ONWARD
2025-26
PROSPECTUS

PRIME COLLEGE OF ALLIED HEALTH SCIENCES

Educational Projects of

PRIME FOUNDATION

بِسۡمِ اللّٰہِ الرَّحۡمٰنِ الرَّحِیۡمِ

أَفَحَسِبْتُمْ أَنَّمَا خَلَقْنَاكُمْ عَبَثاً وَأَنَّكُمْ إِلَيْنَا لَا تُرْجَعُونَ

المؤمنون 115

کیا تم نے یہ سمجھ رکھا ہے کہ ہم نے تمہیں بے مقصد (فضول) پیدا کیا ہے اور کیا تمہیں ہماری طرف پلٹنا ہی نہیں؟

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Message of

PATRON

PRIME FOUNDATION

Dear Students!

Islam makes it mandatory for all men and women to attain knowledge. The healthcare landscape relies heavily not just on doctors, but on highly skilled allied health professionals who form the backbone of diagnostic and therapeutic medicine. PRIME Foundation is trying its best to bridge the gap in quality medical technical education in Pakistan, and the **Prime College of Allied Health Sciences** is a definitive step forward in this direction.

The three vital components of professional training—knowledge, skills, and ethical attitude—must be addressed equitably. This college is expected to achieve these objectives through a competitive global curriculum to produce dynamic leaders for clinical laboratories, diagnostic departments, and surgical suites.

Prof. Dr. Najib-ul-Haq
(MBBS, MRCP, FRCP, MACG, MCPS)

Message of

CHAIRMAN

PRIME FOUNDATION

On behalf of the Prime Foundation Pakistan, I extend my gratitude for your interest in our newly structured Allied Health Sciences Allied Programs. Our core mission statement, ***"Excellence in professional competence and ethical values,"*** dictates that we shape future healthcare leaders with an attitude of life-long learning. PCAHS actively seeks to adopt integrated training techniques and promote research, enabling our graduates to comfortably place themselves in a highly competitive global workforce.

Prof. Dr. Hafeez-ur-Rehman
(FCPS, ICO, ADHPE)

Message of

DEAN

HEALTH SCIENCES

It is my privilege to welcome you to the cluster of Prime Foundation institutions, which proudly includes Peshawar Medical College, Peshawar Dental College, Rufaidah Nursing College, and now, the **Prime College of Allied Health Sciences**. Prime Foundation is determined to produce professionals who are professionally competent, excellent in ethical practice, research-oriented, and well-versed in the latest health technologies.

Dr. Asfandyar
(MBBS, MCPS, MRCGP, M.M.Sc)

Message of

DIRECTOR

PCAHS

Welcome to Prime College of Allied Health Sciences. We are committed to providing quality education, professional training, and practical skills that prepare our students to become competent healthcare professionals. Our goal is to nurture knowledge, ethics, and excellence in healthcare education, enabling students to serve humanity with dedication and compassion.

We look forward to being a part of your academic and professional journey.

Dr. Maqsood Ali
(MBBS, MPH)

Message of

PRINCIPAL

RUFAIDAH NURSING COLLEGE

It is my pleasure to welcome you to Prime College of Allied Health Sciences. We are dedicated to providing high-quality education, practical training, and a supportive learning environment that prepares students for successful careers in healthcare. Our commitment is to develop competent, ethical, and compassionate professionals who can contribute positively to society.

I wish all our students success in their academic and professional journeys.

Mr. Rizwan Ullah

(DA,BS (hons) ANT, MHA)

INTRODUCTION, VISION, MISSION & OBJECTIVES

Introduction

The Prime College of Allied Health Sciences (PCAHS) is established to meet the rapidly expanding global demands of modern medical technology and diagnostic precision. Situated within the prime healthcare ecosystem of Peshawar, the college is custom-built to provide extensive, modern laboratory and clinical exposure. Moving beyond traditional didactic lines, PCAHS prepares clinical technologists who act as vital diagnostic anchors within medical teams.

Location

The college is situated in Garhi Sherdad, Warsak Road, Peshawar. It is recognized by the Allied Health Professional Council (AHPC).

Vision

Prime College of Allied Health Sciences aspires to be a premier center of excellence in allied health education, delivering a full spectrum of high-quality scientific instruction aligned with national human resource requirements, socio-cultural values, and international clinical standards.

Mission

To elevate the status and professional standard of allied health fields by upholding rigorous academic criteria, emphasizing practical role-modeling, eliminating structural misconceptions, and empowering graduates to claim pioneering positions globally through unmatched technical competence and unyielding ethical values.

Programs Offered & Annual Intake

All offered bachelor courses are **4-Year (8 Semesters)** undergraduate degree programs:

S.No	Program	Degree Track	Expected Intake	Curriculum framework
1	**BS Dental Technology**	4-Year (8 Semesters)	50 Seats	Approved by KMU, HEC and AHPC
2	**BS Anesthesia**	4-Year (8 Semesters)	50 Seats	Approved by KMU, HEC and AHPC
3	**BS Radiology**	4-Year (8 Semesters)	50 Seats	Approved by KMU, HEC and AHPC
4	**BS MLT (Medical Lab Technology)**	4-Year (8 Semesters)	50 Seats	Approved by KMU, HEC and AHPC
5	**BS Optometry**	4-Year (8 Semesters)	50 Seats	Approved by KMU, HEC and AHPC

ADMISSION CRITERIA & RESOURCES

Admission/Selection Criteria and Process

Applications must be filled and submitted with attested documents before the deadline. Selection is purely based on merit defined by the college. False documents result in immediate cancellation.

Pre-requisites for All 4-Year BS Programs

Qualification: Candidate must have passed the Higher Secondary School Certificate Examination **(F.Sc Pre-Medical** or an equivalent certified qualification from a recognized board with 50% marks).

Age Limit:

18 to 35 years at the time of application.

Merit:

Selection is purely based on academic merit determined through entry test metrics and institutional parameters set by the college.

Documents Required for Admission

Secondary School Certificate (Matric) & DMC

Higher Secondary School Certificate (F.Sc) & Detailed Marks Certificate

National Identity Card (CNIC) or Computerized Form-B of the candidate

Father or Guardian's National Identity Card (CNIC)

Three recent passport-size colored photographs

Admission Committee:

Director

Principal

Vice Principal

Teaching Strategies & Learning Resources

Strategies:

- Lectures,
- Small Group Discussions (SGD),
- Ward rounds/bedside discussions,
- Workshops/Seminars, Assignments, and Clinical Applications.

Resources:

- Library,
- Basic Sciences Labs,
- Computer Lab, and Radiology Lab,
- MLT Lab,
- Dental Lab,
- Anesthesia Lab and Optometery Lab.

Attached Teaching Hospitals

Kuwait Teaching Hospital (University Road, Abdara Chowk - 250 beds)

Mercy Teaching Hospital (University Road - 250 beds)

Prime Teaching Hospital (Warsak Road - 180 beds)

Peshawar Dental College (Warsak Road - 101 units)

Total capacity of 680 beds; operating on a "no-profit no-loss basis" purpose-built and equipped with advanced diagnostic tools, recognized by PM&DC and CPSP for postgraduate training.

BACHELOR OF SCIENCE IN MEDICAL LABORATORY TECHNOLOGY — BS MLT (AHS)

PROGRAM OVERVIEW

The Bachelor of Science in Medical Laboratory Technology (Allied Health Sciences) at Prime College of Allied Health Sciences is an elite four-year degree program structured in strict accordance with the Higher Education Commission (HEC) Undergraduate Education Policy V 1.1.

Medical laboratory scientists form the foundational anchor of diagnostic medicine. This advanced curriculum is carefully engineered to deliver a progressive, balanced blend of clinical theory and rigorous practical training across critical diagnostic domains: Clinical Biochemistry, Hematology, Histopathology, Medical Microbiology, Immunology, Transfusion Medicine, and high-tech Molecular Diagnostics.

Throughout eight regular semesters, students gain extensive hands-on experience using modern analytical instrumentation, processing real-time clinical assays, and implementing global Quality Control (QC) standards. Graduates are fully equipped to bridge the gap between laboratory data and patient care, positioning them for immediate leadership roles in hospital diagnostics, reference laboratories, research institutes, and international biotechnology sectors.

