

**University of  
Veterinary and Animal  
Sciences, Lahore**

PROVOKING POTENTIALS,  
PRODUCING PROFESSIONAL'S



# UNDERGRADUATE **PROSPECTUS** 2025





**UNITY,  
FAITH,  
DISCIPLINE**

### **Father of Nation**

You must concentrate on gaining knowledge and education. It is your foremost responsibility. Political awareness of the era is also part of your education. You must be aware of international events and environment. Education is a matter of life and death for our country. I insist you to strive. Work, work and only work for satisfaction with patience, humbleness and serve the Nation.

## DISCLAIMER

This prospectus is informational and should not be taken as legal binding on the University. Each aspect of the educational setup including admission procedure, rules and regulations regarding examination and discipline requires continuous review by the competent authorities. The University, therefore, reserves the right to change any rule/rules and regulations applicable to the students whenever it is deemed appropriate or necessary. Rights are reserved to offer or not to offer any program or any course mentioned in the prospectus. The printing errors must not be any legal binding on UVAS. The inquiries concerning admission should be addressed to Admission Office UVAS.



## CONTENTS

Vice Chancellor's Message	04
Vision & Mission	06
History of Education at UVAS	07
Faculty of Veterinary Science	14
Faculty of Bio Sciences	30
Faculty of Animal Production & Technology	46
Faculty of Fisheries & Wildlife	58
Faculty of Life Sciences Business Management	66
Institute of Continuing Education & Extension (ICE&E)	72
Allocation of Seats	76
Fee Structure	78
Statues & Regulations	83
International Exchange & Linkages Programs	91
Office of Research Innovation & Commercialization (ORIC)	91
Directorate of University and Financial Aid (DUAFA)	92
Directorate of Student Affairs (DSA)	93
Office of Senior Tutor	94
Directorate of Information Technology (IT)	95
Library	96
Directorate of Sports	97
Hostel Facilities	99
Medical & Health Services	100
Important Meet -ups	101

# VICE CHANCELLOR'S MESSAGE

## Dear Prospective Students

The University of Veterinary and Animal Sciences (UVAS), Lahore, is one of the oldest veterinary institutions in Asia, with a distinguished legacy spanning 144 years. According to the latest Times Higher Education (THE) World University Impact Rankings, UVAS is ranked at the top among 23 competing Pakistani universities. Additionally, the QS Rankings place UVAS among the top Asian universities. As per the Higher Education Commission (HEC) rankings, UVAS is ranked 3rd in sports among public sector universities. Furthermore, in the latest assessment by HEC's Quality Assurance Agency (QAA), UVAS was awarded the highest "W" category.

The University operates across five campuses: City Campus Lahore, Ravi Campus Pattoki, CVAS Jhang, KBCMA CVAS Narowal, and the Para Veterinary Institute in District Layyah. Additionally, it houses the Avian Research and Training Center on Ferozpur Road, Lahore, and has two affiliated institutes located in Lahore and Sargodha.

UVAS comprises five faculties offering 75 professional degree programs, including 19 undergraduate, 34 M.Phil., and 26 Ph.D. programs. Currently, 856 M.Phil. and 293 Ph.D. students are enrolled across various disciplines. To date, the University has conferred degrees upon 552 Ph.D., 5,306 M.Phil., and approximately 10,601 undergraduate students.

The University boasts a faculty of 350 members, of whom 261 hold Ph.D. degrees in their respective fields. In recent years, UVAS faculty have published 575 research papers in HEC-recognized and impact-factor journals. Presently, 55 research projects worth Rs. 574 million are ongoing, funded by various national and international agencies. UVAS has also established 64 international and 113 national linkages with academic institutions and industries.

The University has developed state-of-the-art clinical, teaching, training, research, and diagnostic facilities. Its contributions to quality education and cutting-edge research in Livestock, Poultry, Dairy, Fisheries, Wildlife, Pharmaceuticals, Business Management, and Biological Sciences are widely recognized both nationally and internationally.

UVAS takes pride in the diversity of its student body in terms of background and geographic origin. UVAS students excel academically and actively participate in co-curricular and extracurricular activities. Many are engaged in social welfare, community development, and innovative initiatives through student-run clubs and societies, under the guidance of faculty mentors. These organizations foster social responsibility and provide valuable opportunities for students to develop their skills and showcase their talents. Our students and staff have contributed significantly to initiatives such as COVID-19 testing in the BSL-3 lab, flood relief, awareness campaigns, animal welfare, civic engagement, and community service.

With this background, I warmly welcome you as a prospective student at UVAS. The programs offered here demand dedication, discipline, and hard work. You will be required to spend focused hours on campus and at experimental stations. The University is committed to providing a supportive and enriching environment for both study and research.

As future scientific leaders, you are expected to assume responsibility within society. I assure you that if you commit yourself sincerely to enhancing your knowledge and professional skills, the University's faculty will provide full support to help you accomplish your research goals effectively.

I wish you a productive and fulfilling journey at UVAS and hope that you will emerge as a distinguished professional in your field.

**Meritorious Prof. Dr. Muhammad Younus Rana (DLAI.T.I.)**  
**Ph.D., Post Doc. (USA)**  
**Vice Chancellor**





## VISION & MISSION

### Provoking Potentials Producing Professionals

**Vision:**

The university aspires to be the nation's leading public sector university with global recognition due to its quality in teaching, research, civic engagement, and economic development.

**Mission:**

We develop human resources through professional education, research and training in the field of life sciences. The university promotes learning environment that cherishes gender, the cultural equity and supports pursuit of knowledge, academic freedom and intellectual curiosity. We aim at socio-economic growth of the country by ensuring professional excellence, integrity and ethical conduct in our graduates with diverse and innovative faculty.



## History of Education at UVAS

The University of Veterinary & Animal Sciences, Lahore is one of the oldest Veterinary Institutions in Aisa. Since its inception in 1882, this institution has worked enthusiastically and conducted a wide range of programs that have effectively catered to the educational and training needs in the field of Veterinary and Animal Sciences. By now, it has emerged as one of the renowned centers of teaching in Veterinary Education in Aisa.

The up-gradation of College of Veterinary Sciences, Lahore in 2002, to the status of University is considered as a milestone to upgrade veterinary education and research in the country. This a wide range of relevant degree program, trainings and research projects were initiated.

So far about 8500 graduates who have qualified from this institution are serving all over the world. Many graduates from this institution have risen to the position/rank of Major General in Pakistan

Army, Ministers of Government, Vice Chancellors of Universities and Federal/Provincial Secretaries. Our alumni are also on the faculty of academic institutions within the country and abroad. They are also on the staff of national and international research institutions, UN Agencies (FAO, UNDP, WHO) and Pakistan Atomic Energy Commission, etc. Numerous graduates have ventured as entrepreneurs in the livestock and poultry industries embracing great success.

UVAS provides ample opportunities to the students to discover themselves, realize their true potential and prepare them for the future challenges. In view of the emerging highly significant role of education in National Economy. The UVAS has initiated many new degree programs to provide required human resource for the development activities of Pakistan.

You are probably already aware that UVAS is one of leading universities in Pakistan in terms of its academic reputation, but did you know:



<b>EMERGING</b>	Among 351-400 in The Higher Education (THE) Emerging Economies Universities Ranking 2024
<b>1<sup>st</sup></b>	Among 23 Pakistani University The Higher Education (THE) Impact Ranking 2020
<b>TOP-10</b>	Among Top-10 in General Universities of Pakistan. (HEC Ranking-2015 & 2016)
<b>QS</b>	Among Top-51-70 in the category of Veterinary Sciences Asian Universities(QS World University Rankings 2025)
<b>TOP-10</b>	Among Top-5 in General Universities Among Top 3 in Public Sector Universities
<b>2<sup>nd</sup></b>	2nd Best University in Agriculture / Veterinary Category
<b>175+</b>	Ph.D Faculty Members
<b>ISO</b>	Certified University Diagnostic and Research Labs
<b>W</b>	<b>Category</b> (QEC Ranking by HEC Pakistan)
<b>144 yrs</b>	Glorious Years of Professional Legacy
<b>1<sup>st</sup></b>	To Establish Drug & Poison Information Centre in Pakistan
<b>24/7</b>	Offers 24/7 Extension Services to Farmers

- Degrees approved & accredited by HEC & Respective Councils
- Pioneer in offering programs in Dairy Technology, Fisheries, Wildlife, Poultry Sciences & Life Sciences Business Management Programs in Pakistan



# Who Can Apply.

Degree Programs	Approved Eligibility Criteria
Doctor of Veterinary Medicine (DVM) Doctor of Pharmacy (Pharm -D)	<ul style="list-style-type: none"> <li>At least 60% marks (excluding Hafiz-e-Quran) in F.Sc. (Pre-Medical) or an equivalent examination from recognized institution / Board.</li> <li>20 marks for Hafiz-e-Quran will be awarded subject to clearance of test. Candidates must bring their original documents on the day of test.</li> <li>The final merit will be based on marks obtained in Matric / O-Level or any other equivalent examination and F.Sc. /A-Level or any other equivalent examination.</li> </ul>
BS Nutrition & Dietetics	<ul style="list-style-type: none"> <li>At least 50% marks (excluding Hafiz-e-Quran) in F.Sc (Pre-Medical) or any other equivalent examination from a recognized Board/University can apply for admission.</li> <li>20 marks for Hafiz-e-Quran will be awarded subject to clearance of test. Candidates must bring their original documents on the day of test.</li> <li>The final merit will be based on marks obtained in Matric / O-Level or any other equivalent examination and F.Sc. /A-Level or any other equivalent examination.</li> </ul>
BS Food Science and Technology BS Genetics BS Animal Product Processing Technology BS Fisheries & Aquaculture BS Poultry Science BS Environmental Sciences	<ul style="list-style-type: none"> <li>At least 50% marks (excluding Hafiz-e-Quran) in F.Sc. (Pre-Medical / Pre-Engineering) or an equivalent examination from recognized institution / Board.</li> <li>20 marks for Hafiz-e-Quran will be awarded subject to clearance of test. Candidates must bring their original documents on day of test.</li> <li>The final merit will be based on marks obtained in Matric /O-Level or any other equivalent examination and F.Sc. / A-Level or any other equivalent examination.</li> </ul>
BS Dairy Technology	<ul style="list-style-type: none"> <li>At least 50% marks (excluding Hafiz-e-Quran) in F.Sc. (Pre-Medical / Pre-Engineering) or an equivalent examination and DAE (Food Technology / Chemical Technology) from recognized institution / Board.</li> <li>20 marks for Hafiz-e-Quran will be awarded subject to clearance of test. Candidates must bring their original documents on day of test.</li> <li>The final merit will be based on marks obtained in Matric /O-Level or any other equivalent examination and F.Sc. / A-Level or any other equivalent examination.</li> </ul>
BS Biochemistry BS Applied Microbiology BS Medical Laboratory Technology BS Biological Sciences BS Botany BS Zoology	<ul style="list-style-type: none"> <li>At least 45% marks (excluding Hafiz-e-Quran) in F.Sc. (Pre-Medical) or an equivalent examination from recognized institution / Board.</li> <li>20 marks for Hafiz-e-Quran will be awarded subject to clearance of test. Candidates must bring their original documents on day of test.</li> <li>The final merit will be based on marks obtained in Matric / O-Level or any other equivalent examination and F.Sc. /A-Level or any other equivalent examination.</li> </ul>
BS Computer Science	<ul style="list-style-type: none"> <li>At least 45% marks (excluding Hafiz-e-Quran) in F.Sc. (Pre-Engineering) / F.Sc. (Pre-Medical) with Additional Mathematics /ICS / General Science combinations               <ul style="list-style-type: none"> <li>Mathematics, Statistics, Physics      Mathematics, Statistics, Economics</li> <li>Mathematics, Computer Science, Economics</li> </ul> </li> <li>or an equivalent examination from recognized institution / Board.</li> <li>20 marks for Hafiz-e-Quran will be awarded subject to clearance of test. Candidates must bring their original documents on day of test.</li> <li>The final merit will be based on marks obtained in Matric / O-Level or any other equivalent examination and F.Sc. / A-Level or any other equivalent examination.</li> </ul>
BBA	<ul style="list-style-type: none"> <li>At least 45% marks (excluding Hafiz-e-Quran) in F.Sc. (Pre-Medical / Pre-Engineering) / FA / ICS / I.Com. or an equivalent examination from recognized institution / Board.</li> <li>20 marks for Hafiz-e-Quran will be awarded subject to clearance of test. Candidates must bring their original documents on day of test.</li> <li>The final merit will be based on marks obtained in Matric / O-Level or any other equivalent examination and F.Sc. / A-Level or any other equivalent examination.</li> </ul>

## Undergraduate Programs at Various Campuses

### Degree Programs, Lahore Campus

Doctor of Veterinary Medicine (DVM) (M/E\*)  
 Doctor of Pharmacy (Pharm-D) (M/E\*) (Lahore Campus)  
 BS Applied Microbiology (M/E\*)  
 BS Nutrition & Dietetics (M/E\*)  
 BS Biotechnology (M/E\*)  
 BS Biochemistry (M/E\*)  
 BS Food Science and Technology (M/E\*)  
 BS Biological Sciences (M\*)  
 BS Medical Laboratory Technology (M/E\*)  
 BS Environmental Sciences (M\*)  
 BBA Bachelor of Business Administration (M/A/E\*)  
 BSCS (M\*)

### Degree Programs, Ravi Campus, Pattoki

Doctor of Veterinary Medicine (DVM) (M/E\*)  
 BS Poultry Science (M\*)  
 BS Zoology (M\*)  
 BS Fisheries and Aquaculture (M\*)  
 BS Biological Sciences (M\*)  
 BS Medical Laboratory Technology (M\*)  
 BS Botany (M\*)  
 BS Dairy Technology (M\*)  
 BSCS (M/E\*)  
 BS Genetics (M\*)  
 BS Animal Products Technology (M\*)

### Degree Programs, Jhang Campus

Doctor of Veterinary Medicine (DVM) (M/E\*)  
 BS Applied Microbiology (M/E\*)  
 BS Biological Sciences (M\*)  
 BS Zoology (M\*)  
 BS Medical Laboratory Technology (M\*)  
 BS Biotechnology (M\*)

### Degree Programs, Narowal Campus

Doctor of Veterinary Medicine (DVM) (M/E\*)  
 BS Medical Laboratory Technology (M\*)  
 BS Applied Microbiology (M/E\*)

\* M = Morning, A= Afternoon, E = Evening



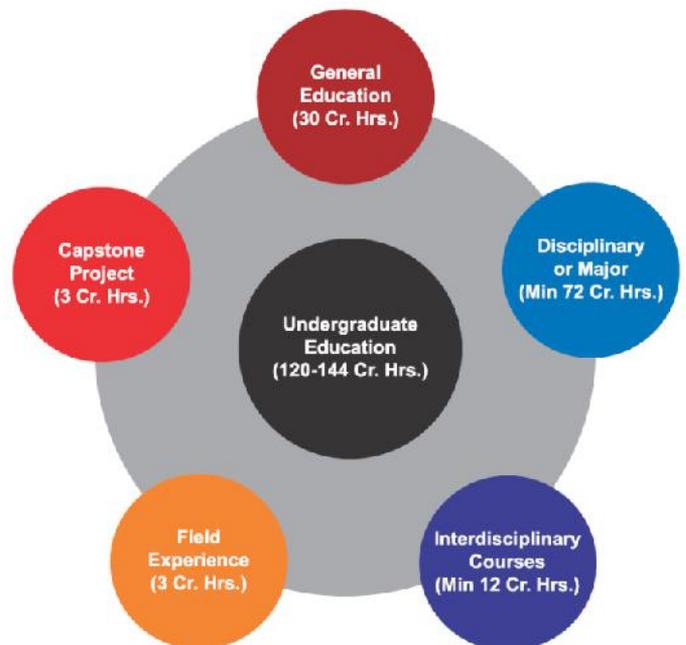
## Important Instructions

**All Degree Programs  
are following latest  
Undergraduate Education  
Policy given by  
HEC Pakistan**

A candidate can give choices of all disciplines in order of priority. However, it is advised to avoid giving unnecessary choices of disciplines which may not be acceptable to the student afterwards.

### Preferences

- Merit will be determined according to the given preferences of disciplines and their order of priority.
- Starting with the first preference, applicants will be assessed and ranked according to the merit for each discipline. A computerized matching process will place the applicants (meeting the minimum merit requirements) to the highest listed in his/ her preference.
- Once offered a place to the highest listed preference, an applicant cannot claim admission to the discipline named lower in his/ her preference.
- An applicant, under no circumstances, shall be considered for any discipline, he/she has not given in his/her order of preferences. The Admission Committee shall not assign any discipline by itself if the alternate choices are not indicated.
- In case the applicant has applied on disable quota / sports quota/naat/qirrat quota, he / she must submit the relevant certificate/certificates duly attested by concerned competent authority. Otherwise, the application will not be entertained in any case.



Study Scheme of all Degree Programs

## REGULATIONS / POLICIES FOR ADMISSION AGAINST DIFFERENT RESERVED SEATS IN THE UNDERGRADUATE DEGREE PROGRAMS 2025

CATEGORY	REGULATIONS / POLICIES
<b>Qirat &amp; Naat</b>	<ul style="list-style-type: none"> <li>• Certificate in the Qirat &amp; Naat competition of school / college / district / provincial / national / international level.</li> <li>• <b>Recommendation of the Qirat &amp; Naat Committee of UVAS, Lahore</b> (Approved by Vice Chancellor / Pro Vice-Chancellor).</li> <li>• Preference of degree for admission given by the candidate.</li> <li>• Selection of candidate will be purely on <b>MERIT</b> as indicated in eligibility criteria.</li> </ul>
<b>Disable Person</b>	<ul style="list-style-type: none"> <li>• Attested copies of the Disability Certificate issued by the National / Provincial Council for the Rehabilitation of Disabled Persons or a CNIC with disability logo.</li> <li>• Recommendation of the Medical Board of UVAS (Approved by the Vice Chancellor / Pro Vice Chancellor).</li> <li>• Preference of degree for admission given by the candidate.</li> <li>• Selection of candidate will be purely on <b>MERIT</b> as indicated in eligibility criteria.</li> </ul>
<b>Sports Quota</b>	<ul style="list-style-type: none"> <li>• Certificate in the relevant game from sports board of school / college / district / provincial / national level.</li> <li>• Recommendation of the Sports Committee / Board of UVAS, Lahore (Approved by Vice Chancellor / Pro Vice-Chancellor).</li> <li>• Preference of degree for admission given by the candidate.</li> <li>• Selection of candidate will be purely on <b>MERIT</b> as indicated in eligibility criteria.</li> </ul>
<b>Children of Overseas Pakistanis</b>	<ul style="list-style-type: none"> <li>• Valid NICOP / Foreign Employment Letter certified by the Pakistani Embassy or Consulate, or membership with the Overseas Pakistanis Foundation.</li> <li>• CNIC copies of Parents.</li> <li>• Candidates must pay Rs. 1,500,000/- (Refundable if not admitted) via online generated Bank Challan at the time of application.</li> <li>• Preference of degree for admission given by the candidate.</li> <li>• Selection will be purely on merit.</li> </ul>
<b>Foreign Students</b>	<ul style="list-style-type: none"> <li>• As per HEC / UVAS Approved Policy.</li> </ul>
<b>Children of UVAS Employees</b>	<ul style="list-style-type: none"> <li>• Eligible only if parents are Regular / Temporary (likely to become permanent) / TTS / Retired / Deceased employees.</li> <li>• Employee should have minimum 5 years of regular service at UVAS (certified by Registrar Office).</li> <li>• CNIC copies of Parents.</li> <li>• Preference of degree for admission given by the candidate.</li> <li>• Selection of candidate will be purely on <b>MERIT</b>.</li> </ul>
<b>Children of UVAS Alumni (Veterinary / Animal Husbandry Graduates)</b>	<ul style="list-style-type: none"> <li>• Attested degree and transcripts of parent (Veterinary Graduate / Animal Husbandry Graduate).</li> <li>• Valid Registration Certificate of Pakistan Veterinary Medical Council (PVMC).</li> <li>• UVAS Alumni Certificate.</li> <li>• CNIC copies of Parents.</li> <li>• Preference of degree for admission given by the candidate.</li> <li>• Selection based on <b>MERIT</b>.</li> </ul>
<b>Children of Para Veterinary Staff</b>	<ul style="list-style-type: none"> <li>• Diploma in Veterinary Assistant / Livestock Assistant from HEC recognized University/Institute/PVMC.</li> <li>• CNIC copies of Parents.</li> <li>• Preference of degree for admission given by the candidate.</li> <li>• Selection of candidate will be based on merit.</li> </ul>

<b>Children of Armed Forces Personnel (Army, Navy, Air Force)</b>	<ul style="list-style-type: none"> <li>Nomination must be submitted ONLY through relevant head office (Army, Navy, Air Force) after meeting eligibility criteria.</li> </ul>
<b>Children of Pharmaceutical Industries</b>	<ul style="list-style-type: none"> <li>Evidence of ownership of Pharmaceutical Industry.</li> <li>Registration with Chamber of Commerce.</li> <li>Must have Valid NTN &amp; be an Active Taxpayer.</li> <li>Dry manufacturing license of pharmaceutical industry approved by a regulatory authority.</li> <li>CNIC copies of Parents.</li> <li>Must pay Rs. 1,500,000/- (Refundable if not admitted) via online Bank Challan at time of application.</li> <li>Preference of degree for admission given by the candidate.</li> <li>Selection based on MERIT.</li> </ul>
<b>Children of Pharmaceutical Graduates</b>	<ul style="list-style-type: none"> <li>Attested degree and transcripts of parent (Pharmacy Graduate).</li> <li>Valid certificate from Provincial Pharmacy Council.</li> <li>CNIC copies of Parents.</li> <li>Preference of degree for admission given by the candidate.</li> <li>Selection based on MERIT.</li> </ul>
<b>Children of Veterinary / Poultry Industrialists</b>	<ul style="list-style-type: none"> <li>Proof of ownership of Veterinary / Poultry Industry (Farms, Units, Hatchery, Feed Mill, etc.).</li> <li>Registration with Chamber of Commerce.</li> <li>Must have Valid NTN &amp; be an Active Taxpayer.</li> <li>CNIC copies of Parents.</li> <li>Must pay Rs. 1,500,000/- (Refundable if not admitted) via online Bank Challan at time of application.</li> <li>Preference of degree for admission given by the candidate.</li> <li>Selection based on MERIT.</li> </ul>

## ELIGIBILITY CRITERIA UNDERGRADUATE PROGRAMS 2025

### For Intermediate or Equivalent Candidates:

- Second year (Part-II) result awaiting candidates of intermediate or equivalent (1st Annual exam 2025) are eligible to apply if they have passed all subjects of Part-I.
- Candidates who have already passed their intermediate or equivalent exams in 2024 or earlier, will be evaluated on the basis of their Part-1 result only.
- Result awaiting/improvement Candidates will be granted admission provisionally, after securing the admission, they must pass their intermediate or equivalent Part-II in 1st Annual exam of 2025 as well as their overall result must meet the minimum eligibility criteria of the concerned degree program; failing which admission will be cancelled and deposited fee will not be refunded.
- Candidates shall be required to submit their final result card within stipulated time period in the relevant Departments; failing which admission will be cancelled and deposited fee will not be refunded.

### For DAE Candidates:

- Third year result awaiting candidates of DAE (1st Annual exam 2025) are eligible to apply if they have passed all subjects in their previous 2 years exams.
- Candidates who have already passed their DAE exams in 2024 or earlier, will be evaluated on the basis of their previous 2 years results only.
- Result awaiting/improvement Candidates will be granted admission provisionally, after securing the admission, they must pass their DAE in 1st Annual exam of 2025 as well as their overall result must meet the minimum eligibility criteria of the concerned degree program; failing which admission will be cancelled and deposited fee will not be refunded.
- Candidates shall be required to submit their final result card within stipulated time period in the relevant Departments; failing which admission will be cancelled and deposited fee will not be refunded.

### For O/A Level:

- Second year (A2) result awaiting candidates of A Levels are eligible to apply if they have passed all subjects of A 1/AS. Their A 1/AS grades evaluation will be performed on the basis of IBCC equivalence criteria.
- Result awaiting Candidates will be granted admission provisionally, after securing the admission, they must pass their A2 in 1st Annual exam of 2025 as well as acquire and submit IBCC equivalence certificate. The A-level result awaiting candidates must submit an O-Level IBCC certificate for evaluation. The submitted equivalence certificates of O-Level and later on, A-Levels must meet the minimum eligibility criteria of the concerned degree program; failing which admission will be cancelled and deposited fee will not be refunded.
- Candidates who have already passed their O/A-Level exams in 2024 or earlier, will be evaluated on the basis of their A 1/AS grades only.
- A-Level Examination 2025 passing candidates shall be required to submit their IBCC equivalence certificate within stipulated time period in the relevant Departments; failing which their admission will be cancelled and deposited fee will not be refunded.

### Age Limit:

- Candidates must not be over 25 years of age on the last date of submission of application.

### Weightage:

- Intermediate or Equivalent Part-1 (70%) / A Level (A1/ AS) or Any Other Foreign Equivalent Qualification (70%) / DAE (2 Years Passed Result) (70%)
- Matric / O level or Any Other Foreign Equivalent Qualification (30%)

**NOTE: All degree programs have basic criteria of F.Sc (Pre-Medical) for admission, where F.Sc. (Pre-Engineering) students will be granted admission then these students must enroll compulsory audit course entitled "Basic Biology" with no credit hours in 1st semester only.**



## STEPS FOR ADMISSION

1. Prospectus can be downloaded from the University Website, [www.uvas.edu.pk](http://www.uvas.edu.pk).
2. Application will be filled and submitted online at University Website.
3. Candidate will pay an amount of Rs. 2000/- as Admission Processing Fee (only for one choice). The candidates applying in more than one discipline will pay Rs. 300/- for each additional choice. If the application is to be submitted against any quota, then the candidate has to pay additional fee of Rs.300/-.
4. Candidates can deposit the application fee through online generated Bank Challan in any branch of Bank Alfalah Ltd. in Pakistan as well as any debit/credit via 1 link and jazz cash.
5. Candidates are advised to fill the Application Admission Form carefully after reading the instructions and especially the column for preferences of different disciplines.
6. Students applying for admissions shall give an order of preference for Morning and Evening programs separately offered at each campus. The order of preferences once given by the candidate in the application shall be final and cannot be changed subsequently.
7. If a candidate has applied domain of morning and evening programs separately, then he/she will compete separately for these domains.
8. Incomplete applications will NOT be accepted.
9. In case of occurrence of vacant seat, the candidate will be upgraded automatically in subsequent lists to a degree program listed higher in his/her order of preference.
10. The FINAL master list of all applicants along with their marks and preferences will be displayed on UVAS website after the closure of the admission to ensure transparency and for error if any. The applicant may apply within 48 hours by Email ([ugadmissions25@uvas.edu.pk](mailto:ugadmissions25@uvas.edu.pk)) if there is a discrepancy in the master list. Afterwards, no claim will be entertained.
11. The final master list will be displayed after omitting the errors (if any).
12. The selection of the candidates shall be made purely on merit basis. List of admitted students will be displayed on the website [www.uvas.edu.pk](http://www.uvas.edu.pk), and on Notice Boards of the Admission office, UVAS, Lahore on the date mentioned in the admission advertisement in the National Press or website.
13. Candidates shall NOT be informed about their selection individually, so they will have to check their status of admission from the lists of selected candidates displayed on notice Board or on webpage.
14. If any candidate fails to deposit the University dues within the stipulated period after the display of admission lists, his/her admission shall stand cancelled automatically without any prior notice and the admission on that seat will be offered to next waiting candidate on merit basis.
15. Admissions of those candidates will stand cancelled who will provide false information related to their academics/personal etc.
16. In case of less than 15 students in any program, admission in that discipline will be suspended and students will be offered admission in other disciplines based on his/her preference without any change in merit.
17. Limited Hostel facility is available purely on merit places.
18. The candidate can update his /her already uploaded data, except Quota and degree program in which he/she already applied, after deposit of processing fee.

## GUIDELINES FOR FOREIGN STUDENTS FOR ADMISSION AT UVAS, LAHORE

This scheme aims to assist foreign students with educational aspirations in Pakistan. A limited number of seats at University of Veterinary and Animal Sciences, Lahore have been allocated in session 2022 for foreign citizens with an HSSC or equivalent degree.

### ELIGIBILITY CRITERIA

\*As per UVAS Approved Policy

1. The applicant must hold a foreign nationality at the time of application and admission.
2. The applicant must have passed higher secondary school (12th Grade) or the equivalent with the following combination of subjects; or subjects according to the requirements of degree.
  - a). **Physics, Chemistry, Biology for Pre-Medical**
  - b). **Physics, Chemistry and Mathematics for Pre-Engineering**
3. **Selection of the students against the seats allocated to international students will be made purely on merit to be determined by UVAS, Pakistan.**

**Note:**

**Medium of instruction at UVAS is english. hence it is mandatory for international student to submit an unsertaking that he/she can read/write/speak english language.**

### HOW TO APPLY

Foreign nationals may submit their applications online at the following website [www.uvas.edu.pk](http://www.uvas.edu.pk)

Last date for submission of application form against advertised seats at University of Veterinary and Animal Sciences, Lahore is as per admission schedule.

**For further details please visit [www.uvas.edu.pk](http://www.uvas.edu.pk)**

### Contact Person

**Prof. Dr. Muhammad Nawaz**  
Focal Person for Foreign Students  
[muhhammad.nawaz@uvas.edu.pk](mailto:muhhammad.nawaz@uvas.edu.pk)

# FACULTY OF VETERINARY SCIENCE (FVS)

Doctor of Veterinary Medicine (DVM), BS (Applied Microbiology), BS (Medical Laboratory Technology)(MLT)



## Dean's Message

From the core of my heart, I welcome and appreciate the candidate students of discipline of veterinary science, applied microbiology and medical laboratory technology. This institution has a long history of over 142 years. It rose from a Veterinary School to a College and ultimately to a faculty of the University in 2002. We are serving the livestock, poultry, all other relevant industries, labs, and research institutions with cooperation of Government of the Punjab and meeting technical and scientific requirements of Pakistan in areas of veterinary and microbiology education and research. Our undergraduate students come from all provinces of Pakistan and even from neighboring countries.

