



رفاه انٹرنیشنل یونیورسٹی



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. Fourteen (14) 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

B.Sc, B.Pharm, M.Phil, PhD, Post-Doc
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 95 research articles with cumulative impact factor of around 150 and 1200 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.

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:

100 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)

Doctor of Pharmacy (Pharm-D) Courses

| 1 st Semester | |
|---|-----------|
| 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 Cr. Hr. | 23 |

| 3 rd Semester | |
|---|-----------|
| Pharmaceutics-IIA (Dosage Forms Science) | 3+1 |
| Pharmaceutics-IIIA (Pharmaceutical Microbiology & Immunology) | 3+1 |
| Pharmacology and Therapeutics-IA | 3+1 |
| Pharmacognosy-IA (Basic) | 3+1 |
| Pharmacy Practice-IA (Pharmaceutical Mathematics) | 3 |
| Life & Living-III | 1 |
| Total Cr. Hr. | 20 |

| 2 nd Semester | |
|---|-----------|
| 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 Cr. Hr. | 21 |

| 4 th Semester | |
|---|-----------|
| 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 Cr. Hr. | 21 |

| 5 th Semester | |
|--|-----------|
| Pharmacy Practice-IIA (Dispensing Pharmacy) | 3+1 |
| Pharmaceutical Chemistry-III A (Pharmaceutical Analysis) | 3+1 |
| Pharmacology and Therapeutics-IIA | 3+1 |
| Pharmacognosy-IIA (Advanced) | 3+1 |
| Pathology | 3+1 |
| Life & Living-V | 1 |
| Total Cr. Hr. | 21 |

| 6 th Semester | |
|---|-----------|
| Pharmacy Practice-IIB (Community, Social & Administrative Pharmacy) | 3 |
| Pharmaceutical Chemistry-III B (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 Cr. Hr. | 20 |

| 7 th Semester | |
|--|-----------|
| 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 Cr. Hr. | 20 |

| 8 th Semester | |
|--|-----------|
| 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+1 |
| Life & Living-VIII | 1 |
| Total Cr. Hr. | 20 |

| 9 th Semester | |
|---|-----------|
| 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 Cr. Hr. | 19 |

| 10 th Semester | |
|---|-----------|
| 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 Cr. Hr. | 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.

Duration:

2 to 4 years

Class Timings:

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



M. Phil Courses

M. Pharmaceutical Chemistry Courses

| Course Title | Credit Hours |
|---|--------------|
| SEMESTER – 1 | |
| Medicinal Chemistry-I (Natural Medicinal Drugs) | 3 |
| Drug Designing and Stability | 3 |
| Spectroscopic Methods of Structure Elucidation | 3 |
| Biostatistics | 3 |
| SEMESTER-2 | |
| Medicinal Chemistry-II (Synthetic Drugs) | 3 |
| Instrumental / Chromatographic Techniques | 3 |
| Drug Designing and Development | 3 |
| Research Methodology | 3 |
| SEMESTER- 3 & SEMESTER-4 | |
| Thesis | 6 |

Total Credit Hours: 30

M. Phil Pharmacology Courses

| Course Title | Credit Hours |
|-------------------------------------|--------------|
| SEMESTER – 1 | |
| Principles of Pharmacology | 3 |
| Systems Pharmacology-I | 3 |
| Molecular Pharmacology | 3 |
| Biostatistics | 3 |
| SEMESTER – 2 | |
| Chemotherapeutics | 3 |
| System Pharmacology-II | 3 |
| Clinical Pharmacology & Toxicology | 3 |
| Research Methodology | 3 |
| SEMESTER-3 & SEMESTER- 4 | |
| Thesis | 6 |

Total Credit Hours: 30



M. Phil Pharmaceutics Courses

| Course Title | Credit Hours |
|-------------------------------------|--------------|
| SEMESTER – 1 | |
| Advanced Pharmaceutics | 3 |
| Biopharmaceutics & Pharmacokinetics | 3 |
| Pharmaceutical Microbiology | 3 |
| Biostatistics | 3 |
| SEMESTER – 2 | |
| Pharmaceutical Analysis | 3 |
| Formulation and Product Development | 3 |
| Clinical Pharmacy | 3 |
| Research Methodology | 3 |
| SEMESTER 3 & SEMSTER – 4 | |
| Thesis | 6 |

