



RIPHAH
INTERNATIONAL UNIVERSITY



Prospectus

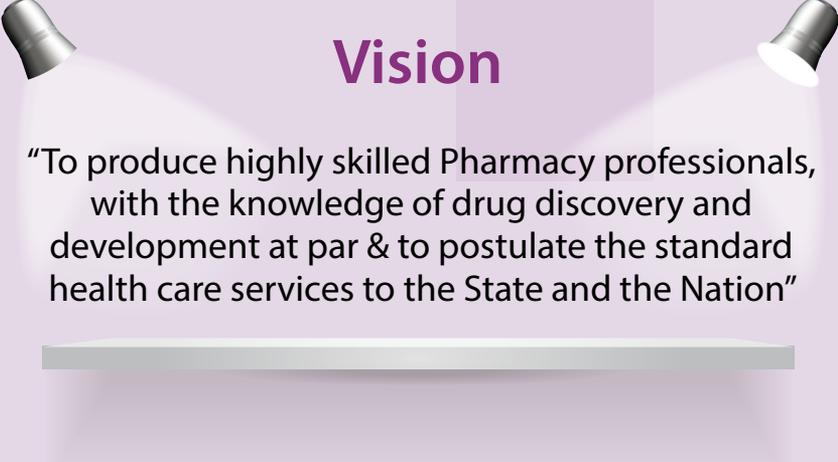
**RIPHAH INSTITUTE OF
PHARMACEUTICAL SCIENCES**

Riphah Institute of Pharmaceutical Sciences

Riphah Institute of Pharmaceutical Sciences (RIPS) is one of the premiere institutes established in 2004. RIPS was accredited by the Pharmacy Council of Pakistan in 2009. Twenty one (21) batches of Pharm. D have been graduated with the high percentage of placements nationally and globally, in the various fields of pharmacy. RIPS is included in the WHO list of accredited institutes. RIPS is the pioneer institute to offer 5 years" Doctor of Pharmacy" program in the private sector.

Our main focus is to equip our graduates with required skills and knowledge of Pharmaceutical sciences to provide quality health care services to the community, hospitals, industry and the state. RIPS is the only institute in Pakistan with 3 attached teaching hospitals. High emphasis is laid upon the faculty development and inculcation of Islamic ethical values. The quality of teaching and learning is ensured through latest teaching methodologies and tools including Campus Management System (CMS), Virtual Learning Environment (VLE) and library resources. The well-equipped labs and animal house foster the practical learning experience of the students. Regular visits to the industry and guest lectures by industry leaders are an essential part of the training.

RIPS offers Undergraduate and Post Graduate programs including Pharm-D, M. Phil and Ph.D. in all disciplines of pharmaceutical sciences. In addition to this, RIPS also conducts training programs for the professionals from government and private sector organizations on regular basis. RIPS is also highly productive research institute.



Vision

"To produce highly skilled Pharmacy professionals, with the knowledge of drug discovery and development at par & to postulate the standard health care services to the State and the Nation"



Prof. Dr. Arif-ullah Khan

Post-Doc, PhD, M.Phil, B.Pharm, B.Sc,
Dean, Faculty of Pharmaceutical
Sciences (FPS)

Prof. Dr. Arif-ullah Khan did M.Phil & PhD in the subject of Pharmacology. He has wide experience of teaching and research in field of Pharmaceutical Sciences. He has published 150 research articles with cumulative impact factor of around 375 and 4000 citations.

He is HEC approved PhD supervisor and is currently supervising M.Phil/ PhD students in the area Pharmacological research. Dr. Khan has achieved several National and International prestigious awards for his valuable scientific contributions. He is recognized by Pakistan Council of Science and Technology a productive scientist, as since few years regularly achieved, the research productivity award. Recently, he is awarded the Salimuzzaman Siddiqui Prize in Applied Science Technology by the Third World Academy of Sciences, Italy in collaboration with Pakistan Academy of Science.

He is the reviewer of several International Journals and member of different scientific societies / bodies.

Undergraduate Programs

Pharm. D (Doctor of Pharmacy)

This is an undergraduate 5 years degree program for those who are interested to pursue a career in the field of health and Pharmaceutical Sciences. The students with medical background can opt for this degree fulfilling the admission criteria. During their stay at RIPS the students study various subjects and go through the practical training to qualify for the degree of Doctor of Pharmacy. This degree is recognized by the Pharmacy Council of Pakistan and is widely accepted nationally and internationally.