We are proud of the outstanding achievements by our under graduates and postgraduates who are bringing recognitions to themselves and Faculty of Veterinary Science (FVS), UVAS, both at national and international levels. The FVS is a Regular Member of AAVS. Our Faculty is also a hub of globally recognized research programs.

Applied Research is conducted in internationally accredited (ISO 17025 certified) University Diagnostic Lab (UDL), Quality Operations Lab of Institute of Microbiology, in the institute it self and in all six departments: Pathology, Parasitology, Veterinary Medicine, Surgery and Pet Sciences, Theriogenology (Animal Reproduction), Epidemiology & Public Health research, covering multiple animal species is conducted. Modern research facilities have been developed with heavy funding from national and international donors to ensure cutting edge research and training programs. The FVS is striving hard for making outstanding record in teaching, research and clinical services. Our world-class clinical services provided by teaching hospitals are for care of companion animals, wildlife, dairy animals, horses and poultry. These facilities also allow us to train the next generation of professionals. A Clinical Centrum at Ravi Campus, Pattoki having state-of-the-art facilities, is fully functional. Moreover, UVAS has meat processing section, feed mill and livestock (local and exotic herds), poultry (broiler, layer, breeder and hatchery) and fish (ponds and hatchery), whereas, with the financial help of Govt. of the Punjab, UVAS has established a biological production and training centre at Ravi Campus. For production of high quality biological products, the centre is housed with state-of-the-art bio-fermenters, bioreactors, etc. Central Lab Complex facilities have been developed at Ravi Campus. HEC Islamabad is also helping UVAS in establishing Livestock Technology Transfer Centre. These facilities are futuristic and will further strengthen the capabilities of UVAS to impart hands-on training to our graduates and uplift livestock and poultry sectors in CPEC scenario.

We are dedicated to train our graduates with latest technologies who are career-ready and skilled in establishing business or clinical practice for their success in professional life. For more excellence and improvement in veterinary education, we are following multi-pronged strategies: 1) Implemented a recently developed national curriculum which has been compliant with evolving local societal and global needs as per OIE/ World Organization for Animal Health, Day 1 Veterinary Graduates core competencies promoting One Health, bio-risk management and animal welfare 2) Changed admission policy for DVM admission attracting more focused students, 3) Interacting more with students during their studies and 4) sharing educational resources to reduce the intellectual learning period. We are quite confident that with these interventions our graduates would continue to emerge as professional leaders.

Thank you for taking interest in our DVM, BS (Hons.) Applied Microbiology and MLT degree programs. Please feel free to contact me or my staff in case of any query.



**Meritorious Prof. Dr. Muhammad Younus Rana (DLAI.T.I.)**

**Ph.D., Post Doc. (USA)**

Dean, FVS

# FACULTY OF VETERINARY SCIENCE

## DEPARTMENT OF VETERINARY MEDICINE

### Chairperson / Professor:

Prof. Dr. Muhammad Ijaz, Ph.D. (Tenured) Post Doc

### Professors:

Prof. Dr. Aneela Zameer Durrani, Ph.D. (Tenured) Post Doc

Prof. Dr. Muhammad Hassan Saleem, Ph.D.

Prof. Dr. Muhammad Awais, Ph.D. (Tenured)

Prof. Dr. Jawaria Ali Khan, Ph.D.

### Assistant Professors:

Dr. Mhammad Usman, Ph.D. (IPFP)

### Lecturers:

Dr. Zahid Iqbal, Ph.D.

Dr. Arsalan Ahmed, Ph.D.

## DEPARTMENT OF THERIOGENOLOGY

### Chairman / Associate Professor:

Dr. Muhammad Irfan-ul-Rehman Khan, Ph.D. (Tenured)

### Professors:

Prof. Dr. Amjad Riaz, Ph.D. (Tenured)

Prof. Emeritus Dr. Nasim Ahmed (S.I.)

### Assistant Professors:

Dr. Aijaz Ali Channa, Ph.D.

### Lecturers:

Dr. Muhammad Usman Mehmood, Ph.D.

Dr. Ali Hussnain, Ph.D.

Dr. Abdul Rehman, Ph.D.

Mr. Muhammad Yaseen, M.Phil (on study Leave)

## DEPARTMENT OF PARASITOLOGY

### Chairman / Professor:

Prof. Dr. Kamran Ashraf, Ph.D.

### Professors:

Prof. Dr. Muhammad Imran Rashid, Ph.D.

Prof. Dr. Mian Abdul Hafez, Ph.D., Post Doc (Tenured)

Prof. Dr. Haroon Akbar Ph.D. (Tenured)

### Assistant Professor:

Dr. Muhammad Oneeb, Ph.D.

## DEPARTMENT OF PATHOLOGY

### Chairman / Professor:

Prof. Dr. Asim Aslam, Ph.D., Post Doc

### Professors:

Prof. Dr. Muhammad Yasin Tipu Malik, Ph.D.

Prof. Dr. Muti-ur-Rehman Khan, Ph.D. (Tenured)

Prof. Dr. Raheela Akhtar, Ph.D. (Tenured)

### Associate Professors:

Dr. Gulbeena Saleem, Ph.D.

### Assistant Professors:

Dr. M. Saeed Imran, Ph.D.

Dr. Hafiza Qamar-un-Nisa, Ph.D.

Dr. Muhammad Suleman, Ph.D. (TTS)

### Lecturers:

Dr. Ghulam Mustafa, Ph.D.

Mr. Adeem Rehman Rafiq, M.Phil

## INSTITUTE OF MICROBIOLOGY (IOM)

### Director:

Prof. Dr. Aftab Ahmad Anjum, Ph.D. (Tenured)

### Professors:

Prof. Emeritus Dr. Masood Rabbani, (IF)Ph.D.

Prof. Emeritus Dr. Tahir Yaqub, Ph.D., Post Doc

Prof. Dr. Aamir Ghafoor, Ph.D.

Prof. Dr. Ali Ahmad Sheikh, Ph.D. (Tenured)

Prof. Dr. Arfan Ahmad, Ph.D. (Tenured)

Prof. Dr. Muhammad Nawaz, Ph.D. (Tenured)

Prof. Dr. Muhammad Zubair Shabbir, Ph.D. (Tenured)

### Associate Professors

Dr. Imran Altaf, Ph.D. (Tenured)

Dr. Mateen Abbas, Ph.D.

Dr. Fareeha Akhtar, Ph.D.

Dr. Muhammad Asad Ali, Ph.D.

### Assistant Professors

Dr. Shahan Azeem, Ph.D.

Dr. Rabia Tanvir, Ph.D. (TTS)

Dr. Sohail Raza, Ph.D. Post Doc.(TTS)

Dr. M. Abu Bakar Shabbir, Ph.D. (TTS)

Dr. Noreen Sarwar, Ph.D. (TTS)

Dr. M. Adnan Ashraf, Ph.D. (TTS)

Dr. Nadia Mukhtar, Ph.D. (TTS)

Dr. Rida Haroon Durrani, Ph.D. (IPFP)

### Lecturers

Dr. Muhammad Imran Najeeb, Ph.D.

Dr. Hassaan Bin Aslam, Ph.D.

Dr. M. Illyas Riaz, Ph.D.

Ms. Noor-Ul-Hudda, M.Phil

Dr. Abdul Muqet Khan, Ph.D.

Hafiz Muhammad Khalid Mahmood, M.Phil

## DEPARTMENT OF EPIDEMIOLOGY & PUBLIC HEALTH

### Chairman / Professor:

Prof. Dr. M. Hassan Mushtaq, Ph.D. (Tenured)

### Professor:

Prof. Dr. Mamoon Chaudhry, Ph.D. (Ex-Pakistan Leave)

### Associate Professors:

Dr. Abdul Rehman, Ph.D. (TTS)

### Lecturer:

Dr. Shakeera Sadiq, Ph.D.

Dr. Furqan Awan, Ph.D.

Mr. Ubaid-ur-Rehman Zia, M.Phil (On Study Leave)

## DEPARTMENT OF VETERINARY SURGERY

### Chairman / Associate Professor:

Dr. Ayesha Safdar Ch., Ph.D.

### Associate Professor:

Dr. Hamad Bin Rashid, Ph.D. (Ex-Pakistan Leave)

### Assistant Professors:

Dr. Sadaf Aslam, Ph.D. (TTS)

Dr. Hamid Akbar, Ph.D.

### Lecturers:

Dr. Naveed Hussain, Ph.D.

Dr. Kashif Maan, Ph.D.

## DEPARTMENT OF SMALL ANIMAL CLINICAL SCIENCES

### Chairperson:

Prof. Dr. Aneela Zameer Durrani, Ph.D.

### Associate Professors:

Dr. Uzama Fareed Durrani, Ph.D.

Dr. Shehla Gul Bukhari, Ph.D. (TTS)

### Lecturers:

Dr. M. Zia Ullah, Ph.D.

Mr. M. Afan Shahid, M.Phil (On Study Leave)

Dr. Muhammad Waqas, Ph.D.

Dr. Syed Muhammad Faheem Ahmad, Ph.D.

Mr. Muhammad Awais, Ph.D. (Scholar)

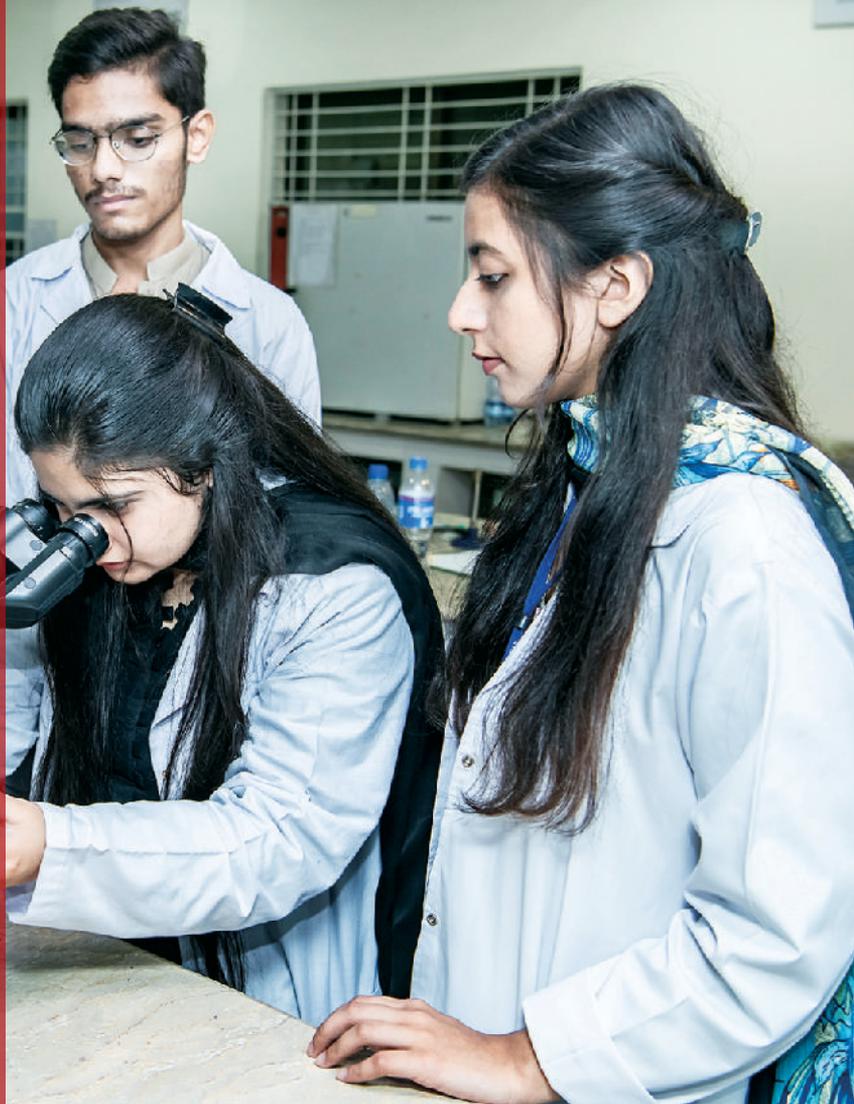
Mr. Zain Khalid, M.Phil

Mr. Muhammad Imran, Ph.D. (Scholar)



**The expert in any thing was once a beginner  
and beginner has to take the stairs  
to reach the heights**

# UVAS has First Disease Diagnostic Lab, Internationally Accredited In Livestock and Poultry Sector of Pakistan



## **Veterinary Teaching, Research & Clinical Facilities:**

This Animal hospital is the oldest clinical hospital of Asia established in 1882. With the establishment of UVAS in 2002, the dog hospital has been upgraded as Pet centre. The centre has been provided with the latest equipment like electric Cautery, Portable X-ray unit, Hydraulic table, Cardiac Monitor, Infusion Pump, Ultrasound machine, Ultrasonic dental scalar for the diagnosis and treatment of various ailments in pets. All types of medicinal cases and soft tissue and hard tissue surgeries are performed. Pet animals are admitted in well aerated rooms where the patients are looked after for 24 hours by animal physicians and surgeons. Well established clinics for large animals are also available at city campus i.e. outdoor hospital, surgery clinic, reproduction clinic and outreach clinic. Two large animal clinics and one pet training centre are established at Ravi Campus, Pattoki for practical training of students. Hundreds of diseased animals are treated every day at these hospitals. The University has a postmortem block which is fully equipped with advanced units i.e. Hydraulic table, Audio Visual Facilities, Incinerator, Cold Rooms, Freezer, Histopathology Lab. and Lecture room. These are among the best teaching facilities with unique training opportunities in the country.

## **University Diagnostic Laboratory (UDL) (Accredited Lab ISO/IEC 17025)**

University Diagnostic Lab (UDL) is serving the country with a vision to enhance the economic strength by encouraging healthy poultry and livestock sectors. The lab aims to improve the life quality of companion animals, enhancing the safety of animals, protecting wildlife resources through disease diagnostics & control and promotion of awareness towards understanding of animal diseases.

## **Quality Operations Lab (QOL) (Accredited Lab ISO/IEC 17025)**

This is one of the advanced quality testing laboratory with state-of-the-art facilities developed at the university. Quality Operations Laboratory tests the quality of foods of animal and plant origin, not only to meet the requirements of international trade but also to help local market & needs of the country. Testing of mycotoxins, drug residues, pesticides, insecticides etc in the food is done. The lab also sells a kit for testing milk adulterants. Students of the university also conduct their research in this lab.

## **Pet Centre**

Pet Centre is one of the oldest Teaching Hospital of Asia established in 1882 as Dog Hospital upgraded to Pet Centre with up gradation of the college to University in 2002. Before this new setup, the dog hospital had been engaged to provide indoor & outdoor treatment facilities to the dogs and cats. At present the treatment and advisory facilities have been extended to all Pet & Wild animals and birds. The strength of the technical staff has also been increased to cope up with the number of the patients brought to the

hospital for treatment. The centre is working under the supervision of six staff members specialized in this particular area. With this provision the centre is working round the clock for the welfare of the patients and convenience of the pet owners. The centre has been equipped with modern facilities for medicine and surgery including diagnostics and emergency care.

## **Facilities Available**

- Hospital Services available 24/7
- Soft Tissue Surgery
- Hard tissue Orthopedic Surgery
- Digital Radiography (X-rays)
- Endoscopy (Gastro-duodenoscopy)
- Ultrasonography
- Veterinary Diagnostic Laboratory
- Chemotherapy of Cancer Patients
- Emergency and Critical Care
- Indoor Admission Facility for Dogs
- Admission facility for cats
- Pet's grooming services
- Ticks Control Program
- Pet Owner Education programs through Electronic and Print media

## **Pet Breeding, Training & Research Centre**

- Various Dog Breeds available for Sale
- Services available for Basic Obedience Training of Dogs
- Services available for Arms and Explosives Sniffer Training of Dogs
- Services available for Tracker Training of Dogs
- Stud Dogs are also available





## Doctor of Veterinary Medicine (DVM)

Historically, academic activity was started in 1882 in this institution, which was then named as Veterinary School which was probably the first of its kind in the region. By the end of 19th century, the institution was raised to the status of Punjab Veterinary College. The name of degree program also varied between B.V.Sc. and B.Sc. (A.H.). The College was affiliated with the University of the Punjab in year 1942, and then with the University of Agriculture, Faisalabad in 1971 with the name of College of Veterinary Sciences, Lahore. In 2002, the College was upgraded to the status of University of Veterinary and Animal Sciences, Lahore-Pakistan.

Existing 5-year DVM composite degree program was recommended and approved by Pakistan Veterinary Medical Council and enjoys support of Higher Education Commission, Islamabad. Aim of this revised degree was to prepare a graduate whose skills meet the needs of private and public sectors, livestock farmers, stake holders and other employment providers. Another perspective for revision of curricula was to meet the international standards as a large number of our graduates opt for international graduate schools and licensing examinations.

The program consists of pre-clinical, clinical and livestock management related courses compliant with OIE guidelines on Day 1 Core Competencies of veterinary graduates, promoting one health concept and meeting our local societal needs. The scheme of courses is designed in such a way that the students will spend first six semesters at City Campus to study pre-clinical and veterinary courses. Next three semesters are offered at Ravi Campus, Pattoki, where there is more focus on livestock and poultry management related courses as well as Medicine, Surgery and Animal Reproduction clinics. To expose our DVM graduates to real world field situations and challenges and to enhance their professional skills and competencies, last 10th semester mainly consists of very extensive internship program.

The DVM degree enables the graduates to manage livestock and poultry farms and deal with all kinds of clinical situations and emergencies. Successful graduates can get employment in diverse area of fields related directly and indirectly in animal agriculture sector mainly in Livestock & Dairy Development Departments of all

provinces of Pakistan. The public sector placements mainly include those in Veterinary Hospitals, Disease Diagnostic Labs, Breed Improvement, Livestock Farms, Extension Services, and Research Directorates. Some of them join the academia and others decide to go abroad. Numerous graduates from UVAS are now practicing vets in North America and other developed countries. UVAS veterinary graduates also serve as commissioned officers in Pakistan Army (RV&FC) and Rangers. Various national and multinational dairy and poultry companies and NGOs look forward with exciting packages to hire vet graduates for their agro-livestock services, farms and processing plants. In short, this is a unique professional degree which enables the graduate to choose from a multitude of options and build an exciting career.

Moreover, for further improvement of veterinary education, UVAS in collaboration with the university of Melbourne, Australia is undergoing formal twinning project between two institutions. OIE is ready to provide an oversight and review of the project. The twinning project will help support capacity building of the faculty for its future accreditation with AVMA-CoE.

Similarly, over a dozen of our faculty members have got enrolled with Royal Veterinary College, London, UK, for online one year postgraduate diploma course in veterinary education. With this trained manpower UVAS is planning to initiate M.Sc. degree program in veterinary education. This program would be unique in this part of the world as no veterinary institution in this region is offering such program.

## Scheme of Studies for Doctor of Veterinary Medicine (DVM)

COURSE NO	COURSE TITLE	CREDIT HOURS
<b>SEMESTER ONE</b>		
ANAT-02101	Veterinary Anatomy – I	3 (1-2)
ANAT-02102	General Veterinary Histology	2 (1-1)
PHYS-02103	Veterinary Physiology-I	3(2-1)
BIOC-02104	Biochemistry	4(3-1)
LPRO-02105	Fundamentals of Livestock Production	2(1-1)
ENGL-02106	English- I (Functional English)	2 (2-0)
SOSC-02107/ SOSC-02108	Holy Quran Translation / Ethics	Audit Course
	<b>TOTAL</b>	<b>16(10-6)</b>
<b>SEMESTER TWO</b>		
ANAT-02201	Veterinary Anatomy-II	3(1-2)
ANAT-02202	Systemic Veterinary Histology and Embryology	3(2-1)
PPRO-02203	Introduction to Poultry Production	1(1-0)
PHYS-02204	Veterinary Physiology-II	4(3-1)
MICR-02205	General Veterinary Microbiology	3(2-1)
LPRO-02206	Animal Welfare and Ethics	2(2-0)
SOSC-02207	English-II (Communication Skills)	2(2-0)
SOSC-02208	Islamic Studies/Ethics	1(1-0)
MICR-02209	Biorisk Management (BRM)	2(1-1)
	<b>TOTAL</b>	<b>21(15-6)</b>
<b>SEMESTER THREE</b>		
PHRM-02301	General and Systemic Pharmacology	4(3-1)
PATH-02302	General Veterinary Pathology	3(2-1)
PARA-02303	General Veterinary Parasitology and Protozoology	3(2-1)
SOSC-02304	Anthropology	1 (1-0)
MICR-02305	Veterinary Immunology	2(1-1)
MICR-02306	Molecular Biology	2(1-1)
STCS-02307	Bio-statistics	3(2-1)
CEDU-02308	Livestock Extension Education	2 (2-0)
	<b>TOTAL</b>	<b>20(14-6)</b>
<b>SEMESTER FOUR</b>		
PHRM-02401	Veterinary Chemotherapy & Toxicology	4(3-1)
PATH-02402	Systemic Veterinary Pathology	3(2-1)
PARA-02403	Veterinary Helminthology	4(3-1)
MICR-02404	Veterinary Bacteriology & Mycology	3(2-1)
STCS-02405	Mathematics	2(2-0)
LEBM-02406	Livestock Economics And Business Management	2(2-0)
EPPH-02407	Zoonoses and Food Safety	3(2-1)
	<b>TOTAL</b>	<b>21(16-5)</b>
<b>SEMESTER FIVE</b>		
THER-02501	Veterinary Reproductive Physiology	3(2-1)
CLMS-02502	Veterinary Internal Medicine-I	4(3-1)
CLMS-02503	Anaesthesiology and Intensive Care	1(0-1)
PATH-02504	Veterinary Clinical Pathology	1(0-1)
PARA-02505	Veterinary Entomology and Acarology	3(2-1)
MICR-02506	Veterinary Virology	3(2-1)
EPPH-02507	Veterinary Epidemiology and Public Health	3(2-1)
CLMS-02508	Large Animal Surgery and Shoeing	4(3-1)
	<b>TOTAL</b>	<b>22(14-8)</b>

<b>SEMESTER SIX</b>		
CLMS-02601	Medicine Clinic-I	1(0-1)
CLMS-02602	Surgery Clinic – I	1(0-1)
THER-02603	Theriogenology Clinic – I	1(0-1)
PATH-02604	Poultry Pathology	3(2-1)
THER-02605	Obstetrics and Genital Diseases	3(2-1)
CLMS-02606	Veterinary Internal Medicine-II	3(3-0)
SOSC-02607	Pakistan Studies	1(1-0)
CLMS-02608	Small Animal Surgery	3(2-1)
CLMS-02609	Diagnostic Imaging	2(1-1)
PATH-02610	Meat Inspection & Necropsy Practice	3(2-1)
SACS-02611	Small Animal Clinic-I	1(0-1)
	<b>TOTAL</b>	<b>22(13-9)</b>
<b>SEMESTER SEVEN</b>		
THER-02701	Reproductive Biotechnology	2(2-0)
THER-02702	Theriogenology Clinic – II	1 (0-1)
CLMS-02703	Surgery Clinic – II	1(0-1)
CLMS-02704	Medicine Clinic-II	1(0-1)
CLMS-02705	Veterinary Internal Medicine-III	3(3-0)
PPRO-02706	Commercial Poultry Production	2(1-1)
WECO-02707	Lab and Zoo Animal Management	1 (0-1)
LPRO-02708	Animal Breeding and Genetics – I	2(1-1)
AQFS-02709	Fisheries and Aquaculture	1(0-1)
NUTR-02710	Principles of Animal Nutrition	3(2-1)
	<b>TOTAL</b>	<b>17(09-8)</b>
<b>SEMESTER EIGHT</b>		
CLMS-02801	Medicine Clinic III	2(0-2)
CLMS-02802	Surgery Clinic III	2(0-2)
THER-02803	Theriogenology Clinic III	2(0-2)
LPRO-02804	Beef and Mutton Production	2(1-1)
LPRO-02805	Animal Breeding and Genetics – II	3(2-1)
PPRO-02806	Breeder and Hatchery Management	3(2-1)
NUTR-02807	Livestock Feed Resources and Forage Conservation	3(2-1)
	<b>TOTAL</b>	<b>17(7-10)</b>
<b>SEMESTER NINE</b>		
CLMS-02901	Medicine Clinic-IV	2(0-2)
CLMS-02902	Surgery Clinic – IV	2(0-2)
THER-02903	Theriogenology Clinic – IV	2(0-2)
APTC-02905	Dairy Technology	2(1-1)
LPRO-02906	Principles of Dairy Production	3(2-1)
NUTR-02907	Poultry Nutrition & Feed Technology	2(1-1)
LEBM-02908	Entrepreneurship	1(0-1)
	<b>TOTAL</b>	<b>14(4-10)</b>
<b>SEMESTER TEN</b>		
SOSC-021001	English- III (Technical Report Writing and Presentation)	2 (2-0)
DVMI-021002	INTERNSHIP	
	<b>TOTAL</b>	<b>2 (2-0)</b>
	<b>GRAND TOTAL</b>	<b>172(104-68)</b>



## Institute of Microbiology (IOM)

### **BS Applied Microbiology**

This degree primarily focuses on the pathogenic potential of the microbes that cause diseases in human and animals. This program covers different aspects of the physiology, biochemistry, and genetics of the microorganisms. Recent advances in molecular biology helped us explore the disease process at molecular level. To benefit the human and animal health as a slogan of 'One World One Health, we train our students in veterinary medical and food microbiology, environmental microbiology, pharmaceutical microbiology. We take pride in training our graduates in state-of-the-art facilities for biologics production (vaccines, diagnostics and probiotics).

## Scheme of Studies for BS (Applied Microbiology)

Course Code	Course Title	Credit Hours
<b>SEMESTER ONE</b>		
MICR-05101	Fundamentals of Microbiology	4(3-1)
MICR-05102	Cell Biology	4(3-1)
STCS-05103	Applications of Information and Communication Technologies (ICT)	3(2-1)
SOSC-05104	Functional English	3(3-0)
STCS-05105	Biomathematics	3(3-0)
SOSC-05106/ SOSC05107	Islamic Studies / Ethics	2(2-0)
SOSC-05108/ SOSC-05109	Holy Quran Translation / Ethics	Audit course
<b>Sub Total</b>		<b>19(16-3)</b>
<b>SEMESTER TWO</b>		
MICR-05201	Introduction to Mycology	2(1-1)
MICR-05202	Basic Immunology	3(2-1)
MICR-05203	General Virology	3(2-1)
BTNY-05204	Biodiversity of Plants	3(2-1)
BIOC-05205	Principles of Biochemistry	3(2-1)
SOSC-05206	Expository Writing	3(3-0)
SOSC-05207/ SOSC-05208	Ideology and Constitution of Pakistan	2(2-0)
<b>Sub Total</b>		<b>19(14-5)</b>
<b>SEMESTER THREE</b>		
MICR-05301	Introduction to Cell Culture	3(2-1)
MICR-05302	Bacterial Cell Physiology	4(3-1)
ZOOL-05303	Biodiversity of Animals	3(2-1)
STCS-05304	Biostatistics	3(3-0)
SOSC-05305	Arts and Humanities*	2(2-0)
SOSC-05306	Sociology	2(2-0)
<b>Sub Total</b>		<b>17(14-3)</b>
<b>SEMESTER FOUR</b>		
MICR-05401	Fundamentals of Microbial Genetics	3(2-1)
MICR-05402	Antimicrobial Resistance & Probiotics	3(2-1)
MICR-05503	Biorisk Management (Biosafety & Biosecurity)	3(2-1)
PARA-05404	Clinical Parasitology	3(2-1)
DEBM-05405	Entrepreneurship	2(2-0)
SOSC-05406	Civics and Community Engagement	2(2-0)
BIOT-05407	Biotechnology (Minor)	4(3-1)
<b>Sub Total</b>		<b>20(15-5)</b>

<b>SEMESTER FIVE</b>		
MICR-05501	Veterinary Bacteriology	4(3-1)
MICR-05502	Applied Immunology	3(2-1)
MICR-05503	Soil Microbiology	3(2-1)
MICR-05504	Food Microbiology	4(3-1)
BIOT-05507	Basic Bioinformatics (Minor)	2(1-1)
<b>Sub Total</b>		<b>16(11-5)</b>
<b>SEMESTER SIX</b>		
MICR-05601	Medical Microbiology	4(3-1)
MICR-05602	Systemic Virology	3(2-1)
MICR-05603	Environmental Microbiology	3(2-1)
MICR-05604	Industrial Microbiology	3(2-1)
PATH-05605	Clinical Pathology	3(2-1)
BIOT-05606	Genomics & Proteomics (Minor)	3(3-0)
<b>Sub Total</b>		<b>19(14-5)</b>
<b>SEMESTER SEVEN</b>		
MICR-05701	Pharmaceutical Microbiology	4(3-1)
MICR-05702	Vaccinology	3(2-1)
MICR-05703	Clinical Microbiology	3(2-1)
MICR-05704	Marine and Fresh Water Microbiology	3(2-1)
EPPH-05705	One Health	3(2-1)
BIOT-05708	Health Biotechnology (Minor)	3(3-0)
<b>Sub Total</b>		<b>19(14-5)</b>
<b>SEMESTER EIGHT</b>		
MICR-05801	Capstone Project	3(0-3)
MICR-05802	Internship	3(0-3)
MICR-05803	Emerging Issues in Microbiology	2(2-0)
<b>Sub Total</b>		<b>8(2-6)</b>
<b>Grand Total</b>		<b>137(100-37)</b>

*The program is offered as Single Major with One Minor. The Minor is in the discipline of Biotechnology.*

\*This is a broader category within General Education Courses. The definitive course title will be available at the time of enrollment.



