DEPARTMENT OF ALLIED HEALTH SCIENCES

PROGRAMS OFFERED

- Doctor of Physical Therapy (DPT)
- BS Medical Laboratory Technology (MLT)
- BS Anesthesia Technology
- BS Radiology Technology
- BS Dental Technology

MISSION STATEMENT

To achieving academic excellence and innovation in the fields of rehabilitation and allied health sciences by providing an intellectually stimulating environment conducive to educational, professional and personal development.

Message From The Head Of Department

Welcome to the Department of Allied Health Sciences at CECOS University, an essential pillar of the Faculty of Life Sciences. Our aim is to deliver top-quality education and practical training across various health disciplines. Through cutting-edge facilities, experienced faculty, and a curriculum grounded in evidence-based practice, we promote academic excellence, research, and lifelong learning. Join us in making a difference in healthcare and pursuing your passion for serving humanity.

Prof. Dr. Zia Ullah Shah
Ph.D Microbiology, Quaid-e-Azam University, Islamabad

Prof. Dr. Zia Ullah Shah
HOD AHS
Ph.D Microbiology
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MS(OMPT) RIU Islamabad

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FACULTY MEMBERS OF

ALLIED HEALTH SCIENCES

AHS LABORATORIES

- Biomechanics and skill Lab
- Anatomy and Physiology Lab
- MLT Lab
- Physical Therapy Clinic

CURRICULUM OF DOCTOR OF PHYSICAL THERAPY

Semester-I

Course Code	Course Title	Credit Hours
DPT-110	Human Anatomy-I	3 (2-1)
DPT-114	Human Physiology-I	3 (2-1)
DPT-120	Kinesiology- I	3 (2-1)
ENG-101	Functional English	3 (3-0)
BIO-115	Fundamentals of Biology	3 (2-1)
SS-104	Introduction to Philosophy	2 (2-0)
SS-113	Understanding of Holy Quran- I	1 (0-1)
Total Credit Hours		18

Semester-II

Course Code	Course Title	Credit Hours
DPT-111	Human Anatomy-II	3 (2-1)
DPT-115	Human Physiology-II	3 (2-1)
DPT-121	Kinesiology- II	3 (2-1)
MATH-110	Quantitative Reasoning- I	3 (3-0)
ENG-102	Expository Writing	3 (3-0)
SS-102	Pakistan Studies	2 (2-0)
SS-114	Understanding of Holy Quran- II	1 (0-1)
Total Credit Hours		18

Semester-III

Course Code	Course Title	Credit Hours
DPT-212	Human Anatomy-III	3 (2-1)
DPT-216	Human Physiology-III	3 (2-1)
DPT-214	Principles of Biochemistry	3 (3-0)
DPT-224	Medical Physics	3 (2-1)
MATH-111	Quantitative Reasoning- II	3 (3-0)
CS-110	Application of Information & Communication Technology	3 (2-1)
Total Credit Hours		18

Semester-IV

Course Code	Course Title	Credit Hours
DPT-213	Human Anatomy-IV (Neuroanatomy)	3 (2-1)
DPT-215	Biomechanics & Ergonomics	3 (2-1)
SS – 209	Human Psychology	2(2-0)
SS-203	Ideology & Constitution of Pakistan	2(2-0)
SS-204	Civics & Community Engagement	2(2-0)
MGT-431	Entrepreneurship	2 (2-0)
SS-101	Islamic Studies	2(2-0)
AHS-111	Behavioral Sciences	2 (2-0)
Total Credit Hours		18

Semester-V

Course Code	Course Title	Credit Hours
DPT-217	Human Physiology (Exercise Physiology)	3 (2-1)
DPT-311	Pharmacology-I	2 (2-0)
DPT-321	Physical Agents & Electrotherapy-I	3 (2-1)
DPT-225	Community Medicine & Rehabilitation	3 (2-1)
MB-311	Pathology & Microbiology-I	2 (2-0)
AHS-311	Artificial Intelligence in Healthcare	2 (2-0)
AHS-312	Molecular Biology & Genetics	2 (2-0)
DPT-340	Supervised Clinical Practice-I	3 (0-3)
Total Credit Hours		20