The graduates can fulfill the increasing demand of retail pharmacists and they can join the government and private sector hospitals. The graduates can also continue their studies further as RIPS provides an opportunity to study up to the PhD level. They can become part of the on-going research worldwide in the field of Pharmacy.

Doctor of Pharmacy (Pharm-D) Courses

1st Semester

Name of Subject	Cr. Hours
English-A (Functional English)	2
Pharmaceutics-IA (Physical Pharmacy)	3+1
Pharmaceutical Chemistry-IA (Organic)	3+1
Pharmaceutical Chemistry-IIA (Biochemistry)	3+1
Physiology-A	3+1
Anatomy & Histology	3+1
Life & Living-I	1
Total Credit Hours	23

3rd Semester

Name of Subject	Cr. Hours
Pharmaceutics-II A (Dosage Forms Science)	3+1
Pharmaceutics-III A (Pharmaceutical Microbiology & Immunology)	3+1
Pharmacology and Therapeutics-IA	3+1
Pharmacognosy-I A (Basic)	3+1
Pharmacy Practice-I A (Pharmaceutical Mathematics)	3
Life & Living-III	1
Total Credit Hours	20

Eligibility Criteria:

- Minimum 60% marks in intermediate (FSc/A-Levels) with pre-medical subjects.
- Degree holders from foreign institutes should submit the equivalence certificate from Inter Board Committee of Chairman (IBCC).

Duration: 5 years

Available Seats: 160 seats

Selection Criteria:

Academic Qualification	70%
Test / Interview	30%

Class Timings: 8:00 am to 4:00 pm

College Location:

- Islamabad City Campus G-7
- Lahore Main Campus (Township)

2nd Semester

Name of Subject	Cr. Hours
English-B (Communication & Writing skills)	4
Pharmaceutics-IB(Physical Pharmacy)	3+1
Pharmaceutical Chemistry-IB (Organic)	3+1
Pharmaceutical Chemistry-IIB (Biochemistry)	3+1
Physiology-B	3+1
Life & Living-II	1
Total Credit Hours	21

4th Semester

Name of Subject	Cr. Hours
Pharmaceutics-IIB (Dosage Forms Science)	3+1
Pharmaceutics-IIIB (Pharmaceutical Microbiology & Immunology)	3+1
Pharmacology and Therapeutics-IB	3+1
Pharmacognosy-IB (Basic)	3+1
Pharmacy Practice-IB (Bio-statistics)	3
Life & Living-IV (Pak Studies)	2
Total Credit Hours	21

5th Semester

Name of Subject	Cr. Hours
Pharmacy Practice-IIA (Dispensing Pharmacy)	3+1
Pharmaceutical Chemistry-IIIA (Pharmaceutical Analysis)	3+1
Pharmacology and Therapeutics-IIA	3+1
Pharmacognosy-IIA (Advanced)	3+1
Pathology	3+1
Life & Living-V	3+1
Total Credit Hours	21

6th Semester

Name of Subject	Cr. Hours
Pharmacy Practice-IIB (Community, Social & Administrative Pharmacy)	3
Pharmaceutical Chemistry-IIIB (Pharmaceutical Analysis)	3+1
Pharmacology and Therapeutics-IIB	3+1
Pharmacognosy-IIB (Advanced)	3+1
Pharmacy Practice-III (Computer and its Applications in Pharmacy)	3+1
Life & Living-VI	1
Total Credit Hours	20

7th Semester

Name of Subject	Cr. Hours
Pharmacy Practice-IVA (Hospital Pharmacy)	3
Pharmacy Practice-VA (Clinical Pharmacy-I)	3+1
Pharmaceutics-IVA (Industrial Pharmacy)	3+1
Pharmaceutics-VA (Biopharmaceutics & Pharmacokinetics)	3+1
Pharmaceutics-VIA (Pharmaceutical Quality Management)	3+1
Life & Living-VII	1
Total Credit Hours	19

8th Semester

Name of Subject	Cr. Hours
Pharmacy Practice-IVB (Hospital Pharmacy)	3
Pharmacy Practice-VB (Clinical Pharmacy-I)	3+1
Pharmaceutics-IVB (Industrial Pharmacy)	3+1
Pharmaceutics-VB (Biopharmaceutics & Pharmacokinetics)	3+1
Pharmaceutics-VIB (Pharmaceutical Quality Management)	3
Life & Living-VIII	1
Total Credit Hours	20