Standard Degree Nomenclature: Bachelor of Science in Medical Laboratory Technology (Allied Health Sciences)
Official Short Form: BS MLT (AHS)
Academic Level: National Qualifications Framework (NQF) Level 6 Qualification

PROGRAM LEARNING OUTCOMES (PLOs)

Upon successful completion of the BS MLT (AHS) program, graduates will possess the professional competence to:

1. **Core Technical Mastery:** Demonstrate a comprehensive understanding of fundamental and advanced concepts in medical laboratory sciences, seamlessly integrating theoretical pathology with clinical laboratory management.
2. **Analytical & Diagnostic Skills:** Expertly operate, troubleshoot, and manage medical diagnostic instrumentation while precisely executing complex microbiological, biochemical, and hematological assays.
3. **Ethical Communication & Leadership:** Communicate scientific data, research findings, and diagnostic profiles accurately and efficiently within multidisciplinary healthcare teams, maintaining an unyielding commitment to healthcare ethics, patient data confidentiality, and life-long professional development.

TEACHING & LEARNING METHODOLOGIES

To ensure our students match international evaluation and accreditation benchmarks, course delivery utilizes multi-channel, premium modalities:

Interactive Instruction: Lectures, technical demonstrations, clinical case discussions, specialized workshops, and immersive role-plays.

Pedagogical Materials: Standard text-books, peer-reviewed international journals, technical handouts, and curated audio-visual assets.

Technological Integration: Multimedia systems, slides, and internet-accessible clinical software setups.

ASSESSMENT & EVALUATION FRAMEWORK

Progress is monitored via a rigorous, continuous assessment blueprint:

For Students: Internal evaluation metrics derived from written assignments, individual/group presentations, mid-semester/mid-term examinations, and final semester-end examinations.

For Facilitators: To maintain premium quality management, students execute systematic course and faculty evaluations at the conclusion of each module via a standardized feedback proforma.

LIGIBILITY & ADMISSION CRITERIA

Candidates seeking entry into the BS MLT (AHS) program must fulfill the following institutional requirements:

Academic Qualification:

Higher Secondary School Certificate (HSSC) / Intermediate in the Pre-Medical Group (12 years of formal schooling) or an equivalent qualification certified by the Inter Board Coordination Commission (IBCC).

Minimum Academic Grade:

A minimum cumulative score of 50% in F.Sc Pre-Medical.

Selection Process:

Admission is strictly merit-based. The College Admission Committee calculates merit using entry test metrics, academic transcripts, and interview parameters approved by the institutional statutory bodies.

ACADEMIC & PROGRAM STRUCTURE

The curriculum spans a structural minimum of 138 credit hours, optimizing the student learning curve without causing academic overload.

Minimum Program Duration: 4 Academic Years (8 Regular Semesters)

Maximum Program Duration: 6 Years (Extendable by a maximum of 1 year under extraordinary circumstances, subject to formal approval by the University's statutory bodies).

Regular Semester Duration: 16 to 18 weeks of active teaching (plus 1 to 2 weeks dedicated strictly to examinations).

Course Credit Load: 15 to 18 credit hours per regular semester.

Credit Hour Definition (Theory): 1 Credit Hour equals 1 contact hour of classroom lecture per week.

Credit Hour Definition (Lab / Clinical): 1 Credit Hour equals 3 contact hours of hands-on laboratory or clinical field practice per week.

Curriculum Component Weight Distribution

Curriculum Component Category	Credit Hours	Course Distribution
Major: AHS Common Core	37	15 Courses
General Education Requirements	34	15 Courses
Interdisciplinary Courses	12	04 Courses
Major / Domain Core	49	17 Courses
Mandatory Clinical Internship	03	Field Rotation
Capstone Research Project	03	Thesis / Viva
Total Minimum Degree Requirement	138	53 Blocks

SEMESTER-WISE SCHEME OF STUDIES

YEAR 1: FOUNDATIONAL SCIENCES & GENERAL EDUCATION

SEMESTER I

S.No	Course Title	Credit Hours	Component Category
1	Human Anatomy 3	(2-1)	Major: AHS Common Core
2	Human Physiology	3 (2-1)	Major: AHS Common Core
3	Introduction to Medical Biochemistry	2 (1-1)	Major: AHS Common Core
4	Quantitative Reasoning – I	3 (3-0)	General Education
5	Functional English	3 (3-0)	General Education
6	Islamic Studies (Ethics for Non-Muslims)	2 (2-0)	General Education
7	Applications of Information & Comm. Technologies (ICT)		3 (2-1)

SEMESTER II

S.No	Course Title	Credit Hours	Component Category
1	Introduction to Medical Laboratory Technology	2 (2-0)	Major: AHS Common Core
2	First Aid & Emergency Care	2 (1-1)	Major: AHS Common Core
3	Introduction to Medical Equipment & Technology	3 (2-1)	Major: AHS Common Core
4	Introduction to Allied Health Sciences - I	2 (2-0)	Major: AHS Common Core
5	Patient Safety & Infection Control	2 (1-1)	Major: AHS Common Core
6	Quantitative Reasoning – II	3 (3-0)	General Education
7	Social Sciences Elective	2 (2-0)	General Education
	Semester Total Credit Hours	16	

YEAR 2: PATHOLOGY, PHARMACOLOGY & CIVIC ENGAGEMENT

SEMESTER III

S.No	Course Title	Credit Hours	Component Category
1	Introduction to Allied Health Sciences - II	2 (2-0)	Major: AHS Common Core
2	General Pathology	3 (2-1)	Major: AHS Common Core
3	Introduction to Public Health and Epidemiology	3 (3-0)	Major: AHS Common Core
4	Natural Science Elective	3 (2-1)	General Education
5	Arts & Humanities Elective	2 (2-0)	General Education
6	Civics and Community Engagement	2 (2-0)	General Education
7	Ideology and Constitution of Pakistan	2 (2-0)	General Education
8	Translation & Understanding of Holy Quran-I	1 (0-1)	General Education
	Semester Total Credit Hours	18	

SEMESTER IV

S.No	Course Title	Credit Hours	Component Category
1	General Pharmacology	3 (2-1)	Major: AHS Common Core
2	Translation & Understanding of Holy Quran - II	1 (0-1)	General Education
3	Expository Writing	3 (3-0)	General Education
4	Healthcare Systems & Policies	2 (2-0)	Major: AHS Common Core
5	Healthcare Marketing & Management	2 (2-0)	Major: AHS Common Core
6	Introduction to Nursing Practice	3 (2-1)	Major: AHS Common Core
7	Entrepreneurship	2 (2-0)	General Education
8	Pakistan Studies	2 (2-0)	General Education
	Semester Total Credit Hours	18	

YEAR 3: CLINICAL LABORATORY DOMAIN CORE

SEMESTER V

S.No	Course Title	Credit Hours	Component Category
1	Hematology	3 (2-1)	Major / Domain Core
2	Clinical Biochemistry	3 (2-1)	Major / Domain Core
3	Clinical Bacteriology and Virology	3 (2-1)	Major / Domain Core
4	Medical Laboratory Instrumentations	3 (2-1)	Major / Domain Core
5	Molecular Biology	3 (2-1)	Major / Domain Core
6	Supervised Clinical Practice-I: Biochemistry	3 (0-3)	Major / Domain Core
	Semester Total Credit Hours	18	

SEMESTER VI

S.No	Course Title	Credit Hours	Component Category
1	Chemical Pathology	3 (2-1)	Major / Domain Core
2	Medical Parasitology & Mycology	3 (2-1)	Major / Domain Core
3	Scientific Writing and Research Methods	3 (2-1)	Interdisciplinary
4	Biostatistics	3 (2-1)	Interdisciplinary
5	Supervised Clinical Practice – II: Microbiology	3 (0-3)	Major / Domain Core
	Semester Total Credit Hours	15	

YEAR 4: SPECIALIZATION, INTERNSHIP & RESEARCH

SEMESTER VII

S.No	Course Title	Credit Hours	Component Category
1	Immunology & Serology	3 (2-1)	Major / Domain Core
2	Blood Bank & Transfusion Medicine	3 (2-1)	Major / Domain Core
3	Bioinformatics	3 (2-1)	Interdisciplinary
4	Biomarkers in Disease Diagnosis	3 (2-1)	Major / Domain Core
5	Supervised Clinical Practice-III: Hematology	3 (0-3)	Major / Domain Core
	Semester Total Credit Hours	15	