Semester-VI

Course Code	Course Title	Credit Hours
AHS-312	Sustainable Development Goals: Health & Wellbeing	3 (2-1)
DPT-312	Pharmacology-II	2 (2-0)
DPT-322	Physical Agents & Electrotherapy-II	3 (2-1)
MB-321	Pathology & Microbiology II	3 (2-1)
DPT-313	Therapeutic Exercises & Techniques	3 (2-1)
DPT-430	Manual Therapy	3 (2-1)
DPT-341	Supervised Clinical Practice-II	3 (0-3)
Total Credit Hours		20

Semester-VII

Course Code	Course Title	Credit Hours
DPT-410	Medicine-I	3 (3-0)
DPT-412	Surgery-I	3 (3-0)
DPT-330	Musculoskeletal Physical Therapy	3 (2-1)
DPT-414	Radiology & Diagnostic Imaging	3 (2-1)
DPT-451	Scientific Inquiry & Research Methodology	3 (2-1)
DPT-440	Supervised Clinical Practice-III	4 (0-4)
Total Credit Hours		19

Semester-VIII

Course Code	Course Title	Credit Hours
DPT-411	Medicine-II	3 (3-0)
DPT-413	Surgery-II	3 (3-0)
DPT-431	Neurological Physical therapy	3 (2-1)
BIO-324	Biostatistics	3 (2-1)
DPT-535	Sports Physical Therapy	2 (1-1)
DPT-441	Supervised Clinical Practice-IV	4 (0-4)
DPT-521	Professional Practice	2 (2-0)
Total Credit Hours		20

Semester-IX

Course Code	Course Title	Credit Hours
DPT-530	Cardiopulmonary Physical Therapy	3 (2-1)
DPT-520	Prosthetic & Orthotics	2 (2-0)
DPT-522	Emergency Procedure & Primary Care in Physical Therapy	2 (1-1)
DPT-450	Evidence Based Physical Therapy	3 (2-1)
DPT-542	Clinical Decision Making & Differential Diagnosis	3 (3-0)
DPT-540	Supervised Clinical Practice-V	3 (0-3)
AHS-421	Internship	3 (0-3)
Total Credit Hours		20

Semester-X

Course Code	Course Title	Credit Hours
DPT-532	Obstetric & Gynecological Physical Therapy	3 (2-1)
DPT-533	Pediatric Physical Therapy	3 (2-1)
DPT-534	Gerontology & Geriatric Physical Therapy	3 (2-1)
DPT-531	Integumentary Physical Therapy	2 (1-1)
DPT-541	Supervised Clinical Practice-IV	4 (0-4)
RES-425	Research Project	3 (0-3)
Total Credit Hours		21

Total Credit Hours = 189

Fact File

Duration: Five Years
Eligibility: Minimum 60% marks in F.Sc Pre-Medical or equivalent
Passing aptitude test of CECOS.

CURRICULUM OF BS MEDICAL LAB TECHNOLOGY

Semester-I

Course Code	Course Title	Credit Hours
ENG-101	Functional English	3+0
SS-101	Islamic Studies	2+0
SS-104	Introduction to Philosophy	2+0
BIO-101	Fundamentals of Biology	2+1
BIO-111	Fundamentals of Chemistry	3+0
MLT-141	Human Physiology –I	2+1
SS-113	Understanding of Holy Quran- I	0+1
Total Credit Hours		17

Semester-II

Course Code	Course Title	Credit Hours
ENG-102	Expository writing	3+0
SS-203	Ideology & Constitution of Pakistan	2+0
MATH-110	Quantitative Reasoning- I	3+0
MLT-142	Human Anatomy-I	2+1
AHS-111	Behavioral Sciences	2+0
MLT-242	Human Physiology-II	2+1
SS-114	Understanding of Holy Quran- II	0+1
SS-102	Pakistan Studies	2+0
Total Credit Hours		19

Semester-III

Course Code	Course Title	Credit Hours
MLT-231	General Pathology-I	2+1
CS-110	Application of Information and Communication Technology	2+1
MLT-202	Human Genetics	2+0
MLT-244	Hematology-I	2+1
MLT-243	Human anatomy-II	2+1
CH-211	Biochemistry-I	2+1
MATH-111	Quantitative Reasoning- II	3+0
Total Credit Hours		20

Semester-IV

Course Code	Course Title	Credit Hours
MLT-245	Hematology-II	2+1
MLT-241	Phlebotomy	2+1
MLT-232	General Pathology-II	2+1
SS-204	Civic and Community Engagement	2+0
MGT-431	Entrepreneurship	2+0
CH-212	Biochemistry II	2+1
BIO-324	Biostatistics	3
Total Credit Hours		19