9th Semester

Name of Subject	Cr. Hours
Pharmaceutics-VIIA (Pharmaceutical Technology)	3+1
Pharmacy Practice-VIA (Advanced Clinical Pharmacy-II)	3+1
Pharmacy Practice-VIIA (Forensic Pharmacy)	3
Pharmacy Practice-VIIIA (Pharmaceutical Management & Marketing)	3
Pharmaceutical Chemistry-IVA (Medicinal Chemistry)	3+1
Life & Living-IX	1
Total Credit Hours	19

10th Semester

Name of Subject	Cr. Hours
Pharmaceutics-VIIB (Pharmaceutical Technology)	3+1
Pharmacy Practice-VIB (Advanced Clinical Pharmacy-II)	3+1
Pharmacy Practice-VIIB (Forensic Pharmacy)	3
Pharmacy Practice-VIIIB (Pharmaceutical Management & Marketing)	3
Pharmaceutical Chemistry-IVB (Medicinal Chemistry)	3+1
Life & Living-X	1
Total Credit Hours	19



M. Phil Programs

M. Phil Programs are offered in the following four Subjects:

- Pharmaceutics
- Pharmaceutical Chemistry
- Pharmacology
- Pharmacognosy

High quality pharmacy education delivered in a safe, professional and easy environment at the Department of Pharmacy. Riphah International University is producing high quality, problem solving pharmacy professionals well equipped with the knowledge, skills and abilities to deliver appropriate, effective and efficient pharmacy services for improving patient care and quality of life by offering workable solutions to problems / major issues in the Health Care System, the Pharmaceutical Industry and its Quality Systems, Academia and Research in the Pharmaceutical Sector.

Eligibility Criteria:

- 16 years of education with minimum 50% marks or 2.0/4.0 CGPA in Pharm-D/B.Pharmacy.
- The candidate have passed the University/ Departmental admission test in the subject or equivalent test conducted by an authorized / recognized body of the Higher Education Commission (HEC) of Pakistan for admission in the program.

M. Phil Pharmacology

1st Semester

Name of Subject	Cr. Hours
Principles of Pharmacology	3
Systems Pharmacology-I	3
Molecular Pharmacology	3
Biostatistics	3
Total Credit Hours	12

2nd Semester

Name of Subject	Cr. Hours
Chemotherapeutics	3
System Pharmacology-II	3
Clinical Pharmacology & Toxicology	3
Research Methodology and Professional Ethics	3
Total Credit Hours	12

Duration:

2 to 4 years

Class Timings:

5:00 pm to 8:00 pm (4 days a week)

M. Phil Pharmaceutical Chemistry

1st Semester

Name of Subject	Cr. Hrs
Drug Designing and Stability	3
Instrumental Techniques for Drug Analysis	3
Biostatistics	3
Antimicrobial Therapy and Resistance	3
Total Credit Hours	12

2nd Semester

Name of Subject	Cr. Hrs
Natural Product Chemistry	3
Drug Designing and Development	3
Research Methodology and Professional Ethics	3
Chemical Biology of Peptides	3
Total Credit Hours	12

3rd & 4th Semester

Name of Subject	Cr. Hrs
Thesis	6
Total Credit Hours	6

3rd & 4th Semester

Name of Subject	Cr. Hours
Thesis	6
Total Credit Hours	6



M. Phil Pharmaceutics Courses

1st Semester

Name of Subject	Cr. Hours
Advanced Pharmaceutics	3
Biopharmaceutics & Pharmacokinetics	3
Pharmaceutical Microbiology	3
Biostatistics	3
Total Credit Hours	12

2nd Semester

Name of Subject	Cr. Hours
Pharmaceutical Analysis	3
Formulation and Product Development	3
Clinical Pharmacy	3
Research Methodology and Professional Ethics	3
Total Credit Hours	12

3rd & 4th Semester

Name of Subject	Cr. Hours
Thesis	6
Total Credit Hours	6

M. Phil Pharmacognosy Courses

1st Semester

Name of Subject	Cr. Hours
Advances in Pharmacognosy	3
Applied Spectroscopic and Chromatographic Techniques for Natural Products	3
Biostatistics	3
Antimicrobial Drug Discovery	3
Total Credit Hours	12

2nd Semester

Name of Subject	Cr. Hours
Advanced Phytochemistry	3
Natural Product Based Drug Designing	3
Research Methodology and Professional Ethics	3
Applications of Plant Peptides	3
Total Credit Hours	12

