the work of medical professionals.

Gandahara University in the private sector is playing a pivotal role in imparting modern knowledge and technology learning in the health care system of the country. In this regard, Wazir Muhammad Institute of the university offers specialized programs that cater to the needs of national and international jobs market. Our graduates and alumni very successfully navigate these skills development and specialized training for its effective utilization with best possible care to the patients.

Hamid Rasul Niazi

Principal

Wazir Muhammad Institute of Allied Health Sciences



In these days of growing needs and ambitions with ever diminishing resources, Wazir Muhammad Institute of Allied Health Sciences opens the door for all those who have high dreams and are full of enthusiasm to facilities the improvement of health sciences. We at Wazir Muhammad Institute of Allied Health Sciences teach our students the latest advancements in the field with modern teaching techniques. Our priority is to produce Medical Technologists who are able to cope with health crisis all over the world and to take KPK and Pakistan into a brighter future. Our standard and quality of education has been constantly upgraded and is still changing constantly to adapt to the needs of modern techniques.

We are proud of conducting our exams on time and keeping a continued check on our student's academic record so as to take necessary steps in time if they need guidance. We training these professionals in the best hospitals in the city. We also keep the parents informed of their child's performance regularly, to facilitate overall enthusiasm of our students, along with academics, we provide students with opportunity to show their talents at sports and other co curricular activities. I would like to add my congratulations to you on your decision to peruse the practice of medical technology as a career and choosing Wazir Muhammad Institute of Allied Health Sciences Peshawar.

VISION AND MISSION

Vision

To become nationally and internationally recognized educational institute that contributes towards the development of the society ad the nation through its conducive environment and excellence in education and research.

Mission

The Wazir Muhammad Institute of Allied Health Sciences educate and prepare future Allied Health Sciences to provide services in their respected fields. It aims to enhance their competencies to achieve clinical skills, critical thinking skills, communication skills and leadership skills.

1.0 INTRODUCTION

Modern science and Technology enabled man to improve its life standard. Like other sciences, medical science also achieved tremendous goals. The science of allied health sciences is also an addition in this discipline. Correct treatment needs correct diagnosis. By the application of scientific technology man gets better results. Modern health care centres not only needs to modernize automation but also a brain equipped with knowledge and skill.

Presently, nationwide there is lack of qualified and trained technologists all over the country. Gandhara University is the pioneer in starting 4-years BS in Medical Technologies such as Medical Laboratory Technology, Dental Technology, Anesthesia Technology, Medical Imaging Technology, Surgical Technology and Emergency Care Technology in Khyber Pukhtunkhwa to fill the vacuum.

2.0 AIMS & OBJECTIVES

2.1 Medical Laboratory Technology

BS Medical Laboratory Technology education and training should enable student to:

- To produce trained and qualified Medical Laboratory Technologist who will work adequately in any branch of medical Laboratory Technology
- Improve advance knowledge, this can be helpful to them in acquiring special skills at a later stage
- Make them full conversant with public health subjects as Medical Laboratory services are part of the health team.
- Help the doctors in their duties and to reduce the burden of work on doctors medical practitioners during the treatment of patients.
- Develop laboratory Technology for the diagnosis, monitoring treatment and providing laboratory tutors for paramedical training institutions in the country.

2.2 DENTAL TECHNOLOGY

BS Dental Technology Education and training enable the student to:

- Develop accuracy and meticulousness to attain high level of ethics and technical proficiency.
- Access the technical and nontechnical skills in a standardized and reproducible environment.
- Strengthen the decision power and exercise appropriate judgment skills, to be applied especially and during crisis.
- Develops good leadership, problem solving and administrative skills.
- Develop and analyze innovative strategies for effective communication with the patient and the health care personnel.
- Demonstrate inter disciplinary team building strategies or effective co ordination between various allied health disciplines.
- Demonstrate inter disciplinary team building strategies or effective co-ordination patient and the health care personnel.
- Demonstrate understandings of the basic concepts or professional behaviors and legal implementations of work environment.
- Demonstrate the knowledge of his / her role in health care delivery system.
- Establish and maintain construing education as a faction of growth and maintenance of professional competence.

2.3 ANESTHESIA TECHNOLOGY

BS Anesthesia Technology education and training enable the students to:

- Develop accuracy and meticulousness to attain high level of ethics and technical proficiency.
- Access the technical and nontechnical skills in a standardized and reproducible environment.
- Strengthen the decision power and exercise appropriate judgment skills, to be applied especially and during crisis.
- Develops good leadership, problem solving and administrative skills.
- Develop and analyze innovative strategies for effective communication with the patient and the health care personnel.
- Demonstrate inter disciplinary team building strategies or effective co ordination between various allied health disciplines.
- Demonstrate inter disciplinary team building strategies or effective co-ordination patient and the health care personnel.
- Demonstrate understandings of the basic concepts or professional behaviors and legal implementations of work environment.
- Demonstrate the knowledge of his / her role in health care delivery system.
- Establish and maintain construing education as a faction of growth and maintenance of professional competence.

2.4 IMAGING TECHNOLOGY

BS in Medical Imaging Technology education and training enable the students to:

- Develop accuracy and meticulousness to attain high level of ethics and technical proficiency.
- Access the technical and nontechnical skills in a standardized and reproducible environment.
- Strengthen the decision power and exercise appropriate judgment skills, to be applied especially and during crisis.
- Develops good leadership, problem solving and administrative skills.
- Develop and analyze innovative strategies for effective communication with the patient and the health care personnel.
- Demonstrate inter disciplinary team building strategies or effective co ordination between various allied health disciplines.
- Demonstrate inter disciplinary team building strategies or effective co-ordination patient and the health care personnel.
- Demonstrate understandings of the basic concepts or professional behaviors and legal implementations of work environment.
- Demonstrate the knowledge of his / her role in health care delivery system.
- Establish and maintain construing education as a faction of growth and maintenance of professional competence.