**The goal of this program is to develop skilled human resource that can serve in the human diagnostic laboratories as well as in the research institutions**

#### **BS Medical Laboratory Technology**

Medical Laboratory Technology is the study of sciences related to laboratory analysis of samples from healthy and diseased individuals. In addition to taught courses such as histology, histopathology, hematology, clinical microbiology, parasitology and pathology, laboratory instrumentations, molecular diagnostics, forensic pathology, etc. The students will learn skills essential for performing practical work in the laboratories. This 4-years undergraduate degree program will provide trained human resource to serve in medical diagnostics and research laboratories as well as academic institutions. The institute is equipped with the state-of-the-art laboratories including a Biosafety Level 3 Laboratory for Emerging Pathogens approved from Punjab Health Care Commission for Covid-19 PCR Testing.

## Scheme of Studies BS (Medical Laboratory Technology)

Course Code	Course Title	Credit Hours
<b>SEMESTER ONE</b>		
MDLT-26101	Fundamentals of Microbiology	4(3-1)
MDLT-26102	Human Anatomy	3(2-1)
MDLT-26103	Human Histology	3(2-1)
STCS-26104	Applications of Information and Communication Technologies (ICT)	3(2-1)
SOSC-26105	Functional English	3(3-0)
SOSC-26106/ SOCS-26107	Islamic Studies / Ethics	2(2-0)
SOSC-26108/ SOSC-26109	Holy Quran Translation / Ethics	Audit course
<b>Sub Total</b>		<b>18(14-4)</b>
<b>SEMESTER TWO</b>		
MDLT-26201	Cell Biology	4(3-1)
PHYS-26202	Human Physiology	3(2-1)
BIOC-26203	Principles of Biochemistry	3(2-1)
STCS-26204	Biomathematics	3(3-0)
SOSC-26205	Ideology and Constitution of Pakistan	2(2-0)
SOSC-26206	Expository Writing	3(3-0)
<b>Sub Total</b>		<b>18(15-3)</b>
<b>SEMESTER THREE</b>		
PATH -26301	General Pathology	3(2-1)
MDLT-26302	Immunology	3(2-1)
PATH -26303	Hematology	3(2-1)
PHRM-26304	General Pharmacology and Chemotherapy	3(2-1)
STCS-26305	Biostatistics	3(3-0)
SOSC-26306	Arts and Humanities*	2(2-0)
SOSC-26307	Sociology	2(2-0)
<b>Sub Total</b>		<b>19(15-4)</b>
<b>SEMESTER FOUR</b>		
MDLT-26401	Clinical Virology	3(2-1)
PATH -26402	Systemic Pathology	3(2-1)
BIOT-26403	Human Genetics	3(2-1)
EPPH-26404	One Health	3(2-1)
DEBM-26405	Entrepreneurship	2(2-0)
SOSC-26406	Civics and Community Engagement	2(2-0)
MICR-26407	Bacterial Cell Physiology (Minor)	4(3-1)
<b>Sub Total</b>		<b>20(15-5)</b>

<b>Sub Total</b>		<b>20(15-5)</b>
<b>SEMESTER FIVE</b>		
MDLT-26501	Medical Microbiology	4(3-1)
PARA-26502	Clinical Parasitology	3(2-1)
PATH -26503	Clinical Pathology	3(2-1)
PATH -26504	Blood Disorder	3(2-1)
MDLT-26505	Biorisk Management (Biosafety & Biosecurity)	3(2-1)
BIOT-26506	Basic Bioinformatics	2(1-1)
MICR-26509	Introduction to Mycology (Minor)	2(1-1)
<b>Sub Total</b>		<b>20(13-7)</b>
<b>SEMESTER SIX</b>		
MDLT-26601	Medical Laboratory Instrumentations	3(2-1)
MDLT-26602	Clinical Bacteriology	3(1-2)
MDLT-26603	Molecular Diagnostics	3(2-1)
PATH -26604	Chemical & Forensic Pathology	3(2-1)
PATH -26605	Cytology and Cytogenetics	3(2-1)
MICR-26706	Introduction to Cell Culture (Minor)	3(2-1)
<b>Sub Total</b>		<b>18(11-7)</b>
<b>SEMESTER SEVEN</b>		
MDLT-26701	Medical Laboratory Management Skills	3(2-1)
PATH -26702	Blood Banking	3(2-1)
BIOT-26703	Biotechnology	4(3-1)
BIOT-26704	Bioethics	2(1-1)
MICR-26707	Vaccinology (Minor)	3(2-1)
<b>Sub Total</b>		<b>15(10-5)</b>
<b>SEMESTER EIGHT</b>		
MDLT-26801	Capstone Project	3(0-3)
MDLT-26802	Internship	3(0-3)
MDLT-26803	Advances in Medical Laboratory Technology	3(2-1)
<b>Sub Total</b>		<b>09(2-7)</b>
<b>Grand Total</b>		<b>137(95-42)</b>

*The program is offered as Single Major with One Minor. The Minor is in the discipline of Microbiology.*

\*This is a broader category within General Education Courses. The definitive course title will be available at the time of enrollment.





**College of  
Veterinary  
& Animal  
Sciences,  
Jhang  
(CVAS)**

### **Principal's Message**

It is a matter of immense pleasure and pride for me to welcome to the College of Veterinary and Animal Sciences, Jhang which is located 12 Km away from the city on Chiniot road. It comprises two stretch of lands 3 Km apart. First piece of land, comprising 75 acres, have main academic, administrative block, two boys hostel and one girls hostel, post mortem block spacious grassy lawns, different play grounds, residential colony, network of metal roads, well-furnished labs, principal office, auditorium, library, PERN equipped IT lab, student-teacher center, clinical block, out-door teaching hospital, central mosque, experimental sheds including poultry and livestock, free range poultry shed and layer poultry shed, functional meat technology section, horse riding/training club, well equipped labs of different departments. It is worth mentioning that this college has first ever well-equipped and well-furnished ORIC, UVAS BSL

(biosafety level) -II plus certified Epidemiology and Public Health lab that is providing the diagnostic facilities of zoonotic diseases. Second piece of land consists of 25 acres that has functional poultry farm, dairy farm and sheep/ goat fattening sheds for the training of budding veterinarians. This college has highly qualified teachers in different disciplines to impart the quality education to the students. There are five departments in this college namely Department of Clinical Sciences, Department of Pathobiology, Department of Animal Sciences, Department of Basic Sciences and Department of Social Sciences. It is also pertinent to mention that veterinary teaching hospital, which belongs to Department of Clinical Sciences is providing the diagnostic (free of cost), treatment and preventive services to the animals of livestock stakeholders in addition to extension ambulatory services. Against this backdrop, I invite you all for taking admission to this prestigious institution to serve the country by becoming veterinarians with blood and intellect.

**Prof. Dr. Ihtasham Khan**

Principal

College of Veterinary & Animal Sciences, Jhang

# FACULTY AT CVAS JHANG

## DEPARTMENT OF CLINICAL SCIENCES

### SECTION OF VETERINARY MEDICINE

#### Associate Professors

Dr. Farhan Ahmad Atif, Ph.D.

Dr. Amar Nasir, Ph.D. (Tenured)

#### Assistant Professor

Dr. Muhammad Kashif, Ph.D.

### SECTION OF VETERINARY SURGERY & RADIOLOGY

#### Assistant Professor

Dr. Sayyed Aun Muhammad, Ph.D.

#### Lecturer

Ms. Farah Ijaz, M.Phil

Mr. Abdul Mateen

### SECTION OF THERIOGENOLOGY

#### Associate Professors

Dr. Abid Hussain Shahzad, Ph.D.

#### Assistant Professor

Dr. Mubbashar Hassan, Ph.D.

Dr. Ahmad Yar Qamar, Ph.D.

#### Lecturers

Dr. Sanan Raza, Ph.D.

Mr. Muhammad Ilyas Naveed, (Ph.D study Leave)

### SECTION OF EPIDEMIOLOGY & PUBLIC HEALTH

#### Professor

Prof. Dr. Iahasham Khan, Ph.D.

#### Assistant Professors

Dr. Muhammad Farooq, Ph.D.

### DEPARTMENT OF PATHOBIOLOGY

#### Professor

Prof. Dr. Syed Ehtisham-ul-Haque, Ph.D.

### SECTION OF PATHOLOGY

#### Associate Professors

Dr. Ishtiaq Ahmed, Ph.D.

#### Assistant Professors

Dr. Muhammad Sajid, Ph.D.

Dr. Aziz ur Rehman, Ph.D.

#### Lecturers

Mr. Muhammad Kamran Rafique, M.Phil

### SECTION OF MICROBIOLOGY

#### Professor

Prof. Dr. Syed Ehtisham-ul-Haque, Ph.D.

#### Associate Professors

Dr. Usman Waheed, Ph.D. (Ex-Pak Leave)

#### Assistant Professors

Dr. Bakhtawar Maqbool Ph.D (HEC-IPFP)

Dr. Amina Habib Ph.D (HEC-IPFP)

#### Lecturers

Mr. Muhammad Adnan Saeed, M.Phil (Ph.D study Leave)

### SECTION OF PARASITOLOGY

#### Professor

Prof. Dr. Muhammad Fiaz Qamar, Ph.D.

Prof. Dr. Muhammad Arfan Zaman, Ph.D. Post Doc( Tenured)

#### Lecturer

Mr. Kazim Ali, M.Phil(Ex-Pak Leave)

## DEPARTMENT OF BASIC SCIENCES

### SECTION OF ANATOMY & HISTOLOGY

#### Assistant Professors

Dr. Abdul Rehman Ansari, Ph.D. (TTS)

Dr. Arbab Sikandar, Ph.D. (TTS)

#### Lecturers

Dr. Komal Khan, Ph.D.

Ms. Rabia Tamkeen, M.Phil (study Leave)

### SECTION OF PHYSIOLOGY & BIO CHEMISTRY

#### Associate Professor

Dr. Muhammad Arshad, Ph.D. (Tenured)

#### Assistant Professors

Dr. Mazhar Abbas Ph.D.

Dr. Shaista Abbas, Ph.D.

#### Lecturer

Dr. Sidra Ashraf, Ph.D.

### SECTION OF PHARMACOLOGY & TOXICOLOGY

#### Associate Professor

Dr. Tariq Hussain, Ph.D. (TTS)

#### Assistant Professors

Dr. Muhammad Adil, Ph.D.

## DEPARTMENT OF ANIMAL SCIENCES

### SECTION OF ANIMAL NUTRITION

#### Associate Professor

Dr. Abdur Rahman, Ph.D. Post Doc

#### Assistant Professors

Dr. Mubarak Mahmood, Ph.D. (TTS)

Dr. Muawuz Ijaz, Ph.D

#### Lecturers

Dr. Muhammad kashif Yar, Ph.D

Ms. Sadia Khanum M.Sc. (Hons)(study Leave)

### SECTION OF ANIMAL BREEDING & GENETICS

#### Assistant Professors

Dr. Akhtar Rasool Asif, PhD (TTS)

Dr. Asghar Hussain, Ph.D.

#### Lecturers

Mr. Ali Haider Saleem, M.Phil (Ex-Pak Leave)

Dr. Muhammad Zahid Farooq, Ph.D

Mr. Aftab Hussain, M.Phil (Study Leave)

### SECTION OF POULTRY PRODUCTION

#### Assistant Professors

Dr. Yassar Abbas, Ph.D.

#### Lecturers

Ms. Kanwal Rafique, M.Phil (Study Leave)

## DEPARTMENT OF SOCIAL SCIENCES

#### Lecturers

Mr. M. Abdul Ayaz Khan, M.Phil

Ms. Sidra Jamil, M.Phil

Dr. Amir Mahboob, Ph.D

## UG Degree Programs offered at Jhang Campus:

1- DVM

2- BS (Applied Microbiology)

3- BS (Biological Sciences)

4- BS (Zoology)

5- BS (Medical Laboratory Technology)

6- BS (Biotechnology)



**Khan Bahadar  
Chaudhry  
Mushtaq Ahmed,  
College of  
Veterinary &  
Animal Sciences,  
(KBCMA- CVAS)  
Narowal**

## Principal's Message

It is a cause of great pride and delight for me to welcome you at Khan Bahadar Chaudhry Mushtaq Ahmed College of Veterinary and Animal Sciences, Narowal. This was established as sub-campus of University of Veterinary and Animal Sciences, Lahore in 2017. In the real sense of the term, it is forehead jewelry of district Narowal, because it has the largest livestock population in the Punjab province. The animal lovers keep on preparing the animals for different competitions and livestock production. CVAS, Narowal renders invaluable services/guidance to the stakeholders about the husbandry and health of the animals for Narowal area and region.

College of Veterinary and Animal Sciences, Narowal is located at 5-KM Shakargarh Road, Narowal. It has a vast area comprising of 107 acres of land where various components (Academic block, Administration block, Boys and Girls hostels, Clinical facility, Diagnostic lab, Student teacher center, Residential colony, Beautiful parks, Network of roads connecting all parts of the College) will be completed very soon. It is pertinent to mention that Department of Pathobiology, Department of Clinical Sciences, Department of Animal Sciences,

Department of Basic Sciences and Department of Social Sciences are working in the College. The College will be the state of the art with all modern facilities for diagnosis, treatment of livestock & poultry diseases and also in the field of teaching & research, so that produced veterinarians may be enabled to play a key role in the progress and economy of the country. This college has a good team of experienced and qualified teachers, who are engaged with devotion and dedication in teaching and research. Presently we are offering DVM (Morning & Evening), Livestock Associate Degree (LAD), (Morning & Evening), Livestock Assistant Diploma, NAVTTC AIT, and M.Phil in various Subjects in the college. Come and join this prestigious institution to ameliorate your lot for serving Pakistan with blood and intellect.

**Meritorious Professor Dr. Muhammad Younus Rana, (DLA.I, T.I), Ph.D., Post Doc. (USA)**

Distinguished Leadership Award International, USA. Tamgha-e-Imtiaz, Pakistan.

Principal



## FACULTY AT KBCMA CVAS, NAROWAL

### Meritorious Professor/Principal:

Prof. Dr. Muhammad Younus Rana (D.L.A.I, T.I.)  
Ph.D, Post Doc. (USA)

### Professors:

Prof. Dr. M. Rizwan Yousaf, Ph.D.  
Prof. Dr. Muhammad Yaqoob, Ph.D.  
Prof. Dr. Aman-Ullah, Ph.D.

### Associate Professor:

Dr. Ali Ahmad, Ph.D.

### Assistant Professors:

Dr. Shahid Hussain Farooqi, Ph.D.  
Dr. Qaiser Akram, Ph.D.  
Dr. Zeeshan Iqbal, Ph.D.  
Dr. Sarfraz Ahmad, Ph.D.  
Dr. Waqas Ahmad, Ph.D.  
Dr. Beenish Zahid, Ph.D.  
Dr. Hafiz Muhammad Rizwan, Ph.D.

### Lecturers:

Dr. Muhammad Asif Idrees, Ph.D., Post Doc. (USA)  
Dr. Muhammad Imran, Ph.D.

### Other Faculty Members:

Dr. Muhammad Usman, Ph.D.  
Dr. Ahsan Naeem, Ph.D.  
Dr. Rubina Yasmeen, Ph.D.  
Mr. Muhammad Khalil Ateeq, M.Phil  
Dr. Mohsin Raza, Ph.D.  
Mr. Muhammad Umar Farid, M.Phil  
Mr. Mian Mubashar Saleem, M.Phil  
Mr. Muhammad Asif, M.Phil  
Mr. Muhammad Rafi Ullah, M.Phil  
Mr. Haider Abbas, M.Phil  
Mr. Hafiz Manzoor Ahmad, M.Phil  
Mr. Sultan Ali, M.Phil  
Mr. Muhammad Sulman Ali Taseer, M.Phil  
Mr. Awais Ghaffar, M.Phil (Ex-Pak Leave)  
Mr. Syed Haider Zaman, M.Phil  
Mr. Muhammad Akhlaq Mansoor, M.Phil  
Dr. Sohrab Ahmad, Ph.D.  
Mr. Muhammad Muneeb Rauf, MS (South Africa)  
Mr. Muhammad Nadeem Saleem, M.Phil  
Mr. Muhammad Hanzallah, M.Phil

## UG Degree Programs offered at Narowal Campus: 03 Programs are being offered

- 1- DVM
- 2- BS (Applied Microbiology)
- 3- BS (Medical Laboratory Technology)



## Narowal Campus - UVAS

# FACULTY OF BIO SCIENCES (FBS)

BS (Biotechnology), BS (Biochemistry), BS (Environmental Sciences), BS (Nutrition & Dietetics), Doctor of Pharmacy (Pharm D)



## Dean's Message

University of Veterinary & Animal Sciences Lahore, Pakistan is one of its own kinds of university taking into account the natural environment to work in the research and open fields of various disciplines. Faculty of Bio-Sciences, being the largest faculty of the university caters the responsibilities conferred upon it. We have taken research education as of paramount importance and our students are performing remarkable well in their respective fields. FBS offers under-graduate and Postgraduate degree programs like Biochemistry, Biotechnology, Anatomy & Histology, Physiology, Environmental Sciences and Food sciences & Human Nutrition. These departments have further created linkages and hub globally to boast the applicable research on real-world problems. UVAS adopts a seamless approach towards learning and teaching.

The faculty is well educated and well trained to combat the modern needs of education system hence goes through capacity building trainings and mandatory digital literacy workshops round the year.

UVAS is equipped with the laboratories that are conceivably considered the state of the art level and this embarks the insignia of facilitation for the students. We welcome you in the brilliant sphere of learning and seeking opportunities to set your careers and pursuing the best we have for you.

Best Wishes!

**Prof. Dr. Habib-ur-Rehman**

Dean, FBS



# FACULTY OF BIO SCIENCES

## DEPARTMENT OF PHARMACOLOGY & TOXICOLOGY

### Chairman / Professor

Prof. Dr. Muhammad Ovais Omer, Ph.D.

### Professor

Prof. Emeritus Dr. Muhammad Ashraf, Ph.D

### Associate Professor

Dr. M. Adil Rasheed, Ph.D.

### Assistant Professor

Dr. Adeel Sattar, Ph.D.

### Lecturer

Dr. Qamar Niaz, Ph.D.

## DEPARTMENT OF PHYSIOLOGY

### Chairman / Associate Professor

Dr. Imtiaz Rabbani, Ph.D. (Tenured)

### Professor

Prof. Dr. Habib-ur-Rehman, Ph.D.

### Associate Professor

Dr. M. Shahbaz Yousuf, Ph.D.

### Assistant Professor

Dr. Khalid Abdul Majeed, Ph.D.

Dr. Sajid Khan Tahir, Ph.D.

### Lecturers

Dr. Muhammad Saad Khilji, Ph.D. (Ex-Pakistan Leave)

Mr. Abdullah Arif Saeed, M.Phil

Mr. Fahad Rafiq, M.Phil, (Ex-Pakistan Leave)

Mr. M. Arif, M.Phil.

## DEPARTMENT OF ANATOMY & HISTOLOGY

### Chairperson / Professor

Prof. Dr. Saima Masood, Ph.D. (Tenured)

### Professor

Prof. Dr. Hafsa Zaneb (Ex-Pakistan Leave)

### Associate Professor

Dr. Saima Masood, Ph.D. (Tenured)

### Assistant Professors

Mr. Saleem Qaiser,

Dr. Saima Ashraf, Ph.D.

Dr. Sahar Ijaz, Ph.D.

### Lecturers

Dr. Mirza Muhammad Usman, Ph.D (Scholar)

Dr. Hafiz Faseeh-ur-Rehman, Ph.D (Ex-Pakistan Leave)

Dr. Khizar Hayat, (Study leave)

## DEPARTMENT OF ENVIRONMENTAL SCIENCES

### Chairman / Associate Professor

Dr. Saif-ur-Rehman Kashif, Ph.D (UAF), PostDoc. (USA).

### Assistant Professors

Dr. Fariha Arooj, Ph.D (PU) (Tenured).

Dr. Muhammad Luqman, Ph.D (TTS)

Dr. Syed Aziz Ur Rehman, Ph.D (TTS)

### Lecturers

Dr. Saman Sana, Ph.D

Dr. Aysha Iftikhar, Ph.D

Mr. Muhammad Awais Khalid, M.Phil.

Ms. Isbah Hameed, M.Phil (LSC). (Study Leave)

## DEPARTMENT OF FOOD SCIENCE & HUMAN NUTRITION

### Chairman / Professor

Dr. Sanaullah Iqbal, Ph.D.

### Associate Professor

Dr. Azmat Ullah, Ph.D.

Dr. Waqas Ahmed, Ph.D.

Dr. Muhammad Sohaib, Ph.D.

### Assistant Professors

Dr. Qaisar Raza, Ph.D.

### Lecturers

Dr. Haroon Jamshaid Qazi, Ph.D

Dr. Muhammad Asif Ali, Ph.D.

Mrs. Rakhshanda Batool, M.Phil (On Leave)

Mr. Ahmad Ali, M.Phil

Ms. Muniba Khaliq, M.Phil (On Leave)

## DEPARTMENT OF SOCIAL SCIENCES

### Chairman

Prof. Dr. Habib-ur-Rehman, Ph.D.

### Associate Professors

Dr. Hafiz Hussain Azhar, Ph.D.

### Assistant Professor

Dr. Muhammad Sarwar, Ph.D. Post Doc (IIU)

### Lecturers

Ms. Rafia Kiran Zahid, M.Phil

Ms. Aneela Iftikhar, M.Phil

Mr. Abdul Rehman, M.Phil

## INSTITUTE OF BIOCHEMISTRY & BIOTECHNOLOGY

### Director

Dr. Rahat Naseer, Ph.D.

### Professors

Prof. Dr. Wasim Shehzad, Ph.D.

Prof. Dr. Ali Raza Awan, Ph.D. Post Doc (Tenured)

Prof. Dr. Yasir Zahoor, Ph.D. Post Doc

Prof. Dr. Muhammad Tayyab, Ph.D. (Tenured)

### Associate Professors

Dr. Muhammad Wasim, Ph.D.

Dr. Rahat Naseer, Ph.D.

Dr. Muhammad Imran, Ph.D. (Tenured)

Dr. Maryam Javed, Ph.D. (Tenured)

Dr. Sehrish Firyal, Ph.D. (Tenured)

### Assistant Professors

Dr. Shagufta Saeed, Ph.D.

Dr. Muhammad Mudassar Ali, Ph.D.

Dr. Syed Qasim Raza, Ph.D.

Dr. Sadia Nawaz, Ph.D.

Dr. Huma Mujahid, Ph.D.

Dr. Muhammad Imran, Ph.D. (Pattoki Campus)

Dr. Mahim Khan, Ph.D. (IPFP)

### Lecturers

Mr. Muhammad Sheraz Yasin, M.Phil.

Mr. Muhammad Bilal Bhatti, M.Phil.

Dr. Ihsan Ullah, Ph.D. (Visiting)

Ms. Aneesa Nisar, M.Phil. (Visiting)

## INSTITUTE OF PHARMACEUTICAL SCIENCES (IPS)

### Director / Associate Professor

Dr. Tahir Mehmood Khan, Ph.D.

### Associate Professor

Dr. Muhammad Khurram Waqas, Ph.D.

### Assistant Professors

Dr. Shaista Qamar, Ph.D.

Dr. M. Irfan Masood, Ph.D.

Dr. Allah Bukhsh, Ph.D

Dr. Muhammad Usman, Ph.D.

Dr. Allah Bukhsh, Ph.D.

Dr. Sadia Chaman, Ph.D.

Dr. Muhammad Irfan Siddique, Ph.D.

Dr. Tahir Ali Chohan, Ph.D.

Dr. Hamid Saeed Shah, Ph.D.

Dr. Muhammad Hasnat, Ph.D.

Dr. Adeel Masood Butt, Ph.D.

Dr. Muhammad Faisal Nadeem, Ph.D.

Dr. Syed Muhammad Muneeb Anjum, Ph.D.

Dr. Talib Hussain, Ph.D.

### Lecturers

Dr. Hammad Saleem, Ph.D.

Dr. Shoab Ali Gill, Ph.D.

Dr. Khezhar Hayat, Ph.D.

Dr. Kashif Maqbool Khan, Ph.D.

Dr. Ammar sarwer, Ph.D.

Mr. M. Nabeel Shahid, M.Phil

Mr. Tabish Ali, (On Study leave)

Mr. Ammar Sarwer, (On Study leave)

Ms. Husnul Maab, (Ph.D. Scholar)

Ms. Rabia Khokhar, (Ph.D. Scholar)

Mr. Muhammad Zeeshan Munir, (Ph.D. Scholar)



**LEARNING AND INNOVATION REQUIRE LATEST / UPDATED LABORATORIES  
UVAS IS EQUIPPED WITH ALL CURRENT LEARNING NEEDS**

**CENTRAL LABORATORY COMPLEX (CLC)  
RAVI CAMPUS, PATTOKI**





# Department of Food Science & Human Nutrition (FS&HN)

## BS (Nutrition & Dietetics)

# Scheme of Studies for BS (Nutrition & Dietetics)

Course Code	Course Title	Credit Hours
<b>SEMESTER ONE</b>		
NUTD-10101	Fundamentals of Human Nutrition	3(3-0)
NUTD-10102	Introduction to Human Anatomy and Histology	3(2-1)
SOCS-10103	Functional English	3(3-0)
STCS-10104	Applications of Information and Communication Technologies (ICT)	3(2-1)
STCS-10105	Biomathematics	3(3-0)
SOCS-10106	Ideology and Constitution of Pakistan	2(2-0)
<b>Subtotal</b>		<b>17(15-2)</b>
<b>SEMESTER TWO</b>		
NUTD-10201	Fundamentals of Food Processing and Preservation	3(2-1)
NUTD-10202	Macronutrients in Human Nutrition	3(3-0)
PHYS-10203	Human Physiology	3(2-1)
BIOC-10204	Principles of Biochemistry	3(2-1)
SOCS-10205	Expository Writing	3(3-0)
SOCS-10206	Islamic Studies/	
SOCS-10207	Ethics	2(2-0)
DEBM-10208	Entrepreneurship	2(2-0)
SOCS-10209	Holy Quran Translation /	Audit Course
SOCS-10210	Ethics	
<b>Sub total</b>		<b>19(16-3)</b>
<b>SEMESTER THREE</b>		
NUTD-10301	Vitamins in Human Nutrition	3(2-1)
NUTD-10302	Minerals in Human Nutrition	3(2-1)
NUTD-10303	Dietetics-I	3(2-1)
NUTD-10304	Nutritional Education and Awareness	3(2-1)
STCS-10305	Biostatistics	3(3-0)
SOCS-10306	Civics and Community Engagement	2(2-0)
FDST-10307	Unit Operations in Food Industry (Minor-II)	3(2-1)
<b>Sub total</b>		<b>20(15-5)</b>
<b>SEMESTER FOUR</b>		
NUTD-10401	Nutrition Throughout Lifecycle	3(3-0)
NUTD-10402	Disease Prevention Through Nutrition	3(2-1)
PATH-10403	General Pathology	3(2-1)
SOCS-10404	Sociology	2(2-0)
SOCS-10405	Arts and Humanities*	2(2-0)
FDST-10406	Food Analysis (Minor-II)	3(1-2)
BIOC-10407	Analytical Chemistry (Minor-I)	3(2-1)
SOCS-10408	Holy Quran Translation-II/	
SOCS-10409	Ethics-II	1(1-0)
<b>Sub total</b>		<b>20(15-5)</b>

<b>SEMESTER FIVE</b>		
NUTD-10501	Food Microbiology	3(2-1)
NUTD-10502	Functional Foods and Nutraceuticals	3(3-0)
NUTD-10503	Public Health Nutrition-I	3(2-1)
NUTD-10504	Dietetics-II	3(2-1)
NUTD-10505	Biotechnology in Nutrition and Dietetics	3(2-1)
NUTD-10506	Food Safety and Quality Management	3(3-0)
BIOC-10507	Bioinformatics (Minor-I)	3(1-2)
<b>Subtotal</b>		<b>21(15-6)</b>
<b>SEMESTER SIX</b>		
NUTD-10601	Research Planning and Methods in Human Nutrition	3(3-0)
NUTD-10602	Meal Planning and Management	2(1-1)
NUTD-10603	Public Health Nutrition-II	3(2-1)
NUTD-10604	Dietetics-III	3(2-1)
MICR-10605	Immunology	3(2-1)
FDST-10606	Food Plant Layout and Sanitation (Minor-II)	3(3-0)
BIOC-10607	Nutritional Biochemistry (Minor-I)	3(2-1)
SOCS-10608	Holy Quran Translation-III/	
SOCS-10609	Ethics-III	1(1-0)
<b>Subtotal</b>		<b>21(16-5)</b>
<b>SEMESTER SEVEN</b>		
NUTD-10701	Proteomics and Nutrigenomics	3(2-1)
NUTD-10702	Food Toxicology and Additives	3(2-1)
NUTD-10703	Sports Nutrition	3(2-1)
NUTD-10704	Community Project	3(0-3)
NUTD-10705	Nutrition and Psychology	2(2-0)
BIOC-10706	Bioenergetics (Minor-I)	3(2-1)
FDST-10707	Food Laws & Regulations (Minor-II)	3(3-0)
<b>Subtotal</b>		<b>20 (13-7)</b>
<b>SEMESTER EIGHT</b>		
NUTD-10801	Recent Advances in Clinical Nutrition	2(2-0)
NUTD-10802	Capstone Project	3(0-3)
NUTD-10803	Internship	3(0-3)
SOCS-10804	Holy Quran Translation-IV/	
SOCS-10805	Ethics-IV	1(1-0)
<b>Sub total</b>		<b>9 (3-6)</b>
<b>Grand total</b>		<b>147 (110-37)</b>

The program is offered as Single Major with Two Minors. The Minors are in the disciplines of Food Sciences and Technology, and Biochemistry

\*This is a broader category within General Education Courses. The definitive course title will be available at the time of enrollment.