Semester-V

Course Code	Course Title	Credit Hours
MLT-303	Molecular biology	2+1
MLT-333	Histopathology	2+1
MLT-322	Clinical Virology & Mycology	2+1
MLT-334	Clinical Pathology	2+1
MLT-342	Pharmacology-I	2+1
MLT-341	Medical Lab Instrumentation	2+1
Total Credit Hours		18

Semester-VI

Course Code	Course Title	Credit Hours
MLT-344	Bioinformatics	2+1
MLT-321	Bacteriology	2+1
MLT-345	Blood Banking	2+1
MLT-346	Cytology & Cytogenetics	2+1
MLT-323	Clinical Parasitology	2+1
MLT-343	Pharmacology-II	2+1
Total Credit Hours		18

Semester-VII

Course Code	Course Title	Credit Hours
MLT-441	Fundamental of Forensic sciences & toxicology	2+1
RES-412	Research Methodology	2+0
MLT-435	Chemical pathology	2+1
MLT-421	Immunology &serology	2+1
MLT-442	Advances in medical Lab technology	2+1
AHS-421	Internship	0+3
Total Credit Hours		17

Semester-VIII

Course Code	Course Title	Credit Hours
MLT-443	Biosafety &Biosecurity	2+1
MLT-444	Medical Lab management Skills	2+1
MLT-445	Epidemiology &Public Health	3+0
AHS-412	Bioethics	2+0
RES-425	Research Project	0+3
MLT-447	Fundamentals of Infection Control	2+1
Total Credit Hours		17

Total Credit Hours = 145

Fact File

Duration: Four Years
Eligibility: Minimum 50% marks in F.Sc Pre-Medical or equivalent
Passing aptitude test of CECOS.

CURRICULUM OF BS ANESTHESIA TECHNOLOGY

Semester-I

Course Code	Course Title	Credit Hours
ANS-111	Human Anatomy-I	3 (2-1)
ANS-121	Human Physiology-I	3 (2-1)
SS-104	Introduction to Philosophy	2 (2-0)
SS-101	Islamic Studies/Ethics	2 (2-0)
ENG-101	Functional English	3 (3-0)
AHS-101	Fundamental of Physics	3 (3-0)
SS-113	Understanding of Holy Quran-I	1 (0-1)
Total Credit Hours		17

Semester-II

Course Code	Course Title	Credit Hours
ANS-112	Human Anatomy-II	3 (2-1)
ANS-122	Human Physiology-II	3 (2-1)
CS-110	Application of Information & Communication Technologies	3 (2-1)
ENG-102	Expository Writing	3 (3-0)
SS-203	Ideology & Constitution of Pakistan	2 (2-0)
SS-102	Pakistan Studies	2 (2-0)
SS-114	Understanding of Holy Quran-II	1 (0-1)
MATH-110	Quantitative Reasoning- I	3 (3-0)
Total Credit Hours		20

Semester-III

Course Code	Course Title	Credit Hours
ANS-213	Microbiology	3 (2-1)
ANS-223	Biochemistry-I	3 (2-1)
ANS-241	Hematology	3 (2-1)
ANS-251	General Pathology-I	3 (2-1)
SS-204	Civics & Community Engagement	2 (2-0)
MATH-111	Quantitative Reasoning- II	3 (3-0)
Total Credit Hours		17

Semester-IV

Course Code	Course Title	Credit Hours
ANS-224	Community Medicine	2 (2-0)
ANS-225	Biochemistry-II	3 (2-1)
ANS-242	General Pathology-II	3 (2-1)
BIO-324	Biostatistics & Research Methodology	3 (2-1)
MGT-431	Entrepreneurship	2 (2-0)
ANS-252	Pharmacology-I	2 (2-0)
ANS-261	Epidemiology	2 (2-0)
AHS-111	Behavioral Sciences	2 (2-0)
Total Credit Hours		19

Semester-V

Course Code	Course Title	Credit Hours
ANS-343	Anatomy Related to Anesthesia	3 (2-1)
ANS-353	Pharmacology-II	3 (2-1)
ANS-362	Blood Banking	3 (2-1)
ANS-371	Physics Related To Anesthesia	3 (2-1)
ANS-363	Physiology Related To Anesthesia	3 (2-1)
ANS-372	Anesthesia Equipment's	3 (2-1)
Total Credit Hours		18