2.5 SURGICAL TECHNOLOGY

BS in Surgical Technology education and training enable the students to:

- Develop accuracy and meticulousness to attain high level of ethics and technical proficiency.
- Access the technical and nontechnical skills in a standardized and reproducible environment.
- Strengthen the decision power and exercise appropriate judgment skills, to be applied especially and during crisis.
- Develops good leadership, problem solving and administrative skills.
- Develop and analyze innovative strategies for effective communication with the patient and the health care personnel.
- Demonstrate inter disciplinary team building strategies or effective co ordination between various allied health disciplines.

- Demons treated inter disciplinary team building strategies or effective co-ordination patient and the health care personnel.
- Demonstrate understandings of the basic concepts or professional behaviors and legal implementations of work environment.
- Demonstrate the knowledge of his / her role in health care delivery system.
- Establish and maintain construing education as a faction of growth and maintenance of professional competence.

2.6 Emergency Care Technology

BS in Emergency Care Technology educate, train and enable the students to assist the doctors for providing quality patient care in selected areas of clinical specialty in the Hospital and in the emergency medical care.

3.0 ADMINISTRATION

1. Prof. Dr. Jafar Khan PhD.
Dean
PhD. Microbiology
2. Hamid Rasul Niazi
Principal
B. Sc Medical Technology, M. Phil Microbiology

Miss Nausheen Tabbasum
3. (Vice Principal)
Pharm-D, MS Pharmacy

3.1 FACULTY

1. Miss Nousheen Tabbasum
Assistant Professor
M. Phil
2. Mr. Mazhar Ullah
Lecturer
Pharm-D, MS Pharmacy
3. Mr. Fazli Rehman
Lecturer
Pharm-D

4. Mr. Abdul Karim
Lecturer
M. Phil Islamiat

MEDICAL IMAGING TECHNOLOGY

5. Dr. Abdur Rehman
Professor
MBBS, DMRD, FCPS
(Radiology/Diagnostics)
6. Ms. Shazmina Tariq
Lecturer
BS Medical Imaging Technology

7. Mr. Mohsin Aftab
Lecturer
BS Medical Imaging Technology
8. Mr. Waqas Khan
Lecturer
BS Medical Imaging Technology
9. Mr. Zeenat Ullah
Lecturer
BS Medical Imaging Technology, MPH

MEDICAL IMAGING TECHNOLOGY

10. Dr. Shazia Naz
Associate Professor
MBBS, M.Phil (Histopathology)
11. Dr. Shazia Naz
Associate Professor
MBBS, M.Phil (Histopathology)
12. Mr. Fawad Ahmad Noor
Lecturer
BS Medical Laboratory Technology
13. Mr. Imad Ali
Lecturer
BS Medical Laboratory Technology
14. Mr. Abdul Majid
Lecturer
BS Medical Laboratory Technology
15. Mr. Burhan Ullah
Lecturer
BS Medical Laboratory Technology

SURGICAL TECHNOLOGY

16. Dr. Ahmad Zeb
Professor
MBBS, FCPS (Surgery)
17. Dr. Sohail Rashid Khan
Lecturer
MBBS
18. Mr. Shahzeb
Lecturer
BS Surgical Technology, MPH
19. Dr. Eman Asghar
Lecturer
MBBS
20. Mr. Muhammad Saeed
Lecturer
BS Surgical Technology

EMERGENCY CARE TECHNOLOGY

21. Dr. Muhammad Arshad
Professor
MBBS, FCPS (Medicine)
22. Dr. Zafar-ul-Iqbal
Lecturer
MBBS
23. Dr. Rishad Zamani
Lecturer
MBBS