## **BS (Food Science and Technology)**



## Scheme of Studies for BS (Food Science & Technology)

Course Code	Course Title	Credit Hours
<b>SEMESTER ONE</b>		
FDST-25101	Introduction to Food Science and Technology	3(2-1)
STCS-25102	Biomathematics	3(3-0)
STCS-25103	Biostatistics	3(3-0)
STCS-25104	Applications of Information and Communication Technologies (ICT)	3(2-1)
SOCS-25105	Ideology and Constitution of Pakistan	2(2-0)
SOCS-25106	Functional English	3(3-0)
NUTD-25107	Fundamentals of Human Nutrition (Minor-I)	3(3-0)
<b>Sub Total</b>		<b>20(18-2)</b>
<b>SEMESTER TWO</b>		
FDST-25201	Food Processing and Preservation	3(2-1)
MICR-25202	General Microbiology	3(2-1)
SOCS-25203	Islamic Studies/	
SOCS-25204	Ethics	2(2-0)
BIOC-25205	Principles of Biochemistry	3(2-1)
SOCS-25206	Expository Writing	3(3-0)
DEBM-25207	Entrepreneurship	2(2-0)
MICR-25208	Basic Immunology (Minor-II)	3(2-1)
SOCS-25209	Holy Quran Translation /	Audit Course
SOCS-25210	Ethics	
<b>Sub Total</b>		<b>19(15-4)</b>
<b>SEMESTER THREE</b>		
MICR-25301	Food Microbiology	3(2-1)
FDST-25302	Unit Operations in Food Industry	3(2-1)
FDST-25303	Food Chemistry	3(3-0)
FDST-25304	Postharvest Technology	3(2-1)
FDST-25305	Fruits and Vegetables Processing	3(2-1)
FDST-25306	Food Process Engineering	3(2-1)
SOCS-25307	Civics and Community Engagement	2(2-0)
<b>Sub Total</b>		<b>20(15-5)</b>
<b>SEMESTER FOUR</b>		
FDST-25401	Food Analysis	3(1-2)
BIOC-25402	Analytical Chemistry	3(2-1)
SOCS-25403	Sociology	2(2-0)
SOCS-25404	Arts and Humanities*	2(2-0)
NUTD-25405	Nutrition Throughout Lifecycle (Minor-I)	3(3-0)
MICR-25406	Biorisk Management (Biosafety & Biosecurity) (Minor-II)	3(2-1)

MICR-25407	Antimicrobial Resistance and Probiotics (Minor-II)	3(2-1)
SOCS-25408	Holy Quran Translation-II/	
SOCS-25409	Ethics-II	1(1-0)
<b>Sub Total</b>		<b>20(15-5)</b>
<b>SEMESTER FIVE</b>		
FDST-25501	Food Services and Hospitality Management	3(2-1)
FDST-25502	Food Quality Management	3(3-0)
FDST-25503	Cereal Technology	3(2-1)
FDST-25504	Technology of Fats and Oils	3(2-1)
FDST-25505	Beverage Technology	3(2-1)
NUTD-25506	Functional Foods and Nutraceuticals (Minor-I)	3(3-0)
NUTD-25507	Public Health Nutrition-I (Minor-I)	3(2-1)
<b>Sub Total</b>		<b>21(16-5)</b>
<b>SEMESTER SIX</b>		
FDST-25601	Dairy Technology	3(2-1)
FDST-25602	Confectionery and Snack Foods	3(2-1)
FDST-25603	Food Plant Layout and Sanitation	3(3-0)
FDST-25604	Bakery Products Technology	3(2-1)
FDST-25605	Fermentation Technology	2(1-1)
FDST-25606	Meat Technology	3(2-1)
MICR-25607	Industrial Microbiology (Minor-II)	3(2-1)
SOCS-25608	Holy Quran Translation-III/	
SOCS-25609	Ethics-III	1(1-0)
<b>Sub Total</b>		<b>21(15-6)</b>
<b>SEMESTER SEVEN</b>		
FDST-25701	Food Packaging	3(2-1)
FDST-25702	Food Laws & Regulations	3(3-0)
FDST-25703	Food Product Development & Sensory Acceptability	3(1-2)
FDST-25704	Additives in the Food Industry	3(2-1)
FDST-25705	Food Biotechnology	3(2-1)
FDST-25706	Research Project and Scientific Writing	2(2-0)
DEBM-25707	Food Marketing and Business Management	3(3-0)
<b>Sub Total</b>		<b>20(15-5)</b>
<b>SEMESTER EIGHT</b>		
FDST-25801	Internship	3(0-3)
FDST-25802	Capstone Project	3(0-3)
SOCS-25803	Holy Quran Translation-IV/	
SOCS-25804	Ethics-IV	1(1-0)
<b>Sub Total</b>		<b>7(1-6)</b>
<b>Grand Total</b>		<b>148(110-38)</b>

The program is offered as Single Major with Two Minors. The Minors are in the disciplines of Human Nutrition and Dietetics, and Microbiology.

\*This is a broader category within General Education Courses. The definitive course title will be available at the time of enrollment.





## Institute of Pharmaceutical Sciences (IPS)

### Pharm-D Degree Program

The Institute of Pharmaceutical Sciences (IPS) at the University of Veterinary and Animal Sciences, established in 2008, offers a prestigious Doctor of Pharmacy (Pharm-D) program. IPS is committed to providing high-quality pharmacy education in Pakistan, aspiring to meet both national and international standards to ensure our graduates can effectively contribute to advancements in pharmacy through research, practice, and education. The IPS is recognized and approved by the Pharmacy Council of Pakistan under the Pharmacy Act of 1967 and the Higher Education Commission of Pakistan. Our curriculum and training programs are meticulously designed to address the specific healthcare needs of the country, ensuring that our graduates are not only competent in their field but also capable of contributing to the latest developments in the profession.

In response to the growing need for qualified pharmacists within the healthcare system, IPS offers a comprehensive five-year Pharm-D program. This program, approved by both the Higher Education Commission (HEC) and the Pharmacy Council of Pakistan, equips students with the necessary knowledge and skills to excel in various professional settings. These include community, hospital, and clinical pharmacy environments, the pharmaceutical and biotechnology industries, drug discovery and development, regulatory agencies, and academia. Securing admission to the Pharm-D program at IPS is highly competitive, as we receive a large number of applications each year. This reflects the high regard in which our program is held and the recognition of the crucial role pharmacists play in modern healthcare. Pharmacy as a profession has a rich history, evolving from the traditional art and science of preparing and dispensing medications to encompass a wide range of activities. Today, pharmacists are integral to healthcare systems, contributing significantly in areas such as patient care, pharmaceutical research, regulatory affairs, and the education and training of healthcare professionals.

Our mission at IPS is to enhance the quality of life for the people of Pakistan and the global community. We strive to improve healthcare facilities and services through the education and training of competent, compassionate, and innovative pharmacists. By fostering an environment of academic excellence and professional growth, IPS aims to produce graduates who are not only leaders in their field but also dedicated to advancing the practice of pharmacy for the betterment of society.

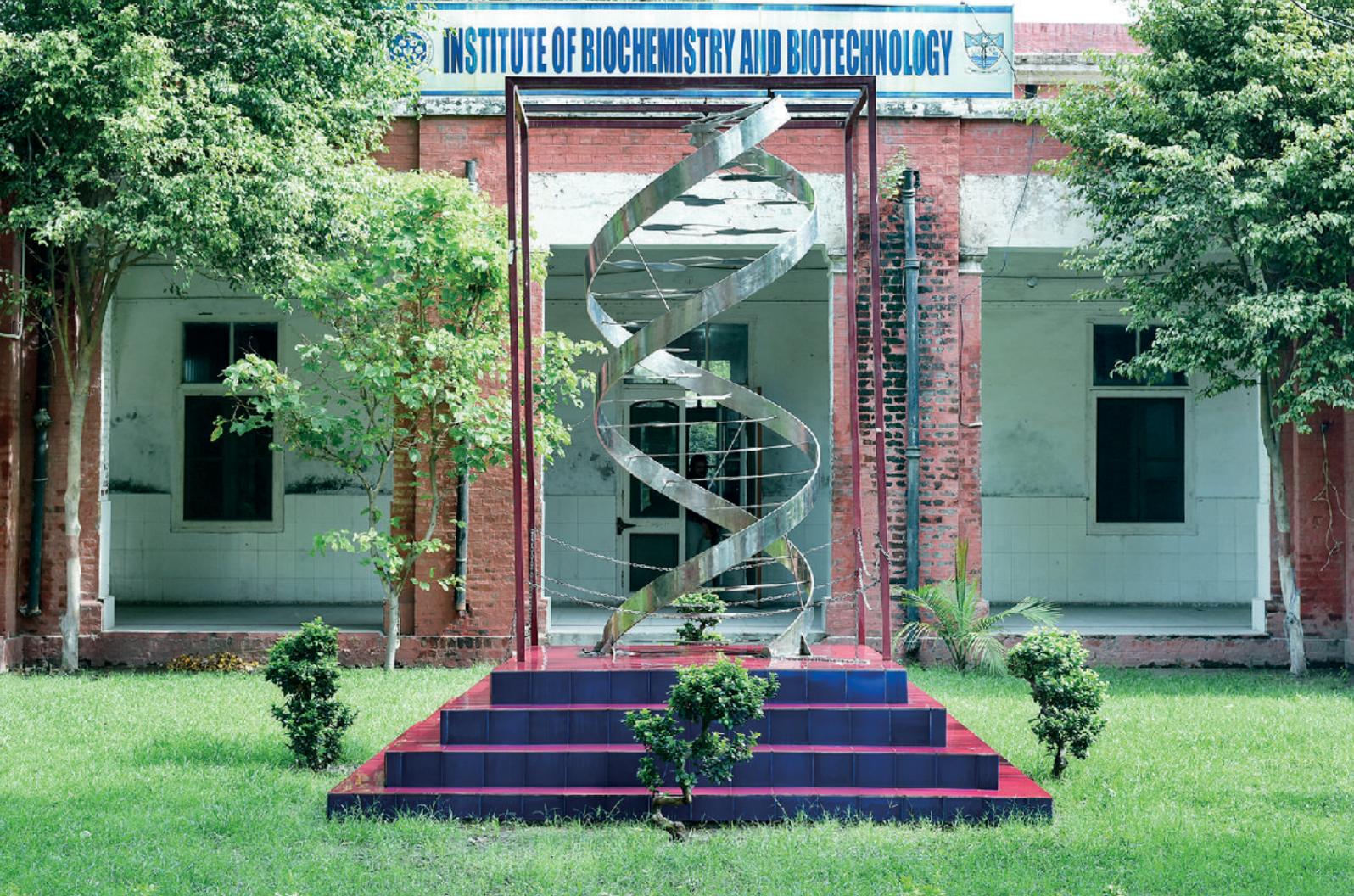
# Scheme of Studies for Pharm-D

Course No.	Course Title	Credit Hours
<b>SEMESTER ONE</b>		
SOSC 03300	English-A (Functional English)	2
PHAR 03310	Pharmaceutics-IA (Physical Pharmacy) Th.	3
PHAR 03311	Pharmaceutics-IA (Physical Pharmacy) Lab	1
PHAR 03312	Pharmaceutical Chemistry-IA (Organic) Th.	3
PHAR 03313	Pharmaceutical Chemistry-IA (Organic) Lab	1
PHAR 03314	Pharmaceutical Chemistry-II A (Biochemistry) Th.	3
PHAR 03315	Pharmaceutical Chemistry-II A (Biochemistry) Lab.	1
PHAR 03316	Physiology-A Th.	3
PHAR 03317	Physiology-A Lab.	1
PHAR 03318	Anatomy & Histology Th.	3
PHAR 03319	Anatomy & Histology Lab.	1
<b>Total</b>		<b>22</b>
<b>SEMESTER TWO</b>		
SOSC 03301	English-B (Communication & Writing skills)	4
PHAR 03320	Pharmaceutics-IB (Physical Pharmacy) Th.	3
PHAR 03321	Pharmaceutics-IB (Physical Pharmacy) Lab.	1
PHAR 03322	Pharmaceutical Chemistry-IB (Organic) Th.	3
PHAR 03323	Pharmaceutical Chemistry-IB (Organic) Lab.	1
PHAR 03324	Pharmaceutical Chemistry-IIB (Biochemistry) Th.	3
PHAR 03325	Pharmaceutical Chemistry-IIB (Biochemistry) lab.	1
PHAR 03326	Physiology-B Th.	3
PHAR 03327	Physiology-B Lab.	1
<b>Total</b>		<b>20</b>
<b>SEMESTER THREE</b>		
SOSC 03402	Islamic Studies	3
PHAR 03410	Pharmaceutics-IIA (Dosage Form Science) Th.	3
PHAR 03411	Pharmaceutics-IIA (Dosage Form Science) Lab.	1
PHAR 03412	Pharmaceutics-IIIA (Pharmaceutical Microbiology & Immunology) Th.	3
PHAR 03413	Pharmaceutics-IIIA (Pharmaceutical Microbiology & Immunology) Lab.	1
PHAR 03414	Pharmacology and Therapeutics-IA Th.	3
PHAR 03415	Pharmacology and Therapeutics-IA Lab.	1
PHAR 03416	Pharmacognosy-IA (Basic) Th.	3
PHAR 03417	Pharmacognosy-IA (Basic)Lab.	1
PHAR 03418	Pharmacy Practice-IA (Pharmaceutical Mathematics) Th	3
<b>Total</b>		<b>22</b>
<b>SEMESTER FOUR</b>		
SOSC 03403	Pakistan Studies	2
PHAR 03420	Pharmaceutics-IIB (Dosage Form Science) Th.	3
PHAR 03421	Pharmaceutics-IIB (Dosage Form Science) Lab.	1
PHAR 03422	Pharmaceutics-IIIB (Pharmaceutical Microbiology & Immunology) Th.	3
PHAR 03423	Pharmaceutics-IIIB (Pharmaceutical Microbiology & Immunology) Lab.	1
PHAR 03424	Pharmacology and Therapeutics-IB Th.	3
PHAR 03425	Pharmacology and Therapeutics-IB lab.	1
PHAR 03426	Pharmacognosy-IB (Basic) Th.	3
PHAR 03427	Pharmacognosy-IB (Basic) Lab.	1
PHAR 03428	Pharmacy Practice-IB (Bio-statistics) Th.	3
<b>Total</b>		<b>21</b>
<b>SEMESTER FIVE</b>		
PHAR 03510	Pharmacy Practice-IIA (Dispensing Pharmacy) Th.	3
PHAR 03511	Pharmacy Practice-IIA (Dispensing Pharmacy) Lab.	1
PHAR 03512	Pharmaceutical Chemistry-IIIA (Pharmaceutical Analysis) Th.	3
PHAR 03513	Pharmaceutical Chemistry-IIIA (Pharmaceutical Analysis) Lab.	1
PHAR 03514	Pharmacology and Therapeutics-IIA Th.	3
PHAR 03515	Pharmacology and Therapeutics-IIA Lab.	1
PHAR 03516	Pharmacognosy-IIA (Advanced) Th.	3
PHAR 03517	Pharmacognosy-IIA (Advanced) Lab.	1
PHAR 03518	Pathology Th.	3
PHAR 03519	Pathology Lab.	1
<b>Total</b>		<b>20</b>
<b>SEMESTER SIX</b>		
PHAR 03520	Pharmacy Practice-IIB (Community, Social & Administrative Pharmacy)	3
PHAR 03522	Pharmaceutical Chemistry-IIIB (Pharmaceutical Analysis) Th.	3
PHAR 03523	Pharmaceutical Chemistry-IIIB (Pharmaceutical Analysis) Lab.	1
PHAR 03524	Pharmacology and Therapeutics-IIB Th.	3
PHAR 03525	Pharmacology and Therapeutics-IIB Lab.	1
PHAR 03526	Pharmacognosy-IIB (Advanced) Th.	3
PHAR 03527	Pharmacognosy-IIB (Advanced) Lab.	1

Course No.	Course Title	Credit Hours
PHAR 03528	Pharmacy Practice-III (Computer and its Applications in Pharmacy) Th.	3
PHAR 03529	Pharmacy Practice-III (Computer and its Applications in Pharmacy) Lab	1
<b>Total</b>		<b>19</b>
<b>SEMESTER SEVEN</b>		
PHAR 03610	Pharmacy Practice-IVA (Hospital Pharmacy) Th.	3
PHAR 03612	Pharmacy Practice-VA (Clinical Pharmacy) Th.	3
PHAR 03613	Pharmacy Practice-VA (Clinical Pharmacy) Lab.	1
PHAR 03614	Pharmaceutics-IVA (Industrial Pharmacy) Th.	3
PHAR 03615	Pharmaceutics-IVA (Industrial Pharmacy) Lab.	1
PHAR 03616	Pharmaceutics-VA (Biopharmaceutics Pharmacokinetics) Th.	3
PHAR 03617	Pharmaceutics-VA (Biopharmaceutics & Pharmacokinetics) Lab.	1
PHAR 03618	Pharmaceutics-VIA (Pharmaceutical Quality Management) Th.	3
PHAR 03619	Pharmaceutics-VIA (Pharmaceutical Quality Management) Lab.	1
<b>Total</b>		<b>19</b>
<b>SEMESTER EIGHT</b>		
PHAR 03620	Pharmacy Practice-IVB (Hospital Pharmacy) Th.	3
PHAR 03622	Pharmacy Practice-VB (Clinical Pharmacy) Th.	3
PHAR 03623	Pharmacy Practice-VB (Clinical Pharmacy) Lab.	1
PHAR 03624	Pharmaceutics-IVB (Industrial Pharmacy) Th.	3
PHAR 03625	Pharmaceutics-IVB (Industrial Pharmacy) Lab.	1
PHAR 03626	Pharmaceutics-VB (Biopharmaceutics & Pharmacokinetics) Th.	3
PHAR 03627	Pharmaceutics-VB (Biopharmaceutics & Pharmacokinetics) Lab.	1
PHAR 03628	Pharmaceutics-VIB (Pharmaceutical Quality Management) Th.	3
PHAR 03629	Pharmaceutics-VIB (Pharmaceutical Quality Management) Lab.	1
<b>Total</b>		<b>19</b>
<b>SEMESTER NINE</b>		
PHAR 03710	Pharmaceutics-VIIA (Pharmaceutical Technology) Th.	3
PHAR 03711	Pharmaceutics-VIIA (Pharmaceutical Technology) Lab.	1
PHAR 03712	Pharmacy Practice-VIA (Advanced Clinical Pharmacy-II) Th.	3
PHAR 03713	Pharmacy Practice-VIA (Advanced Clinical Pharmacy-II) Lab.	1
PHAR 03714	Pharmacy Practice-VIIA (Forensic Pharmacy) Th.	3
PHAR 03716	Pharmacy Practice-VIIIA (Pharmaceutical Management & Marketing) Th.	3
PHAR 03718	Pharmaceutical Chemistry-IVA (Medicinal Chemistry) Th.	3
PHAR 03719	Pharmaceutical Chemistry-IVA (Medicinal Chemistry) Lab.	1
<b>Total</b>		<b>18</b>
<b>SEMESTER TEN</b>		
PHAR 03720	Pharmaceutics-VIIB (Pharmaceutical Technology) Th.	3
PHAR 03721	Pharmaceutics-VIIB (Pharmaceutical Technology) Lab.	1
PHAR 03722	Pharmacy Practice-VIB (Advanced Clinical Pharmacy-II) Th.	3
PHAR 03723	Pharmacy Practice-VIB (Advanced Clinical Pharmacy-II) Lab.	1
PHAR 03724	Pharmacy Practice-VIIB (Forensic Pharmacy) Th.	3
PHAR 03726	Pharmacy Practice-VIIIB (Pharmaceutical Management & Marketing) Th.	3
PHAR 03728	Pharmaceutical Chemistry-IVB (Medicinal Chemistry) Th.	3
PHAR 03729	Pharmaceutical Chemistry-IVB (Medicinal Chemistry) Lab.	1
<b>Total</b>		<b>18</b>
<b>Grand Total</b>		<b>198</b>

\* Teaching of Holy Quran will be adjusted in semester 2, 4, 6 and 8

\* Teaching of Holy Quran carries one credit hour in each semester



# Institute of Biochemistry & Biotechnology (IBBT)

- BS (Biotechnology)
- BS (Biochemistry)

## **BS Biotechnology**

Institute of Biochemistry and Biotechnology (IBBT) was established in September 2009 after the up gradation and union of Department of Molecular Biology & Biotechnology and Department of Biochemistry. Currently, IBBT is offering undergraduate B.S. (Hons.) Biotechnology; B.S(Hons). Biochemistry; and postgraduate (M.Phil and Ph.D) degree programs in the discipline of Biochemistry Molecular Biology & Biotechnology, and Forensic Sciences, with a strength of more than 600 students.

Establishment of this institution (IBBT) is a landmark that will go a long way to enhance the quality of research, academics and technology development in the field of Biochemistry, Molecular Biology and Genetics of livestock, human and microbes to the benefit of Pakistani nation. In addition the institute will greatly contribute to improve UVAS ranking within Pakistan and worldwide.

Our programs geared towards training individuals and arousing interest in the subject, are imperative. The graduates can be employed in various fields like veterinary and agriculture sectors, drug & sugar industries, database development, clinical work, and its management, pharmaceutical areas, research methodology and tools designing universities and research institutions and many more. Under the supervision of erudite and skilled faculty, graduates will have the qualifications and flexibility to work in a wide range of biotechnology-related areas, both at home and abroad. The Institute is equipped with latest equipment and high tech. laboratories providing the most up-to-date podium for research.

# Scheme of Studies for BS (Biotechnology)

Course Code	Course Title	Credit Hours
<b>SEMESTER ONE</b>		
BIOT-04101	Biochemistry-I	3(2-1)
BIOC-04102	Organic Chemistry	3(2-1)
SOSC-04103	Functional English	3(3-0)
SOSC-04104	Ideology and Constitution of Pakistan	2(2-0)
STCS-04105	Biomathematics	3(3-0)
ZOOL-04106	Ecology	3(2-1)
<b>Sub Total</b>		<b>17(14-3)</b>
<b>SEMESTER TWO</b>		
BIOT-04201	Biochemistry-II	3(2-1)
BIOT-04202	Biosafety and Bioethics	2(2-0)
BIOT-04203	Cell Biology	3(2-1)
SOSC-04204	Expository Writing	3(3-0)
SOSC-04205/ SOSC-04206	Islamic Studies/ Ethics	2(2-0)
STCS-04207	Biostatistics	3(3-0)
SOSC-04208/ SOSC-04209	Holy Quran Translation / Ethics	Audit Course
<b>Sub Total</b>		<b>16(14-2)</b>
<b>SEMESTER THREE</b>		
BIOT-04301	Principles of Biochemical Engineering	3(2-1)
BIOT-04302	Genetic Resources & Conservation	3(3-0)
BIOT-04303	Classical Genetics	3(3-0)
SOSC-04304	Civics and Community Engagement	2(2-0)
STCS-04305	Applications of Information and Communication Technologies (ICT)	3(2-1)
MICR -04306	Introduction to Cell Culture (Minor)	3(2-1)
<b>Sub Total</b>		<b>17(14-3)</b>
<b>SEMESTER FOUR</b>		
BIOT-04401	Molecular Biology	3(3-0)
BIOC-04402	Analytical Chemistry & Instrumentation	3(2-1)
PHYS-04403	Biological Physics	3(3-0)
SOSC-04404	Arts and Humanities*	2(2-0)
SOSC-04405	Sociology	2(2-0)
DEBM-04406	Entrepreneurship	2(2-0)

SOSC-04407/ SOSC-04408	Holy Quran Translation-II/ Ethics-II	1(1-0)
MICR -04409	Microbiology (Minor)	3(2-1)
<b>Sub Total</b>		<b>19(17-2)</b>
<b>SEMESTER FIVE</b>		
BIOT-04501	Introduction to Biotechnology	3(3-0)
BIOT-04502	Methods in Molecular Biology	3(1-2)
BIOT-04503	Microbial Biotechnology	3(2-1)
BIOT-04504	Bioinformatics	3(1-2)
BIOT-04505	Recombinant DNA Technology	3(2-1)
MICR-04506	Immunology (Minor)	3(3-0)
<b>Sub Total</b>		<b>18(12-6)</b>
<b>SEMESTER SIX</b>		
BIOT-04601	Agriculture Biotechnology	3(2-1)
BIOT-04602	Food Biotechnology	3(3-0)
BIOT-04603	Nano Biotechnology	3(3-0)
BIOT-04604	Research Methodology & Skill Enhancement	3(3-0)
DEBM-04605	Principles of Marketing	3(3-0)
SOSC-04606/ SOSC-04607	Holy Quran Translation-III/ Ethics-III	1(1-0)
MICR-04608	Industrial Microbiology (Minor)	3(2-1)
<b>Sub Total</b>		<b>19(17-2)</b>
<b>SEMESTER SEVEN</b>		
BIOT-04701	Health Biotechnology	3(3-0)
BIOT-04702	Seminar-I	1(1-0)
BIOT-04703	Environment Biotechnology	3(3-0)
BIOT-04704	Genomics & Proteomics	3(3-0)
BIOT-04705	Molecular Diagnostics	3(2-1)
BIOT-04706	Capstone Project	3(0-3)
<b>Sub Total</b>		<b>16(12-4)</b>
<b>SEMESTER EIGHT</b>		
BIOT-04801	Animal Biotechnology	3(3-0)
BIOT-04802	Pharmaceutical Biotechnology	3(3-0)
BIOT-04803	Industrial Biotechnology	3(2-1)
SOSC-04804 SOSC-04805	Holy Quran Translation-IV/ Ethics-IV	1(1-0)
BIOT-04806	Internship	3(0-3)
<b>Sub Total</b>		<b>13(9-4)</b>
<b>Grand Total</b>		<b>135(109-26)</b>

The program is offered as Single Major with One Minor. The Minor is in the discipline of Microbiology.

\*This is a broader category within General Education Courses. The definitive course title will be available at the time of enrollment.





# Scheme of Studies for BS (Biochemistry)

Course Code	Course Title	Credit Hours
<b>SEMESTER ONE</b>		
BIOC-14101	Organic Chemistry	3(2-1)
BIOC-14102	Introductory Biochemistry	3(2-1)
STCS-14103	Biomathematics	3(3-0)
ZOOL-14104	Ecology	3(2-1)
SOSC-14105	Functional English	3(3-0)
SOSC-14106	Ideology and Constitution of Pakistan	2(2-0)
<b>Sub Total</b>		<b>17(14-3)</b>
<b>SEMESTER TWO</b>		
BIOC-14201	Inorganic Chemistry	3(2-1)
BIOC-14202	Carbohydrates & Lipids	3(2-1)
BIOC-14203	Cell Biology	3(2-1)
SOSC-14204	Expository Writing	3(3-0)
SOSC-14205/ SOSC-14206	Islamic Studies/ Ethics	2(2-0)
STCS-14207	Biostatistics	3(3-0)
SOSC-14208/ SOSC-14209	Holy Quran Translation / Ethics	Audit Course
<b>Sub Total</b>		<b>17(14-3)</b>
<b>SEMESTER THREE</b>		
BIOC-14301	Physical Chemistry	3(2-1)
BIOC-14302	Protein and Nucleic acid	3(2-1)
BIOC-14303	Genetics	3(3-0)
BIOC-14304	Enzymology	3(2-1)
PHYS-14305	Human Physiology	3(2-1)
SOCS-14306	Civics and Community Engagement	2(2-0)
STCS-14307	Applications of Information and Communication Technologies (ICT)	3(2-1)
<b>Sub Total</b>		<b>20(15-5)</b>
<b>SEMESTER FOUR</b>		
BIOC-14401	Analytical chemistry	3(2-1)
MICR-14402	Microbiology	3(2-1)
SOSC-14403	Arts and Humanities*	2(2-0)
SOSC-14404	Sociology	2(2-0)
DEBM-14405	Entrepreneurship	2(2-0)
SOSC-14406/ SOSC-14407	Holy Quran Translation-II/ Ethics-II	1(1-0)
BIOT-14408	Molecular Biology (Minor)	3(2-1)
<b>Sub Total</b>		<b>16(13-3)</b>

<b>SEMESTER FIVE</b>		
BIOC-14501	Metabolism-I	3(3-0)
BIOC-14502	Bioinformatics	3(1-2)
MICR-14503	Immunology	3(3-0)
BIOT-14504	Methods in Molecular Biology (Minor)	3(1-2)
BIOT-14505	Biotechnology (Minor)	3(3-0)
BIOT-14506	Recombinant DNA technology (Minor)	3(2-1)
<b>Sub Total</b>		<b>18(13-5)</b>
<b>SEMESTER SIX</b>		
BIOC-14601	Clinical Biochemistry	3(2-1)
BIOC-14602	Nutritional Biochemistry	3(2-1)
BIOC-14603	Industrial Biochemistry	3(2-1)
BIOC-14604	Biochemical Techniques	3(1-2)
BIOC-14605	Plant Biochemistry	3(2-1)
BIOC-14606	Metabolism-II	3(2-1)
SOSC-14607/ SOSC-14608	Holy Quran Translation-III/ Ethics-III	1(1-0)
<b>Sub Total</b>		<b>19(12-7)</b>
<b>SEMESTER SEVEN</b>		
BIOC-14701	Environmental Biochemistry	3(3-0)
BIOC-14702	Bio-membranes & Cell Signaling	3(3-0)
BIOC-14703	Bioenergetics	3(3-0)
BIOC-14704	Proteomics	3(3-0)
BIOC-14705	Capstone Project	3(0-3)
NUTD-14706	Vitamins in Human Nutrition	3(2-1)
<b>Sub Total</b>		<b>18(14-4)</b>
<b>SEMESTER EIGHT</b>		
BIOC-14801	Current Trends in Biochemistry	3(3-0)
BIOC-14802	Research Planning & Scientific Writing	3(3-0)
BIOC-14803	Internship	3(0-3)
SOSC-14804/ SOSC-14805	Holy Quran Translation-IV/ Ethics-IV	1(1-0)
<b>Sub Total</b>		<b>10(7-3)</b>
<b>Grand Total</b>		<b>135(102- 33)</b>

The program is offered as Single Major with One Minor. The Minor is in the discipline of Molecular Biology.

\*This is a broader category within General Education Courses. The definitive course title will be available at the time of enrollment.