Semester-VI

Course Code	Course Title	Credit Hours
ANS-344	Pharmacology Related To Anesthesia	3 (2-1)
ANS-354	History Taking Pre-Operative Assessment & Medication Post-Op Care	3 (2-1)
ANS-364	Critical Care	3 (2-1)
ANS-373	Leadership And Management	2 (2-0)
ANS-374	Anesthesia And Co-Existing Diseases	3 (2-1)
ANS-345	Different Types of Anesthesia	3 (2-1)
Total Credit Hours		17

Semester-VII

Course Code	Course Title	Credit Hours
ANS-446	Anesthesia Related Complications And Their Management	3 (2-1)
ANS-455	Anesthesia For Cardiothoracic Surgery	3 (2-1)
ANS-465	Anesthesia For Neuro, Emergency And Geriatric Surgery	3 (2-1)
AHS-421	Internship	3 (0-3)
ANS-456	Anesthesia For Eye Surgical Procedures	3 (2-1)
ANS-466	Anesthesia For Ear Nose And Throat Surgeries	3 (2-1)
Total Credit Hours		18

Semester-VIII

Course Code	Course Title	Credit Hours
ANS-447	Anesthesia For Obstetric And Pedantic Surgery	3 (2-1)
ANS-457	Electrocardiograph For Anesthetist	3 (2-1)
ANS-467	Anesthesia For Dental, Maxillofacial, Head and Neck Surgeries	3 (2-1)
ANS-475	Anesthesia For General Surgery, Orthopedic & Urological Procedures	3 (2-1)
AHS-412	Bioethics	2 (2-0)
RES-425	Research Project	3 (0-3)
Total Credit Hours		17

Total Credit Hours = 143

Fact File

Duration: Four Years
Eligibility: Minimum 50% marks in F.Sc Pre-Medical or equivalent
Passing aptitude test of CECOS.

CURRICULUM OF BS RADIOLOGY TECHNOLOGY

Semester-I

Course Code	Course Title	Credit Hours
RAD-111	Human Anatomy-I	2+1
RAD-121	Human Physiology-I	2+1
SS-104	Introduction to Philosophy	2+0
SS-101	Islamic Studies/Ethics	2+0
ENG-101	Functional English	3+0
AHS-101	Fundamental of Physics	3+0
Total Credit Hours		16

Semester-II

Course Code	Course Title	Credit Hours
RAD-112	Human Anatomy-II	2+1
RAD-122	Human Physiology-II	2+1
CS-110	Application of Information & Communication Technologies	2+1
ENG-102	Expository Writing	3+0
SS-203	Ideology & Constitution of Pakistan	2+0
DPT-314	Behavioral Sciences	3+0
SS-207	Understanding Quran	
Total Credit Hours		17

Semester-III

Course Code	Course Title	Credit Hours
RAD-213	Regional & Radiological Anatomy-I	2+1
RAD-223	Biochemistry-I	2+1
RAD-241	General Radiology	2+1
RAD-251	General Pathology	2+1
MATH-109	Mathematics	3+0
SS-204	Civics & Community Engagement	2+0
Total Credit Hours		17

Semester-IV

Course Code	Course Title	Credit Hours
RAD-214	Regional & Radiological Anatomy-II	2+1
RAD-224	Biochemistry-II	2+1
RAD-242	Radiation Sciences & Technology	2+1
BIO-324	Biostatistics & Research Methodology	2+1
MGT-431	Entrepreneurship	2+0
RAD-252	Pharmacology	2+0
Total Credit Hours		17

Semester-V

Course Code	Course Title	Credit Hours
RAD-343	Clinical Medicine-I	1+1
RAD-353	Conventional Radiological Procedures & Clinical Practice	2+1
RAD-361	Radiological Positioning & Clinical Practice	2+1
RAD-371	Computed & Digital Radiography (CR & DR)	1+1
RAD-344	Radiobiology & Radiation Protection	1+1
RAD-354	Computed Tomography (CT)	2+1
RAD-362	General Surgery	1+1
Total Credit Hours		18

Semester-VI

Course Code	Course Title	Credit Hours
RAD-345	Mammography & Special Radiological Techniques	2+1
RAD-355	Magnetic Resonance Imaging (MRI)	2+1
RAD-363	Interventional Radiology	1+1
RAD-372	Clinical Medicine-II	1+1
RAD-373	Radiological & Cross Sectional Anatomy	2+1
RAD-364	Computed Tomography (CT) Procedures & Clinical Practice	2+1
Total Credit Hours		17