24. Mr. Syed Ishtiaq
Lecturer
BS Emergency Care Technology

25. Mr. Zabiullah
Lecturer
BS Emergency Care Technology, MPH

DENTAL TECHNOLOGY

26. Dr. Mamoona Shah
Assistant Professor
BDS, M.Phil (Science of Dental Materials)

27. Ms. Tauqeer Haya
Lecturer
BS Dental Technology, MPH

28. Dr. Muhammad Ahmad Orakzai
Lecturer
BDS

29. Dr. Muhammad Adnan Ullah
Lecturer
BDS

ANESTHESIA TECHNOLOGY

30. Dr. Aurangzeb
Professor
MBBS, DA, FCPS (Anesthesiology)

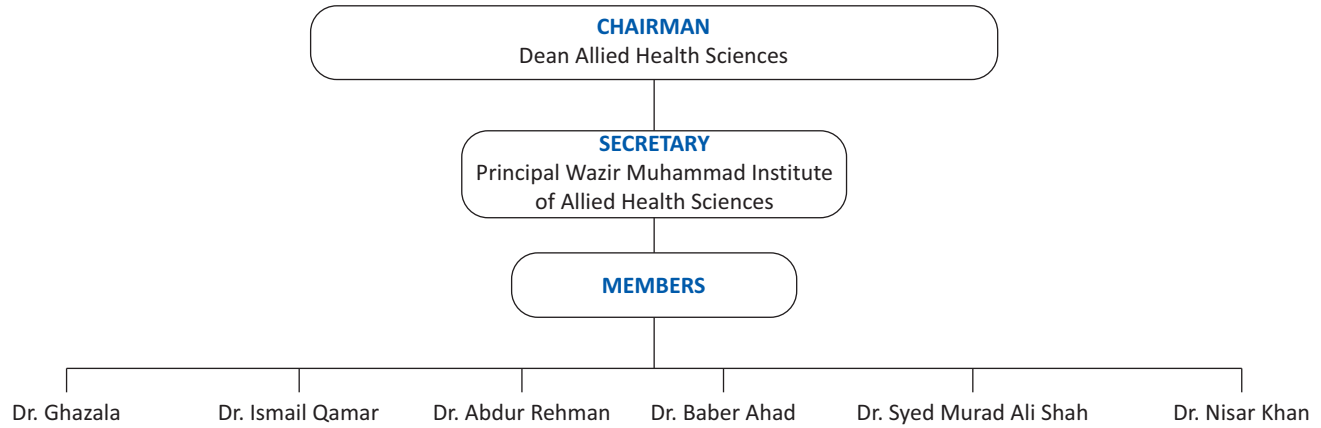
31. Dr. Sana Ullah
Lecturer
MBBS

32. Mr. Emad Gohar
Lecturer
BS Anesthesia Technology, MPH

33. Mr. Hammad
Lecturer
BS Anesthesia Technology, MPH

34. Mr. M. Basit
Lecturer
BS Anesthesia Technology, MPH

3.2 MANAGEMENT BOARD



4.0 SCHEME OF STUDIES

4.1 MEDICAL LABORATORY TECHNOLOGY

BS MEDICAL LABORATORY TECHNOLOGY		
FIRST SEMESTER		
Course Code	Subject	Credits
WMI-601	Anatomy – I	3+1
WMI-602	Biochemistry – I	3+1
WMI-603	Physiology – I	3+1
WMI-604	Pakistan Studies	2+0
WMI-605	English	2+0
WMI-606	Computer Skills	2+0
Total Semester Credit Hours		18
Second Semester		
WMI-607	Anatomy – II	3+1
WMI-608	Biochemistry – II	3+1
WMI-609	Physiology – II	3+1
WMI-610	Islamic Studies	2+0
WMI-611	Communication Skills	2+0
Total Semester Credit Hours		16
Third Semester		
WMI-612	General Pathology – I	2+1
WMI-613	General Pharmacology – I	2+1
WMI-614	Behavior Science	2+0
WMI-615	Bioethics	2+0
WMI-636	Haematology – I	2+1
WMI-637	Medical Microbiology – I	2+1
Total Semester Credit Hours		16
Fourth Semester		
WMI-616	General Pathology – II	2+1
WMI-617	General Pharmacology – II	2+1
WMI-644	Chemical Pathology	2+1
MLT-603	Clinical Virology and Mycology	2+1
MLT-604	RBC Disorders	2+1
Total Semester Credit Hours		15

Fifth Semester		
MLT-605	WBC and Platelets Disorders	2+1
MLT-606	Histopathology	2+1
MLT-607	Bioinformatics	2+1
MLT-608	Clinical Parasitology	2+1
MLT-609	Clinical Pathology	2+1
MLT-610	Biotechnology	2+2
Total Semester Credit Hours		18
Sixth Semester		
WMI-630	Biostatistics	2+1
WMI-631	Research Methodology	2+1
MLT-611	Medical Laboratory Instrumentation	2+1
MLT-612	Immunology and Serology	2+1
MLT-613	Blood Banking	2+1
MLT-614	Laboratory Mathematics	1+1
Total Semester Credit Hours		17
Seventh Semester		
WMI-632	Epidemiology	2+0
MLT-615	Medical Laboratory Management Skills	2+1
WMI-641	Fundamentals of Infection Control	2+1
MLT-616	Molecular Biology	2+1
MLT-617	Systemic Diagnostic Bacteriology	2+1
MLT-618	Cytology and Cytogenetics	2+1
Total Semester Credit Hours		17
Eighth Semester		
WMI-633	Research Project	06
WMI-634	Seminar	1+0
MLT-619	Human Genetics	2+1
MLT-620	Toxicology and Forensic Serology	2+1
Total Semester Credit Hours		13
Total Credit Hours		130

4.2 DENTAL TECHNOLOGY

BS DENTAL TECHNOLOGY		
FIRST SEMESTER		
Course Code	Subject	Credits
WMI-601	Anatomy – I	3+1
WMI-602	Biochemistry – I	3+1
WMI-603	Physiology – I	3+1
WMI-604	Pakistan Studies	2+0
WMI-605	English	2+0
WMI-606	Computer Skills	2+0
Total Semester Credit Hours		18
Second Semester		
WMI-607	Anatomy – II	3+1
WMI-608	Biochemistry – II	3+1
WMI-609	Physiology – II	3+1
WMI-610	Islamic Studies	2+0
WMI-611	Communication Skills	2+0
Total Semester Credit Hours		16
Third Semester		
WMI-614	Behavior Sciences	2+0
WMI-615	Bioethics	2+0
WMI-616	General Pathology – I	2+1
WMI-613	General Pharmacology – I	2+1
DNT-601	Dental Anatomy and Tooth Morphology	2+1
DNT-635	Microbiology – I	2+1
Total Semester Credit Hours		16
Fourth Semester		
WMI-617	General Pharmacology – II	2+1
DNT-602	Chemistry of Dental Material	2+1
DNT-603	Periodontology	2+1
DNT-604	Oral Pathology and Oral Medicine	2+1
DNT-605	Oral Histology	2+1
Total Semester Credit Hours		15