SEMESTER VIII

S.No	Course Title	Credit Hours	Component Category
1	Artificial Intelligence in Health Care	2 (2-0)	Interdisciplinary
2	Clinical Lab Management	2 (2-0)	Major / Domain Core
3	Cytology and Histotechniques	3 (2-1)	Major / Domain Core
4	Biotechnology	3 (2-1)	Major / Domain Core
5	Supervised Clinical Practice-IV: Immunology & Serology	3 (0-3)	Major / Domain Core
6	Capstone Project / Thesis	3	Capstone
	Semester Total Credit Hours	16	

YEAR 4: SPECIALIZATION, INTERNSHIP & RESEARCH

SEMESTER VII

S.No	Course Title	Credit Hours	Component Category
1	Immunology & Serology	3 (2-1)	Major / Domain Core
2	Blood Bank & Transfusion Medicine	3 (2-1)	Major / Domain Core
3	Bioinformatics	3 (2-1)	Interdisciplinary
4	Biomarkers in Disease Diagnosis	3 (2-1)	Major / Domain Core
5	Supervised Clinical Practice-III: Hematology	3 (0-3)	Major / Domain Core
	Semester Total Credit Hours	15	

SEMESTER VIII

S.No	Course Title	Credit Hours	Component Category
1	Artificial Intelligence in Health Care	2 (2-0)	Interdisciplinary
2	Clinical Lab Management	2 (2-0)	Major / Domain Core
3	Cytology and Histotechniques	3 (2-1)	Major / Domain Core
4	Biotechnology	3 (2-1)	Major / Domain Core
5	Supervised Clinical Practice-IV: Immunology & Serology	3 (0-3)	Major / Domain Core
6	Capstone Project / Thesis	3	Capstone
	Semester Total Credit Hours	16	

DEGREE GRADUATION REQUIREMENTS

To graduate with a Bachelor of Science in Medical Laboratory Technology (Allied Health Sciences) degree, the student must successfully meet the following standards:

a) All courses in the General Education category with titles and credit hours as prescribed in HEC Undergraduate Education Policy V 1.1. must be completed.

b) Minimum of 138 credit hours (including internship / field experience and capstone project) as prescribed in this policy document must be completed.

c) Capstone / research project of 3 credit hours must be completed in accordance with HEC Undergraduate Education Policy V 1.1. This requirement cannot be substituted with additional coursework or internship.

d) Internship / Field Experience of 3 credit hours must be completed in accordance with HEC Undergraduate Education Policy V 1.1. This requirement cannot be substituted with additional coursework, capstone,
research or project work.

e) CGPA must not be below 2.00/4.00 at the time of completion of the degree program. The university may, however, set higher standard in this regard.

f) The minimum duration to complete the degree is 8 regular semesters (4 Years) and the maximum duration is 12 regular semesters (6 Years). The maximum duration may be extended to 2 more semesters (1 Year) in extraordinary circumstances subject to approval of the university's relevant statutory body. Summer semester is not considered as a regular semester.

BACHELOR OF SCIENCE IN ANESTHESIA TECHNOLOGY — BS AT (AHS)

PROGRAM OVERVIEW

The Bachelor of Science in Anesthesia Technology (Allied Health Sciences) at Prime College of Allied Health Sciences is an elite four-year professional undergraduate degree program structured in strict accordance with the Higher Education Commission (HEC) Undergraduate Education Policy V 1.1.

Anesthesia technologists form an indispensable pillar of perioperative medicine, surgical teams, and critical care units. This advanced curriculum integrates comprehensive medical science with high-tech clinical instruction, spanning crucial domains such as specialized anesthesia pharmacology, advanced physics of anesthesia gases, mechanical ventilation, multi-parameter patient monitoring, and perioperative management for complex or sub-specialized surgical procedures.

Over eight regular semesters, students gain extensive, structured hands-on clinical experience with real-time anesthetic delivery systems, advanced airway management, patient safety measures, and crisis simulation protocols. This rigorous training positions graduates for competitive leadership careers in clinical operating suites, surgical trauma centers, intensive care units, and research institutions both nationally and globally.

Standard Degree Nomenclature:

Bachelor of Science in Anesthesia Technology (Allied Health Sciences)

Official Short Form:

BS - AT (AHS)

Academic Level:

National Qualifications Framework (NQF) Level 6 Qualification

PROGRAM LEARNING OUTCOMES (PLOs)

Upon successful completion of the BSAT (AHS) program, graduates will possess the professional competence to:

1. Core Scientific Mastery:

Demonstrate a comprehensive understanding of the fundamental concepts of anesthesia sciences, specializing in clinical pharmacology, specific systemic physiology, pre-anesthetic patient assessment, and the systemic management of anesthesia-related complications.

2. Clinical Technical Competence:

Expertly operate, maintain, and troubleshoot intricate anesthesia workstations, mechanical ventilators, monitoring technologies, and associated clinical equipment to safely support anesthesiologists during surgical and emergency medical interventions.

3. Professionalism & Ethical Practice:

Communicate vital patient metrics, procedural parameters, and specialized clinical findings with speed and precision within multidisciplinary healthcare teams, maintaining an unyielding commitment to patient safety standards, institutional clinical ethics, and continuous professional development.

TEACHING & LEARNING METHODOLOGIES

To ensure our students match international evaluation and accreditation benchmarks, course delivery utilizes multi-channel, premium modalities:

Interactive Instruction:

Lectures, technical demonstrations, clinical case discussions, specialized workshops, and immersive role-plays.

Pedagogical Materials:

Standard text-books, peer-reviewed international journals, technical handouts, and curated audio-visual assets.

Technological Integration:

Multimedia systems, slides, and internet-accessible clinical software setups.

ASSESSMENT & EVALUATION FRAMEWORK

Progress is monitored via a rigorous, continuous assessment blueprint:

For Students:

Internal evaluation metrics derived from written assignments, individual/group presentations, mid-semester/mid-term examinations, and final semester-end examinations.

For Facilitators:

To maintain premium quality management, students execute systematic course and faculty evaluations at the conclusion of each module via a standardized feedback proforma.

ELIGIBILITY & ADMISSION CRITERIA

Candidates seeking entry into the BSAT (AHS) program must fulfill the following institutional requirements:

Academic Qualification:

Higher Secondary School Certificate (HSSC) / Intermediate in the Pre-Medical Group (12 years of formal schooling) or an equivalent qualification certified by the Inter Board Coordination Commission (IBCC).

Minimum Academic Grade:

A minimum cumulative score of 50% in F.Sc Pre-Medical.

Selection Process:

Admission is strictly merit-based. The College Admission Committee calculates merit using entry test metrics, academic transcripts, and interview parameters approved by the institutional statutory bodies.

ACADEMIC & PROGRAM STRUCTURE

The curriculum spans a structural minimum of 138 credit hours, maximizing clinical and practical contact hours without causing structural academic overload.

Minimum Program Duration: 4 Academic Years (8 Regular Semesters)

Maximum Program Duration: 6 Years (Extendable by a maximum of 1 year under extraordinary circumstances, subject to formal approval by the University's statutory bodies).

Regular Semester Duration: 16 to 18 weeks of active teaching (plus 1 to 2 weeks dedicated strictly to examinations).

Course Credit Load: 15 to 18 credit hours per regular semester.

Credit Hour Definition (Theory): 1 Credit Hour equals 1 contact hour of classroom lecture per week.

Credit Hour Definition (Lab / Clinical Fieldwork): 1 Credit Hour equals 3 contact hours of hands-on laboratory or clinical practice per week.