3rd & 4th Semester

Name of Subject	Cr. Hours
Thesis	6
Total Credit Hours	6

M. Phil Pharmacy Practice

1st Semester

Name of Subject	Cr. Hours
Advanced Therapeutics	03
Clinical Pharmacy Practice	03
Applied Pharmacokinetics	03
Biostatistics	03
Total Credit Hours	12

2nd Semester

Name of Subject	Cr. Hours
Pharmacovigilance & Patient safety	03
Public health Pharmacy	03
Pharmacoeconomics	03
Research Methodology and Professional Ethics	03
Total Credit Hours	12

3rd & 4th Semester

Name of Subject	Cr. Hours
Thesis	06



PhD Specialization Programs

The Doctor of Philosophy degree is considered the most accomplished academic achievement an individual can attain in preparation for a career. Our department offering a Ph.D. degree has the responsibility to assure that the degree will be granted only to candidates who have demonstrated present capacity and future promise to be an independent and creative thinker.

Eligibility Criteria:

- 18 years of education with minimum 60% marks or 3.0/4.0 CGPA in the relevant field from a recognized institution.
- The candidate has passed the University/ Departmental admission test with 70% marks in the subject or equivalent test (60%) conducted by an authorized/recognized body of the Higher Education Commission (HEC) of Pakistan for admission in the program.

Duration: 3 to 8 years

Class Timings: 5:00 pm to 8:00 pm (3 days a week)

PhD Pharmacology

List of Courses

PhD Pharmacology Courses	Cr. Hrs
Molecular Mechanisms of Drug Action	3
Animal Handling and Experimental Pharmacology	3
Cancer Pharmacology	3
Antimicrobial Agents	3
Neuropharmacology	3
Drug Dependence	3
Computational Pharmacology	2
Ethics in Pharmacological Research	1
Thesis	30

*Note: Each student must take total 18 credit hours of course work.



PhD Pharmaceutical Chemistry

List of Courses

PhD Pharmaceutical Chemistry Courses	Cr. Hrs
Current Medicinal Chemistry	3
Synthesis of Drug Molecules	3
Advanced Spectroscopic Techniques	3
Applications of Polymers in Pharmaceutical Sciences	3
Development of Antibacterial Agents: Challenges and Possibilities	3
Medicinal Natural Products	3
Computational Approaches in Medicinal Chemistry	2
Professional Ethics in Pharmaceutical Chemistry Research	1
Thesis	30

*Note: Each student must take total 18 credit hours of course work.

PhD Pharmaceutics

List of Courses

PhD Pharmaceutics Courses	Cr. Hrs
Advanced Nanomedicine	3
Advanced Disperse Systems	3
Modified Release Drug Delivery Systems	3
Applications of Biopharmaceuticals	3
Advances in Pharmaceutical Product Development	3
Advances in Drug Discovery and Development	3
Applications of Computational Pharmaceutics in Drug Delivery	2
Professional Ethics in Pharmaceutics Research	1
Thesis	30

*Note: Each student must take total 18 credit hours of course work.

PhD Pharmacognosy

List of Courses

PhD Pharmacognosy Courses	Cr. Hrs
Advances in Phytomedicines	3
Industrial Pharmacognosy	3
Molecular Approaches in Pharmacognosy	3
Nutraceuticals	3
Retrosynthetic Analysis of Natural Products	3
Advanced Structure Elucidation Techniques for Natural Products	3
Applications of Computational Approaches in Drug Discovery	2
Professional Ethics in Pharmacognosy Research	1
Thesis	30

*Note: Each student must take total 18 credit hours of course work.

Dress Code

Summer Uniform:

Male

- White shirt with full sleeves and collar with front pocket
- Light grey dress pant
- Navy blue neck tie
- Black shoes (Oxford)
- Black socks

Female

- Pink kameez with full sleeves and no slits and band collar (4th to 5th professional years)
- Swan white kameez with full sleeves and no slits and band collar (1st to 3rd professional years)
- Black shoes with small heels
- Black socks
- Pink scarf of specified size to fully cover the head, neck and body
- Swan white shalwar
- * In addition to this, girls can wear Abaya that may be white / black.

Winter Uniform:

Male

- White shirt with full sleeves and collar with front pocket
- Light grey dress pant
- Navy blue neck tie

- Black shoes (Oxford) & Black socks
- Navy Blue Sweater "V" shaped neck
- Dark grey worsted pants

Female

- Pink Kameez with full sleeves and no slits and band collar (4th to 5th professional years)
- Swan white kameez with full sleeves and no slits and band collar (1st to 3rd professional years)
- Swan white shalwar
- Black shoes with small heels
- Black socks
- Pink scarf of specified size to fully cover the head, neck and body
- Pink Woolen pullover with "V" shaped neck
- * In addition to this, girls can wear Abaya that may be white / black.