Fifth Semester		
DNT-606	Partial Denture Prosthodontics	2+1
DNT-607	Removable Orthodontics	2+1
DNT-608	Basics of Minor Oral Surgery	2+1
DNT-609	Community Dentistry	2+1
DNT-610	Conservative Dentistry – I	2+1
Total Semester Credit Hours		15
Sixth Semester		
WMI-630	Biostatistics	2+1
WMI-631	Research Methodology	2+1
DNT-611	Conservative Dentistry – II	2+1
DNT-612	Complete Denture Prosthodontics	2+1
DNT-613	Maxillofacial and Craniofacial Prosthesis	2+1
DNT-614	Pediatric Dentistry	2+1
Total Semester Credit Hours		18
Seventh Semester		
DNT-615	Fixed Orthodontics	2+0
DNT-616	Fixed Prosthodontics	2+1
DNT-617	Endodontics and Medical Emergencies in Dentistry	2+1
DNT-618	Minor Oral Surgery and Dental Implantology – I	2+1
Total Semester Credit Hours		12
Eighth Semester		
DNT-619	Minor Oral Surgery and Dental Implantology – II	2+1
DNT-620	Fundamentals of Oral and Maxillofacial Radiology	2+1
WMI-641	Fundamentals of Infection Control	2+1
WMI-633	Research Project	06
WMI-634	Seminar	1+0
Total Semester Credit Hours		16
Total Credit Hours		126

4.3 ANESTHESIA TECHNOLOGY

BS ANESTHESIA TECHNOLOGY		
FIRST SEMESTER		
Course Code	Subject	Credits
WMI-601	Anatomy – I	3+1
WMI-602	Biochemistry – I	3+1
WMI-603	Physiology – I	3+1
WMI-604	Pakistan Studies	2+0
WMI-605	English	2+0
WMI-606	Computer Skills	2+0
Total Semester Credit Hours		18
Second Semester		
WMI-607	Anatomy – II	3+1
WMI-608	Biochemistry – II	3+1
WMI-609	Physiology – II	3+1
WMI-610	Islamic Studies	2+0
WMI-611	Communication Skills	2+0
Total Semester Credit Hours		16
Third Semester		
WMI-612	General Pathology – I	2+1
WMI-613	General Pharmacology – I	2+1
WMI-614	Behavior Sciences	2+0
WMI-615	Bioethics	2+0
WMI-636	Haematology – I	2+1
WMI-637	Medical Microbiology – I	2+1
Total Semester Credit Hours		16
Fourth Semester		
WMI-616	General Pathology – II	2+1
WMI-617	General Pharmacology – II	2+1
WMI-639	Haematology – II	2+1
ANT-601	Anatomy related to Anesthesia	2+1
ANT-602	Physiology related to Anesthesia	2+1
ANT-603	Anesthesia Equipment	2+1
Total Semester Credit Hours		18

Fifth Semester		
ANT-604	Physics related to Anesthesia	2+1
ANT-605	Community Medicine	2+0
ANT-606	Pharmacology related to Anesthesia	2+1
ANT-607	Preoperative Assessment	2+1
ANT-608	Anesthesia and Co-existing Diseases	2+1
ANT-609	Critical Care	2+1
Total Semester Credit Hours		17
Sixth Semester		
ANT-610	Different types of Anesthesia	2+1
ANT-611	Anesthesia related to complications and their management	2+1
ANT-612	Anesthesia for Cardio Thoracic Surgery	2+1
ANT-613	Anesthesia for Neuro surgery, Geriatric and Emergency Surgery	2+1
WMI-630	Biostatistics	2+1
WMI-631	Research Methodology	2+1
Total Semester Credit Hours		18
Seventh Semester		
ANT-614	Anesthesia for General Surgery, Orthopedic and Urological Procedures	2+1
ANT-615	Anesthesia for Eye Surgical Procedure	2+1
ANT-616	Anesthesia for Ear, Nose, Throat Surgery	2+1
ANT-617	Anesthesia for Obstetric and Pediatric Surgery	2+1
ANT-618	Electrocardiography for Anesthetist	2+1
WMI-632	Epidemiology	2+0
Total Semester Credit Hours		17
Eighth Semester		
ANT-619	Anesthesia for dental, maxillofacial, head and neck surgery	2+1
ANT-620	Leadership and Management	2+0
WMI-633	Research Project	06
WMI-634	Seminar	1+0
Total Semester Credit Hours		12
Total Credit Hours		132

4.4 MEDICAL IMAGING TECHNOLOGY

MEDICAL IMAGING TECHNOLOGY		
FIRST SEMESTER		
Course Code	Subject	Credits
WMI-601	Anatomy – I	3+1
WMI-602	Biochemistry – I	3+1
WMI-603	Physiology – I	3+1
WMI-604	Pakistan Studies	2+0
WMI-605	English	2+0
WMI-606	Computer Skills	2+0
Total Semester Credit Hours		18
Second Semester		
WMI-607	Anatomy – II	3+1
WMI-608	Biochemistry – II	3+1
WMI-609	Physiology – II	3+1
WMI-610	Islamic Studies	2+0
WMI-611	Communication Skills	2+0
Total Semester Credit Hours		16
Third Semester		
WMI-612	General Pathology – I	2+1
WMI-613	General Pharmacology – I	2+1
WMI-615	Bioethics	2+0
MIT-601	Regional and Radiological Anatomy – I	2+1
MIT-602	General Radiology	2+1
MIT-603	Radiation Sciences and Technology	2+1
Total Semester Credit Hours		17
Fourth Semester		
MIT-604	Clinical Medicine – I	2+1
MIT-605	Conventional Radiological Procedures and Clinical Practice	2+2
MIT-606	Radiological Positioning in Clinical Practice	2+2
MIT-607	Regional and Radiological Anatomy – II	2+1
MIT-608	Computed and digital radiography (CR and DR)	1+1
MIT-609	Radiological and Radiation Protection	1+1
Total Semester Credit Hours		18