Curriculum Component Weight Distribution

Curriculum Component Category	Credit Hours	Course Distribution
Major: AHS Common Core	37	15 Courses
General Education Requirements	34	15 Courses
Interdisciplinary Courses	12	05 Courses
Major / Domain Core	49	19 Courses
Mandatory Clinical Internship	03	Field Rotation
Capstone Research Project	03	Thesis / Viva
Total Minimum Degree Requirement	138	55 Blocks

SEMESTER-WISE SCHEME OF STUDIES

YEAR 1: FOUNDATIONAL SCIENCES & GENERAL EDUCATION

SEMESTER I

S.No	Course Title	Credit Hours	Component Category
1	Human Anatomy	3 (2-1)	Major: AHS Common Core
2	Human Physiology	3 (2-1)	Major: AHS Common Core
3	Introduction to Medical Biochemistry	2 (1-1)	Allied Health Common Core
4	Quantitative Reasoning – I	3 (3-0)	General Education
5	Functional English	3 (3-0)	General Education
6	Islamic Studies (Ethics for Non-Muslims)	2 (2-0)	General Education
7	Applications of Information & Comm. Technologies (ICT)	3 (2-1)	General Education
	Semester Total Credit Hours	19	

SEMESTER II

S.No	Course Title	Credit Hours	Component Category
1	Introduction to Anesthesia Technology	2 (2-0)	Major: AHS Common Core
2	First Aid & Emergency Care	2 (1-1)	Major: AHS Common Core
3	Introduction to Medical Equipment & Technology	3 (2-1)	Major: AHS Common Core
4	Introduction to Allied Health Sciences-I	2 (2-0)	Major: AHS Common Core
5	Patient Safety & Infection Control	2 (1-1)	Major: AHS Common Core
6	Quantitative Reasoning – II	3 (3-0)	General Education
7	Social Sciences Elective	2 (2-0)	General Education
	Semester Total Credit Hours	16	

YEAR 2: PATHOLOGY, PHARMACOLOGY & CIVIC ENGAGEMENT

SEMESTER III

S.No	Course Title	Credit Hours	Component Category
1	Introduction to Allied Health Sciences- II	2 (2-0)	Major: AHS Common Core
2	General Pathology	3 (2-1)	Major: AHS Common Core
3	Introduction to Public Health and Epidemiology	3 (3-0)	Major: AHS Common Core
4	Natural Science Elective	3 (2-1)	General Education
5	Arts & Humanities Elective	2 (2-0)	General Education
6	Civics and Community Engagement	2 (2-0)	General Education
7	Ideology and Constitution of Pakistan	2 (2-0)	General Education
8	Translation & Understanding of Holy Quran- I	1 (0-1)	General Education
	Semester Total Credit Hours	18	

SEMESTER IV

S.No	Course Title	Credit Hours	Component Category
1	General Pharmacology	3 (2-1)	Major: AHS Common Core
2	Translation & Understanding of Holy Quran- II	1 (0-1)	General Education
3	Expository Writing	3 (3-0)	General Education
4	Healthcare Systems & Policies	2 (2-0)	Major: AHS Common Core
5	Healthcare Marketing & Management	2 (2-0)	Major: AHS Common Core
6	Introduction to Nursing Practice	3 (2-1)	Major: AHS Common Core
7	Entrepreneurship	2 (2-0)	General Education
8	Pakistan Studies	2 (2-0)	General Education
	Semester Total Credit Hours	18	

YEAR 3: CLINICAL ANESTHESIA CORE TECHNOLOGIES

SEMESTER V

S.No	Course Title	Credit Hours	Component Category
1	Physiology related to Anesthesia	3 (2-1)	Major / Domain Core
2	Hematology related to Anesthesia	3 (2-1)	Major / Domain Core
3	Physics related to Anesthesia	2 (1-1)	Major / Domain Core
4	Anesthesia Equipment	2 (1-1)	Major / Domain Core
5	Anesthetic Drugs	3 (2-1)	Major / Domain Core
6	Cardiac Electrophysiology	2 (1-1)	Interdisciplinary
7	Supervised Clinical Practice - I	3 (0-3)	Major / Domain Core
	Semester Total Credit Hours	18	

SEMESTER VI

S.No	Course Title	Credit Hours	Component Category
1	Mechanical Ventilation	2 (1-1)	Major / Domain Core
2	Anesthesia & Co-existing Diseases	3 (2-1)	Major / Domain Core
3	Biostatistics & Research Methods	3 (2-1)	Interdisciplinary
4	Advances in Anesthesia	2 (2-0)	Major / Domain Core
5	Infection Control	3 (3-0)	Interdisciplinary
6	Supervised Clinical Practice - II	3 (0-3)	Major / Domain Core
	Semester Total Credit Hours	16	

YEAR 4: SURGICAL SPECIALTIES & SIMULATION ENCOUNTERS

SEMESTER VII

S.No	Course Title	Credit Hours	Component Category
1	Anesthesia for General, Orthopedic & Oncological Surgery	2 (1-1)	Major / Domain Core
2	Anesthesia and Critical Care	2 (1-1)	Major / Domain Core
3	Anesthesia for Cardiothoracic, Neuro & Transplant Surgery	2 (1-1)	Major / Domain Core
4	Anesthesia for ENT, Ophthalmic, Dental & Daycare Procedures	2 (1-1)	Major / Domain Core
5	Pain Management and Palliative Care	2 (1-1)	Interdisciplinary
6	Fluid and Electrolyte Therapy	2 (1-1)	Interdisciplinary
7	Supervised Clinical Practice – III	3 (0-3)	Major / Domain Core
	Semester Total Credit Hours	15	

SEMESTER VIII

S.No	Course Title	Credit Hours	Component Category
1	Anesthesia for Pediatric, Obstetric & Special Population Surgery	3 (2-1)	Major / Domain Core
2	Emergency Anesthesia, Simulation & Ethical Practice	3 (2-1)	Major / Domain Core
3	Complications related to Anesthesia	3 (2-1)	Major / Domain Core
4	Supervised Clinical Practice – IV	3 (0-3)	Major / Domain Core
5	Capstone Project / Thesis	3	Capstone
	Semester Total Credit Hours	15	

DEGREE GRADUATION REQUIREMENTS

To graduate with a Bachelor of Science in Medical Laboratory Technology (Allied Health Sciences) degree, the student must successfully meet the following standards:

a) All courses in the General Education category with titles and credit hours as prescribed in HEC Undergraduate Education Policy V 1.1. must be completed.

b) Minimum of 138 credit hours (including internship / field experience and capstone project) as prescribed in this policy document must be completed.

c) Capstone / research project of 3 credit hours must be completed in accordance with HEC Undergraduate Education Policy V 1.1. This requirement cannot be substituted with additional coursework or internship.

d) Internship / Field Experience of 3 credit hours must be completed in accordance with HEC Undergraduate Education Policy V 1.1. This requirement cannot be substituted with additional coursework, capstone,
research or project work.

e) CGPA must not be below 2.00/4.00 at the time of completion of the degree program. The university may, however, set higher standard in this regard.

f) The minimum duration to complete the degree is 8 regular semesters (4 Years) and the maximum duration is 12 regular semesters (6 Years). The maximum duration may be extended to 2 more semesters (1 Year) in extraordinary circumstances subject to approval of the university's relevant statutory body. Summer semester is not considered as a regular semester.

BS DT

BACHELOR OF SCIENCE IN DENTAL TECHNOLOGY — BSDT (AHS)

PROGRAM OVERVIEW

The Bachelor of Science in Dental Technology (Allied Health Sciences) at Prime College of Allied Health Sciences is an elite four-year professional undergraduate degree program structured in strict accordance with the Higher Education Commission (HEC) Undergraduate Education Policy V 1.1.

Dental technologists form a vital pillar of modern dental healthcare systems and restorative medicine. This premium curriculum integrates comprehensive foundational medical sciences with advanced dental laboratory and chairside training. The program spans critical domains including oral dental anatomy, tooth morphology, advanced dental materials, maxillofacial prosthodontics, clinical endodontics, orthodontics, and digital CAD/CAM dentistry.

Over eight regular semesters, students gain extensive, structured hands-on clinical and laboratory experience across our specialized dental facilities. Students master impression-taking, chairside assistance, and the precise design, fabrication, and fitting of fixed and removable dental appliances. This rigorous academic framework positions graduates for successful, highly competitive careers in clinical dental laboratories, hospital dental wings, prosthodontic practices, and specialized dental care units both nationally and internationally.

Standard Degree Nomenclature: Bachelor of Science in Dental Technology (Allied Health Sciences)
Official Short Form: BSDT (AHS)
Academic Level: National Qualifications Framework (NQF) Level 6 Qualification

PROGRAM LEARNING OUTCOMES (PLOs)

Upon successful completion of the BSDT (AHS) program, graduates will possess the **professional competence to:**

Clinical & Technical Integration: Apply deep theoretical knowledge of dental sciences and critical thinking to deliver effective, precision-driven patient care.

Laboratory Mastery: Competently handle specialized dental instruments, perform advanced clinical and laboratory procedures, and independently fabricate prosthodontic, orthodontic, and complex maxillofacial surgical dental appliances.

Ethical Primary Oral Care: Deliver safe, responsible, and ethical primary oral health care services, actively contributing to public awareness and community dental health improvements.

Research & Professional Leadership: Engage in scientific research, medical writing, and continuous professional development, advancing the technical standards and professional role of dental technologists within the global healthcare team.