Total Credit Hours: 30

M. Phil Pharmacognosy Courses

| Course Title | Credit Hours |
|---|--------------|
| SEMESTER – 1 | |
| Advances in Pharmacognosy | 3 |
| Biosynthesis of Natural Products | 3 |
| Applied Spectroscopic & Chromatographic Techniques for Natural Products | 3 |
| SEMESTER – 2 | |
| Advanced Phytochemistry | 3 |
| Medicinal Plant Biotechnology | 3 |
| Complementary and Alternative Medicine | 3 |
| Research Methodology | 3 |
| SEMESTER 3 & SEMSTER – 4 | |
| Thesis | 6 |

Total Credit Hours: 30



Ph.D Pharmacy Programs

(Pharmaceutical Chemistry, Pharmacology, Pharmaceutics)

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.

Scheme of Study: 18 Credit Hours course work
30 Credit Hours research work

Duration: 3 to 8 years

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

List of Courses

| PhD Pharmacy Courses | Credit Hours |
|--|--------------|
| Advanced Pharmaceutical Organic Chemistry | 3 |
| Phytochemistry | 3 |
| Retrosynthetic drug analysis | 3 |
| Applied Medicinal Chemistry | 3 |
| Structural Elucidation & Analysis of Drugs | 3 |
| Advances in Biochemistry | 3 |
| Bioinformatics | 2 |
| Professional Ethics | 1 |
| Pharmaceutical Nanotechnology | 3 |
| Specialized Drug Delivery Systems | 3 |
| Applications of Pharmaceutical Biotechnology | 3 |
| Pharmaceutical Product Development | 3 |
| Advances in Drug Designing | 3 |
| Trends in Clinical Pharmacy | 3 |
| Autonomic Pharmacology | 3 |
| Advanced cardiovascular Pharmacology | 3 |
| Inflammo-and-Immunopharmacology | 3 |
| Chemotherapeutic Agents | 3 |
| Advancement in Neuropharmacology | 3 |
| Advances in Airways and Gut Pharmacology | 3 |
| Thesis | 30 |



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.

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 Analgesimeter
- Plethysmometer
- Western Blot
- Aggregometer
- Chemistry Analyzers



Glimpses of International Conference on “Recent Innovation in Pharmaceutical Sciences”