Fifth Semester		
WMI-643	General Surgery	2+1
MIT-610	Computer Tomography	2+2
MIT-611	Mammography and Special Radiological Techniques	2+1
MIT-612	Magnetic Resonance Imaging (MRI)	2+2
MIT-613	Interventional Radiology	1+1
MIT-614	Clinical Medicine – II	1+1
Total Semester Credit Hours		18
Sixth Semester		
WMI-630	Biostatistics	2+1
WMI-631	Research Methodology	2+1
MIT-615	Radiological and Cross Sectional Anatomy	2+1
MIT-616	Computed Tomography (CT) Procedures and Clinical Practice	2+1
MIT-617	Magnetic Resonance Imaging (MRI) Procedures and Clinical Practice	2+1
MIT-618	Therapeutic Radiology	1+1
Total Semester Credit Hours		18
Seventh Semester		
MIT-619	Clinical Sonography	2+2
MIT-620	Angiography and Cardiac Imaging	2+2
MIT-621	Nuclear Medicine	2+1
MIT-622	Echocardiography	1+1
MIT-623	Electrocardiography	1+1
MIT-624	Clinical Pathology and Radiological Presentation	1+1
Total Semester Credit Hours		17
Eighth Semester		
WMI-633	Research Project	06
WMI-634	Seminar	1+0
MIT-625	Medical Sociology	2+0
MIT-626	Patient Care Management	2+0
Total Semester Credit Hours		11
Total Credit Hours		133

4.5 SURGICAL TECHNOLOGY

BS SURGICAL TECHNOLOGY		
FIRST SEMESTER		
Course Code	Subject	Credits
WMI-601	Anatomy – I	3+1
WMI-602	Biochemistry – I	3+1
WMI-603	Physiology – I	3+1
WMI-604	Pakistan Studies	2+0
WMI-605	English	2+0
WMI-606	Computer Skills	2+0
Total Semester Credit Hours		18
Second Semester		
WMI-607	Anatomy – II	3+1
WMI-608	Biochemistry – II	3+1
WMI-609	Physiology – II	3+1
WMI-610	Islamic Studies	2+0
WMI-611	Communication Skills	2+0
Total Semester Credit Hours		16
Third Semester		
WMI-612	General Pathology – I	2+1
WMI-613	General Pharmacology – I	2+1
WMI-637	Medical Microbiology – I	2+1
WMI-614	Behavior Sciences	2+0
WMI-615	Bioethics	2+0
SUT-601	Surgical Equipment	2+1
Total Semester Credit Hours		16
Fourth Semester		
WMI-616	General Pathology – II	2+1
WMI-617	General Pharmacology – II	2+1
WMI-638	Medical Microbiology – II	2+1
WMI-642	Diagnostic Imaging	1+1
SUT-602	Surgical Setup and Positioning	2+1
SUT-603	Sterilization & Disinfection	2+0
Total Semester Credit Hours		16

Fifth Semester		
WMI-643	General Surgery	2+1
WMI-640	Anesthesia Equipment	2+1
SUT-604	Surgical Emergency – I	2+1
SUT-605	Surgical ICU – I	2+1
SUT-606	Surgical First Assistance	2+1
SUT-607	Diagnostic Procedures	1+1
Total Semester Credit Hours		18
Sixth Semester		
WMI-630	Biostatistics	2+1
WMI-631	Research Methodology	2+1
SUT-608	Clinical Operative General Surgery	2+1
SUT-609	Clinical Operative Gynecology and Obstetrics	2+1
SUT-610	Quality Assurance and Biosafety	2+1
SUT-611	Perioperative Care	1+1
Total Semester Credit Hours		16
Seventh Semester		
WMI-641	Fundamentals of Infection Control	2+1
WMI-632	Epidemiology	2+0
SUT-613	Clinical Operative Pediatric Surgery	2+1
SUT-614	Clinical Operative Neurosurgery	2+1
SUT-615	Clinical and Operative Endoscopic and Robotic Assisted Surgery	2+1
SUT-616	Clinical Operative Urology Surgery	2+1
Total Semester Credit Hours		17
Eighth Semester		
WMI-633	Research Project	06
WMI-634	Seminar	1+0
SUT-617	Surgical Pharmacology	2+1
SUT-618	Clinical Operative Orthopedic Surgery	2+1
SUT-619	Clinical Operative Thoracic Surgery	2+1
Total Semester Credit Hours		15
Total Credit Hours		132

4.6 EMERGENCY CARE TECHNOLOGY

BS EMERGENCY CARE TECHNOLOGY		
FIRST SEMESTER		
Course Code	Subject	Credits
WMI-601	Anatomy – I	3+1
WMI-602	Biochemistry – I	3+1
WMI-603	Physiology – I	3+1
WMI-604	Pakistan Studies	2+0
WMI-605	English	2+0
WMI-606	Computer Skills	2+0
Total Semester Credit Hours		18
Second Semester		
WMI-607	Anatomy – II	3+1
WMI-608	Biochemistry – II	3+1
WMI-609	Physiology – II	3+1
WMI-610	Islamic Studies	2+0
WMI-611	Communication Skills	2+0
Total Semester Credit Hours		16
Third Semester		
WMI-612	General Pathology – I	2+1
WMI-613	General Pharmacology – I	2+1
WMI-636	Haematology – I	2+1
WMI-637	Medical Microbiology – I	2+1
WMI-614	Behavior Sciences	2+0
WMI-615	Bioethics	2+0
Total Semester Credit Hours		16
Fourth Semester		
WMI-616	General Pathology – II	2+1
WMI-617	General Pharmacology – II	2+1
WMI-638	Medical Microbiology – II	2+1
WMI-642	Diagnostic Imaging	1+1
WMI-644	Chemical Pathology	2+1
ECT-601	Medical Emergency – I	2+0
Total Semester Credit Hours		17