TEACHING & LEARNING METHODOLOGIES

To ensure our students match international evaluation and accreditation benchmarks, course delivery utilizes multi-channel, premium modalities:

Interactive Instruction: Lectures, technical demonstrations, clinical case discussions, specialized workshops, and immersive role-plays.

Pedagogical Materials: Standard text-books, peer-reviewed international journals, technical handouts, and curated audio-visual assets.

Technological Integration: Multimedia systems, slides, and internet-accessible clinical software setups.

ASSESSMENT & EVALUATION FRAMEWORK

Progress is monitored via a rigorous, continuous assessment blueprint:

For Students: Internal evaluation metrics derived from written assignments, individual/group presentations, mid-semester/mid-term examinations, and final semester-end examinations.

For Facilitators: To maintain premium quality management, students execute systematic course and faculty evaluations at the conclusion of each module via a standardized feedback proforma.

ELIGIBILITY & ADMISSION CRITERIA

Candidates seeking entry into the BSDT (AHS) program must fulfill the following institutional requirements:

Academic Qualification: Higher Secondary School Certificate (HSSC) / Intermediate in the **Pre-Medical Group** (12 years of formal schooling) or an equivalent qualification certified by the Inter Board Coordination Commission (IBCC).

Minimum Academic Grade: A minimum cumulative score of **50%** in F.Sc Pre-Medical.

Selection Process: Admission is strictly merit-based. The College Admission Committee calculates merit using entry test metrics, academic transcripts, and interview parameters approved by the institutional statutory bodies.

ACADEMIC & PROGRAM STRUCTURE

The curriculum spans a structural minimum of 139 credit hours, prioritizing clinical practice and high-tech laboratory contact hours without causing structural academic overload.

Minimum Program Duration: 4 Academic Years (8 Regular Semesters)

Maximum Program Duration: 6 Years *(With a provision for extension by a maximum of 1 year under extraordinary circumstances, subject to formal approval by the University's statutory bodies).*

Regular Semester Duration: 16 to 18 weeks of active teaching *(plus 1 to 2 weeks dedicated strictly to examinations).*

Course Credit Load: 15 to 18 credit hours per regular semester.

Credit Hour Definition (Theory): 1 Credit Hour equals 1 contact hour of classroom lecture per week.

Credit Hour Definition (Lab / Clinical Fieldwork): 1 Credit Hour equals 3 contact hours of hands-on laboratory or clinical practice per week.

Curriculum Component Weight Distribution

Curriculum Component Category	Credit Hours	Course Distribution
Major: AHS Common Core	37	14 Courses
General Education Requirements	34	15 Courses
Interdisciplinary Courses	12	04 Courses
Major / Domain Core	50	21 Courses
Mandatory Clinical Internship	03	Field Rotation
Capstone Research Project	03	Thesis / Viva
Total Minimum Degree Requirement	**139**	**56 Blocks**

SEMESTER-WISE SCHEME OF STUDIES

SEMESTER I

S.No	Course Title	Credit Hours	Component Category
1	Human Anatomy	3 (2-1)	Allied Health /Common Core
2	Human Physiology	3 (2-1)	Allied Health/ Common Core
3	Introduction to Medical Biochemistry	2 (1-1)	Allied Health /Common Core
4	Quantitative Reasoning – I	3 (3-0)	General Education
5	Functional English	3 (3-0)	General Education
6	Islamic Studies (Ethics for Non-Muslims)	2 (2-0)	General Education
7	Applications of Information & Comm. Technologies (ICT)	3 (2-1)	General Education
	Semester Total Credit Hours	19	

SEMESTER II

S.No	Course Title	Credit Hours	Component Category
1	Introduction to Dental Technology	2 (2-0)	Allied Health /Common Core
2	First Aid & Emergency Care	2 (1-1)	Allied Health /Common Core
3	Introduction to Medical Equipment & Technology	3 (2-1)	Allied Health /Common Core
4	Introduction to Allied Health Sciences - I	2 (2-0)	Allied Health /Common Core
5	Patient Safety & Infection Control	2 (1-1)	Allied Health /Common Core
6	Quantitative Reasoning – II	3 (3-0)	General Education
7	Social Sciences Elective	2 (2-0)	General Education
	Semester Total Credit Hours	16	

SEMESTER III

S.No	Course Title	Credit Hours	Component Category
1	Introduction to Allied Health Sciences - II	2 (2-0)	Major: AHS Common Core
2	General Pathology	3 (2-1)	Major: AHS Common Core
3	Introduction to Public Health and Epidemiology	3 (3-0)	Major: AHS Common Core
4	Natural Science Elective	3 (2-1)	General Education
5	Arts & Humanities Elective	2 (2-0)	General Education
6	Civics & Community Engagement	2 (2-0)	General Education
7	Ideology & Constitution of Pakistan	2 (2-0)	General Education
8	Translation & Understanding of Holy Quran – I	1 (0-1)	General Education
	Semester Total Credit Hours	18	

SEMESTER IV

S.No	Course Title	Credit Hours	Component Category
1	General Pharmacology	3 (2-1)	Major: AHS Common Core
2	Translation & Understanding of Holy Quran – II	1 (0-1)	General Education
3	Expository Writing	3 (3-0)	General Education
4	Healthcare Systems & Policies	2 (2-0)	Major: AHS Common Core
5	Healthcare Marketing & Management	2 (2-0)	Major: AHS Common Core
6	Introduction to Nursing Practice	3 (2-1)	Major: AHS Common Core
7	Entrepreneurship	2 (2-0)	General Education
8	Pakistan Studies	2 (2-0)	General Education
	Semester Total Credit Hours	18	

SEMESTER V

S.No	Course Title	Credit Hours	Component Category
1	Tooth Morphology	2 (1-1)	Major /Domain Core
2	Prosthodontics - I	2 (1-1)	Major /Domain Core
3	Oral Biology & Histology	3 (2-1)	Interdisciplinary
4	Minor Oral Surgery	3 (2-1)	Major /Domain Core
5	Endodontics	3 (2-1)	Major /Domain Core
6	Supervised Clinical Practice - I	3 (0-3)	Major /Domain Core
	Semester Total Credit Hours	16	

SEMESTER VI

S.No	Course Title	Credit Hours	Component Category
1	Dental Material	2 (1-1)	Major/ Domain Core
S.No	Course Title	Credit Hours	Component Category
2	Fundamentals of Implantology	2 (1-1)	Major /Domain Core
3	Prosthodontics - II	2 (1-1)	Major /Domain Core
4	Scientific Writing & Research Methods	3 (2-1)	Interdisciplinary
5	Periodontology	3 (2-1)	Major /Domain Core
6	Supervised Clinical Practice - II	3 (0-3)	Major /Domain Core
7	Artificial Intelligence in Healthcare	3 (3-0)	Interdisciplinary
	Semester Total Credit Hours	18	

SEMESTER VII

S.No	Course Title	Credit Hours	Component Category
1	Oral Pathology and Oral Medicine - I	2 (1-1)	Major / Domain Core
2	Paediatric Dentistry	2 (1-1)	Major / Domain Core
3	Fundamentals of Oral and Maxillofacial Radiology	2 (1-1)	Major / Domain Core
4	Orthodontics - I	2 (1-1)	Major / Domain Core
5	Community and Preventive Dentistry	2 (2-0)	Major / Domain Core
6	Biostatistics	3 (2-1)	Interdisciplinary
7	Supervised Clinical Practice - III	3 (0-3)	Major / Domain Core
	Semester Total Credit Hours	16	

SEMESTER VIII

S.No	Course Title	Credit Hours	Component Category
1	Orthodontics - II	2 (1-1)	Major /Domain Core
2	Oral Pathology and Oral Medicine - II	2 (1-1)	Major /Domain Core
3	Capstone Project	3	Capstone
4	Restorative Dentistry	3 (2-1)	Major /Domain Core
5	Medical Emergencies in Dental Practice	2 (1-1)	Major /Domain Core
6	Supervised Clinical Practice - IV	3 (0-3)	Major /Domain Core
	Semester Total Credit Hours	15	

DEGREE GRADUATION REQUIREMENTS

To graduate with a Bachelor of Science in Medical Laboratory Technology (Allied Health Sciences) degree, the student must successfully meet the following standards:

a) All courses in the General Education category with titles and credit hours as prescribed in HEC

Undergraduate Education Policy V 1.1. must be completed.

b) Minimum of 138 credit hours (including internship / field experience and capstone project) as prescribed in this policy document must be completed.

c) Capstone / research project of 3 credit hours must be completed in accordance with HEC Undergraduate Education Policy V 1.1. This requirement cannot be substituted with additional coursework or internship.

d) Internship / Field Experience of 3 credit hours must be completed in accordance with HEC Undergraduate Education Policy V 1.1. This requirement cannot be substituted with additional coursework, capstone,

research or project work.

e) CGPA must not be below 2.00/4.00 at the time of completion of the degree program. The university may, however, set higher standard in this regard.

f) The minimum duration to complete the degree is 8 regular semesters (4 Years) and the maximum duration is 12 regular semesters (6 Years). The maximum duration may be extended to 2 more semesters (1 Year) in extraordinary circumstances subject to approval of the university's relevant statutory body. Summer semester is not considered as a regular semester.