Faculty Members

Prof. Dr. Arif-ullah Khan

Dean
Post Doc., Ph.D, M.Phil, B.Pharm

Dr. Alam Zeb

Assistant Professor
Ph.D, M.Phil, Pharm-D

Dr. Nosheen Fazal

Assistant Professor
M.Phil, Pharm.D

Prof. Dr. G. A. Miana

Post Doc., Ph.D

Dr. Fawad Ali Shah

Assistant Professor
Ph.D, MS, Pharm-D

Dr. Uzma Mussarat

Sr. Lecturer
M.Phil, MS, MBBS

Prof. Dr. Shahiq-uz-Zaman

HOD-Pharmaceutics / Pharmacy Practice
Ph.D, M.Phil, B.Pharm

Dr. Sadia Sarwar

Assistant Professor
Post-Doc., Ph.D, M.Phil

Dr. Faiza Shahid

Lecturer
M.Phil, Pharm.D

Dr. Humaira Nadeem

Associate Professor &
HOD-Pharmaceutical Chemistry
Ph.D, M.Phil

Mr. Muhammad Mohsin Ansari

Assistant Professor
Ph.D Scholar, M.Phil,
B.Pharm

Dr. Shagufta Naz

Lecturer
Ph.D Scholar, M.Phil, Pharm.D

Dr. Khadija Shahid

Associate Professor
Post Doc., Ph.D

Ms. Farah Azhar

Assistant Professor
Ph.D Scholar, M.Phil, B.Pharm

Dr. Rabeea Khan

Lecturer
M.Phil, Pharm.D

Dr. Sikandar Hayat Khan

Associate Professor
M.Phil, MBBS

Dr. Hina Ahsan

Assistant Professor
MS, Pharm. D

Dr. Amna Niaz

Lecturer
M.Phil, Pharm.D

Dr. Fatima Riaz

Associate Professor
M.Phil, MBBS

Dr. Shahana Khattak

Assistant Professor
MBA, M.Phil, Pharm.D

Dr. Sadia Tabbasam Arif

Lecturer
Ph.D Scholar, M.Phil, Pharm.D

Dr. Humaira Naureen

Assistant Professor &
HOD-Pharmacognosy
Ph.D, M.Phil, B.Pharm

Dr. Umair Ilyas

Assistant Professor
Ph.D Scholar, M.Phil, Pharm.D

Dr. Amber Mehmood Minhas

Lecturer
M.Phil, Pharm.D

Dr. Muzaffar Abbas

Assistant Professor &
HOD-Basic Medical Scieces
Ph.D, M.Phil, B.Pharm

Dr. Masood ur Rehman

Assistant Professor
Ph.D Scholar, M.Phil, B.Pharm

Dr. Kamran

Lecturer
M.Phil, Pharm.D

Faculty Members

Mr. Javed Iqbal

Lecturer
PhD, M.Phil

Dr. Maimoona Malik

Jr. Lecturer
M.Phil, Pharm.D

Dr. Isra Rana

Jr. Lecturer
M.Phil Scholar, Pharm.D

Mr. Badar Mehmood Minhas

Assistant Professor
PhD, M.Phil

Dr. Hafiza Madiah Kanwal

Jr. Lecturer
PhD Scholar, M.Phil, Pharm.D

Dr. Namrah Khan

Jr. Lecturer
M.Phil Scholar, Pharm.D