Fifth Semester		
WMI-640	Anesthesia Equipment	2+1
ECT-602	Medical Emergency-II	2+1
ECT-603	Surgical Emergency-I	2+1
ECT-604	Trauma Emergency-I	2+1
ECT-605	Burns and Toxicology	1+1
ECT-606	Disaster Management	1+1
ECT-607	Applied Physics	1+1
Total Semester Credit Hours		18
Sixth Semester		
WMI-630	Biostatistics	2+1
WMI-631	Research Methodology	2+1
ECT-608	Trauma I Emergency – II	2+1
ECT-609	Surgical Emergency – II	2+1
ECT-610	Cardiovascular Emergency	2+1
ECT-611	Respiratory Therapy	1+1
Total Semester Credit Hours		17
Seventh Semester		
WMI-632	Epidemiology	2+0
WMI-641	Fundamentals of Infection Control	2+1
ECT-612	Obstetrical Emergency – I	2+1
ECT-613	Neonatal and Pediatric Emergency	2+1
ECT-614	Basic and Advance Life support	2+1
ECT-615	Neurological Emergency	1+1
Total Semester Credit Hours		17
Eighth Semester		
WMI-633	Research Project	06
WMI-634	Seminar	1+0
ECT-618	Obstetrical I Emergency – II	2+1
ECT-619	Transportation of critically ill patients	2+1
Total Semester Credit Hours		13
Eighth Semester		
Total Semester Credit Hours		132

5.0 ADMISSION RULES AND REGULATIONS

ADMISSION COMMITTEE

- | | | |
|----|-----------------------------|----------------|
| 1. | Dean Allied Health Sciences | |
| 2. | Mr. Hamid Rasul Niazi | Principal |
| 3. | Mrs. Nousheen Tubbusum | Vice Principal |
| 4. | Mr. Abdul Majid | Lecturer |
| 5. | Mr. Hamaad | Lecturer |
| 6. | Mr. Shahzeb | Lecturer |

5.1 ELIGIBILITY

- F. Sc per Medical/ F. Sc in relevant technology/ equivalent to the applied course with at least 50% Marks from Boards of Intermediate and Secondary Education or Equivalent body recognized at national and international level.
- Citizens of all administrative parts of Pakistan and abroad.
- Both male and female are eligible for this course.
- Only those applications will be considered for admission, which are given on the prescribed form available with Prospectus.

5.2 ADMISSION CRITERIA

- Admission are opened to all genders belonging to Pakistan and abroad who have passed Higher Secondary Certificate Examination (F. Sc Premedical/ F. Sc Medical Technology/ equivalent in respective programme with minimum 50% marks and appeared in entrance test conducted by the Gandhara University Peshawar purely on merit basis.
- Appearance in entrance test is mandatory.
- No seats will be reserved for in-service candidates. However, for the in-service candidate, F. Sc Premedical/ F. Sc Medical Technology/ equivalent in respective programme and NOC from the parent department are mandatory.
- The institute will send lists of students in all 4-years BS degree programmes to the registrations Branch (Registrar's Office) of Gandhara University Peshawar within 10 working days after the admissions have been finalized for the incoming batch. Only those students who have been registered by Gandhara University will be allowed to appear in the end of semester final examination. Registration branch will register these students. No late registration will be allowed.

6.0 REGISTRATION

6.1 MERIT FOR ADMISSION:

Merit for admission is determined as follows:

Certification/ Entrance Test	Weightage
Adjusted marks obtained in F. Sc or equivalent examination	50%
Entrance Test Marks	40%
Marks obtained in SSC or equivalent examination	10%

6.2 DISTRIBUTION OF SEATS

Distribution of seats for 4-years BS programmes are as under:

S. No.	Discipline	No. of Seats
1	Medical Laboratory Technology	35
2	Medical Imaging Technology	30
3	Dental Technology	35
4	Anesthesia Technology	30
5	Surgical Technology	30
6	Emergency Care Technology	30

6.3 CHANGE OF DISCIPLINE:

1. Students shall not be allowed to add or drop a course/change of discipline after the end of the second week of the first semester.
2. Change of discipline is subjected to availability of seat.

NOTE: On receiving the offer of admission, the students are expected to deposit the admission fee (non-refundable) and tuition fee within the prescribed due date. If the fee is not submitted within the specified date, the admission will stand cancelled.



7.0 CREDITS' REQUIREMENTS FOR A DEGREE PROGRAMME:

1. Minimum 124-136 credit hours (see 4 below for definition) are required for the 4-year degree programs. The said credits will normally be earned in eight semesters.
2. The minimum number of contact hours in a course will be governed by the curriculum/syllabi and roadmaps provided by Gandhara University Peshawar.
3. A course may range from one (01) credit hour to four (04) credit hour.
4. One credit hour stands for at least one hour class contact per week per semester. For practical /laboratory work 3 hours will be considered equivalent to one credit hour.
5. Six (06) credit hours research project (dissertation/project report/internship/special paper will be offered in the fourth year).
6. Items 1-5 above will be dictated by the HEC curricula for the relevant degree programs.

7.1 TOTAL PERIOD OF STUDY

The duration of bachelor (BS) programs taught in Wazir Muhammad Institute of Allied Health Sciences is of four years. Each academic year consists of two semesters. In case of valid reasons/excuse the period of study may be extended for two additional years (i.e. four semesters). The students who do not complete studies within the stated period will have their names struck off from the institute rolls. The students who have been given the right to extend the duration of study for additional two years must register and pay tuition fees for these years.

7.2 SCHEDULE OF SEMESTERS

There will be two semesters in an academic year, called fall semester and spring semester. Each semester will be of 18 working weeks. For teaching 16 weeks will be allocated while for midterm and term semester examination 2 weeks will be allocated. The final examination will be conducted by Gandhara University Peshawar at the end of each semester. Schedule (date sheet) of final examination will be issued by Controller of Examination, Gandhara University Peshawar.