BS Radiology

BACHELOR OF SCIENCE IN MEDICAL IMAGING TECHNOLOGY — BS MIT (AHS)

PROGRAM OVERVIEW

The Bachelor of Science in Medical Imaging Technology (Allied Health Sciences) at Prime College of Allied Health Sciences is a premium four-year professional undergraduate degree program structured in strict accordance with the Higher Education Commission (HEC) Pakistan Undergraduate Education Policy V 1.1.

Medical imaging technologists serve as the scientific visual bridge in clinical medicine, turning advanced physics into critical diagnostic solutions. This advanced curriculum is engineered to deliver a comprehensive, system-based foundation in radiologic sciences and high-tech clinical instruction. The program covers vital modalities including diagnostic radiography (CR/DR), Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Clinical Sonography, Fluoroscopy, Mammography, Nuclear Medicine, and high-intensity Interventional Radiology.

Spanning eight regular semesters, the curriculum balances theoretical medicine with supervised clinical practice. Students train directly on modern visualization equipment, digital imaging setups, and Picture Archiving and Communication Systems (PACS), while strictly adhering to global standards for ALARA (As Low As Reasonably Achievable) radiation protection, patient safety, and medical ethics. This prepares graduates for competitive medical imaging and radiology careers within national and international healthcare structures.

Standard Degree Nomenclature: Bachelor of Science in Medical Imaging Technology (Allied Health Sciences)

Official Short Form: BS MIT (AHS)

Academic Level: National Qualifications Framework (NQF) Level 6 Qualification

PROGRAM LEARNING OUTCOMES (PLOs)

Upon successful completion of the BS MIT (AHS) program, graduates will possess the professional competence to:

Radiologic Science Mastery: Demonstrate comprehensive knowledge of radiologic sciences, structural human anatomy, imaging principles, and advanced radiation physics required for safe and effective diagnostic and interventional imaging.

Clinical Modality Competence: Perform complex radiologic procedures competently using modern imaging technologies—including X-ray, CT, MRI, ultrasound, and fluoroscopy—ensuring high-quality diagnostic captures and optimal patient positioning.

Radiation Safety & Professional Ethics: Apply rigorous radiation protection guidelines, infection control standards, and professional healthcare ethics to minimize exposure risks for patients, healthcare staff, and the public.

Healthcare Communication & Systems Integration: Communicate effectively with patients and multidisciplinary healthcare teams, utilize clinical judgment, and manage digital imaging architectures (such as PACS and emerging AI diagnostic technologies) to support precise patient care.

TEACHING & LEARNING METHODOLOGIES

To ensure our students match international evaluation and accreditation benchmarks, course delivery utilizes multi-channel, premium modalities:

Interactive Instruction: Lectures, technical demonstrations, clinical case discussions, specialized workshops, and immersive role-plays.

Pedagogical Materials: Standard text-books, peer-reviewed international journals, technical handouts, and curated audio-visual assets.

Technological Integration: Multimedia systems, slides, and internet-accessible clinical software setups.

ASSESSMENT & EVALUATION FRAMEWORK

Progress is monitored via a rigorous, continuous assessment blueprint:

For Students: Internal evaluation metrics derived from written assignments, individual/group presentations, mid-semester/mid-term examinations, and final semester-end examinations.

For Facilitators: To maintain premium quality management, students execute systematic course and faculty evaluations at the conclusion of each module via a standardized feedback proforma.

ELIGIBILITY & ADMISSION CRITERIA:

Candidates seeking entry into the BS MIT (AHS) program must fulfill the following institutional requirements:

Academic Qualification: Higher Secondary School Certificate (HSSC) / Intermediate in the Pre-Medical Group (12 years of formal schooling) or an equivalent qualification certified by the Inter Board Coordination Commission (IBCC).

Minimum Academic Grade: A minimum cumulative score of 50% in F.Sc Pre-Medical.

Selection Process: Admission is strictly merit-based. The College Admission Committee calculates merit using entry test metrics, academic transcripts, and interview parameters approved by the institutional statutory bodies.

ACADEMIC & PROGRAM STRUCTURE

The curriculum spans a structural minimum of 138 credit hours, optimizing clinical contact hours and tech-lab exposure without causing student overload.
Minimum Program Duration: 4 Academic Years (8 Regular Semesters)
Maximum Program Duration: 6 Years (Extendable by a maximum of 1 year under extraordinary circumstances, subject to formal approval by the University's statutory bodies).

Regular Semester Duration: 16 to 18 weeks of active teaching (plus 1 to 2 weeks dedicated strictly to examinations).

Course Credit Load: 15 to 18 credit hours per regular semester.

Credit Hour Definition (Theory): 1 Credit Hour equals 1 contact hour of classroom lecture per week.

Credit Hour Definition (Lab / Clinical Fieldwork): 1 Credit Hour equals 3 contact hours of hands-on laboratory or hospital clinical practice per week.

Curriculum Component Weight Distribution

Curriculum Component Category	Credit Hours	Course Distribution
Allied Health Common Core	37	15 Courses
General Education Requirements	34	15 Courses
Interdisciplinary Courses	12	04 Courses
Domain Specific Core	49	20 Courses
Mandatory Clinical Internship	03	Field Rotation
Capstone Research Project	03	Thesis / Viva
Total Minimum Degree Requirement	138	56 Blocks

SEMESTER-WISE SCHEME OF STUDIES

SEMESTER I

S.No	Course Title	Credit Hours	Component Category
1	Human Anatomy	3 (2-1)	Allied Health Common Core
2	Human Physiology	3 (2-1)	Allied Health Common Core
3	Introduction to Medical Biochemistry	2 (1-1)	Allied Health Common Core
4	Quantitative Reasoning – I	3 (3-0)	General Education
5	Functional English	3 (3-0)	General Education
6	Islamic Studies (Ethics for Non-Muslims)	2 (2-0)	General Education
7	Applications of Information & Comm. Technologies (ICT)	3 (2-1)	General Education
	Semester Total Credit Hours	19	

SEMESTER II

S.No	Course Title	Credit Hours	Component Category
1	Introduction to Medical Imaging Technology	2 (2-0)	Allied Health Common Core
2	First Aid & Emergency Care	2 (1-1)	Allied Health Common Core
3	Introduction to Medical Equipment & Technology	3 (2-1)	Allied Health Common Core
4	Introduction to Allied Health Sciences - I	2 (2-0)	Allied Health Common Core
5	Patient Safety & Infection Control	2 (1-1)	Allied Health Common Core
6	Quantitative Reasoning – II	3 (3-0)	General Education
7	Social Sciences Elective	2 (2-0)	General Education
	Semester Total Credit Hours	16	

SEMESTER III

S.No	Course Title	Credit Hours	Component Category
1	Introduction to Allied Health Sciences - II	2 (2-0)	Allied Health Common Core
2	General Pathology	3 (2-1)	Allied Health Common Core
3	Introduction to Public Health and Epidemiology	3 (3-0)	Allied Health Common Core
4	Natural Science Elective	3 (2-1)	General Education
5	Arts & Humanities Elective	2 (2-0)	General Education
6	Civics & Community Engagement	2 (2-0)	General Education
7	Ideology & Constitution of Pakistan	2 (2-0)	General Education
8	Translation & Understanding of Holy Quran – I	1 (0-1)	General Education
	Semester Total Credit Hours	18	

SEMESTER IV

S.No	Course Title	Credit Hours	Component Category
1	General Pharmacology	3 (2-1)	Allied Health Common Core
2	Translation & Understanding of Holy Quran – II	1 (0-1)	General Education
3	Expository Writing	3 (3-0)	General Education
4	Healthcare Systems & Policies	2 (2-0)	Allied Health Common Core
5	Healthcare Marketing & Management	2 (2-0)	Allied Health Common Core
6	Introduction to Nursing Practice	3 (2-1)	Allied Health Common Core
7	Entrepreneurship	2 (2-0)	General Education
8	Pakistan Studies	2 (2-0)	General Education
	Semester Total Credit Hours	18	