# Department of Environmental Sciences

■ BS (Environmental Sciences)



## Scheme of Studies for BS (Environmental Sciences)

Course Code	Course Title	Credit Hours
<b>SEMESTER ONE</b>		
ENSC 09101	Introduction to Environmental Science	3(3-0)
ANAT 09102	Basic Biology	3(2-1)
STCS 09103	Applications of Information and Communication Technologies (ICT)	3(2-1)
STCS 09104	Biomathematics	3(3-0)
SOSC 09105	Functional English	3(3-0)
SOSC 09106	Islamic Studies / Ethics	2(2-0)
SOSC 09107/ SOSC 09108	Holy Quran translation / Ethics	Audit Course
<b>Sub Total</b>		<b>17(15-2)</b>
<b>SEMESTER TWO</b>		
ENSC 09201	Introduction to Earth Science	3(2-1)
ENSC 09202	Environmental Pollution	3(3-0)
BIOC 09203	Basic Chemistry	3(2-1)
STCS 09204	Biostatistics	3(3-0)
DEBM 09205	Entrepreneurship	2(2-0)
SOSC 09206	Expository Writing	3(3-0)
SOSC 09207	Ideology and Constitution of Pakistan	2(2-0)
<b>Sub Total</b>		<b>19(17-2)</b>
<b>SEMESTER THREE</b>		
BIOC 09301	Environmental Chemistry	3(2-1)
ENSC 09302	Environmental Physics	3(2-1)
DEBM 09303	Introductory Economics	3(3-0)
PHYS 09304	Environmental Physiology	3(2-1)
SOSC 09305	Arts and Humanities*	2(2-0)
SOSC 09306	Sociology	2(2-0)
SOSC 09307/ SOSC 09308	Holy Quran translation-II/ Ethics-II	1(1-0)
<b>Sub Total</b>		<b>17(14-3)</b>
<b>SEMESTER FOUR</b>		
ENSC 09401	Environmental Laws and Policies	3(3-0)
MICR 09402	Environmental Microbiology	3(2-1)
ENSC 09403	Environmental Monitoring	3(2-1)
ENSC 09404	Climatology	3(3-0)
PHRM 09405	Environmental Toxicology	3(3-0)
ENSC 09406	Fundamentals of Ecology	3(3-0)
SOSC 09407	Civics and Community Engagement	2(2-0)
<b>Sub Total</b>		<b>20(18-2)</b>

<b>SEMESTER FIVE</b>		
ENSC 09501	Applied Ecology	3(2-1)
ENSC 09502	Environmental Profile of Pakistan	3(3-0)
BIOT 04503	Methods in Molecular Biology	3(1-2)
DEBM 09504	Environmental Economics	3(3-0)
ENSC 09505	Analytical Techniques in Environmental Science	3(1-2)
ENSC 09506	Soil and Environment	3(3-0)
SOSC 09507/ SOSC 09508	Holy Quran translation-III/ Ethics-III	1(1-0)
<b>Sub Total</b>		<b>19(14-5)</b>
<b>SEMESTER SIX</b>		
ENSC 09601	Climate Change	3(3-0)
ENSC 09602	GIS and Remote Sensing	3(1-2)
BIOT 04603	Agricultural Biotechnology	3(2-1)
ENSC 09604	Environmental Management Systems	3(3-0)
ENSC 09605	Biodiversity and Conservation	3(3-0)
ENSC 09606	Animal Waste Management	3(3-0)
ENSC 09607	Health and Environment	3(3-0)
<b>Sub Total</b>		<b>21(18-3)</b>
<b>SEMESTER SEVEN</b>		
ENSC 09701	Natural Resource Management	3(3-0)
ENSC 09702	Environmental Impact Assessment	3(3-0)
BIOT 04703	Environmental Biotechnology	3(3-0)
ENSC 09704	Research Methods in Environmental Science	3(3-0)
ENSC 09705	Energy and Environment	3(3-0)
ENSC 09706	Disaster Management and Seminar	3(2-1)
SOSC 09707/ SOSC 09708	Holy Quran translation-IV/ Ethics-IV	1(1-0)
<b>Sub Total</b>		<b>19(18-1)</b>
<b>SEMESTER EIGHT</b>		
ENSC 09801	Pollution Control Technologies	3(2-1)
ENSC 09802	Capstone Project	3(0-3)
BIOT 04803	Industrial Biotechnology	3(2-1)
ENSC 09804	Internship	3(0-3)
<b>Sub Total</b>		<b>12(4-8)</b>
<b>Grand Total</b>		<b>144(118-26)</b>

The program is offered as Single Major.

\*This is a broader category within General Education Courses. The definitive course title will be available at the time of enrollment.

# FACULTY OF ANIMAL PRODUCTION & TECHNOLOGY (FAPT)

BS (Poultry Science), BS (Dairy Technology), BS (Genetics), BS (Animal Products Technology)



## Dean's Message

Livestock and poultry sector is a major component of Pakistan economy accounting for 11.2 % of the national GDP and 60.5 % of agriculture. This sector meets the domestic needs of milk, meat and eggs. More than 8 million families are involved in raising livestock. Animal production activities important source of employment for rural people and play a vital role in poverty alleviation. This sector has a great potential for export earnings as well. The Faculty of Animal Production & Technology has six Departments i.e. Livestock Production, Poultry Production, Animal Nutrition, Dairy Technology, Meat Science and Technology, Leather & Fiber Technology. Our departments are keeping pace with the requirements of allied sectors by fulfilling the needs of human resource, development of new technologies and conducting problem oriented research. The faculty is offering two four years professional degree programs, i.e. B.S. (Hons.) Poultry Science and B.S. (Hons.) Dairy Technology. Faculty also offers undergraduate courses for the Degree of Doctor of Veterinary Medicine. Different short training & diploma courses are also being offered for the farmers and stake holders in the field of livestock production, poultry production and animal products technology. The faculty has livestock and poultry farms for training and research. Different small ruminants' breeds, local and exotic dairy breeds of large ruminants and different poultry breeds are being maintained at these farms. The newly established central lab complex at Ravi campus has state of the art facilities for wide range of laboratory analyses. Our foreign qualified faculty members are well recognized for the quality of their classroom instructions and applied research. I welcome the students getting admission in different undergraduate degree programs of this University. I am confident that the students will enjoy excellent environment for learning and skills development for their future career. I wish the students best of luck and success in all their future.



**Prof. Dr. Saima**

Dean FAP&T

# FACULTY OF ANIMAL PRODUCTION & TECHNOLOGY

## DEAN

Prof. Dr. Saima, Ph.D.

## DEPARTMENT OF ANIMAL NUTRITION

Chairman / Associate Professor

Dr. Naveed-ul-Haque, Ph.D.

### Professor

Prof. Emeritus Dr. Talat Naseer Pasha, Ph.D.(H.I, S.I)

Prof. Dr. Saima, Ph.D.

### Associate Professors

Dr. Saeed Ahmad, Ph.D.

Dr. Muhammad Afzal Rashid, Ph.D

Dr. Shafqat Nawaz Qiasrani, Ph.D.

### Assistant Professor

Dr. Ehsan Ullah, Ph.D.

### Lecturers

Dr. Gazanfar Ali Chisti, PhD

Mr. Mubashar Ali, Ph.D (Scholar)

Mr. Usman Ali, Ph.D (Scholar)(Visiting)

Mr. Shahbaz Zafar, Ph.D (Scholar)(Visiting)

## DEPARTMENT OF DAIRY TECHNOLOGY

Chairperson / Associate Professor

Dr. Saima Inayat, Ph.D.

### Associate Professor

Dr. Muhammad Nadeem, Ph.D.

### Assistant Professor

Dr. Nabila Gulzar, Ph.D.

Dr. Ishtiaque Ahmed, Ph.D.

### Lecturers

Dr. Muhammad Junaid, Ph.D.

Eng. Saqib Manzoor, Ph.D. (Scholar)

Mr. Asim Ikram, Ph.D. (Scholar) (On Study leave)

Ms. Ayesha Ikram, Ph.D. (Scholar)(Visiting)

Mr. Sheraz Anwar, Ph.D. (Scholar)(Visiting)

## DEPARTMENT OF LIVESTOCK MANAGEMENT

Chairman/Associate Professor

Dr. Muhammad Qamar Shahid, Ph.D

### Associate Professor

Dr. Nisar Ahmad, Ph.D

### Assistant Professors

Dr. Imran Mohsin, Ph.D.

Dr. Hifz-ul-Rehman, Ph.D.

Dr. Muhammad Saadullah, Ph.D.

### Lecturer

Mr. Nasir Ali, M.Phil.

## DEPARTMENT OF ANIMAL BREEDING AND GENETICS

Chairperson / Associate Professor

Dr. Atia Basheer, Ph.D.

### Associate Professors

Dr. Imran Zahoor, Ph.D.

Dr. Haiba Kaul, Ph.D.

### Assistant Professors

Dr. Bilal Bin Majeed, Ph.D.

Dr. Hamid Mustafa, Ph.D.

### Lecturers

Dr. Muhammad Dawood, Ph.D.

Dr. Asad Ali, Ph.D.

## DEPARTMENT OF POULTRY PRODUCTION

Chairman / Associate Professor

Dr. Jibran Hussain, Ph.D.

### Associate Professor

Dr. Shahid Mehmood, Ph.D.

### Assistant Professor

Dr. Sohail Ahmad, Ph.D.

Dr. Faisal Hussain, Ph.D.

Dr. Muhammad Usman, Ph.D.

### Lecturer

Dr. Muhammad Shabir Shaheen, Ph.D.

Mr. Muhammad Waqas, M.Phil. (On study leave)

### Veterinary Officer

Dr. Abd Ur Rehman, M.Phil. (On study leave)

## DEPARTMENT OF MEAT SCIENCE AND TECHNOLOGY

Chairman/Associate Professor

Dr. M. Hayat Jaspal, Ph.D

### Assistant Professor

Dr. Sher Ali, Ph.D

Dr. Kashif Nauman, Ph.D

### Lecturers

Mr. Jamal Nasir, Ph.D. (Scholar)

Mr. Iftikhar Hussain Badar, Ph.D. (Scholar) (On study leave)

Mr. Bilal Asghar, Ph.D. (Scholar) (On study leave)

Mr. Adeel Manzoor, Ph.D. (Scholar) (On study leave)

## DEPARTMENT OF LEATHER AND FIBER TECHNOLOGY

Lecturer / Officer Incharge

Mr. Sadaqat Ali Chattha, Ph.D. (Scholar) (On study leave)



# CENTRAL LABORATORY COMPLEX (CLC), RAVI CAMPUS, PATTOKI



## Dairy Plant, Pattoki Campus, UVAS





# Department of Poultry Production

■ BS (Poultry Science)



## Scheme of Studies for BS (Poultry Science)

Course Code	Course Title	Credits
<b>Semester-I</b>		
POSC-07101	Introduction to Poultry Science	4(2-2)
POSC-07102	Biology of the Fowl	3(2-1)
SOSC-07103	Functional English	3(3-0)
STCS-07104	Biomathematics	3(3-0)
STCS-07105	Applications of Information and Communication Technologies (ICT)	3(2-1)
SOSC-07106/ SOSC-07107	Islamic Studies/ Ethics	2(2-0)
SOSC-07108 SOSC-07109	Holy Quran Translation / Ethics	Audit Course
<b>Sub Total</b>		<b>18</b>
<b>Semester-II</b>		
POSC-07201	Avian Embryology	3(2-1)
BIOC-07202	Principles of Biochemistry	3(2-1)
PHYS-07203	Avian Anatomy and Physiology	3(2-1)
ZOOL-07204	Ecology	3(2-1)
SOSC-07205	Expository Writing	3(3-0)
DEBM-07206	Entrepreneurship	2(2-0)
SOSC-07207	Ideology and Constitution of Pakistan	2(2-0)
<b>Sub Total</b>		<b>19</b>
<b>Semester-III</b>		
POSC-07301	Game Bird Production	3(2-1)
NUTR-07302	Fundamentals of Poultry Nutrition	3(2-1)
ANBG-07303	Introduction to Poultry Genetics	3(2-1)
STCS-07304	Biostatistics	3(3-0)
SOSC-07305	Sociology	2(2-0)
SOSC-07306	*Arts and Humanities	2(2-0)
SOSC-07307	Pakistan Studies	2(2-0)
SOSC-07308	Fehm-e-Quran-I	1(0-1)
<b>Sub Total</b>		<b>19</b>
<b>Semester-IV</b>		
ANBG-07401	Population Genetics	3(2-1)
NUTR-07402	Nutrition of Table Poultry	3(2-1)
POSC-07403	Broiler Production and Management	4(2-2)
POSC-07404	Poultry Behaviour and Welfare	3(2-1)
POSC-07405	Poultry Processing and Preservation Technology	3(2-1)
SOSC-07406	Civics and Community Engagement	2(2-0)

SOSC-07407	Fehm-e-Quran-II	1(0-1)
<b>Sub Total</b>		<b>19</b>
<b>Semester-V</b>		
NUTR-07501	Nutrition of Laying Birds	3(2-1)
POSC-07502	Layer Production and Management	3(1-2)
POSC-07503	Egg Products Technology	3(1-2)
ANBG-07504	Molecular Genetics and Biotechnology	3(2-1)
DEBM-07505	Poultry Marketing and Risk Management	3(3-0)
<b>Sub Total</b>		<b>15</b>
<b>Semester-VI</b>		
ANBG-07601	Applied Poultry Genetics	3(2-1)
POSC-07602	Poultry Housing and Environmental Management	3(2-1)
POSC-07603	Management of Parent Flocks	3(1-2)
POSC-07604	Poultry Farm Engineering and Construction	3(2-1)
NUTR-07605	Feed Formulation and Processing Technology	3(1-2)
POSC-07606	Further Poultry Processing	2(1-1)
<b>Sub Total</b>		<b>17</b>
<b>Semester-VII</b>		
POSC-07701	Incubation Principles and Hatchery Management	3(2-1)
POSC-07702	Artificial Intelligence and Smart Poultry Farming	3(2-1)
POSC-07703	Rural Poultry Production	2(1-1)
POSC-07704	Poultry Health Management	3(2-1)
EPPH-07705	Poultry Hygiene and Diseases Prevention	4(2-2)
<b>Sub Total</b>		<b>15</b>
<b>Semester-VIII</b>		
POSC-07801	Quality Control Management in Poultry Operations	2(1-1)
POSC-07802	Internship	3(0-3)
POSC-07803	Capstone Project	3(0-3)
<b>Sub Total</b>		<b>8</b>
<b>Grand Total</b>		<b>130</b>



I AM PROTEIN  
 I AM PROFIT  
 I AM POPULAR  
 I AM POULTRY



# Department of Dairy Technology

■ BS (Dairy Technology)

## Scheme of Studies for BS (Dairy Technology)

Course Code	Course Title	Credits
<b>Semester-I</b>		
DTEC-06101	Introduction to Dairy Technology	3(2-1)
DTEC-06102	Introduction to Food and Nutrition	3(2-1)
STCS-06103	Application of Information and Communication Technologies (ICT)	3(2-1)
SOSC-06104	Functional English	3(3-0)
STCS-06105	Biomathematics	3(3-0)
SOSC-06106/ SOSC-06107	Islamic Studies /Ethics	2(2-0)
SOSC-06108/ SOSC-06109	Holy Quran Translation / Ethics	Audit Course
<b>Sub Total</b>		<b>18</b>
<b>Semester-II</b>		
DTEC-06201	Chemistry of Dairy Products	3(2-1)
LPRO-06202	Introduction to Livestock Production	3(2-1)
BIOC-06203	Biochemistry	3(2-1)
SOSC-06204	Expository Writing	3(3-0)
SOSC-06205	Ideology and Constitution of Pakistan	2(2-0)
DEBM-06206	Entrepreneurship	2(2-0)
<b>Sub Total</b>		<b>16</b>
<b>Semester-III</b>		
DTEC-06301	Fluid Mechanics	3(2-1)
DTEC-06302	Introduction to Dairy Microbiology	3(2-1)
DTEC-06303	Milk Processing Technology	3(2-1)
LPRO-06304	Principles of Milk Production and Procurement	3(2-1)
SOSC-06305	Arts and Humanities*	2(2-0)
STCS-06306	Biostatistics	3(3-0)
SOSC-06307	Sociology	2(2-0)
<b>Sub Total</b>		<b>19</b>
<b>Semester-IV</b>		
DTEC-06401	Thermodynamics	3(2-1)
DTEC-06402	Food and Industrial Microbiology	3(2-1)
DTEC-06403	Food Processing and Preservation	4(3-1)
DTEC-06404	Traditional Dairy Products	3(2-1)
LPRO-06405	Introduction to Lactation Biology	3(2-1)
SOSC-06406	Civics and Community Engagement	2(2-0)
<b>Sub Total</b>		<b>18</b>

<b>Semester-V</b>		
DTEC-06501	Heat Transfer and Refrigeration	4(3-1)
DTEC-06502	Fermented Dairy Products	4(3-1)
DTEC-06503	Fat Rich Dairy Products	3(2-1)
DTEC-06504	Food Safety and Toxicology	3(2-1)
DEBM-06505	Marketing Management and International Trade	3(3-0)
<b>Sub Total</b>		<b>17</b>
<b>Semester-VI</b>		
DTEC-06601	Dairy Plant Management and Sanitation	3(2-1)
DTEC-06602	Microbiology of Starter Culture	3(2-1)
DTEC-06603	Food Engineering	3(2-1)
DTEC-06604	Food Packaging	3(2-1)
DTEC-06605	By – Products Technology	2(1-1)
DTEC-06606	Food Laws and Food Safety Management Systems	3(3-0)
<b>Sub Total</b>		<b>17</b>
<b>Semester-VII</b>		
DTEC-06701	Ice Cream and Frozen Desserts	3(2-1)
DTEC-06702	Condensed and Dried Milk Products	3(2-1)
DTEC-06703	Sensory Evaluation of Food Products	3(2-1)
DTEC-06704	Dairy Plant Machinery and Layout	3(2-1)
DTEC-06705	Quality Assurance in Food Industry	3(2-1)
SOSC-06706/ SOSC-06707	Holy Quran Translation-IV / Ethics-IV	1(1-0)
<b>Sub Total</b>		<b>16</b>
<b>Semester-VIII</b>		
DEBM-06801	Dairy Supply Chain Management	2(2-0)
DTEC-06802	Internship	3(0-3)
DTEC-06803	Capstone Project	3(0-3)
<b>Sub Total</b>		<b>8</b>
<b>Grand Total</b>		<b>130</b>





## ■ BS (Animal Products Technology)



## Scheme of Studies for BS (Animal Products Technology)

Course Code	Course Title	Credit Hours
<b>SEMESTER - I</b>		
APTD-28101	Fundamentals of Meat Science and Technology	3(2-1)
APTD-28102	Introduction to Livestock Production	3(2-1)
STCS-28103	Applications of Information and Communication Technologies (ICT)	3(2-1)
SOSC-28104	Functional English	3(3-0)
STCS-28105	Biomathematics	3(3-0)
SOSC-28106/ SOCS-28107	Islamic Studies / Ethics	2(2-0)
SOSC-28108/ SOSC-28109	Holy Quran Translation / Ethics	Audit Course
<b>Sub Total</b>		<b>17 (14-3)</b>
<b>SEMESTER - II</b>		
APTD-28201	Basics of Poultry Production	3(2-1)
APTD-28202	Principles of Animal Nutrition	2(1-1)
APTD-28203	Animal Welfare in Food Production System	2(1-1)
APTD-28204	Fundamentals of Leather Science and Technology	3(3-0)
BIOC-28205	Principles of Biochemistry	3(2-1)
SOSC-28206	Expository Writing	3(3-0)
SOSG 28207/ SOSC -28208	Ideology and Constitution of Pakistan	2(2-0)
<b>Sub Total</b>		<b>18(14-4)</b>
<b>SEMESTER - III</b>		
APTD-28301	Tanning Chemistry	3(3-0)
APTD-28302	Fundamentals of Poultry Processing Technology	3(2-1)
APTD-28303	Precision Livestock Farming for quality meat	3(2-1)
APTD-28304	Fundamental of Dairy Technology	3(2-1)
STCS-28305	Biostatistics	3(3-0)
SOSC-28306	Arts and Humanities*	2(2-0)
SOSC-28307	Tannery Operations	2(1-1)
SOSC-28308/ SOSC-28309	Holy Quran Translation-II/ Ethics-II	1(1-0)
<b>Sub Total</b>		<b>20(16-4)</b>
<b>SEMESTER - IV</b>		
APTD-28401	Meat Microbiology	3(2-1)
APTD-28402	Nutrient Requirements of Animals	2(1-1)
APTD-28403	Genetics and Selection	3(2-1)
APTD-28404	Leather Processing	3(2-1)
DEBM-28405	Entrepreneurship	2(2-0)
SOSC-28406	Civics and Community Engagement	2(2-0)
<b>Sub Total</b>		<b>15(11-4)</b>

<b>SEMESTER - V</b>		
APTD-28501	Further Processing of Poultry Products	3(1-2)
APTD-28502	Hazard Analysis and Critical Control Point system	2(1-1)
APTD-28503	Feed processing Technology	2(1-1)
APTD-28504	Egg Processing and Quality Analysis	3(2-1)
APTD-28505	Leather Finishing	2(2-0)
APTD-28506	Occupational Safety and Health Aspects of Leather Making	2(2-0)
SOSC-28507/ SOSC-28508	Holy Quran Translation-III/ Ethics-III	1(1-0)
FDST-28509	Food Chemistry	3(3-0)
<b>Sub Total</b>		<b>18(13-5)</b>
<b>SEMESTER - VI</b>		
APTD-28601	Meat Product Development	2(1-1)
APTD-28602	Dairy Product Development	3(2-1)
APTD-28603	Food Safety Compliance for Animal Products Processing	3(2-1)
APTD-28604	Tannery Waste Management	3(2-1)
SOSC-28605	Sociology	2(2-0)
MICR-28606	Food Microbiology	3(2-1)
<b>Sub Total</b>		<b>16(11-5)</b>
<b>SEMESTER - VII</b>		
APTD-28701	Innovation in Red Meat Processing	3(2-1)
APTD-28702	Advance Processing of Slaughterhouse By-Products	3(2-1)
APTD-28703	Quality Control in Leather Processing	3(2-1)
APTD-28704	Sustainable Utilization of Animal Wastes	2(1-1)
DEBM-28705	Food Marketing and Business Management	3(3-0)
SOSC-28706/ SOSC-28707	Holy Quran Translation-IV Ethics-IV	1(1-0)
FDST-28708	Food Laws & Regulations	3(3-0)
<b>Sub Total</b>		<b>18(14-4)</b>
<b>SEMESTER - VIII</b>		
APTD-28801	Capstone Project	3(0-3)
APTD-28802	Internship	3(0-3)
<b>Sub Total</b>		<b>6(0-6)</b>
<b>Grand Total</b>		<b>128</b>
<b>Sub Total</b>		<b>(93-35)</b>

\*This is the broader term and specific course will be offered at the time of enrollment.





## ■ BS (Genetics)

Genetics is a rapidly advancing field with profound implications for human health, agriculture, and veterinary & animal sciences. As scientific discoveries continue to unravel the complexities of genetic traits, hereditary diseases, and genomic applications, there is a growing demand for skilled professionals in this discipline. Recognizing this need, the University of Veterinary and Animal Sciences (UVAS) aims to introduce a 4-year degree program titled, “BS Genetics” to equip students with in-depth knowledge and practical expertise in genetics and its diverse applications.

The increasing demand for genetic professionals in healthcare, biotechnology, forensic sciences, and animal breeding highlights the importance of establishing this program. There is currently a shortage of trained individuals in Pakistan who can contribute to genetic research, disease prevention, and genetic improvement programs in both the public and private sectors. Given UVAS's leadership in veterinary and animal sciences, integrating genetics into the curriculum will strengthen research and innovation in areas such as livestock improvement, disease resistance, and animal breeding. This will ultimately support the agricultural sector by enhancing productivity and sustainability.

Genetics plays a crucial role in understanding hereditary disorders, personalized medicine, and genetic counseling, making it an essential field for advancing both human and animal health. Establishing this program will produce graduates who can contribute to genetic diagnostics, molecular biology research, and biotechnology industries. Furthermore, with Pakistan's economy heavily dependent on agriculture and livestock, genetic advancements can lead to the development of disease-resistant crops and high yielding livestock breeds, addressing critical food security challenges.

Pakistan has a limited number of academic programs specializing in genetics, creating a gap between industry needs and available expertise. By launching this BS Genetics program, UVAS will position itself as a leading institution in genetic research and education, producing graduates who can take on vital roles in academia, industry, and healthcare. This initiative will not only enhance the academic profile of UVAS but will also contribute to scientific research, healthcare advancements, and agricultural development. By preparing highly skilled geneticists, UVAS will play a pivotal role in addressing emerging challenges in animal breeding, animal genetics, and human health, making a lasting impact on the scientific community and society. The public as well as private sector needs professionals in the field to cater the demand of personals for working on genetic improvement programs. So, it is necessary to start higher education in the discipline of BS Genetics (4 years) in the department of Animal Breeding and Genetics at The University of Veterinary and Animal Sciences.

## Scheme of Studies for BS (Genetics)

Course code	Semester-I	Credits
ANBG -29101	Cell Biology	3(2-1)
SOSC-29106/29107	Islamic Studies/Ethics	2(2-0)
SOSC-29108/29109	Holy Quran Translation / Ethics	Audit Course
STCS-29102	Biomathematics	3 (3-0)
STCS-29103	Application of information and communication technologies (ICT)	3 (2-1)
SOSC-29104	Functional English	3 (3-0)
ZOOL-29105	Biodiversity of Animal	3(2-1)
	Total	17
Course code	Semester-II	Credits
ANBG-29201	Principles of Genetics	4(3-1)
SOSC-29202	Entrepreneurship	2 (2-0)
SOSC-29203	Expository Writing	3 (3-0)
SOSC-29204	Ideology and constitution of Pakistan	2 (2-0)
BTNY-29205	Biodiversity of Plants	3(2-1)
ANBG 29206	Genetic Resources and Conservation	3(2-1)
	Total	17
Course code	Semester-III	Credits
ANBG 29301	Cytogenetics	3(2-1)
ANBG 29302	Principles of Biochemistry	4(3-1)
STCS-29303	Biostatistics	3 (3-0)
SOSC-29304	Sociology	2(2-0)
SOSC-29305	*Arts and Humanities	2(2-0)
ANBG 29306	Immunogenetics	3(2-1)
	Total	17
Course code	Semester-IV	Credits
ANBG-29401	Molecular Biology	3(2-1)
ANBG -29402	Biometry – I	3(2-1)
POSC-29403	Introduction to Poultry Science	2(1-1)

SOSC-29404	Civics and Community Engagement	2 (2-0)
LPRO-29405	Introduction to Livestock Production	2(1-1)
MICR-29406	Fundamentals of Microbiology	3(2-1)
	Total	15
Course code	Semester-V	Credits
ANBG 29501	Genetics and Evolution	4 (4-0)
ANBG 29502	Molecular Genetics	4 (3-1)
ANBG 29503	Microbial Genetics	4 (3-1)
ANBG 29504	Population Genetics	3 (2-1)
ANBG 29505	Principles of Breeding	3 (2-1)
	Total	18
Course code	Semester-VI	Credits
ANBG 29601	Physiological Genetics	4 (3-1)
ANBG 29602	Genetic Engineering	4 (3-1)
ANBG 29603	Human Genetics	3 (2-1)
ANBG 29604	Biometry – II	4 (3-1)
ANBG 29605	Bioinformatics	3 (2-1)
	Total	18
Course code	Semester-VII	Credits
ANBG 29701	Biosafety and Bioethics	3 (2-1)
ANBG 29702	Developmental Genetics	3 (3-0)
ANBG 29703	Biotechnology	3 (2-1)
ANBG 29704	Research Techniques	4 (2-2)
ANBG 29705	Genomics and Proteomics	3 (2-1)
ANBG 29706	Seminar I/Report Writing	1(0-1)
	Total	17
Course code	Semester-VIII	Credits
ANBG 29801	Capstone Project	3(0-3)
ANBG 29802	Internship	3(0-3)
	Total	6



# FACULTY OF FISHERIES AND WILDLIFE (FF&W)

BS (Zoology), BS (Fisheries & Aquaculture), BS (Biological Sciences), BS (Botany)



## Dean's Message

Welcome to the Faculty of Fisheries & Wildlife, University of Veterinary & Animal Sciences, Lahore. This Faculty comprises a family of highly motivated academicians, supporting staff and students who are passionate towards the advancement of knowledge. The Faculty of Fisheries & Wildlife accommodates education and research on science and technology relevant to nature and human activities. The Faculty possesses three Departments namely Fisheries & Aquaculture, Wildlife & Ecology and Biological Sciences. The Faculty of Fisheries and Wildlife has developed its capability in both manpower production and basic and applied research and upholds the vision to be a centre of academic excellence in the fields of Fisheries, Aquaculture, Zoology, Biodiversity, Wildlife Management, Botany, Biological Sciences and Conservation Biology with a mission "Linking Science to Management". Excellence in academic, research, innovation and capacity building has always been our priority.

In particular, we have faculty members who are experts in their fields and provide quality education and innovative research. The Faculty is dedicated to generate and disseminate knowledge for the stewardship of natural and captive habitats and the use of their products and services through teaching, research, and professional public outreach. Faculty of Fisheries and Aquaculture offers baccalaureates in the Disciplines of Zoology, Biological Sciences, Botany and Fisheries & Aquaculture. Similarly, M. Phil. and PhD degree programs are being offered in the Discipline of Zoology, Fisheries & Aquaculture, Wildlife & Ecology, and M.Phil. Botany.

The Faculty has been close liaison with industry and national and international Institutions including Punjab Fisheries Department; Fisheries Development Board; Punjab Wildlife and Parks Department; Lahore Zoo; Veterinary Research Institute, Lahore and WWF Pakistan for research, teaching, and practical training. Similarly, the Faculty has developed international linkages and collaborations with World Fish Center, Malaysia; American Fisheries Association; Aqua Wales; University of Wales, Swansea; Newcastle University, UK; Purdue University, Fort Wayne, USA; Ohio State University, USA; School of Biological Sciences, Scottish Fish Immunology Lab, University of Aberdeen, UK; Institute of Aquaculture, University of Stirling, Scotland; University of Laval, Quebec, Canada; Protos-Biotech, Mare Nostrum, Norway; University of Ataturk, Erzurum, Turkey; Asian Institute of Technology, Thailand; College of Veterinary Medicine, Chungnam National University, South Korea; School of Agriculture and Aquaculture, Tra Vinh University, Vietnam; International Union for Conservation of Nature; Pearl River Fisheries Research Institute, Chinese Academy of Fishery Sciences, China; Fujian Institute of Oceanography, Xiamen, China; and US Soybean Export Corporation, USA.