Note:

- The head scarf is mandatory for female students and it should cover their head, hair, neck and figure properly
- Female students should wear full sleeve shirts without slits in sleeves
- Any colour, other than the colour prescribed for kameez, shalwar, scarf, shirts, trousers, tie, footwear socks etc is not allowed.
- Baggy pants, Jeans, jackets and joggers are not allowed.



Scope & Job Prospects

The graduates can join the ever growing pharmaceutical industry in the following departments

- Production
- Quality Assurance
- Quality Check
- Training
- Research and Development
- Product Planning and Management
- Sales

Salient Features:

A premiere institute recognized by Pharmacy Council of Pakistan, offering a complete career path from undergraduate to PhD programs.

- Islamic environment, congenial for learning and grooming.
- Teaching hospitals that offer opportunities of clinical training.
- Feasible campus location, easily approachable from within and outside the city.
- Well equipped labs and industry linkages for practical learning.
- Hostels, transport facilities available.
- Scholarships in various schemes of studies available.
- Co-curricular and extra-curricular activities.
- Facilities to conduct bio-equivalence studies in order to improve quality of drugs.
- Facilities to perform research on herbal/

traditional medicine for development of novel therapeutic agents and quality control of herbal drugs.

- mentoring sessions for students and career counselling seminars for students

Technical Facilities

- Undergraduate Laboratories
- Multi disciplinary labs equipped with Fourier Transform Infrared Spectroscopy (FTIR)
- Atomic Absorption Spectroscopy
- High Pressure Liquid Chromatography (HPLC)
- UV Spectrophotometer
- Gel Electrophoresis
- Gel Doc System
- Polymerase Chain Reaction Thermal Cycler (PCR)
- CO2 Incubator
- Cryo Perseverance
- Power Lab System
- Lyophilizer (Freeze Dryer)
- Microplate Titre Reader
- Hot Plate Analgesiometer
- Plethysmometer
- Western Blot
- Aggregometer
- Chemistry Analyzers



Glimpses of International Conference on "Recent Innovation in Pharmaceutical Sciences"





Faculty Members

Prof. Dr. Arif-ullah Khan
Dean/Professor
Post Doc, Ph.D, Mphil, Pharm D.