SEMESTER V

S.No	Course Title	Credit Hours	Component Category
1	Radiation Sciences & Technology	2 (1-1)	Major Domain Core
2	General Radiology & Positioning Techniques	2 (1-1)	Major Domain Core
3	Fluoroscopy & Radiological Procedures	3 (2-1)	Major Domain Core
4	Mammography & Special Radiological Techniques	3 (2-1)	Major Domain Core
5	Radiobiology & Radiation Protection	2 (2-0)	Major Domain Core
6	Applied Medicine	3 (3-0)	Interdisciplinary
7	Supervised Clinical Practice – I: X-Ray, Fluoroscopy & Mammography	3 (0-3)	Major Domain Core
	Semester Total Credit Hours	18	

SEMESTER VI

S.No	Course Title	Credit Hours	Component Category
1	Anatomy for Diagnostic Imaging	3 (2-1)	Major Domain Core
2	Computed & Digital Radiography	2 (2-0)	Major Domain Core
3	Computed Tomography - I	2 (1-1)	Major Domain Core
4	Magnetic Resonance Imaging - I	2 (1-1)	Major Domain Core
5	General Surgery	3 (3-0)	Interdisciplinary
6	Supervised Clinical Practice – II: CR & DR, CT, MRI	3 (0-3)	Major Domain Core
	Semester Total Credit Hours	15	

SEMESTER VII

S.No	Course Title	Credit Hours	Component Category
1	Computed Tomography - II	2 (1-1)	Major Domain Core
2	Magnetic Resonance Imaging - II	2 (1-1)	Major Domain Core
3	Clinical Sonography	3 (1-2)	Major Domain Core
4	Biostatistics	3 (3-0)	Interdisciplinary
5	Scientific Writing & Research Methods	3 (2-1)	Interdisciplinary
6	Supervised Clinical Practice – III: CT, MRI & Ultrasound	3 (0-3)	Major Domain Core
	Semester Total Credit Hours	16	

SEMESTER VIII

S.No	Course Title	Credit Hours	Component Category
1	Clinical Pathology and Radiological Presentation	3 (2-1)	Major Domain Core
2	Therapeutic Radiology	2 (1-1)	Major Domain Core
3	Nuclear Medicine	2 (1-1)	Major Domain Core
4	Interventional Radiology	2 (1-1)	Major Domain Core
5	Supervised Clinical Practice IV: Nuclear Medicine, Interventional & Therapeutic Radiology	3 (0-3)	Major Domain Core
6	Capstone Project	3	Capstone Requirement
	Semester Total Credit Hours	15	

DEGREE GRADUATION REQUIREMENTS

To graduate with a Bachelor of Science in Medical Laboratory Technology (Allied Health Sciences) degree, the student must successfully meet the following standards:

a) All courses in the General Education category with titles and credit hours as prescribed in HEC

Undergraduate Education Policy V 1.1. must be completed.

b) Minimum of 138 credit hours (including internship / field experience and capstone project) as prescribed in this policy document must be completed.

c) Capstone / research project of 3 credit hours must be completed in accordance with HEC Undergraduate Education Policy V 1.1. This requirement cannot be substituted with additional coursework or internship.

d) Internship / Field Experience of 3 credit hours must be completed in accordance with HEC Undergraduate Education Policy V 1.1. This requirement cannot be substituted with additional coursework, capstone,

research or project work.

e) CGPA must not be below 2.00/4.00 at the time of completion of the degree program. The university may, however, set higher standard in this regard.

f) The minimum duration to complete the degree is 8 regular semesters (4 Years) and the maximum duration is 12 regular semesters (6 Years). The maximum duration may be extended to 2 more semesters (1 Year) in extraordinary circumstances subject to approval of the university's relevant statutory body. Summer semester is not considered as a regular semester.

BACHELOR OF SCIENCE IN OPTOMETRY — BS OPTOMETRY

PROGRAM OVERVIEW

The Bachelor of Science in Optometry at Prime College of Allied Health Sciences is an elite professional undergraduate degree program engineered to meet national and international human resource needs for comprehensive eye care services.

Structured in alignment with global initiatives like the World Health Organization (WHO) and the International Agency for the Prevention of Blindness (IAPB) "VISION 2020: The Right to Sight" initiative, this program addresses the critical reality that 75% of worldwide blindness is avoidable, preventable, or treatable. In modern ophthalmic frameworks, the concept of Mid-Level Eye Care Personnel (MLECP) has emerged as an exceptionally cost-effective measure for establishing and strengthening Comprehensive Eye Care (CEC).

Spanning an extensive, highly clinical curriculum, this program combines classroom lectures, advanced laboratory modules, and comprehensive clinical field training. Students develop specialized skills across essential ocular disciplines: visual optics, dispensing optics, contact lenses, low vision rehabilitation, advanced orthoptics, and public eye health care management. Graduates are trained as high-level ophthalmic technologists equipped to support tertiary eye care institutions, eliminate avoidable blindness, and build strong professional career paths across public and private hospitals, academic environments, and the global non-governmental organization (NGO) sector.

Standard Degree Nomenclature: Bachelor of Science in Optometry
Official Short Form: BS Optometry
Academic Level: National Qualifications Framework (NQF) Level 6 Qualification

PROGRAM LEARNING OUTCOMES (PLOs)

Upon successful completion of the BS Optometry program, graduates will possess the professional competence to:

Comprehensive Clinical Practice: Direct primary eye care services and seamlessly integrate basic vision protocols into foundational healthcare networks, scaling up the equity, quality, and community coverage of refractive services.

Advanced Ophthalmic Mastery: Demonstrate high-level skills in advanced visual function assessment, instrumental optics, binocular vision, and the clinical fitting of contact lenses or low-vision therapeutic solutions.

Public Health and Management: Evaluate community eye health requirements, design preventive or rehabilitative strategies for major causes of blindness, and oversee ophthalmic units within tertiary care centers or international regional systems.

Ethical Scientific Inquiry: Design and execute empirical epidemiological or clinical eye research while maintaining strict adherence to bioethics, professional responsibility, and medical guidelines.

TEACHING & LEARNING METHODOLOGIES

To ensure our students match international evaluation and accreditation benchmarks, course delivery utilizes multi-channel, premium modalities:

Interactive Instruction: Lectures, technical demonstrations, clinical case discussions, specialized workshops, and immersive role-plays.

Pedagogical Materials: Standard text-books, peer-reviewed international journals, technical handouts, and curated audio-visual assets.

Technological Integration: Multimedia systems, slides, and internet-accessible clinical software setups.

ASSESSMENT & EVALUATION FRAMEWORK

Progress is monitored via a rigorous, continuous assessment blueprint:

For Students: Internal evaluation metrics derived from written assignments, individual/group presentations, mid-semester/mid-term examinations, and final semester-end examinations.

For Facilitators: To maintain premium quality management, students execute systematic course and faculty evaluations at the conclusion of each module via a standardized feedback proforma.

ELIGIBILITY & ADMISSION CRITERIA:

Candidates seeking entry into the BS MIT (AHS) program must fulfill the following institutional requirements:

Academic Qualification: Higher Secondary School Certificate (HSSC) / Intermediate in the Pre-Medical Group (12 years of formal schooling) or an equivalent qualification certified by the Inter Board Coordination Commission (IBCC).

Minimum Academic Grade: A minimum cumulative score of 50% in F.Sc Pre-Medical.

Selection Process: Admission is strictly merit-based. The College Admission Committee calculates merit using entry test metrics, academic transcripts, and interview parameters approved by the institutional statutory bodies.

ACADEMIC & PROGRAM STRUCTURE

The program encompasses a comprehensive 157-credit-hour matrix spread out over 10 active semesters, ensuring unprecedented clinical exposure and structural depth.

Program Structure: 10 Active Semesters (spanning 8 semesters of coursework plus 2 final semesters of intense clinical rotations).

Total Program Credit Load: 157 Credit Hours.

Credit Hour Definition (Theory): 1 Credit Hour equals 1 contact hour of classroom lecture per week.

Credit Hour Definition (Lab / Clinical Rotations): 1 Credit Hour equals 3 contact hours of hands-on laboratory or hospital clinical field work per week.