As we strive to be the most productive and vibrant faculty in Pakistan, our faculty members strive to provide excellent quality education. Our success during the past years was a result of hard work by our dedicated faculty members and students. Therefore, we have every reason to be confident that the coming years will bring a renewed commitment to the challenges and opportunities of future.

I congratulate you on your admission to this highly prestigious and highly ranked institute of the nation.

**Meritorious Prof. Dr. Muhammad Younus Rana (DLAI.T.I.)**

**Ph.D., Post Doc. (USA)**

Dean, FF&W



# FACULTY OF FISHERIES & WILDLIFE

## DEPARTMENT OF FISHERIES & AQUACULTURE

### Chairman

Dr. Muhammad Hafeez-ur-Rehman, Ph.D.

### Professor

Prof. Dr. Hamda Azmat, Ph.D.

### Assistant Professors

Dr. Sumaira Abbas, Ph.D.

Dr. Farzana Abbas, Ph.D.

Dr. Mahroze Fatima, Ph.D.

Dr. M. Rashid, Ph.D. (TTS)

Dr. Sana Ullah Sattar, Ph.D.

### Lecturer

Dr. Muhammad Akmal, Ph.D.(Japan)

## DEPARTMENT OF WILDLIFE AND ECOLOGY

### Chairman / Professor

Prof. Dr. Arshad Javid, Ph.D

### Professor

Prof. Dr. Khalid Mehmood Anjum, Ph.D

### Associate Professor

Dr. Shahzad Ali, Ph.D

Dr. Sidra Safdar, Ph.D

### Assistant Professors

Dr. Asia Iqbal, Ph.D

Dr. Syed Mohsin Bukhari, Ph.D

Dr. Rehan-ul-Haq, Ph.D

Dr. Waqas Ali, Ph.D

### Lecturer

Mr. Syed Ghulam Mohayud Din Hashmi, M. Phil.

Mr. Irshad Hussain, M.Phil.

## DEPARTMENT OF BIOLOGICAL SCIENCES

### Chairperson / Associate Professor

Dr. Mubashrah Munir, Ph.D.

### Associate Professor

Dr. Abdul Razzaq, Ph.D.

### Assistant Professors

Dr. Beenish Aftab, Ph.D.

Dr. Sehrish Sadia, Ph.D.

Dr. Aamna Ishaq, Ph.D.

### Lecturer

Mrs Anam Iftikhar, M.Phil.

Ms. Fatima Kabir, M.Phil.

## Department of Wildlife and Ecology

### BS (Zoology)

One undergraduate program BS Zoology is offered under the Faculty of Fisheries and Wildlife. The discipline of Zoology meets the need of trained manpower in a vast basic and interdisciplinary framework concerning animal sciences. The department has earned international recognition for academic excellence and prominence in various fields of research like cell biology, molecular biology, physiology, developmental biology, entomology, microbiology, paleontology, parasitology, environmental biotechnology, toxicology, fisheries, wildlife etc. Zoology graduates after Master or BS 4 year degree have diverse experience and competence to serve health, agriculture, Fisheries, Biotechnology, Wildlife, environment and other relevant sectors including various research organizations.



## Scheme of Studies for BS (Zoology)

Semester 1		
S.N.	Course	Credit Hours
ZOOL-08101	Diversity of Invertebrates	3 (2-1)
BTNY-08102	Diversity of Plants	3 (2-1)
STCS-08103	Quantitative Reasoning – I * Mathematics-I	3 (3-0)
CHEM-08103	Natural Science ** Physical Chemistry	3 (2-1)
SOSC-08104	Functional English *	3 (3-0)
STCS-08105	Applications of Information & Communication Technologies (ICT) * Introduction to Computer	3 (2-1)
ZOOL-08106	Fehm-e-Quran - I	1(0-1)
Semester 2		
S.N.	Course	Credit Hours
ZOOL-08201	Cell Biology	3 (2-1)
ZOOL-08202	Diversity of Chordates	3 (2-1)
BTNY-08203	Plant Physiology & Ecology	3 (2-1)
STCS-08204	Quantitative Reasoning – II * Mathematics-II	3 (3-0)
SOSC-08205	Expository Writing * English III/Communication skills	3 (3-0)
SOSC-08206	Social Sciences ***  Anthropology	2 (2-0)
ZOOL-08207	Fehm-e-Quran - I	1(0-1)
Semester 3		
S.N.	Course	Credit Hours
ZOOL-08301	Animal Ecology	3 (2-1)
ZOOL-08302	Animal Form & Function – I (Comparative Anatomy)	3 (2-1)
ZOOL-08303	Animal Behavior	3 (3-0)
CHEM-08304	Basic Chemistry	3 (2-1)
SOSC-08305	Islamic Studies * (Ethics for non-Muslim students)	2 (2-0)
SOSC-08306	Pakistan Studies *	2 (2-0)
SOSC-08307	Arts & Humanities **** Fables Wisdom Literature and Epic	2 (2-0)
Semester 4		
S.N.	Course	Credit Hours
ZOOL-08401	Evolution	3 (3-0)
ZOOL-08402	Animal Form & Function – II (Comparative Physiology)	3 (2-1)
ZOOL-08403	Entomology	3 (2-1)
ZOOL-08404	Developmental Biology	3 (2-1)

SOSC-08405	Civics & Community Engagement * Rural Sociology	2 (2-0)
	Entrepreneurship *	2 (2-0)
SOSC-08406	Ideology & Constitution of Pakistan *	2 (2-0)
Semester 5		
S.N.	Course	Credit Hours
ZOOL-08501	Zoogeography & Paleontology	3 (2-1)
ZOOL-08502	Marine Biology	3 (3-0)
ZOOL-08503	Principles of Systematic Zoology	3 (2-1)
BIOC-08504	Principles of Biochemistry	3 (2-1)
ZOOL-08505	Principles of Genetics	3 (2-1)
STCS-08506	Biostatistics	3 (2-1)
Semester 6		
S.N.	Course	Credit Hours
ZOOL-08601	Fisheries & Aquaculture	3 (2-1)
ZOOL-08602	Research Methodologies & Bioethics	3 (2-1)
ZOOL-08603	Elective – I *****  Animal Microbiology	3 (2-1)
ZOOL-08604	Elective – II ***** Fundamentals of Microbiology	3 (2-1)
ZOOL-08606	Molecular Biology	3 (2-1)
Semester 7		
S.N.	Course	Credit Hours
ZOOL-08701	Wildlife Conservation & Management	3 (2-1)
ZOOL-08702	Economic Zoology	3 (3-0)
ZOOL-08703	Elective – III ***** Vector Biology and Public Health	3 (2-1)
ZOOL-08704	Elective – IV ***** Applied Fisheries	3 (2-1)
ZOOL-08705	Microbiology & Immunology	3 (2-1)
Semester 8		
S.N.	Course	Credit Hours
ZOOL-08801	Elective – V ***** Geographical Information System	3 (2-1)
ZOOL-08802	Elective – VI ***** Wildlife Health Management	3 (2-1)
ZOOL-08803	Elective – VII ***** Postharvest Processing and Value addition	3 (2-1)
ZOOL-08804	Computational Biology	3 (2-1)
ZOOL-08805	Capstone	3



## Department of Fisheries and Aquaculture

### ■ BS (Fisheries and Aquaculture)

Department of Fisheries and Aquaculture has state of the art facilities comprising Fisheries Complex, Integrated Fish Unit, Fish Seed Rearing and Fish Processing Unit for production healthy Seed and Quality value added Fish and Fish Products. The BS degree program addresses the needs for sustainable development of the country's fisheries resources and responds to the call for production of highly trained manpower in the field. Its curricula offerings aim to impart to students both, theoretical knowledge and practical skills as well as develop analytical capabilities as a tool toward innovative solutions to fisheries and related programs. The BS in Fisheries and Aquaculture offers extensive coursework in the major areas of Fisheries science and Aquaculture. The Fisheries and Aquaculture program offers hands-on experience raising local fish and shrimp species, and enriches them with diverse fisheries management field experiences. The faculty's natural setting at Ravi Campus, Pattoki will provide students with an "outdoor aquaculture laboratory". Different lakes, ponds, streams, and rivers in the vicinity will be regularly visited for field work. In addition, students will also have opportunities to conduct independent research on addressing new available technologies in fisheries and aquaculture.

## Scheme of Studies for BS (Fisheries & Aquaculture)

Course No.	Course Title	Credit Hours
<b>SEMESTER ONE</b>		
ZOOL-08101	Animal Diversity-I (Invertebrates)	4(3-1)
ZOOL-08102	Cell Biology	3(2-1)
BTNY-08103	Diversity of Plants	3(2-1)
SOSC-08104	Functional English	3(3-0)
SOSC-08105	Ideology and Constitution of Pakistan	2(2-0)
CHEM-08106	Physical Chemistry	3(2-1)
SOSC-08107/	Holy Quran Translation /	Audit Course
SOSC-08108	Ethics	
<b>Sub Total</b>		<b>18(14-4)</b>
<b>SEMESTER TWO</b>		
ZOOL-08201	Animal Diversity-II (Chordates)	4(3-1)
BTNY-08202	Plant Systematics, Anatomy and Development	3(2-1)
SOSC-08203	Expository Writing	3(3-0)
CHEM-08204	Inorganic and Organic Chemistry	3(2-1)
STCS-08205	Biomathematics	3(3-0)
SOSC-08206/	Islamic Studies/	2(2-0)
SOSC-08207	Ethics	
<b>Sub Total</b>		<b>18(15-3)</b>
<b>SEMESTER THREE</b>		
ZOOL-08301	Economic Zoology	3(2-1)
ZOOL-08302	Animal Form and Function-I	4(3-1)
BTNY-08303	Plant Physiology and Ecology	3(2-1)
SOSC-08304	Civics and Community Engagement	2(2-0)
DEBM-08305	Entrepreneurship	2(2-0)
SOSC-08306/	Holy Quran Translation-II/	1(1-0)
SOSC-08307	Ethics-II	
<b>Sub Total</b>		<b>15(12-3)</b>
<b>SEMESTER FOUR</b>		
ZOOL-08401	Animal Form and Function-II	4(3-1)
BTNY-08402	Biodiversity and Conservation	4(3-1)
SOSC-08403	Sociology	2(2-0)
STCS-08404	Applications of Information and Communication Technologies (ICT)	3(2-1)
SOSC-08405	Arts and Humanities	2(2-0)
STCS-08406	*Biostatistics	3(3-0)
<b>Sub Total</b>		<b>18(15-3)</b>

Course No.	Course Title	Credit Hours
<b>SEMESTER FIVE</b>		
ZOOL-08501	Biological Techniques	3(1-2)
ZOOL-08502	Physiology	4(3-1)
ZOOL-08503	Ecology	3(2-1)
ZOOL-08504	Evolution	2(2-0)
BIOC-08505	General Biochemistry	3(2-1)
SOSC-08506/	Holy Quran Translation-III/	1(1-0)
SOSC-08507	Ethics-III	
<b>Sub Total</b>		<b>16(11-5)</b>
<b>SEMESTER SIX</b>		
ZOOL-08601	Research Methodology	2(2-0)
ZOOL-08602	Principles of Systematics	3(2-1)
ZOOL-08603	Developmental	4(3-1)
ZOOL-08604	Biology	4(3-1)
ZOOL-08605	Genetics/Wildlife	3(2-1)
<b>Sub Total</b>		<b>16(12-4)</b>
<b>SEMESTER SEVEN</b>		
ZOOL-08701	Bioinformatics	3(1-2)
ZOOL-08702	Animal Behavior	3(3-0)
ZOOL-08703	Fish Culture	3(2-1)
ZOOL-08704	General Microbiology	4(3-1)
ZOOL-08705	Molecular Biology	3(2-1)
ZOOL-08706/	Holy Quran Translation-IV/	1(1-0)
SOSC-08707	Ethics-IV	
<b>Sub Total</b>		<b>17(12-5)</b>
<b>SEMESTER EIGHT</b>		
ZOOL-08801	Limnology	3(2-1)
ZOOL-08802	Biology and Control of Vertebrate Pests	3(2-1)
ZOOL-08803	Zoogeography & Paleontology	3(2-1)
ZOOL-08804	Internship	3(0-3)
ZOOL-08805	Capstone Project	3(0-3)
<b>Sub Total</b>		<b>15(6-9)</b>
<b>Grand Total</b>		<b>135(98-37)</b>

The program is offered as Single Major.

\*This is a broader category within General Education Courses. The definitive course title will be available at the time of enrollment.





# DEPARTMENT OF BIOLOGICAL SCIENCES

## ■ BS (Biological Sciences)

### **BS ( Biological Sciences)**

The scope of biological sciences deals with the utility of plants and animals in relation to mankind. The course contents of biological sciences are so vast that the number of branches covering it is on the increase. The scope of biological sciences also includes the benefits derived from the plants and animals. Botany, along with its allied branches, provides employment opportunities. There is also enormous employment scope in academics, agriculture, horticulture, forestry, etc. Biological sciences is a key discipline in the universities to achieve sustainable development. The graduates will have different options for going into M. Phil and Ph. D. studies, be employed in different schools, colleges, various public and private departments/organizations like, Wildlife, Forestry adopting their own entrepreneurship and create further employment opportunities.

## Scheme of Studies for BS (Biological Sciences)

Course Code	Course Title	Credit Hours
<b>Semester-I</b>		
BIOS-17101	Diversity of Plants	3(2+1)
BIOS-17102	Diversity of Invertebrates	3 (2+1)
SOSC-17103	Functional English	3(3+0)
STCS-17104	Applications of information and communication technologies. ICT	3(2-1)
CHEM-17105	Physical Chemistry	3(2+1)
STCS-17106	Quantitative Reasoning-I/Mathematics-I	3(2-1)
BIOS-17107	Fehm-e-Quran	1(1+0)
Subtotal		19
<b>Semester-II</b>		
BIOS-17201	Diversity of Chordates	3(2+1)
BIOS-17202	Physiology and Ecology	3(2+1)
BIOS-17203	Cell Biology	3(2+1)
STCS-17204	Quantitative Reasoning-I / Mathematics-I	3(3+0)
SOSC-17205	Social Sciences Anthropology	2(2+0)
SOSC-17206	Expository Writing English Communication Skills	3(3+0)
BIOS-17207	Fehm-e-Quran	1(1-0)
Sub Total		18
<b>Semester-III</b>		
CHEM-17301	Basic Chemistry	3(2+1)
BIOS-17302	Animal Form and Function-I (Comparative Anatomy)	3(2+1)
BIOS-17303	Plant Anatomy and Embryology	3(2+1)
BIOS-17304	Mycology	3(2+1)
SOSC-17305	Pakistan Studies	2(2+0)
SOSC-17306	Arts and Humanities	2(2+0)
SOSC-17307	Islamic Studies	2(2+0)
Sub Total		18
<b>Semester-IV</b>		
BIOS-17401	Animal Form and Function-II	3(2+1)
BIOS-17402	Phycology and Bryology	3(2+1)
BIOS-17403	Bacteriology and Virology	3(2+1)
BIOS-17404	Phytogeography	3(2+1)
SOSC-17405	Ideology of Pakistan	2(2+0)
SOSC-29406	Entrepreneurship	2(2+0)

SOSC-17407	Civics and Community Engagement	2(2+0)
Sub Total		18
<b>Semester-V</b>		
BIOS-17501	Economic Biology	3(2+1)
BIOS-17502	Pteridophytes and Gymnosperms	3(2+1)
BIOS-17503	Principles of Genetics	3(2+1)
BIOS-17504	Biological Techniques	3(1+2)
BIOS-17505	Principles of Biochemistry	3(2+1)
SOSC-17506	Biostatistics	3(2+)
Sub Total		18
<b>Semester-VI</b>		
BIOS-17601	Research Methodology and Bioethics	3(2+1)
BIOS-17602	Systematics of Angiosperms	3(2+1)
BIOS-17603	Sustainable Development Goals	3(3+0)
BIOS-17604	Fisheries and Aquaculture	3(2+1)
BIOS-17605	Elective-I (Environmental Pollution)	3(2+1)
BIOS-17606	Molecular Biology	3(2-1)
Summer Internship		
Sub Total		18
<b>Semester-VII</b>		
BIOS-17701	Wildlife Conservation and Management	3(2+1)
BIOS-17702	Bioinformatics	3(2+1)
BIOS-17703	Microbiology and immunology	3(2+1)
BIOS-17704	Field Ecology	3(2+1)
PHRM-17505	Pharmacology	3(2+1)
Sub Total		15
<b>Semester-VIII</b>		
BIOS-17801	Genomics and Proteomics	3(3+0)
BIOS-17802	Geographical Information System	3(2+1)
BIOS-17803	Elective II (Biotechnology)	3(2+1)
BIOS-17804	Capstone Project	3(0+3)
Sub Total		12
<b>Grand Total</b>		<b>136</b>

\*Exact course title would be mentioned after approval from the concerned department.

## Scheme of Studies for BS (Botany)

Course No.	Title of Course	Cr. Hrs.
<b>Semester-I</b>		
BTNY-29101	Cell Biology	3(2-1)
BTNY-29102	Diversity of Plants	3 (2-1)
CHEM-29103	Natural Science Introduction to Environmental Science Physical Chemistry	3 (2-1)
STCS-29104	Quantitative Reasoning I / Mathematics-I	3 (3-0)
SOSC-29105	Functional English	3 (3-0)
SOSC-29106	Applications of Information & Communication Technologies (ICT)	3 (2-1)
BTNY-29107	Fehm-e-Quran	1(1-0)
<b>Total Credits</b>		<b>19</b>
<b>Semester-II</b>		
BTNY-29201	Fundamentals of Plant Taxonomy	3 (2-1)
BTNY-29202	Biodiversity & Conservation	3 (3-0)
BTNY-29203	Fundamentals of Genetics & Evolution	3 (2-1)
SOSC-29204	Social Sciences / Anthropology	2 (2-0)
STCS-29205	Quantitative Reasoning II / Mathematics-II	3 (3-0)
SOSC-29206	Expository Writing English-II - Communication Skills	3 (3-0)
BTNY-29207	Fehm-e-Quran	1(1-0)
<b>Total Credits</b>		<b>18</b>
<b>Semester-III</b>		
BTNY-29301	Phycology & Bryology	3 (2-1)
BTNY-29302	Mycology	3 (2-1)
BTNY-29303	Plant Anatomy & Embryology	3 (2-1)
SOSC-29304	Arts & Humanities Fables Wisdom Literature & Epic	2 (2-0)
SOSC-29305	Islamic Studies ** (Ethics for non-Muslim students)	2 (2-0)
SOSC-29306	Ideology & Constitution of Pakistan Pak Studies	2(2-0)
<b>Total Credits</b>		<b>15</b>
<b>Semester-IV</b>		
BTNY-29401	Phytogeography	3 (2-1)
BTNY-29402	Principles of Plant Ecology	3 (2-1)
BTNY-29403	Principles of Plant Biochemistry	3 (2-1)

BTNY-29404	Fundamentals of Plant Physiology	3 (2-1)
SOSC-29405	Civics & Community Engagement Rural Sociology	2 (2-0)
SOSC-29406	Entrepreneurship	2 (2-0)
SOSC-29407	Ideology & Constitution of Pakistan	2(2-0)
<b>Total Credits</b>		<b>18</b>
<b>Semester-V</b>		
BTNY-29501	Advanced Plant Ecology	3 (2-1)
BTNY-29502	Advanced Plant Biochemistry	3 (2-1)
BTNY-29503	Advanced Plant Physiology	3 (2-1)
BTNY-29504	Microbial Botany	3 (2-1)
BTNY-29505	Pteridophytes & Gymnosperms	3 (2-1)
STCS-29506	Biostatistics	3 (2-1)
<b>Total Credits</b>		<b>18</b>
<b>Semester-VI</b>		
BTNY-29601	Systematics of Angiosperms	3 (2-1)
BTNY-29602	Plant Pathology	3 (2-1)
BTNY-29603	Molecular Genetics	3 (2-1)
BTNY-29604	Sustainable Development Goals	3 (3-0)
BTNY-29605	Artificial Intelligence (AI) in Botany	3 (3-0)
BTNY-29606	Elective - I (Environmental Pollution)	3(2-1)
<b>Total Credits</b>		<b>18</b>
<b>Semester-VII</b>		
BTNY-29701	Analytical Techniques in Botany	3 (1-2)
BTNY-29702	Field Botany	3 (2-1)
BTNY-29703	Forensic Botany	3 (2-1)
BTNY-29704	Scientific Inquiry & Research Methods	3 (2-1)
BTNY-29705	Elective-II (Bioinformatics)	3 (2-1)
<b>Total Credits</b>		<b>15</b>
<b>Semester-VIII</b>		
BTNY-29801	Plant Biotechnology	3 (2-1)
BTNY-29802	Economic & Industrial Botany	3 (3-0)
BTNY-29803	Evolutionary Trends in Plants	3 (2-1)
BTNY-29804	Elective - III (Plant Anatomy)	3 (2-1)
BTNY-29805	Capstone Project	3 (2-1)
<b>Total Credits</b>		<b>15</b>

# FACULTY OF LIFE SCIENCES BUSINESS MANAGEMENT (FLSBM)

## UVAS Business School

BBA , BSCS



## Dean's Message

The Faculty of Life Sciences Business Management (FLSBM) has a vision to educate life sciences professionals in the domain of business management. Thus, it is my pleasure to offer a range of undergraduate and postgraduate degree programs at FLSBM. These programs have been designed carefully keeping in mind the needs of relevant industries and emerging trends in the domain of business management. Recently, this faculty has been repositioned as UVAS Business School and the quality of its management degree programs can be judged from the fact that this Business School is in the process of getting the accreditation from National Business Education Accreditation Council (NBEAC) of Higher Education Commission (HEC) Pakistan. The degree programs include BBA (Hons.), MBA (Executive). The postgraduate degree programs include M. Phil and Ph.D(Business Management). The Department of Statistics and Computer science (DSCS) has initiated BS (Computer Science) at main campus and Ravi Campus to meet the need of the community.

Apart from academic programs, UVAS Business School has been actively involved in solving problems of industry and stakeholders through research projects under Center for Applied Policy Research in Livestock (CAPRIL), which was being established with collaboration of USAID. Recently, this business school has completed a development project from Government of Pakistan to establish an "Export Facilitation Center for Livestock and Poultry (EFCLP)" and submitted many research projects to various funding agencies which is a clear indicator of research orientation. This faculty also has state of the art IT center which provides networking and other related services to its all six campuses.

To give real world practical experience to our graduates, regular guest speaker lectures of successful business entrepreneurs and industrialists are arranged which help our students to blend their theoretical knowledge with practical scenarios. Moreover, arranging study tour to business organizations is a regular feature of this business school, which add value to our graduates. We encourage and facilitate our students to conduct their MRP (Management Research Projects) and internships in industry to maximize their exposure to business world.

Business School has highly qualified faculty comprising of 13 PhD faculty members out of which 8 are foreign qualified. The rest of all faculty members are PhD scholars as they are pursuing their studies in well-reputed universities of Pakistan and abroad. We are committed to uplift quality of education through classroom learning, field experiences, internship, case studies approach and research projects. I welcome you all in this alma mater and wish best of luck for your studies.

**Prof. Dr. Muhammad Azam, Ph.D.**

Dean, FLSBM/ UVAS Business School



# FACULTY OF LIFE SCIENCES BUSINESS MANAGEMENT (FLSBM)

## DEPARTMENT OF ECONOMICS AND BUSINESS MANAGEMENT

Chairman/Professor

Prof. Dr. Rana Muhammad Ayyub, Ph.D, Post. Doc. (NZ)

Assistant Professors

Dr. Muhammad Asif, Ph.D.

Dr. Adnan Sarwar, Ph.D.

Dr. Muhammad Imran, Ph.D.

Dr. Raheel Safdar, Ph.D.

Lecturers

Ms. Samia Ayyub, Ph.D. Scholar

Mr. Muhammad Zahid Iqbal, Ph.D. Scholar

Dr. Abaidullah, Ph.D.

## DEPARTMENT OF STATISTICS AND COMPUTER SCIENCE

Chairman/Associate Professor

Dr. Liaquat Ahmad, Ph.D.

Professor

Prof. Dr. Muhammad Azam, Ph.D.

Assistant Professors

Dr. Farhan Masud, Ph.D.

Dr. Muhammad Bilal, Ph.D.

Dr. Muhammad Khawar Bashir, Ph.D.

Dr. Azeem Ali, Ph.D.

Lecturers

Dr. Amir Ali, Ph.D.

# DEPARTMENT OF ECONOMICS & BUSINESS MANAGEMENT

## BBA 4 Years Program: Morning, Afternoon & Evening

### SCHEME OF STUDIES FOR BACHELOR OF BUSINESS ADMINISTRATION

Course Code	Course Title	Credit Hours
<b>SEMESTER ONE</b>		
MNGT-11101	Introduction to Business	3(3-0)
SOSC-11101	Functional English	3(3-0)
SOSC-11101	Islamic Studies/ Ethics	2(2-0)
STCS-11101	Applications of Information and Communication Technologies (ICT)	3(2-1)
QUNT-11101	Business Mathematics	3(3-0)
NTSC-11101	Everyday Science	3(2-1)
	Sub-Total	17(15-2)
<b>SEMESTER TWO</b>		
ACCT-11201	Fundamentals of Accounting	3(3-0)
MNGT-11202	Principles of Management	3(3-0)
ECON-11201	Micro Economics	3(3-0)
QUNT-11202	Business Statistics	3(3-0)
SOSC-11202	Ideology and Constitution of Pakistan	2(2-0)
SOSC-11202	Expository Writing	3(3-0)
SOSC-11203/ SOSC-11204	Holy Quran Translation / Ethics	1(1-0)
	Sub-Total	18(18-0)
<b>SEMESTER THREE</b>		
ACCT-11302	Financial Accounting	3(3-0)
MRKT-11301	Principles of Marketing	3(3-0)
ENGL-11303	Business Communication Skills	3(3-0)
MNGT-11303	Organizational Behavior	3(3-0)
ECON-11302	Macro Economics	3(3-0)
SOSC-11304	Sociology	2(2-0)
	Sub-Total	17(17-0)
<b>SEMESTER FOUR</b>		
FINC-11401	Business Finance	3(3-0)
ACCT-11403	Managerial Accounting	3(3-0)
MRKT-11402	Consumer Behavior	3(3-0)
SOSC-11405	Psychology	2(2-0)
ESGM-11401	Civics and Community Engagements	2(2-0)

DEBM-11404	Entrepreneurship	3(3-0)
SOSC-11406 / SOSC-11407	Holy Quran Translation-II / Ethics-II	1(1-0)
	Sub-Total	17(17-0)
<b>SEMESTER FIVE</b>		
FINC-11502	Corporate Finance	3(3-0)
MRKT-11503	Supply Chain Management	3(3-0)
ICTM-11502	E-commerce & AI	3(3-0)
MNGT-11505	Human Resource Management	3(3-0)
LWTX-11501	Business Law and taxation	3(3-0)
	Sub-Total	15(15-0)
<b>SEMESTER SIX</b>		
FINC-11603	Financial Markets	3(3-0)
QUNT-11603	Data Analysis and Forecasting	3(3-0)
ESGM-11602	Corporate Governance	3(3-0)
	Elective I	3(3-0)
MNGT-11606	Business Research Methods	3(3-0)
SOSC-11606/ SOSC-11607	Holy Quran Translation-III / Ethics-III	1(1-0)
	Sub-Total	16(16-0)
<b>SEMESTER SEVEN</b>		
MNGT-11707	Production Operations Management	3(3-0)
MNGT-11708	International Business	3(3-0)
MNGT-11709	Strategic Management	3(3-0)
	Elective II	3(3-0)
INTR-11701	Internship	3(0-3)
	Sub-Total	15(12-3)
<b>SEMESTER EIGHT</b>		
MNGT-11810	Total Quality Management	3(3-0)
	Elective III	3(3-0)
	Elective IV	3(3-0)
SOSC-11807/ SOSC-11808	Holy Quran Translation-IV / Ethics-IV	1(1-0)
PROJ-11801	Capstone Project	3(0-3)
	Sub-Total	13(10-3)
	<b>Total Credit Hours</b>	<b>128(120-8)</b>

# BBA SPECIALIZATION TRACKS

## 1 AI & Business Analytics Tracks

No.	Course Code	Course Name	Credits
Elective I	MRKT-11808	Big Data and Marketing	3(3-0)
Elective II	MRKT-11809	Digital Marketing	3(3-0)
Elective III	MRKT-11810	Artificial Intelligence in Business	3(3-0)

## 2. MARKETING

No.	Course Code	Course Name	Credits
Elective I	MRKT-11604	Sales and Advertising Management	3(3-0)
Elective II	MRKT-11705	Brand Management	3(3-0)
Elective III	MRKT-11806	Retail Marketing	3(3-0)
Elective IV	MRKT-11807	Services Marketing	3(3-0)

## 3. FINANCE

No.	Course Code	Course Name	Credits
Elective I	FINC-11604	Investment and Portfolio Management	3(3-0)
Elective II	FINC-11705	Islamic Banking & Finance	3(3-0)
Elective III	FINC-11806	Financial Reporting & Analysis	3(3-0)
Elective IV	FINC-11807	International Financial Management	3(3-0)

## 4 HUMAN RESOURCE MANAGEMENT

No.	Course Code	Course Name	Credits
Elective I	MNGT-11607	Recruitment & Selection	3(3-0)
Elective II	MNGT-11710	Training & Development	3(3-0)
Elective III	MNGT-11811	Performance Management	3(3-0)
Elective IV	MNGT-11812	Reward Management	3(3-0)