Prof. Dr. G.A Miana
Professor
PhD, M Phil, MSc

Prof. Dr. Humaira Nadeem
HOD/Professor
PhD, M Phil, MSc

Prof. Dr. Shahiq uz Zaman
HOD/Professor
PhD, M Phil, Pharm D

Dr. Humaira Naureen
HOD/Associate Professor
PhD, M Phil, Pharm D

Dr. Alam Zeb
Associate Professor
PhD, M Phil, Pharm D

Dr. Sadia Sarwar
Associate Professor
Post-Doc., Ph.D, M.Phil

Dr. Fawad Ali Shah
Associate Professor
PhD, M Phil, Pharm D

Dr. Masood ur Rehman
Assistant Professor
PhD, M Phil, B. Pharm

Mr. Muhammad Mohsin Ansari
Assistant Professor
Phd.Scholar, M.Phil, B.Pharm

Ms. Farah Azhar
Assistant Professor
Phd. Scholar, M.Phil, B.Pharm

Dr. Hafiz Sohaib Zafar
Assistant Professor
PhD, M Phil, Pharm D

Dr. Shahana Khattak
Assistant Professor
MBA (Marketing), M Phil, B.Pharm

Dr. Hina Ahsan
Assistant Professor
Phd. Scholar, M.Phil, Pharm-D

Dr. Umair Ilyas
Assistant Professor
Phd. Scholar, M.Phil, Pharm-D

Dr. Muhammad Abbas
Assistant Professor
PhD, M Phil, Pharm D

Dr. Babar Murtaza
Assistant Professor
PhD, M Phil, Pharm D

Dr. Rabeea Khan
Lecturer
M.Phil, Pharm D

Dr. Amber Mehmood
Lecturer
M.Phil, Pharm D

Dr. Hafiza Madiha Kanwal
Lecturer
Phd. Scholar, M.Phil, Pharm-DD

Dr. Amna Niaz
Lecturer
PGD (Teaching Methodolgy),
M.Phil, Pharm D

Dr. Muhammad Faheem
Lecturer
Phd. Scholar, M.Phil, Pharm-D

Dr. Syeda Sidra Batool
Lecturer
M.Phil, Pharm D

Dr. Maryam Mahmood
Lecturer
M.Phil, Pharm D

Dr. Isra Rana
Lecturer
Phd. Scholar, M.Phil, Pharm D

Dr. Namrah Khan
Lecturer
Phd. Scholar, M.Phil, Pharm-D

Dr. Tayyaba Anwar
Lecturer
Phd. Scholar, M.Phil, Pharm D

Dr. Faryal Naeem
Lecturer
M.Phil, Pharm D

Dr. Imran Malik
Lecturer
M.Phil, Pharm D

Dr. Zunaira Hussain
Hospital Pharmacist
Pharm D

Dr. Saleha Sajid
Research Fellow
M.Phil, Pharm D

Dr. Syeda Farkhanda
Sundas Lecturer
Pharm D

Dr. Maleeha Gul
Lecturer
M.Phil, Pharm D

Dr. Maria Hameed

Lecturer
M.Phil (Scholar), Pharm D

Dr. Alina Muskaan

Lecturer
M.Phil (Scholar), Pharm D

Dr. Aymen Jamil

Lecturer
M.Phil (Scholar), Pharm D

Dr. Sikandar Hayat Khan

Associate Professor
FCPS, MBBS Surgery

Dr. Uzma Mussarat

Assistant Professor & HOD
Pathology Dept
MBBS, MS, M.Phil

Dr. Fatima Ehsan

Professor
CSLM, CHPE, M.Phil, MBBS

Dr. Namrah Ayyaz

Demonstrator
BDS

Mr. Ubaid Ullah Sindhi

Lecturer
PhD Scholar, MS Islamic Studies

Mr. Zahid Yaseen

Sr. Lecturer
MS Islamic Studies

Mrs. Farzana Khan

Lecturer
Phd. Scholar, M Phil English

Ms. Sadia Nadir

Sr. Lecturer
PhD. Scholar, M Phil, Statistics

Mr. Nauman Khalid

Lecturer
MS Computer Science

ISLAMABAD / RAWALPINDI

Al-Mizan Campus:

Al-Mizan IIMCT Complex,
274-Peshawar Road, Rawalpindi.

UAN: +92 (51) 111-510-510

Phone: +92 (51) 512 5162-7

I-14 Campus:

Sector I-14, Haji Camp, Islamabad.

Phone: +92 (51) 844 6000-7

UAN: +92 (51) -111-747-424

G-7 Campus:

RIU, 7th Avenue, G-7/4, Islamabad.

Phone: +92 (51) 289 1835-8

Fax: +92 (51) 289 0690

Gulberg Green Campus:

Plot No PB-02 Gulberg Expressway,
Gulberg Green (IBECHS), Islamabad

Phone: +92 (51) 5912890-5

ETB Campus:

Suite No 7, Ground Floor, Evacuee
Trust Complex, Agha Khan Road,
Sector F-5/1, Islamabad.

Phone: +92 (51) 843 8370-7

Westridge Campus:

Potohar Plaza, main Peshawar Road,
Rawalpindi.

Phone: +92 (51) 5166 813-4, 5166 917-8

IIMCT Pakistan Railway Hospital:

Westridge, Rawalpindi.

Phone: +92 (51) 425 9795-8

Fax: +92 (51) 425 9793

Riphah International Hospital:

Main Expressway opposite DHA II,
Sihala, Islamabad.

Phone: +92 (51) 448 6064

Islamic International Dental Hospital:

IIDH, 7th Avenue, G-7/4, Islamabad.

Phone: +92 (51) 289 1835-8

Fax: +92 (51) 289 0690

MaxHealth Hospital:

2-K Markaz Road, G-8 Markaz,
Islamabad

Phone: +92 (51) 8094760-65

LAHORE

Raiwind Campus:

Raiwind Road Campus,
13-Km, Raiwind Road, Lahore.

Phone: +92 (42) 111- 747-424

Quaid-e-Azam Campus

28-M, Quaid-e-Azam, Industrial
Estate, Kot Lakhpat, Lahore.

UAN: +92 (42) -111-747-424

Gulberg Campus:

26-M, Gulberg - III,
Ferozepur Road, Lahore

UAN: +92 (42) -111-747-424

FAISALABAD

Faisalabad Campus:

Satiana Road, Adjacent Fish Farm,
Faisalabad.

Phone: +92 (41) 8777- 210 & 310

MALAKAND

Malakand Campus:

Chakdara Road, Malakand.

Phone: 0314-3019495



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