7.3 COURSE EVALUATION, COURSE GRADE AND GRADE DISTRIBUTION

Students will be evaluated on the basis of two examinations, called Mid Semester examination and final examination, class tests, quizzes, assignments, presentation, etc. these evaluation instruments and their percentage weight of a grade are given below:

S. No	EVALUATION INSTRUMENTS	PERCENTAGE WEIGHT
1	Quizzes/ Homework/ Assignments/ Presentations	20%
2	Mid Semester Examination	30%
3	Final Examination	50%

The institute will be responsible for evaluating student work and assigning marks for sessional and Mid semester examinations, university will be responsible for conducting the final examination at the end of each semesters and assigning marks for this evaluation instrument by the office of controller of examinations. Collages will be responsible for submitting marks for sesional work and Mid semester examinations to the office of Gandhara University controller of examinations one week before the end of a semesters, along with graded student answer books for mid semester examination. Gandhara University will be responsible for preparing and announcing semester results. Gandhara University will be responsible for issuing Final transcripts and degrees.

7.4 EVALUATION SYSTEM

1. The course teacher is responsible for the evaluation of work/performance for the students of his class and for the award of grades to them on the basis of such evaluation.
2. The number and nature of tests and assignments depends on the nature of course to pass a course, a student must obtain 50 % marks (i.e., 'D' grade) cumulative in mid semester examination, sessional work, And final examination.
3. There scripts of each activity, i.e. mid semester examination, class tests, quiz etc. will be shown to the students concerned by the teachers within one week, taken back immediately in accordance with the announced schedule along with the examination schedule.
4. In case a student is not satisfied with his/her award even after checking his/her answer book, or clarification from the teacher, he/she may make written complaint to chairman/principal will refer his/her case to the examination committee of the department college.
5. The mid semester examinations will be conducted after eight weeks of the commencement of the semester. The final examination will be conducted according to the schedule (i.e. date sheet) announced by Gandhara University Peshawar.
6. The duration of the examinations will be as follows:

a	Mid semester examination	One hour
b	Final semester examination	Three hours
c	Practical examination (where applicable)	2-3 hours

7. Examinations will be held on consecutive days excluding holidays. Examinations for theory and practical (i.e. lab) of a course will be held on the same day, the schedule (i.e. date sheet) of the mid semester examinations will be displayed by the college well ahead of time.
8. Colleges will submit results of mid semester examinations to the office of controller of examinations, Gandhara University Peshawar, within 10 working days after the end of the mid semester examinations week.
9. Home assignments will be submitted to the teacher concerned as scheduled by the teacher.

7.5 GRADING SYSTEM

Letter grading should only be used for representing the individual courses and not for semester GPA or CGPA. Equivalence in numerical grades, letter grades and grade points will be as follows:

MARKS IN PERCENT	LETTER GRADE	GRADE POINT
85 & above	A+	4.00
80-84	A	3.70
75-79	B+	3.30
70-74	B	>2.99
65-69	B-	2.70
61-64	C+	2.30
58-60	C	>1.99
55-57	C-	1.00
50-54	D	1.00
Blow 50	F	0.00
Withdrawal	W	--

1. Maximum possible grade point average is 4.00.
2. Minimum cumulative grade point average for obtaining a 4-year BS degree is 2.00.
3. A fraction of mark in a course is to be counted as '1' mark e.g. 64.1 or 64.9 is to be shown as 65.
4. Letter grade and grade point for a course will be calculated according to the above table.

8.0 GENERAL RULES AND REGULATIONS

The following rules and regulations will be applicable to all students who are on the role of WMIAHS.

8.1 TITLE

- i. These regulations shall be called the regulations related to the conduct of the students, maintenance and breach of discipline.
- ii. These regulations will be applicable to all the students who are on the roll of WMIAHS.

8.2 DEFINITION

- a) Students (Trainee) mean a person on the roll of the WMIAHS, Gandhara University Peshawar.
- b) “In-discipline” means any act, which disturbs the good order of the institute or is derogatory to Islamic moral values or is otherwise declared to be an act of indiscipline under these regulations.
- c) “Expulsion” means cancellation of admission of a student / trainee debarring him from re-admission at least for one calendar year.
- d) “Rustication” means dismissal of a student from the rolls of the WMIAHS, Gandhara University Peshawar for one or more calendar years or the remainder of the current year in which the order is passed and barring the students to appear in the final examination.
- e) Termination means cancellation of the admission for ever.

8.3 STUDENTS CONDUCT

1. Every student of the WMIAHS is expected to lead a life total commitment to Islam in acquisition of knowledge, toleration, honesty, hard work and good relationship with his colleagues, teachers and staff of the institute.
2. All students shall be regular and punctual in their academic work and follow the instructions of their teachers and the authorities of the WMIAHS.
3. All students shall co-operate for the promotion of an atmosphere of peace and orderly behavior in and outside the institute.
4. Students are not allowed to involve in a activities like sectarianism or to form union or any student's organization.

8.4 CLASS ATTENDANCE

1. A student must have attended at least 75% of the classes held in a course in order to be allowed to sit in the final examination.
2. In case the student remains absent from the class for seven consecutive days without leave his/her name will be removed from the rolls.
3. Students having less than 75% class attendance in a particular course will be required to repeat the course in the same semester next year.
4. Names of such students will be reported by the collage to university and these students shall not be allowed to appear in the final examinations.

8.5 LEAVE

1. The Institute, will observe summer vacation every year however, the institute will remain open for summer semester.
2. No leave will be permitted to the students during the course of training except on compassionate or medical grounds.

8.6 UNIFORM

The students are required to come to the institute in prescribed uniform, which is as follows.