## 5. HEALTH ADMINISTRATION

No.	Course Code	Course Name	Credits
Elective I	HCAD-11601	Introduction to Health Services Administration	3(3-0)
Elective II	HCAD-11702	Health Care Economics	3(3-0)
Elective III	HCAD-11803	Healthcare Planning and Evaluation	3(3-0)
Elective IV	HCAD-11804	Hospital Management	3(3-0)

## 6. LIVESTOCK BUSINESS MANAGEMENT

No.	Course Code	Course Name	Credits
Elective I	LSBM-11601	Introduction to Livestock Production	3(3-0)
Elective II	LSBM-11702	Dairy Economics and Farm management	3(3-0)
Elective III	LSBM-11803	Livestock Supply Chain & Procurement	3(3-0)
Elective IV	LSBM-11804	Agricultural Marketing	3(3-0)

## 7. AGRIBUSINESS MANAGEMENT

No.	Course Code	Course Name	Credits
Elective I	AGBM-11601	Farm Planning and Management	3(3-0)
Elective II	AGBM-11702	Agri Production Economics	3(3-0)
Elective III	AGBM-11803	Agri Value Chain and Technology	3(3-0)
Elective IV	AGBM-11804	Agricultural Marketing	3(3-0)



# DEPARTMENT OF STATISTICS & COMPUTER SCIENCES

## BSCS Scheme of Studies

Code	Course Title	Credit Hours
<b>Semester 1</b>		
CSCI-27101	Programming Fundamentals	4 (3-1)
CSCI-27102	Application of Information & Communication Technologies	3 (2-1)
STCS-27103	Discrete Structures	3 (3-0)
STCS-27104	Calculus and Analytic Geometry	3 (3-0)
SOSC-27105	Functional English	3 (3-0)
<b>Total Cr Hrs</b>		<b>16 (14-2)</b>
<b>Semester 2</b>		
CSCI-27201	Object Oriented Programming	4 (3-1)
CSCI-27202	Database Systems	4 (3-1)
CSCI-27203	Digital Logic Design	3 (2-1)
SOSC-27204	Expository Writing	3 (3-0)
STCS-27205	Linear Algebra	3 (3-0)
<b>Total Cr Hrs</b>		<b>17 (14-3)</b>
<b>Semester 3</b>		
CSCI-27301	Data Structures	4 (3-1)
CSCI-27302	Artificial Intelligence	3 (2-1)
CSCI-27303	Computer Networks	3 (2-1)
CSCI-27304	Software Engineering	3 (3-0)
STCS-27305	Applied Physics	3 (2-1)
STCS-27306	Multivariable Calculus	3 (3-0)
<b>Total Cr Hrs</b>		<b>19 (15-4)</b>
<b>Semester 4</b>		
CSCI-27401	Computer Organization & Assembly Language	3 (2-1)
CSCI-27402	Theory of Automata	3 (3-0)
CSCI-27403	Advance Database Management Systems	3 (2-1)
CSCI-27404	Information Security	3 (2-1)
CSCI-27405	Elective-I (Advanced Programming)	3 (2-1)
STCS-27406	Probability & Statistics	3 (3-0)
SOSC-27407	Islamic Studies	2 (2-0)
<b>Total Cr Hrs</b>		<b>20 (16-4)</b>

<b>Semester 5</b>		
CSCI-27501	Operating Systems	3 (2-1)
CSCI-27502	HCI & Computer Graphics	3 (2-1)
CSCI-27503	Computer Architecture	3 (2-1)
DEBM-27504	Introduction to Management	2 (2-0)
CSCI-27505	Elective-II (Web Technologies)	3 (2-1)
	Elective-III	3 (2-1)
<b>Total Cr Hrs</b>		<b>17 (12-5)</b>
<b>Semester 6</b>		
CSCI-27601	Compiler Construction	3 (2-1)
CSCI-27602	Parallel & Distributed Computing	3 (2-1)
CSCI-27603	Elective-IV (Web Engineering)	3 (2-1)
CSCI-27604	Elective-V (Cloud Computing)	3 (2-1)
CSCI-27605	Elective-VI (Numerical Analysis)	3 (2-1)
CSCI-27606	Elective-VII (Software Testing & Quality Assurance)	3 (2-1)
<b>Total Cr Hrs</b>		<b>18 (12-6)</b>
<b>Semester 7</b>		
CSCI-27701	Final Year Project - I	2 (0-2)
CSCI-27702	Analysis of Algorithms	3 (3-0)
DEBM-27704	Introduction to Marketing	3 (3-0)
SOSC-27705	Technical & Business Writing	3 (3-0)
DEBM-27706	Entrepreneurship	2 (2-0)
<b>Total Cr Hrs</b>		<b>13 (11-2)</b>
<b>Semester 8</b>		
CSCI-27801	Final Year Project - II	4 (0-4)
SOSC-27802	Ideology and Constitution of Pakistan	2 (2-0)
SOSC-27803	Arts & Humanities	2 (2-0)
SOSC-27804	Civics and Community Engagement	2 (2-0)
<b>Total Cr Hrs</b>		<b>10 (6-4)</b>

## LIST OF ELECTIVES COURSES

### SEMESTER 5 (ELECTIVE-III)

Course No.	Course Title	Credit Hours
CSCI-27506	Mobile Application Development	3 (2-1)
CSCI-27507	Object Oriented Analysis & Design	3 (2-1)

# 1st Business Research International Conference on Life Sciences ( BRICL )



# INSTITUTE OF CONTINUING EDUCATION & EXTENSION (ICE&E)

The Institute was established in 2002, with the aim to impart technical training at professional and sub-professional level for socio - economic uplift.

## DIRECTOR

Dr. Irfan Irshad, Ph.D.

## ASSOCIATE PROFESSOR

Dr. Irfan Irshad Ph.D.

Dr. Hassan Mahmood Warriach, Ph.D.

## ASSISTANT PROFESSOR

Muhammad Iqbal (on study leave)

## LECTURER

Dr. Hassan Ashfaq, Ph.D. (Austria)

Dr. Muhammad Asif, Ph.D.

Dr. Naeem Akram Malik

Dr. Rubab Maqsood (on study leave)

Dr. Ghulam Qadir (on study leave)



# UVAS Pictorial



# IMPORTANT INSTRUCTIONS





# ALLOCATION OF SEATS

Degrees	Open Merit		AJK	N. Areas	Bal.	FATA	NWFP/KPK	CDFP (A/NAF) 1+1+1 = (3)	CAS	Disable Person	Sports Quota	COP (6%)	CV/PI	* FS	AHG/AR PVMC	U/AHGR PVMC	CPVS	CUE (FM)	CUE (1-16)	CUE (17 & Above)	Qirat	Naat	CPG	CI	CPI	DAE	*CFI	CM (2%)	PMSS	PTAP	Total	
	Male	Female																														
DVM (CC)	(M)	100	40	3	3	8	10	2	3	1	1	3	7	2	3	1	1	1	2	2	2	1	1	-	-	-	-	-	2	3	1	203
	(E)	184		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	-	190
DVM Jhang	(M)	86	35	-	-	-	-	-	-	1	2	6	2	-	1	1	-	-	2	2	2	1	1	-	-	-	-	-	2	-	1	145
	(E)	144		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	-	150
DVM Narawal	(M)	48	17	-	-	-	-	-	-	1	1	3	-	-	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	1	80	
	(E)	74		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	80	
BS Applied Micro (CC)	(M)	71	-	-	-	1	-	-	-	1	1	4	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	1	90	
	(E)	84		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	90	
BS Applied Micro (JC)	(M)	46	-	-	-	-	-	-	-	1	1	2	-	-	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	1	60	
BS Applied Micro (NC)	(M)	56	-	-	-	-	-	-	-	1	1	3	-	-	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	-	70	
BS MLT (CC)	(M)	71	-	-	-	1	-	-	-	1	1	4	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	1	90	
	(E)	84		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	90	
BS MLT (RC)	(M)	53	-	-	-	1	-	-	-	1	1	3	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	-	-	1	70	
	(E)	64		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	70	
BS MLT (JC)	(M)	44	-	-	-	1	-	-	-	1	1	2	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	-	-	1	60	
	(E)	54		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	60	
BS MLT (NC)	(M)	74	-	-	-	-	-	-	-	1	2	4	-	-	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	-	90	
BS Zoology (R.C)	(M)	58	-	-	-	-	-	-	-	1	1	3	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	1	75	
BS Zoology (J.C)	(M)	43	-	-	-	-	-	-	-	1	1	2	-	-	-	-	-	2	2	2	1	1	-	-	-	-	-	-	-	-	55	
BS Botany (R.C)	(M)	50	-	-	-	-	-	-	-	1	1	3	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	-	66	
BS F&AQ (RC)	(M)	26	-	-	-	-	-	-	-	1	1	1	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	-	-	1	40	
BS Dairy Tech (RC)	(M)	25	-	-	-	1	-	-	-	1	1	1	-	2	-	-	-	2	2	2	1	1	-	-	-	10	-	-	-	1	50	
BS Poultry Scie (RC)	(M)	40	-	-	-	-	-	-	-	1	1	2	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	-	-	1	55	
BS AP&T (RC)	(M)	40	-	-	-	-	-	-	-	1	1	2	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	-	-	1	55	
BS Genetics (RC)	(M)	26	-	-	-	-	-	-	-	1	1	1	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	-	-	1	40	
BS Bio Tech (CC)	(M)	62	-	-	-	1	-	-	-	1	1	3	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	1	80	
	(E)	64		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	70	
BS Bio Tech (RC)	(M)	30	-	-	-	-	-	-	-	1	1	2	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	-	-	1	45	
BS Bio Tech (JC)	(M)	35	-	-	-	-	-	-	-	1	1	2	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	-	-	1	50	
BS Bio-Chem (CC)	(M)	60	-	-	-	1	-	-	-	1	1	3	-	2	-	-	-	2	2	2	1	1	-	2	-	-	-	1	-	1	80	
	(E)	64		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	70	
BS Biological Sci (CC)	(M)	32	-	-	-	1	-	-	-	1	1	2	-	2	-	-	-	2	2	2	1	1	-	2	-	-	-	-	-	1	50	
	(E)	24		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	30	
BS Biological Sci (JC)	(M)	42	-	-	-	-	-	-	-	1	1	2	-	-	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	-	55	
BS Biological Sci (RC)	(M)	50	-	-	-	-	-	-	-	1	1	3	-	-	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	1	65	
BS Envi. Scie. (CC)	(M)	43	-	-	-	1	-	-	-	1	1	2	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	1	60	
	(E)	29		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	35	
BS N&D (CC)	(M)	81	-	-	-	-	-	-	-	1	2	4	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	1	100	
	(E)	89		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	95	
BS FS&T (CC)	(M)	70	-	-	-	-	-	-	-	1	1	4	-	2	-	-	-	2	2	2	1	1	-	-	-	-	2	1	-	1	90	
	(E)	84		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	90	
BS FS&T (RC)	(M)	43	-	-	-	-	-	-	-	1	1	2	-	2	-	-	-	2	2	2	1	1	-	-	-	-	2	-	-	1	60	
BBA	(M)	37	-	-	-	1	-	-	-	1	1	3	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	1	55	
	(A/N)	55		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	
	(E)	49		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	55	
Computer Science (CC)	(M)	75	-	-	-	-	-	-	-	1	2	-	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	2	-	-	90	
	(E)	84		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	90	
Computer Science (RC)	(M)	37	-	-	-	-	-	-	-	1	1	-	-	2	-	-	-	2	2	2	1	1	-	-	-	-	-	1	-	-	50	
	(E)	44		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	50	
Pharm-D	(M)	27	-	-	-	1	-	-	-	3	1	1	1	1	-	2	-	-	2	2	2	1	1	2	-	2	-	-	-	1	50	
	(E)	44		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	50	

**Legends:**

AJK = Azad Jammu & Kashmir, N. Areas = Northern Area, Bal = Baluchistan, FATA = Federally Administered Tribal Areas, N.W.F.P/ KPK, CDFP = Children of Defense Forces Personnel, CAS = Children of Army Shuhdas, DP = Disable Person, SQ = Sports Quota, COP = Children of Overseas Pakistani, CV/PI = Children of Veterinary /Poultry Industrialists, FS = Foreign Students, AHG/AR PVMC = Veterinary / Animal Husbandry Graduates / Alumni and Registered with PVMC, U/AHGR PVMC = Veterinary / Animal Husbandry Graduates Registered with PVMC, CPVS = Children of PVS, CUE(FM) = Children of University Employee (Faculty Members), CUE = Children of University Employees (BPS 17 & Above other than Faculty Members) / (BPS 1 to 16), Naat & Qira't, CPG = Children of Pharmacy Graduates, CI = Children of Industrialist, CPI = Children of Pharmaceutical Industrialist, DAE = Diploma Associate of Engineering, CFI = \*Children of Food Industrialists, CM = Children of Minorities, PMSS = Prime Minister Scholarship Scheme, PTAP =Pakistan Technical Assistance Program (Foreign Students).

\* FS (Foreign Students) Seats may be increased with the approval of competent authority in addition to the already allocated seats as per requirement.

**If the reserved seats mentioned in all degree programs cannot fill during the Academic Session 2025-26, then said seats will be converted into open merit seats.**



**Fee Schedule of Undergraduate Level Degree Programs Admitted in Academic Session 2025-26**

Sr. No.	Fee Head	Fee (1st Semester)	Fee (2nd Semester)	Fee 3rd Semester & onward *
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**Fee Schedule for Under Graduate Level Degree Programs**

01. DVM (All Campuses)

**City Campus**

- 01. Pharm-D
- 02. BS Applied Microbiology
- 03. BS Human Nutrition & Dietetics
- 04. BS Food Science & Technology
- 05. BS Biotechnology
- 06. BS Biochemistry
- 07. BS Biological Sciences
- 08. BS Environmental Sciences
- 09. BS Medical Laboratory & Technology
- 10. BS Computer Science

**Ravi Campus**

- 01. BS Medical Laboratory & Technology

**To be Charged at the time of Admission in the University**

1	Admission Fee (one time)	10,000	-	-
2	University Registration Fee (one time)	10,000	-	-
3	University Security (one time) Refundable	-	2,500	-
4	Library Security (one time) Refundable	-	5,000	-
5	University I.D Card (one time)	500	-	-
<b>Total of One time Charges</b>		<b>20,500</b>	<b>7,500</b>	<b>-</b>

**Regular Charges**

6	Tuition Fee (per semester)	39,100	37,800	37,050
7	Examination Fee (per semester)	13,000	13,000	13,000
<b>Total of Regular Charges</b>		<b>52,100</b>	<b>50,800</b>	<b>50,050</b>
<b>Total (Rs.)</b>		<b>72,600</b>	<b>58,300</b>	<b>50,050</b>

**Ravi Campus**

- 01. BS Food Science & Technology
- 02. BS Biotechnology
- 03. BS Biological Sciences
- 04. BS Poultry Science
- 05. BS Dairy Technology
- 06. BS Fisheries & Aquaculture
- 07. BS Botany
- 08. BS Zoology

**CVAS Jhang**

- 01. BS Applied Microbiology
- 02. BS Biological Sciences
- 03. BS Zoology

**KBCMA-CVAS Narowal**

- 01. BS Medical Laboratory & Technology
- 02. BS Applied Microbiology

**To be Charged at the time of Admission in the University**

1	Admission Fee (one time)	10,000	-	-
2	University Registration Fee (one time)	10,000	-	-
3	University Security (one time) Refundable	-	2,500	-
4	Library Security (one time) Refundable	-	5,000	-
5	University I.D Card (one time)	500	-	-
<b>Total of One time Charges</b>		<b>20,500</b>	<b>7,500</b>	<b>-</b>

## Fee Schedule of Undergraduate Level Degree Programs Admitted in Academic Session 2025-26

Sr. No.	Fee Head	Fee (1st Semester)	Fee (2nd Semester)	Fee 3rd Semester & onward *
<b>Regular Charges</b>				
6	Tuition Fee (per semester)	20,580	19,280	18,530
7	Examination Fee (per semester)	6,500	6,500	6,500
<b>Total of Regular Charges</b>		<b>27,080</b>	<b>25,780</b>	<b>25,030</b>
<b>Total (Rs.)</b>		<b>47,580</b>	<b>33,280</b>	<b>25,030</b>

### City Campus

01. BBA

#### To be Charged at the time of Admission in the University

1	Admission Fee(one time)	10,000	-	-
2	University Registration Fee(one Time)	10,000	-	-
3	University Security (refundable)	-	2,500	-
4	Library Security one Time(refundable)	-	5,000	-
5	Identity Card(one time)	500	-	-
<b>Total of One time Charges</b>		<b>20,500</b>	<b>7,500</b>	<b>-</b>

#### Regular Charges

6	Tuition Fee	18,990	18,990	18,990
7	Examination Fee(per semester)	13,000	13,000	13,000
8	Student Activity Charges	1,760	1,760	1,760
<b>Total of Regular Charges</b>		<b>33,750</b>	<b>33,750</b>	<b>33,750</b>
<b>Total</b>		<b>54,250</b>	<b>41,250</b>	<b>33,750</b>

The Students enrolled in **BBA (Afternoon)** Degree Program shall pay **Rs. 12,500/- Per Semester** in addition to normal fee and other dues.

The Students enrolled in **BBA (Evening)** Degree Program shall pay **Rs. 25,000/- Per Semester** in addition to normal fee and other dues.

### City Campus

01. BS Computer Sciences

#### To be Charged at the time of Admission in the University

1	Admission Fee(one time)	10,000	-	-
2	University Registration Fee(one Time)	10,000	-	-
3	University Security (refundable)	-	2,500	-
4	Library Security one Time(refundable)	-	5,000	-
5	Identity Card(one time)	500	-	-
<b>Total of One time Charges</b>		<b>20,500</b>	<b>7,500</b>	<b>-</b>

#### Regular Charges

6	Tuition Fee	25,490	25,490	25,490
7	Examination Fee(per semester)	13,000	13,000	13,000
8	Student Activity Charges	1,760	1,760	1,760
<b>Total of Regular Charges</b>		<b>40,250</b>	<b>40,250</b>	<b>40,250</b>
<b>Total</b>		<b>60,750</b>	<b>47,750</b>	<b>40,250</b>

The Students enrolled in **BS Computer Sciences (Evening)** Degree Program shall pay **Rs. 35,000/- Per Semester** in addition to normal fee and other dues.

## Fee Schedule of Undergraduate and Postgraduate Level Degree Programs Admitted in Academic Session 2025-26

### **Ravi Campus**

01. BS Computer Sciences

Sr. No.	Fee Head	Fee (1st Semester)	Fee (2nd Semester)	Fee 3rd Semester & onward *
<b>To be Charged at the time of Admission in the University</b>				
1	Admission Fee(one time)	10,000	-	-
2	University Registration Fee(one Time)	10,000	-	-
3	University Security (refundable)	-	2,500	-
4	Library Security one Time(refundable)	-	5,000	-
5	Identity Card(one time)	500	-	-
<b>Total of One time Charges</b>		<b>20,500</b>	<b>7,500</b>	<b>-</b>
<b>Regular Charges</b>				
6	Tuition Fee	12,365	12,365	12,365
7	Examination Fee(per semester)	13,000	13,000	13,000
8	Student Activity Charges	1,760	1,760	1,760
<b>Total of Regular Charges</b>		<b>27,125</b>	<b>27,125</b>	<b>27,125</b>
<b>Total</b>		<b>47,625</b>	<b>34,625</b>	<b>27,125</b>

The Students enrolled in **BS Computer Sciences (Evening)** Degree Program shall pay **Rs. 25,000/- Per Semester** in addition to normal fee and other dues.

### **MBA (Executive) Trimester**

#### **To be Charged at the time of Admission in the University**

1	Admission Fee(one time)	10,000	-	-
2	University Registration Fee(one Time)	10,000	-	-
3	University Security (refundable)	-	2,500	-
4	Library Security one Time(refundable)	-	5,000	-
5	Identity Card(one time)	500	-	-
<b>Total of One time Charges</b>		<b>20,500</b>	<b>7,500</b>	<b>-</b>
<b>Regular Charges</b>				
6	Tuition Fee	18,990	18,990	18,990
7	Examination Fee(per semester)	13,000	13,000	13,000
8	Student Activity Charges	1,760	1,760	1,760
<b>Total of Regular Charges</b>		<b>33,750</b>	<b>33,750</b>	<b>33,750</b>
<b>Total</b>		<b>54,250</b>	<b>41,250</b>	<b>33,750</b>

The Students enrolled in **MBA (Executive) Degree Program** shall pay **Rs.11,250/- per Semester** in addition to normal fee and other dues.

<b>Residential Charges</b>				
<b>To be Charged at the time of Admission in the University</b>				
1	Hostel Admission Fee (one time)	2,200	-	-
2	Furniture Charges (one time)	11,000	-	-
3	Hostel Security (one time) Refundable	5,500	-	-
<b>Total of One time Charges</b>		<b>18,700</b>	<b>-</b>	<b>-</b>
<b>Regular Charges</b>				
4	Room Rent (per semester)	10,890	10,890	10,890
5	Amenities to Boarder Students (per semester)	9,680	9,680	9,680
6	Hostel Utility Charges (per semester)	15,730	15,730	15,730
<b>Total of Regular Charges</b>		<b>36,300</b>	<b>36,300</b>	<b>36,300</b>
<b>Total (Rs.)</b>		<b>55,000</b>	<b>36,300</b>	<b>36,300</b>
* The university reserves the rights to increase the fee from 10% to 15%, if required, in next semesters.				
Sr. No.	Particulars			
1	The Undergraduate Students enrolled in following Evening Degree Programs shall pay <b>Rs. 100,000/- Per Semester</b> in addition to normal fee and other dues:- 01. Doctor of Veterinary Medicine (DVM), City Campus 02. Doctor of Pharmacy (Pharm-D)			
2	The Undergraduate Students enrolled in following Evening Degree Programs shall pay <b>Rs. 85,000/- Per Semester</b> in addition to normal fee and other dues:- 01. Doctor of Veterinary Medicine (DVM) at (Jhang & Narowal Campus)			
3	The Undergraduate Students enrolled in following Evening Degree Programs shall pay <b>Rs. 50,000/- Per Semester</b> in addition to normal fee and other dues:- 01. BS Medical Laboratory & Technology (City Campus) 02. BS Human Nutrition & Dietetics			
4	The Undergraduate Students enrolled in following Evening Degree Programs shall pay <b>Rs. 30,000/- Per Semester</b> in addition to normal fee and other dues:- 01. BS Applied Microbiology 02. BS Biotechnology 03. BS Biochemistry 04. BS Environmental Sciences 05. BS Food Science and Technology 06. BS Biological Sciences 07. BS Medical Laboratory & Technology (Ravi, Jhang and Narowal Campus)			

Sr. No.	Particulars
7	All the students shall pay <b>Rs. 1,500/-</b> as <b>PERN/ IT Services Charges (per semester)</b> in addition to normal dues.
8	Children of Overseas Pakistanis and Children of Veterinay / Poultry Industrialist / Pharmaceutical Industrialist shall deposit <b>Rs. 1,500,000/-</b> along with application form. In addition to above, the concerned students will also pay normal fee and other dues per semester.
9	The students enrolled in Veterinary Disciplines shall pay Pakistan Veterinary Medical Council Registration (PVMC) Fee & Pocket Size ID Card charges in addition to normal dues as detailed below.- 1. DVM Degree Program Rs.1,200/- 2. M. Phil Degree Program Rs.2,200/- 3. Ph. D Degree Program Rs.3,200/-
10	The students enrolled in Pharm-D Degree Program shall pay <b>Rs. 2,000/-</b> as <b>Registration Fee of Pharmacy Council of Pakitan.</b>
11	All the newly admitted students are required to deposit <b>Rs. 4,400/-</b> as Certificate Verification Charges in 1st Semester in addition to above mentioned dues.
12	As per Notification No. B&F/ 4013 dated 10-07-2020, 15% of Examination Fee additionally will be charged from the students of all affiliated institutes/ colleges as per fee schedule of their Academic Session.

### Fee for International Students

Sr. No.	Region	Standard Fee	% of Scholarship
1	<b>Developed Countries</b>	<b>10,000 US\$</b> (One time) and Normal Semester/ Hostel Dues	No Scholarship
2	<b>Gulf Countries</b>	<b>10,000 US\$</b> (One time) and Normal Semester/ Hostel Dues	Scholarship Upto <b>5,000/- US\$</b>
3	<b>Under Developed Countries</b>	<b>10,000 US\$</b> (One time) and Normal Semester/ Hostel Dues	Scholarship Upto <b>10,000/- US \$</b> and Normal Semester/ Hostel Dues



# STATUTES & REGULATIONS

In these statutes unless there is anything repugnant in the subject or context.

## 1. Definitions:

- a. "Council" means the Academic Council of the University of Veterinary & Animal Sciences, Lahore.
- b. "Course" means the course of study as prescribed in scheme of studies of DVM and Pharm-D degree Programs to be completed in a minimum of five years and maximum of seven years study and a minimum of four years and maximum of six years study for B.S (Hons.) degree programs.
- c. "Credit Hour" means the study and successful completion of a course of one hour per week per semester in theory or two hours per week per semester in a practical for all undergraduate degree programs except the degree of Pharm-D. i.e., the study and successful completion of a course of one hour per week per semester in theory or three hours per week per semester in practical.
- d. "Semester" means teaching time of twenty weeks inclusive of admission, conduct of examination, preparation and declaration of results, gazetted holidays etc.
- e. "Syllabus and Curriculum" means the syllabus and curriculum for a course of studies prescribed by the Academic Council.
- f. "Veterinary Hospital or Institution" means teaching and non-teaching Veterinary Hospital or Institution relevant to Livestock Health, Production or Technology or whatever name called and approved as such by the Council.
- g. "Internship Program" means to provide pre-service field training in the areas of Veterinary Medicine, Animal Husbandry and allied fields to the DVM students. The student shall spend a total of one semester at designated teaching Hospitals, Livestock and Poultry Farms (Govt. and private), Disease Diagnostic Laboratories and other relevant installations, milk plants, feed mills, abattoirs, farmers cooperatives etc. (Govt. and private); where they shall undertake skills and management development training. After the completion of the term of internship, the students shall be required to submit a report, seminar presentation, and viva voce examination.
- h. For DVM Degree Program, the student shall be graded as "S" (Satisfactory) or "NS" (Not satisfactory) based on his / her attendance, report, seminar presentation and viva voce.

## 2. Duration of the Course

- a. The DVM and Pharm-D degrees will consist of a scheme of study, curriculum and syllabus spreading over the period of minimum 5 academic years and the degree shall be awarded after successful completion of credit hours mentioned in scheme of study for each course; and the B.S.(Hons.) degree programs will consist of minimum 4 academic years and degree will be awarded after completion of credit hours mentioned in scheme of study for each course.

- b. In case of DVM degree, the minimum number of semesters for completing DVM shall be ten regular semesters, including a compulsory internship / training which shall be in tenth semester. Provided that in case a student does not qualify for the award of degree within the minimum period of ten semesters, he /she may continue his / her studies for a maximum of four more consecutive semesters (up to fourteen semesters, beyond which he / she shall not be eligible for enrollment). During internship, there shall be training in a teaching Veterinary Hospital, Livestock / Poultry Farm and Field training in Veterinary Production and Health.
- c. The medium of instruction and examination shall be English, except the course of Islamic studies, which shall be in Urdu as well as in English.

## 3. Duration of Semester

- a. There shall be two semesters in each academic year (Semester- I & Semester- II) of 20 weeks each. Out of 20 weeks 16 weeks shall be the actual teaching time, the rest may be utilized for admission, conduct of midterm & final examinations, preparation and declaration of results and a one week semester break.
- b. There shall also be a Semester-III of 10 weeks duration as part of an academic year and shall be optional. Students, who wish to pass "F" grade(s) and to improve "D" grade(s) for DVM & B.S.(Hons.) and "C" grade(s) for Pharm-D Degree, may enroll this semester in the course(s) offered. It shall not count towards residential requirements. Out of 10 weeks, 8 weeks shall be the actual teaching time; the rest be utilized for enrolment, conduct of midterm & final examination, declaration of results and one week semester break.

## 4. Scheme of Study

The scheme of study for each degree program has been given at the end of each degree program. This schedule may be amended from time to time by the concerned authority.

## 5. Curriculum and Syllabus Regulations

The curricula and syllabi may be amended by the concerned authority as and when a need arises.

## Admission Requirements

Only those candidates shall be admitted to these degree programs, who have passed:

- a. The Higher Secondary School Examination.
- b. Intermediate or pre-degree examination in science from a recognized University or Board with Physics, Chemistry, Biology or Mathematics (where indicated) & English.
- c. Any other examination having the scope and standard equivalent to the Intermediate Sciences Examination of a Pakistan University or Board with Physics, Chemistry, Biology or Mathematics (where indicated) and English.

## 1. Selection of Students

The selection of students for these degree programs shall be purely on merit.

## Explanation

Eligibility criteria for admission in Undergraduate Degree Programmes at this University and at its constituent colleges/affiliated institutions for the year 2022 only:-

1. Candidates securing at least 60% marks (excluding Hafiz-e-Quran) in F.Sc (Pre-Medical) or any other equivalent examination from a recognized Board/University can apply for admission for all degree programs DVM, Pharm D, B.S. (N&D), B.S. (Applied Microbiology), B.S. Biotechnology, B.S. Biochemistry, B.S. (FST) and B.S. (MLT). Candidates securing at least 45% marks (excluding Hafiz-e-Quran) in F.Sc (Pre-Medical) or any other equivalent examination from a recognized Board/University can apply for admission in B.S. (Hons.) Fisheries & Aquaculture, Biological Sciences, Poultry Science, Dairy Technology and Botany. Candidates possessing F.Sc (Pre-Eng.) can also apply for BS (Hons.) Environmental Sciences and BS (Hons.) Dairy Technology, Zoology, and BBA. However, Students having I.Com, ICS, F.A. are eligible to apply for BBA degree program.