SEMESTER-WISE SCHEME OF STUDIES

SEMESTER I

S.No	Course Title	Credit Hours
1	Medical Biochemistry - I	4 (3-1)
2	Human Physiology - I	4 (3-1)
3	Human Anatomy - I	4 (3-1)
4	English - I	2 (2-0)
5	Pakistan Studies	2 (2-0)
6	Computer Skills	2 (1-1)
	Semester Total Credit Hours	**18**

SEMESTER II

S.No	Course Title	Credit Hours
1	Medical Biochemistry - II	4 (3-1)
2	Human Physiology - II	4 (3-1)
3	Human Anatomy - II	4 (3-1)
4	English - II	2 (2-0)
5	Islamic Studies	2 (2-0)
	Semester Total Credit Hours	**16**

SEMESTER III

S.No	Course Title	Credit Hours
1	General Pathology	3 (2-1)
2	General Pharmacology	3 (2-1)
3	Anatomy of Eye	3 (2-1)
4	Physiology of Eye	3 (2-1)
5	Ocular Microbiology	3 (2-1)
6	Communication Skills	2 (1-1)
	Semester Total Credit Hours	**17**

SEMESTER IV

S.No	Course Title	Credit Hours
1	Diseases of Eye & Ocular Therapeutics I	3 (2-1)
2	Basic Clinical Skills in Ocular Examination	3 (2-1)
3	Public Health	3 (2-1)
4	Skills for Advanced Visual Function Assessment	3 (2-1)
5	First Aid & Ocular Emergencies	3 (2-1)
6	Behavioral Sciences	2 (2-0)
	Semester Total Credit Hours	**17**

SEMESTER V

S.No	Course Title	Credit Hours
1	Diseases of Eye & Ocular Therapeutics II	3 (2-1)
2	Geometrical Optics	3 (2-1)
3	Visual Optics	3 (2-1)
4	Physical Optics & Applied Mathematics	3 (2-1)
5	Leadership & Management	2 (2-0)
6	Clinical Refraction	3 (2-1)
	Semester Total Credit Hours	17

SEMESTER VI

S.No	Course Title	Credit Hours
1	Instrument Optics	3 (2-1)
2	Dispensing Optics	3 (2-1)
3	Contact Lenses - I	3 (2-1)
4	Low Vision I	3 (2-1)
5	Basics of Orthoptics	3 (2-1)
6	Community Optometry	2 (2-0)
	Semester Total Credit Hours	17

SEMESTER VII

S.No	Course Title	Credit Hours
1	Clinical Optics and Neuro Optometry	3 (2-1)
2	Contact Lenses II	3 (2-1)
3	Low Vision II	3 (2-1)
4	Research Methodology	3 (2-1)
5	Biostatistics	3 (2-1)
6	Inclusive Eye Health	3 (2-1)
	Semester Total Credit Hours	**18**

SEMESTER VIII

S.No	Course Title	Credit Hours
1	Clinical Orthoptics and Binocular Vision	3 (2-1)
2	Clinical Optometry	3 (2-1)
3	Bioethics	2 (2-0)
4	Seminar	1 (1-0)
5	Research Project	4 (0-4)
	Semester Total Credit Hours	**13**

SEMESTER IX

S.No	Course Title	Credit Hours
1	Clinical Rotation I: Clinical Refraction	3 (0-3)
2	Clinical Rotation II: Orthoptics	3 (0-3)
3	Clinical Rotation III: Contact Lens	3 (0-3)
4	Clinical Rotation IV: Low Vision	3 (0-3)
	Semester Total Credit Hours	**12**

SEMESTER X

S.No	Course Title	Credit Hours
1	Clinical Rotation V: Pediatric Care	3 (0-3)
2	Clinical Rotation VI: Diagnostics	3 (0-3)
3	Clinical Rotation VII: Ophthalmology Clinic – Vitreo-Retina Clinic	3 (0-3)
4	Clinical Rotation VIII: Ophthalmology Glaucoma Clinic	3 (0-3)
	Semester Total Credit Hours	**12**

DEGREE GRADUATION REQUIREMENTS

To graduate with a Bachelor of Science in Medical Laboratory Technology (Allied Health Sciences) degree, the student must successfully meet the following standards:

a) All courses in the General Education category with titles and credit hours as prescribed in HEC
Undergraduate Education Policy V 1.1. must be completed.
b) Minimum of 138 credit hours (including internship / field experience and capstone project) as prescribed in this policy document must be completed.
c) Capstone / research project of 3 credit hours must be completed in accordance with HEC Undergraduate Education Policy V 1.1. This requirement cannot be substituted with additional coursework or internship.
d) Internship / Field Experience of 3 credit hours must be completed in accordance with HEC Undergraduate Education Policy V 1.1. This requirement cannot be substituted with additional coursework, capstone,
research or project work.
e) CGPA must not be below 2.00/4.00 at the time of completion of the degree program. The university may, however, set higher standard in this regard.
f) The minimum duration to complete the degree is 8 regular semesters (4 Years) and the maximum duration is 12 regular semesters (6 Years). The maximum duration may be extended to 2 more semesters (1 Year) in extraordinary circumstances subject to approval of the university's relevant statutory body. Summer semester is not considered as a regular semester.

General College Rules

Attendance: Minimum **75% attendance** required at the end of each semester to be eligible for exams. Repeated absences cause expulsion. Clear all dues before taking exams.

Discipline: Punctuality enforced across theoretical and clinical sessions. Leaving lectures/wards without permission is banned. Camera mobile phones are banned entirely; devices must be on silent. Identity badge and overall required for entry.

Prohibitions: Political activity strictly banned. Socially unacceptable actions (gambling, narcotics, weapons, noise, foul language, or bringing unauthorized outsiders) result in strict disciplinary committee reviews.

Uniform Code

Girls: Black Kameez and White Shalwar with Black band collar, full sleeves with black cuffs, black headscarf, flat black shoes, black socks, knee-length full-sleeve white overall, black woolen sweater for winter, and a photo ID name badge.

Boys: White formal collared shirt with a front pocket, black formal trousers (no jeans/baggy pants), black leather shoes (no joggers), black socks, knee-length white overall, plain black woolen sweater for winter, and a photo ID name badge.

Other Facilities

Cafeteria, print/photocopy service, emergency call assistance, and payment-based hostel facilities restricted to female students. Library features textbooks on anaesthesia, dental technology, optometry, radiology pathology, sociology, psychology, and communications. Computer lab includes digital eBook services.

AFFILIATIONS

Affiliations

Allied Health Professionals Council (Islamabad) , Higher Education Commission (HEC) , and Khyber Medical University (KMU) as the degree-awarding university.

Administrative & Teaching Faculty Staff

Director: Dr. Maqsood Ali

Principal: Mr. Rizwan Ullah

HOD Dental Technology Department: Mr. Usama Abdur Raqeeb (BS DT)

HOD Anesthesia Department: Mr. Rizwan Ullah (DA,BS ANT, MHA)

HOD MIT Department: Ms. Kainat Saleem (BS MIT)

HOD Optometry Department: Ms. Samiya Wali Mazhar (BS OPT)

HOD MLT Department: Mr. Taimoor khan

Lecturers & Staff: Mr. Rizwan Ullah (BS ANT, MHA,DA), Dr. Maryam Saeed Hashmi (MBBS), Mr. Waqar Ahmad (BS HT), Ms. Haleema (BS & MS Computer Science), Ms. Javeria Akbar (BS,MS English and Applied Linguistics), Ms. Anum Waqas (B.S Education; Distinction Holder, M.A English Literature), Ms. Saima Roedar (M.phill Microbiology .B.ed).

PRIME COLLEGE OF ALLIED HEALTH SCIENCES

FEE STRUCTURE FRAMEWORK

(SESSION 2025-26)

Fee Element Component	BS (4-Year Track)
Admission Fee (One time)	20000
Security Fee (Refundable)	20000
Semester 1	80000
Semester 2	80000
Semester 3	85000
Semester 4	85000
Semester 5	90000
Semester 6	90000
Semester 7	95000
Semester 8	95000
University Semester Charges	As per University
University Registration	As per University
Total Program Tuition Cost	**700000**

Note: Above Fee may change in case of changes in University or Regulatory Body instructions related to fee.

PRIME COLLEGE OF ALLIED HEALTH SCIENCES

PICTURES GALLERY

Educational Projects of

PRIME FOUNDATION

Prime College of Allied Health Sciences, Warsak Road, Garhi Sherdad, Peshawar-Pakistan

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