For Boys: White shirt with Gray Pant (in winter Black Coat / Sweater)

For Girls: White Shalwar with white Coat (in winter Black Coat / Sweater)

Without uniform the students coming to the institute will not be allowed to enter the college or attend the classes.

8.7 IDENTITY CARD

1. The Identify Card is issued to every student after admission. It carries photograph of the concerned student and is duly signed by the principal stating particulars of the student.
2. The card must be kept by the trainees and produced on demand.
3. Duplicate cards are not issued except under special circumstances on payment of Rs.200/-

9.0 COLLABORATION WITH OTHER CONSTITUENT INSTITUTIONS

9.1 TRAINING SITES

- i. **Naseer Teaching Hospital Peshawar**
- ii. **Sardar Begum Dental Hospital Peshawar**
- iii. **Hayatabad Medical Complex (HMC) Peshawar**
- iv. **MMC General Hospital Peshawar**
- v. **Institute of Radiotherapy and Nuclear Medical (IRNUM) Peshawar**

Students are technically trained in their respected technologies in these teaching hospitals. These hospitals play a pivotal role in the training of premedical students. Highly qualified teachers, clinicians, and technicians of these institutions actively participate in the teaching and training programme of the medical Technology students.

Gandhara University is the only university in Khyber Pakhtunkhwa which offers all these essential facilities to the students of medical Technology.

9.2 KABIR AUDITORIUM

The impressive Kabir Auditorium is available for symposiums / seminars / special lectures, debates and functions arranged on special occasions. Auditorium occupies the center place of the campus, is fully air conditioned with all audiovisual facilities. It has a seating capacity of 280 persons.

9.3 CENTRAL LIBRARY

Students have free access to the spacious central library, where books and journals in the field of basic medical sciences, clinical subjects and Pharmaceutics are available in fairly large numbers. A special section of the library provides free internet facilities for consulting latest scientific journals, related to medical sciences.

9.4 LABORATORIES

Institute of Allied Health Sciences is equipped with well-established laboratories. Students will also be trained under the guidance of expert teachers in clinical laboratory, operation theaters and radiology skills at respected sections of the teaching hospitals.

10.0 EXTRA CURRICULAR ACTIVITIES

Students are encouraged to participate in extracurricular activities. Gandhara University conducts sports week. Literary forum develops with literary skills of students.

11.0 FEE STRUCTURE

Admission Session 2023-2024

Description	1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester	7th Semester	8th Semester
Tuition Fee	70,000	70,000	75,000	75,000	80,000	80,000	85,000	85,000
Admission Fee (One Time)	10,000	–	–	–	–	–	–	–
University Registration Fee (One Time)	3,000	–	–	–	–	–	–	–
University Examination Fee	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Total	88,000	75,000	80,000	80,000	85,000	85,000	90,000	90,000

Merit Scholarship will be offered as per University's Policy.

11.1 REFUND POLICY

Percentage of Tuition Fee	Timeline
Full (100%) Tuition Fee	Up to 7 th day of commencement of classes
Half (50%) Tuition Fee Refund	From 8 th to 15 th day of commencement of classes
No (0%) Tuition Fee Refund	From 16 th day of commencement of classes

Undertaking

At the time of admission the candidates are required to submit the following undertaking on judicial paper of Rs. 50/- duly attested by first class magistrate, along with the application form:

(To be filled by the candidate)

I Mr. / Miss _____ son/daughter of _____ Resident of _____

Do hereby undertake to abide by the following:

- I. That I have read the prospectus of the Wazir Muhammad Institute of Allied Health Sciences and hereby agree to conform to all provision of the statutes of the college or statutes and rules as may hereafter be framed by the appropriate authorities.
- ii. That the information furnished in, and documents attached with the application form are correct. and I fully understand that at any time during course of study, if it is found that any information is incorrect, or any document/ documents produced at the time of admission are false, which would have rendered me ineligible for admission under the rules, my name shall immediately be struck off from the college roll.
- iii. I do hereby solemnly pledge: To sincerely endow all efforts on my studies, assignments, class room, labs participation and clinical training.
- iv. Not to cause any disturbance on college premises and shall not use the mobile phone in the class rooms/labs.
- V. I shall be responsible to pay the examination fee or any other charges or penalties, as per rules of the College/University.
- vi. I will not be promoted to the next higher class unless /until I have cleared all subjects and dues, under the rules applicable and I hereby undertake that I have read and understood the examinations rules applicable to me.
- vii. That I shall have minimum attendance of 75% and diligently apply myself to acquire and develop the skill necessary for the practice and advancement of my study in order to qualify for examination.
- viii. That I shall maintain identity as a student of this college by wearing the college uniform. I shall participate fully wholeheartedly in games extra curricular activities.
- ix. That I will not indulge in politics of any type and will not be a member of any political party/organization/students Federation holding a gathering, meeting or taking out procession in any part of campus. I understand that my failure to observe this clause of undertaking would result in cancellation of my admission/expulsion from the college, and that the decision of the Principal in this regard will be final.
- x. Further, I do hereby solemnly undertake to refrain from:-
 - a) **All kind of unfair means in examination.**
 - b) **Bringing or keeping any type of weapons within the College/University premises.**
 - c) **Damaging college property including building, equipment, vehicle etc, in any manner.**
 - d) **From all such acts and deeds as might bring disgrace and a bad name to the college.**
- xi. **In case I am reported to be guilty/involved in any of the aforesaid activities during my stay in the Wazir Muhammad Institute of Paramedical Technology the college authorities can rusticate me from the college temporarily or expel me permanently. I will not try to create law and orders situation or instigate the students of the college or of any other institution against the action taken by the college.**

(Signature of the Father/Gaurdian)

(Signature of the student)

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