Mr. Tariq Anees

Lecturer
M.Phil

Dr. Khan Hashim Ali

Jr. Lecturer
M.Phil Scholar, Pharm.D

Dr. Sana Dilshad

Jr. Lecturer
M.Phil Scholar, Pharm.D

Ms. Sadia Nadir

Lecturer
M.Phil

Dr. Adeela Kousar

Jr. Lecturer
Pharm.D

Dr. Ammara Butt

Jr. Lecturer
BDS, BSc

Mr. Hafiz Muhammad Zahid Yasin

Lecturer
M.Phil

Dr. Komal Naeem

Jr. Lecturer
M.Phil Scholar, Pharm.D

Dr. Syeda Batool Zaidi

Jr. Lecturer
BDS

Dr. Muhammad Faheem

Jr. Lecturer
PhD Scholar, M.Phil, Pharm.D

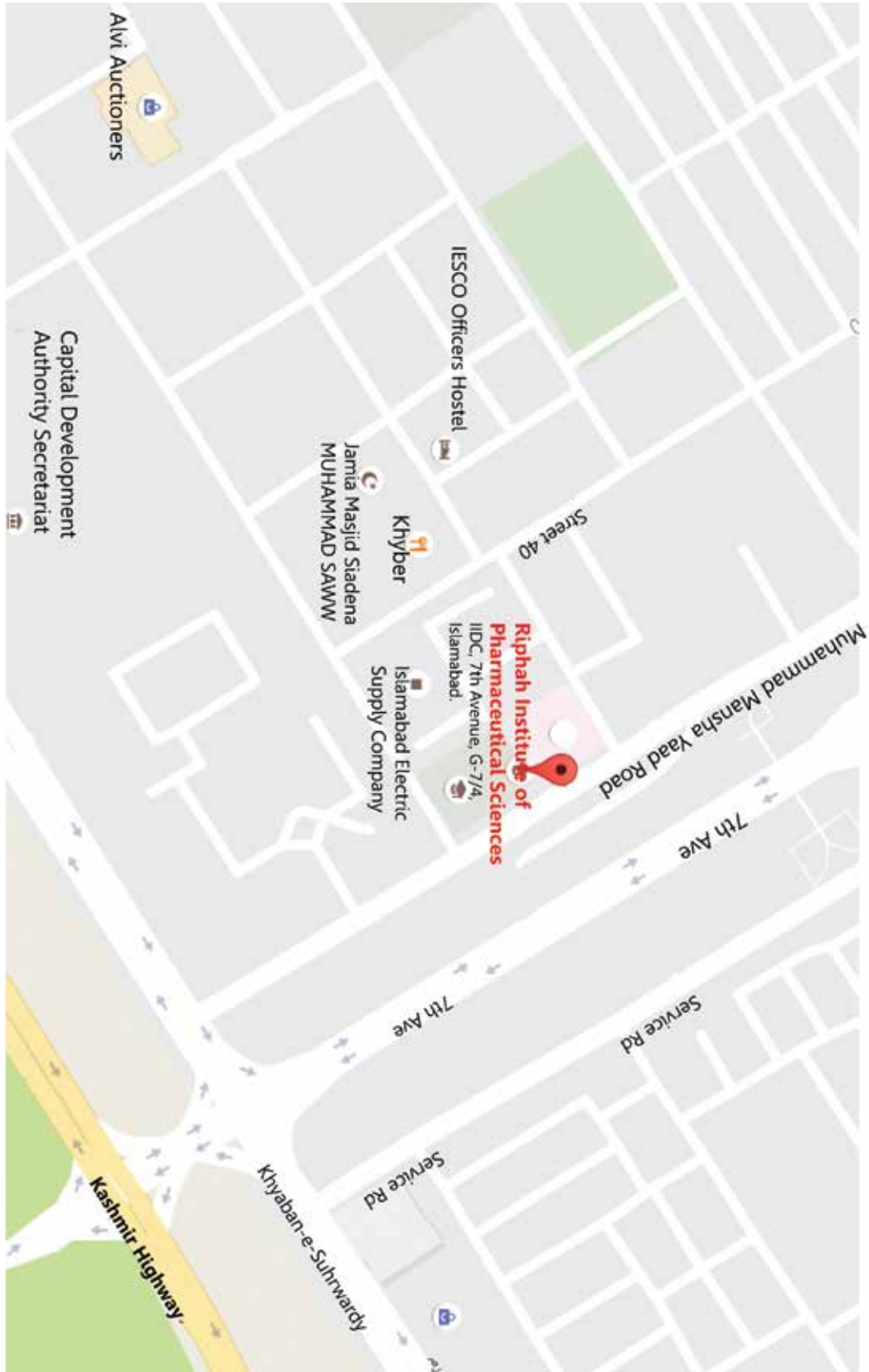
Dr. Syeda Sidra Batool Zaidi Jr

Lecturer
M.Phil, Pharm.D

Dr. Zunaira Hussain

Hospital Pharmacist
Pharm.D

Islamabad City Campus



ISLAMABAD / RAWALPINDI

Islamabad Main Campus:

Sector I-14,
Islamabad.

Phone: +92 (51) 844 6000-7

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

Islamabad City Campus-I:

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

Phone: +92 (51) 289 1835-8

Fax: +92 (51) 289 0690

Islamabad City Campus-II:

Ground Floor, 4-Evacuee Trust Complex,
Agha Khan Road, Near Marriott Hotel,
F-5, Islamabad.

Phone: +92 (51) 843 8370-7

Rawalpindi Campus:

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

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

Fax: +92 (51) 512 5170

RIPHAH WISH Campus Islamabad:

Street No. 5, Faiz Ahmed Faiz Road,
H-8/2, Islamabad.

Phone: +92 (51) 492 2161-5

LAHORE

Township Campus:

14-Civic Center, Near Hamdard
Chowk, Township, Lahore.

Phone: +92 (42) 351 26110-8

Raiwind Campus:

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

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

Lahore Campus-III:

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

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

FAISALABAD

Faisalabad Campus:

Satiana Road, Adjacent Fish Farm,
Faisalabad.

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

UAE

UAE Campus:

RAK College of Dental Sciences,
PO Box 12973, Ras Al Khaimah, UAE

Phone: +97 (17) 222 2593

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