Semester-VII

Course Code	Course Title	Credit Hours
RAD-446	Magnetic Resonance Imaging (MRI) Procedures & Clinical Practice	2+1
RAD-456	Therapeutic Radiology	2+1
RAD-474	Clinical Sonography	2+1
RAD-447	Angiography & Cardiac Imaging	2+1
RAD-475	Nuclear Medicine	2+1
Total Credit Hours		15

Semester-VIII

Course Code	Course Title	Credit Hours
RAD-476	Echocardiography	1+1
RAD-466	Electrocardiography (ECG)	1+1
RAD-457	Clinical Pathology & Radiology Presentation	1+1
RAD-448	Patient Care & Management	2+0
RAD-477	Bioethics	2+0
RAD-467	Research Project	0+6
Total Credit Hours		16

Total Credit Hours = 130

Fact File

Duration: Four Years
Eligibility: Minimum 50% marks in F.Sc Pre-Medical or equivalent
Passing aptitude test of CECOS.

CURRICULUM OF BS DENTAL TECHNOLOGY

Semester-I

Course Code	Course Title	Credit Hours
DT-111	Human Anatomy-I	2+1
DT-121	Human Physiology-I	2+1
SS-104	Introduction to Philosophy	2+0
SS-101	Islamic Studies/Ethics	2+0
ENG-101	Functional English	3+0
BIO-101	Fundamental of Biology	3+1
Total Credit Hours		17

Semester-II

Course Code	Course Title	Credit Hours
DT-112	Human Anatomy-II	2+1
DT-122	Human Physiology-II	2+1
CS-110	Application of Information & Communication Technologies	2+1
ENG-102	Expository Writing	3+0
SS-203	Ideology & Constitution of Pakistan	2+0
DPT-314	Behavioral Sciences	3+0
SS-207	Understanding Quran	
Total Credit Hours		17

Semester-III

Course Code	Course Title	Credit Hours
DT-231	Oral Biology	2+1
DT-241	Biochemistry-I	2+1
DT-251	Dental Materials-I	2+1
DT-261	General Pathology	2+1
MATH-109	Mathematics	3+0
SS-204	Civics & Community Engagement	2+0
Total Credit Hours		17

Semester-IV

Course Code	Course Title	Credit Hours
DT-232	Dental Materials-II	2+1
DT-242	Biochemistry-II	2+1
DT-252	Microbiology	2+1
BIO-324	Biostatistics & Research Methodology	2+1
MGT-431	Entrepreneurship	2+0
DT-262	Pharmacology-I	2+0
Total Credit Hours		17

Semester-V

Course Code	Course Title	Credit Hours
DT-333	Tooth Morphology	2+1
DT-343	Pharmacology-II	2+1
DT-353	Oral Pathology and Oral Medicine-I	2+1
DT-363	Periodontology	2+1
DT-371	Partial Denture Prosthesis	2+1
DT-334	Minor Oral Surgery-I	2+1
Total Credit Hours		18

Semester-VI

Course Code	Course Title	Credit Hours
DT-344	Oral Pathology and Oral Medicine-II	2+1
DT-354	Community and Preventive Dentistry	2+1
DT-364	Fundamentals of Dental Radiology	2+1
DT-372	Operative Dentistry	2+1
DT-373	Orthodontics-I	2+1
DT-355	Minor Oral Surgery-II	2+1
Total Credit Hours		18

Semester-VII

Course Code	Course Title	Credit Hours
DT-455	Orthodontics-II	2+1
DT-465	Pediatric Dentistry	2+1
DT-474	Evidence-Based Dentistry	2+1
DT-436	Endodontics	2+1
DT-445	Complete Denture Prosthesis	2+1
DT-475	Fixed Prosthesis	2+1
Total Credit Hours		18

Semester-VIII

Course Code	Course Title	Credit Hours
DT-456	Fundamentals of Implantology	2+1
DT-466	Medical Emergencies in Dental Practice	2+1
DT-446	Maxillofacial Prosthesis	2+1
DT-476	Bioethics	2+0
DT-438	Research Project	0+6
Total Credit Hours		17

Total Credit Hours = 139

Fact File

Duration: Four Years
Eligibility: Minimum 50% marks in F.Sc Pre-Medical or equivalent
Passing aptitude test of CECOS.