### Final Merit will be determined as under:

- 1. The final merit will be based on marks obtained in Matric / O-Level or any other equivalent examination and F.Sc / A-Level or any other equivalent examination:

#### Weightage:

- Intermediate or Equivalent Part-1 (70%) / A Level (A1/ AS) or Any Other Foreign Equivalent Qualification (70%) / DAE (2 Years Passed Result) (70%)
- Matric / O level or Any Other Foreign Equivalent Qualification (30%)

2. This policy will be for all degree programmes for this year only.

3. During the admission the merit of students having same marks / percentages will be decided as follows:

- In case; if two students having same marks / percentage; merit will be given to the student who has higher age.
- In case both students having same date of birth, the student having greater marks in matriculation will be given merit.

## 2. Age

A candidate must not be over 25 years of age on the last date of admission.

## 3. Number of Students to be admitted

The Academic Council shall determine the number of students to be admitted in all degree Programs for each year's academic session.

## 4. Authority of Admission

The admission shall be made by the undergraduate Admission Committee which would be all Deans of Faculties / Principal.

## 5. Time for Admission

- a. Candidate shall be admitted at the beginning of the Semester-I. If a candidate fails to enroll in time, his / her admission shall stand cancelled.
- b. The Dean / Principal may refuse admission of a student without assigning any reason.

## Enrolment

1. A candidate shall, for so long as he / she has not completed all the requirements of the degree, enroll himself / herself for each forthcoming semester subject to the maximum admissible limit of 14 semesters in case of DVM and Pharm-D and 12 semesters in case of other B.S.(Hons.) degrees and the summer session immediately following the last semester; failing which his / her admission shall stand cancelled.
2. In case a student discontinues without permission, he / she may seek re-admission in the same semester next year, with the approval of the Vice-Chancellor on the recommendation of the Dean / Principal or subsequent year with the permission of the Academic Council; provided that he / she has not exhausted the maximum residential requirements.

### Clarification of Statutes 2(b) and Regulation III (1)

The semesters provided in excess of the normal duration of the course have to be treated as exactly identical to the original ten and eight for five and four Years Degree Programs, respectively in matter of regulating the course conduct.

This provision does not place any bar on the students' right to discontinue their studies during these extra four semesters. But what is inviolable in their case is their consecutive nature. One cannot skip a semester during this extra period and recover it beyond the last semester after it has ended. Next summer shall be considered as a terminal summer for such a candidate. For instance, if a student discontinues his / her studies in the 2nd last semester and the course in question is not offered in the next last semester, he / she cannot claim a right to enroll in the further next semester, except that he / she avails himself / herself of the terminal summer session. He / she shall have come to the end of his / her degree program.

3. An application for enrolment on the prescribed form (UG-I) accompanied by the prescribed fee receipt, shall be presented by the regular students on the days notified for this particular purpose: provided that the Dean concerned / Principal may in special circumstances and on payment of a late fee of Rs.3000/-, permit a student to enroll within 7 days after the commencement of the semester; provided further that the Vice-Chancellor may allow enrolment of a student after the expiry of 7 days of the commencement of the semester under special circumstances of the individual cases to be recorded in writing with double late fee till such time as it does not

conflict with the prescribed requirement of seventy five percent attendance in lecture and practical classes of each subject. Provided further that the students seeking admission for the first time in first degree courses must complete all admission / enrolment formalities within the date notified by the Dean of concerned faculty / Principal; failing which admission of such students may be allowed in consultation with the Vice-Chancellor till such time as it does not conflict with the prescribed requirements of 75% attendance in Lectures and Practical of each subject.

#### **EXPLANATION:**

Enrollment will only be considered “complete” when the enrolment form (UG-1) after uploading information in computer, complete in all respect, is submitted to the Dean of Faculty / Principal of College. Merely depositing of fee will not serve the purpose.

#### **7. Withdrawal of the Course(s)**

A student may be allowed to **change** the course(s) within 7 days of the commencement of the semester and to **withdraw** a course within 5 weeks of the commencement of the semester with the consent of the Advisory Committee.

#### **8. Minimum and Maximum Credit Hours for 5 years degree Programs:**

Each student shall enroll himself / herself in the first and second Semester for all the credit hours prescribed for these semesters. Subsequently, he / she shall have to enroll for courses carrying not less than 17 and not more than 27 credit hours. The students who wish to pass “F” and to improve “D” grade (s) (grade “C” for Pharm-D) may enroll during the Semester III for not more than 12 credit hours. In his / her last semester, i.e. in case of odd **9th** and **8th** in case of even, a student may enroll himself / herself for the courses carrying the remaining credit hours; provided that the maximum does not ordinarily exceed 30 credit hours. Provided further that the Dean of Faculty / Principal of College may allow a student to exceed a maximum limit of 30 credit hours by 1 to 4 credit hours, by which he / she may be falling short of total prescribed credit hours of course, in special circumstances to be determined carefully in each individual case. These extra credit hours shall be allowed only in the 8th and 9th semester.

In the case of semester III, the limit will be 12 credit hours; provided further that the Dean of Faculty may allow a student to exceed this limit of 12 credit hours to 16 credit hours of failed courses only by which he / she may be failing to complete the degree program. Provided further, no course shall be offered during the regular semester which does not fall within the “Scheme of Studies” in respective semester.

#### **Clarification of Regulations**

##### **1. Regular Semesters, i.e. Semester I & II**

a. Each student shall enroll himself / herself in the first and second semesters for all the credit hours prescribed for

those semesters.

- b. Subsequently, he / she shall have to register for courses carrying not less than 17 and not more than 27 credit hours.
- c. In his / her last semester (9th in case of odd courses and 8th in case of even courses), a student may enroll himself / herself for courses carrying the remaining credit hours i.e. up to 30 credit hours. This limit may be extended by the Dean of Faculty up to 34 credit hours in 9th Semester if no course of odd Semester is left behind. Similarly, he / she may enroll up to 34 credit hours in 8th Semester if no course of even Semester is left behind and student will complete the degree program after Enrolment of these extra credits.

##### **2. Semester III**

- a. During any Semester III, normally a student may enroll 'F' and 'D' grade courses (grade “C” for Pharm-D) up to 12 credit hours. In Semester-III following 10th, 12th and 14th regular semesters, a student may enroll failing courses only up to 16 credit hours provided that he / she will not be entitled to enroll any 'D' grade course(s) (grade “C” for Pharm-D).
- b. After 9th regular semester, if a student has yet to clear failing courses of more than 16 credit hours, he / she will enroll up to the normal limit of 12 credit hours only, which may include 'F' and 'D' grade course(s) (grade “C” for Pharm-D). He / she will enroll the remaining courses in the forthcoming regular i.e., Semester-I, Semester-II and Semester-III following thereafter as per “Scheme of studies”.

##### **9. Minimum and Maximum Credit Hours for BS-Hons. (Four Year) Degree programs:**

Each student shall enroll himself / herself in the first and second Semester for all the credit hours prescribed for these semesters. Subsequently he / she shall have to enroll for courses carrying not less than 15 and not more than 22 credit hours. In his/her last semesters, i.e., in case of odd 7th & 8th in case of even, a student may enroll himself / herself for the courses carrying the remaining credit hours; provided that the maximum does not ordinarily exceed 24 credit hours. Provided further that the Dean / Principal may allow a student to exceed a maximum limit of 28 credit hours by 1 to 4 credit hours, by which he / she may be falling short of total prescribed credit hours of course, in special circumstances to be determined carefully in each individual case. These extra credit hours shall be allowed only in the 7th and 8th semester.

The students who wish to pass “F” and to improve “D” grade (s) may enroll during the Semester III for not more than 12 credit hours. However, the Dean / Principal may allow a student to exceed this limit of 12 credit hours to 16 credit hours of failed courses only by which he / she may be failing to complete the degree program. Provided further that no

course shall be offered during the regular semester, which does not fall within the "Scheme of Studies" in respective semester.

### Clarification of Regulation

#### 1 Regular Semesters, i.e. Semester I & II

- a. Each student shall enroll himself / herself in the first and second semesters for all the credit hours prescribed for those semesters.
- b. Subsequently, he / she will have to register for courses carrying not less than 15 and not more than 22 credit hours.
- c. In his / her last semester (7th in case of odd courses and 8th in case of even courses), a student may enroll himself / herself for courses carrying the remaining credit hours i.e. up to 24 credit hours. This limit may be extended by the Dean / Principal, up to 28 credit hours in 7th Semester if no course of odd Semester is left behind. Similarly, he / she may enroll up to 28 credit hours in 8th Semester if no course of even Semester is left behind and student will complete the degree program after enrolment of these extra credits.

#### 10. Semester III

- a. During any Semester III, a student may enroll 'F' and 'D' grade courses up to 12 credit hours.
- b. In Semester III following 8th, 10th, and 12th regular semesters, a student may enroll failing courses only up to 16 credit hours provided that he / she will not be entitled to enroll any 'D' grade course(s).
- c. After 8th regular semester, if a student has yet to clear failing courses of more than 16 credit hours, he / she will enroll up to the normal limit of 12 credit hours only, which may include 'F' and 'D' grade course(s). He / She will enroll the remaining courses in the forthcoming regular i.e. Semester I, Semester II and Semester III following thereafter as per "Scheme of Studies".

#### Improvement of Grades

- a. In semester III or in any of the subsequent semesters, a student may repeat once those courses of previous semester(s) in which he / she had secured the lowest grade i.e. "D" ("C" for Pharm-D) only.
- b. Any improved grade will substitute "F" and "D" ("C" for Pharm-D) grades and will form a permanent part of the transcript.

#### Examination and Weightage

- a. A mid-term examination of one hour duration will be held during 9th week of the semester, which shall carry 30% of the total marks allocated for the course. This examination shall be conducted by the teacher concerned who shall determine form of the examination.

- b. In addition, quizzes, special home assignments and /or term papers shall carry 10% of the total marks allocated for the course which shall be uniformly split over the whole semester.

- c. The final examination shall be held at the end of the semester and shall carry 60% of the total marks allocated for the course.

- d. For the purpose of evaluation, one credit hour shall carry 20 marks e.g. five credits' course shall carry 100 marks. These marks shall be divided in accordance with the credit(s) assigned to theory/practical for each course.

- e. One hour of theory shall be equivalent to two hours of practical in term of marks.

#### Uniformity / Standards in Tests

In each Department / College, the respective Board of Studies shall maintain and examine all problems regarding uniformity/standards in tests, examinations and assignments, etc. Before the declaration of results of the semesters, any appeal from the student(s), teacher(s) or any other related matter shall be discussed in the Board of Studies and the decision of the Board shall be final. The students will be permitted to go through their answer books in the presence of the teacher concerned within 3 days after the award list is displayed on the Notice Board.

#### Practical Examination

Each laboratory experiment, exercise, surgical operation etc. shall be considered Practical examination and 80% marks shall be assigned for overall general performance during the semester and 20% for the final examination.

#### Declaration of Results

1. The teachers may upload results (awards) of the courses offered by them in computer in consultation with Director, I.T. and get print(s) of award list(s). The final award list(s) signed by the teacher will be sent to the office of the Controller of Examinations, accordingly; who will get them verified in accordance with the marks uploaded by the teachers. Have the award list(s) been synchronized with the marks uploaded; these will be saved in system.

2. For each subject, one copy of the award list shall be forwarded to the Chairman of the Department and Dean of Faculty concerned.

Minimum CGPA requirements for the award of DVM, Pharm-D. and B.S. (Hons.) degrees is 2.5. Minimum requirement to promote in each semester is as under

Semester	GPA / CGPA	Semester	GPA / CGPA
1	1.00	5	1.40
2	1.00	6	1.50
Summer	1.00	Summer	1.50
3	1.20	7	1.75
4	1.30	8	2.00
Summer	1.30	Summer	2.00

After summer session following 8th and up to 12th semester for Four Years Degree Program and 10th and up to 14th semester for Five Years Degree Programs, a student must obtain at least CGPA of 2.00 for his enrollment in subsequent semesters.

A student, who obtains CGPA of 2.00 but less than 2.50 on the completion of entire course work, may be allowed to repeat once the courses of the previous semesters in which he / she has obtained the lowest grades, in order to improve the CGPA so as to obtain minimum CGPA of 2.50 failing which he / she shall not qualify for the award of degree. :

### GPA/CGPA

GPA/CGPA shall be calculated at the end of each semester in accordance with the relevant Rules & Regulations.

### Minimum Passing Marks

In order to complete a course successfully, a student is required to obtain at least 40% marks each in Theory and Practical, separately for DVM, B.S. (Hons.) degrees and 50% marks each in Theory and Practical, separately for Pharm.D degree.

### Grade Point Average (GPA)

- a. "A" grade carries 4 quality points; whereas, B, C, D & F grade carry 3, 2, 1 and zero quality points, respectively, as mentioned below:

*For Pharm D. Degree program, grade 'D' will be considered fail (F)*

Grade	Value	Marks	Remarks
A	4	80 -100%	Excellent
B	3	65 -79%	Good
C	2	50 -64%	Satisfactory
D	1	40 -49%	Pass
F	0	Below 40%	Fail

- b. Maximum GPA / CGPA **4.00**  
 c. Minimum CGPA for obtaining Degree **2.50**  
 d. The grade point or quality point will be worked out on the basis of percentage of marks obtained by a student in each course separately according to a conversion table and not on the percentage of total marks obtained by a student.  
 e. The conversion table is available at the University website.

### Attendance Requirements

- a. A candidate having less than 75% of the attendance both in theory and practical separately in each course shall not be allowed to take the final examination of the course in a semester provided that the period of absence in case of participation in extracurricular /sports activities, with the permission of Senior Tutor /Director Sports shall be condoned.  
 b. The teacher concerned shall send a statement of weekly attendance of students in each course, theory and

practical, separately on the prescribed form, to the Chairman of the Department. The Chairman of the Department will send the monthly attendance to the Dean / Director / Principal. The name of the student, who remains absent from the classes continuously for two weeks without prior permission of the competent authority, shall be struck off on the rolls of University / College by the Dean / Director / Principal.

### Conduct of Examination

Examination system will be implemented with following directions:

- Results of mid-term examination will also be submitted to the Dean of the concerned Faculty and Chairman of the concerned Department within 7 days of examination. Four working days are meant for checking of answer books, while last 3 working days are exclusively specified for showing the papers to the students. This is a mandatory requirement. The Chairman of the concerned Department is required to adopt necessary measures where students feel free to discuss the marks awarded with the concerned teacher.
- A Grievance Committee will be constituted in each Faculty to address the issues of the students relating to their paper markings.
- Results (both mid and final term) should be displayed on the notice board of the Department.

### 1. Examination date-sheet for each degree program (practical and theory) may be prepared

separately and circulated / displayed by the Dean of concerned Faculty.

If a student enrolled in a semester has discontinued or is unable to sit in the final Examination due to illness duly certified by a Registered Medical Officer or under the circumstances beyond his / her control, to be determined in each case, on a written application by the student, may be allowed to discontinue which would be duly notified by the Dean / Director. He / she will be awarded "W" (withdrawal) grade provided he / she has attended the lectures by 75% or more. He may, however, enroll in the same semester the following year, with the permission of the Dean / Director or the subsequent year but with the permission of the Academic Council. A student who has shortage of lectures by 75% cannot avail this facility.

### Script of Examination

- a. The script of each final examination shall be shown to the students by the concerned teacher, taken back and then forwarded to the Controller of Examinations, who shall preserve the scripts for a year. If a mistake or a discrepancy in the marking of the scripts of a serious nature comes to the notice of the Controller of Examinations, he shall take action to get it rectified in a suitable manner after obtaining proper orders from the Vice-Chancellor.  
 b. The grade mentioned on the answer script shall be as

follows:

A, B, C, D, F\*, W\*\* & I\*\*\*

**F\* Fail** : No shortage of lectures but securing less than 40% and 50% marks either in practical or theory separately or combined in DVM / B.S. (Hons.) and Pharm-D degree programs, respectively.

**W\*\* Withdrawal**: (Discontinued during the final examination but no shortage of lectures)

**I\*\*\* incomplete**: (Shortage of lectures- less than 75%)

The students with “F” (fail) or “W” (withdrawal) grade(s) may repeat the course(s) in either the semester III or the forthcoming regular semester I & II; whereas grade “I” (Incomplete) has to repeat the course with the regular class of the forthcoming regular semesters I & II, not in the semester III.

### Calendar of Events

Events	Duration (in Weeks)
a. Semester -I	20
b. Semester -II	20

### Constitution of Advisory Committee

The Dean / Director / Principal, shall constitute Advisory Committee consisting of Senior Tutor and the concerned tutors in each respective class, who are responsible to provide adequate counseling and guidance to the students and a signatory body for enrolment forms. The advisory committee shall also be responsible to look whether the credit hours are according to the Rules and Regulations as mentioned in the scheme of studies of each degree course.

### Regulations Relating to Grant of Exemption from Examination on Ground of Illness and other Reasons

If a candidate is unable to appear in the Examination for any of the following reasons:

1. Serious illness
  2. Serious injury due to accident.
  3. Death of a near relative (Grand Father, Grand Mother, Father, Mother, Sister, Brother) on the day of the examination.
  4. His / her selection for or participation in an international sports contest as a national representative.
  5. In case of death of spouse (husband / wife) of the student.
- .
- a. Undergraduate Student shall be permitted to appear in Midterm Examination by the concerned Dean on the recommendations of the Teacher concerned.
  - b. The student shall be permitted to appear in the Final Term Examination by the Vice Chancellor on the recommendations of the Dean concerned.
  - c. The concerned Dean will notify the date of examination.

**NOTE: The missed examination will be conducted before the start of next semester.**

2. The applications of such candidates for missed Midterm

Examinations shall be submitted to the Dean concerned through the concerned Teacher and for missed Final Term Examinations shall be submitted to the Vice Chancellor through the Dean concerned not later than the 7th day from the date of missed Examination.

3. Such application must be certified by the Dean of Faculty that the candidate had a reasonable chance of success if he had appeared in the Examination and that the candidate could not appear in, or complete the Examination without great danger to his / her health, or other reason recorded above and it was physically impossible for the candidate to appear in, or complete the Examination.
4. Certificate of illness must be supported by a Registered Medical Practitioner and countersigned by Resident Medical Officer of University of Veterinary & Animal Sciences, Lahore.
5. Applicant will provide death certificate of near relative with application.

### Instructions for obtaining different certificates

#### Provisional Certificate

Application for Provisional Certificate should be accompanied by the following documents.

1. Complete E-44 form *i.e.* clearance certificate from the concerned Departments / persons.
2. Fee will be charged for the issuance of provisional certificate as notified by the office of the Treasurer from time to time.
3. Make an extra photocopy of the complete E-44 form for the purpose of character certificate.
4. Deposit E-44 in original along with original bank receipt in the office of the Controller of Examinations.
5. Membership of Alumni Association is mandatory before to issue a Provisional certificate.

#### Detail Marks Certificate

Application for Detail Marks Certificate should be accompanied by the following documents:

1. Certificate 'A' signed by Dean of the Faculty / Director / Principal.
2. Clearance from the Fee Clerk.
3. Clearance from Hostel Warden.
4. Clearance from Head of Department / Library.

#### Character Certificate

Application for Character Certificate accompanied by the following documents should be submitted in the office of the Dean / Director / Principal:

1. Photocopy of complete E-44 form along with photocopy of Provisional Certificate (original for verification).
2. Bank Challan of fee prescribed

Please visit [www.uvas.edu.pk](http://www.uvas.edu.pk) for further details on these policies.

# ADMINISTRATION



## ADMINISTRATION

### Registrar Office

Mr. Sajjad Hyder (Registrar)

Ms. Nazia Sultana (Deputy Registrar-SR/Coord.)

Mr. Zulfiqar Dogar (Deputy Registrar)

Mr. Irfan Chohan (Deputy Registrar)

### VC Secretariate

Dr. Muhammad Awais Asif (Secretary to VC)

### Treasurer Office

Mr. Muhammad Umar (Deputy Treasurer-  
Additional Charge of Treasurer)

Mr. Ch Muhammad Shafique (Deputy Treasurer)

### Controller of Examinations Office

Mr. Syed Zargham Hyder (Controller of Examination)

### Quality Enhancement Cell (QEC)

Dr. Dawar Hameed Mughal (Director)

Ms. Mubashara Aftab (Deputy Director)

### Directorate of Advanced Studies

Dr. Sakhara Mehmood (Deputy Director)



# SERVICES

## OFFICE OF RESEARCH, INNOVATION AND COMMERCIALIZATION (ORIC)

## International Exchange Linkages Program

Dr. Farhan Jamil  
Director

Dr. Muhammad Faiz Rasool  
Assistant Director



Directorate of External Linkages (DEL) facilitates and strengthens the UVAS partnership with external stakeholders including international & local universities, public and private sectors, research and technology organizations and social community. The objective is to synergize the intellectual and physical resources for socio-economic growth and strategic capacities using University-Industry collaboration as leverage.

Till date, the directorate has signed 123 National and 67 International MoUs with various universities, institutions and private organizations.

Summary of linkages in the last year is as under,

### International

1.	Anshun Technical College China
2.	Kazakh National Agrarian Research University ( KazNARU), KAZKISTAN
3.	Andijan Institute of Agriculture and Agrotechnologies, Andijan, Uzbekistan
4.	Kutahya Dumlupnar University, TURKIYE
5.	Huazong Agriculture University
6.	Department of Environmental Sciences ,JIANGXI University of Science and Technology
7.	School of Economics and Management , JIANGXI University of Science and Technology
8.	Faculty of Veterinary Medicine, Chittagong Veterinary and Animal Sciences University, Chattogram, Bangladesh
9.	Tang Chinese Education & Technology Ltd. Beijing,China
10.	Longer Jinhua Industrial Pvt Ltd
11.	Grameen Jano Unnayan Sangstha, Bangladesh

### National

1.	University of Sargodha
2.	Punjab Higher Education Commission (PHEC),
3.	Minhaj University Lahore
4.	University of Sargodha
5.	Police Animal Rescue Centre
6.	PKLI
7.	Amanat Dairies
8.	Lahore Polo Club
9.	The Samsons Agri Farms

Business Incubation Centre, UVAS is working vigorously to enchanter the environment of entrepreneurship in the university, since its inception in 2011 as the fifth model incubator of the country. This office provides a platform to explore & nurture the young business aspirants to become entrepreneurs. We provide all the technical & official support to the students who want to be their own boss.



## Business Incubation Center (BIC)

**Dr. Muhammad Hayat Jaspal**  
Director (Additional Charge)  
**Mr. Qaisar Hussain**  
Deputy Director

**Directorate of University Advancement and Financial Aid (DUAFA) has three offices**

### Office of Career Services (CS):

Office of Career Services aim to bridge the gap between university, job market and the alumni in order to create endless employment opportunities for UVAS graduates. This office provides counseling to students so that they can pave their career path perfectly.

### Office of Financial Aid (FA) Merit Scholarships

Need Based Scholarships Zakat Based Scholarships Financial Support

**Every 4 student at UVAS is a scholarship holder.**

### Chief Minister's Honhaar Scholarship Program at UVAS

UVAS in collaboration with Punjab Higher Education Commission (PHEC) and Government of Punjab has successfully disbursed scholarships to more than 1000 students.

### Office of University Advancement (UA)

University Advancement aims to show all stakeholders a clear, consistent and focused message about the university's mission, goals, priorities and performance that will increase public understanding about the university.

## DIRECTORATE OF UNIVERSITY ADVANCEMENT AND FINANCIAL AID (DUAFA)

**Dr. Muhammad Hayat Jaspal**  
Director (Additional Charge)  
**Mr. Muhammad Awais Asif**  
Assistant Director (Career Services )  
**Mr. Qaisar Hussain**  
SFAO (Additional Charge)  
**Mr. Qasim Hussain**  
Assistant Director  
(University Advancement)

Make a Choice  
**SUCCESS**  
in Life OR  
**DRUGS**



## DIRECTORATE OF STUDENTS' AFFAIRS

**Prof. Dr. Aneela Zameer Durrani**  
Principal Officer Student's Affairs  
**Dr. Muhammad Asad**  
DSA, City Campus, Lahore  
**Dr. Qaiser Akram**  
DSA, KBCMA, Narowal

**Dr. Khurram Waqas**  
Associate DSA, City Campus, Lahore  
**Dr. Huma Mujahid**  
Associate DSA, City Campus, Lahore  
**Prof. Dr. Muhammad Hassan Saleem**  
DSA, Ravi Campus, Pattoki  
**Dr. Ishtiaque Ahmad**  
Associate, DSA, CVAS, Jhang

## Disability Coordinators

**Ms. Rabia Khokar**  
Lecturer Institute of Microbiology  
**Dr. Muhammad Asif Ali**  
Lecturer Department of Food Sciences & Human Nutrition

## TRAINING CENTRE FOR BIOLOGIES PRODUCTION (TCBP)

**Prof. Dr. Aamir Ghafoor, Ph.D**  
Director



The office of Director Students Affairs is responsible for academic advising and support services delivery at University. An important function of this office is to promote extra-curricular activities amongst the students, provide them healthy outlets in sports and games, furnish them forums for cultivation of literary and artistic potentialities and make their stay on the campus a rich experience of multi-dimensional growth. Various societies work to explore ways to enhance or address aspects of the entire student experience, from education to student life to career planning, and works with students to develop innovative solutions to issues and concerns. The Staff is equipped to help students through effective guidance and counseling. The representing counters/ common rooms/student teacher center are being established here to facilitate the students to address their queries and concerns.



Office of Senior Tutor is one of the imperative components of student affairs and is responsible to inculcate highly commendable spiritual, social and moral values and a leadership quality in its taught. It organizes co-curricular activities for students at the campus. This Office has embarked upon a solid system which includes: Tutorial group meeting (TGM), Proctorial board and student societies that includes Qira'at & Naat Society, Debating Society, Quiz Club, Drama society " NATAK MANDLI", Literary Society "QIRTAS", Character building Society, Musical Society, Still and Film Society, IDEAS, Society for conservation of environment and nature , Vet crescent society , Vets care club , SAVERS , SKZ ,UVAS media club, Food and Nutrition society, CEMS, UVAS Quiz Club, The Artistry Hub and Blood Donor Society. This office fosters essential student welfare services in association with student's record branch. In addition an extensive tutorial group system has also been working under this office in which individual tutors meet their group students on Thursday every week to conduct healthy activities within groups to prepare a nursery of best performers at the University and inter-varsity levels.

This office is earnestly striving with the aim that the social and ethical uplift of our youth will not only help them to discover/polish their hidden talents, rather, contribute to a health community in the long run. To provoke the leadership potential in the students, Senior tutor office maximizes participation of volunteers in the management of various events at the university through a well-defined proctorial system. The development of Student Counseling Center is underway to broaden the vision of the students through their study or future work perspectives. One of devoted mission of this office is to look forward that our students enthusiastically participate in all creative activities updated on the event calendar from time to time. Moving with a positive outlook, this will lead our youth to excel during studentship with distinctive contributions as useful citizens of a healthier and peaceful society ahead in life.

## OFFICE OF THE SENIOR TUTOR

**Prof. Dr. Muhammad Yasin Tipu**  
Senior Tutor, City Campus, Lahore  
**Dr. Shahid Mahmood**  
Senior Tutor, Ravi Campus, Pattoki

**Dr. Muhammad Oneeb**  
**Dr. Saima Ashraf**  
**Dr. Faiz Rasool**  
Associate Senior Tutor, City Campus, Lahore

**Dr. Syed Aun Muhammad**  
Senior Tutor, CVAS, Jhang  
**Dr. Aman Ullah Khan**  
Associate Senior Tutor, CVAS, Jhang  
**Dr. Ali Ahmad**  
Associate Senior Tutor, KBCMA Narowal



# DIRECTORATE OF INFORMATION TECHNOLOGY (IT)

**Mr. Muhammad Rizwan Saleem**

Director IT

**Mr. Imran Younas Chohan**

Network Manager

**Mr. Yasir Ameen**

System Manager

**Mr. Zeeshan Ali**

Software Manager

**Mr. Muhammad Farooq**

Software Manager

**Mr. Athar Shafiqe**

Network Manager (Narowal)

To meet the challenges of day to day improvement in the knowledge information technology (IT) had emerged as an essential tool for the growth in every field of life. To strengthen the Livestock sector as well as Veterinary and Animal Husbandry Sciences, the UVAS has taken very progressive steps in order to adopt this latest technology. For this purpose a Directorate of IT has been established in the University. In this connection, since the last six years, with the collaboration of HEC, UVAS has spent a large amount to develop the IT infrastructure and Data center for the faculty members, staff and students of the University in the best and latest possible ways. Directorate of IT manages the overall IT infrastructure of University like network development, expansion and maintenance, providing maintenance / troubleshooting services (Network, Hardware and software) to all departments, software Development, Database Management & Website Development and 24-hours internet facility.



## SALIENT FEATURES AND SERVICES PROVIDED BY DIRECTORATE OF INFORMATION TECHNOLOGY (IT)

### Infrastructure

#### Data Center

State of the art centralized data center built with branded servers and cutting edge network and security equipment

#### Video Conferencing

State of the art setup to conduct official meetings, National / International Video Conferences at all campuses.

1600 +

Computers for Students, Faculty & Staff in various campuses

#### Network Infrastructure

Interlinking of various geologically dislocated departments and campuses via Fiber Optics & Radio Links for data and VOIP Services.

24X7

High Speed Internet through LAN & WLAN infrastructure engulfing all campuses & hostels

#### IT Labs

Fully Air conditioned labs operating in Morning & Evening shifts.

### Facilities & Services

#### User Access

University Stakeholders have access to Information Resources through centralized Data Repository.

#### Printing, Scanning & CD Writing

Alongwith Hardware/Software troubleshooting & repairing facilities available in Morning & Evening shifts for Students, Faculty and Staff

#### Free Licence Software

For Students & Faculty through collaboration with HEC

#### Training & Capacity Building

Various Departmental, general public & allied government departmental training services on need basis

40,000+

Latest journals through HEC Digital Library

#### Global EduRoom

Nationally & Internationally integrated EduRoom roaming service enabled through comprehensive WiFi blanket in City Campus Lahore.

### Automation

#### University Management System (UMS)

Management System developed to automate various university procedures and departmental operations.

#### Financial Applications

Customized Accounting Systems to manage purchases, inventory and financial transactions.

#### Admission System

Online automated application managing university admissions.

#### Online Exams

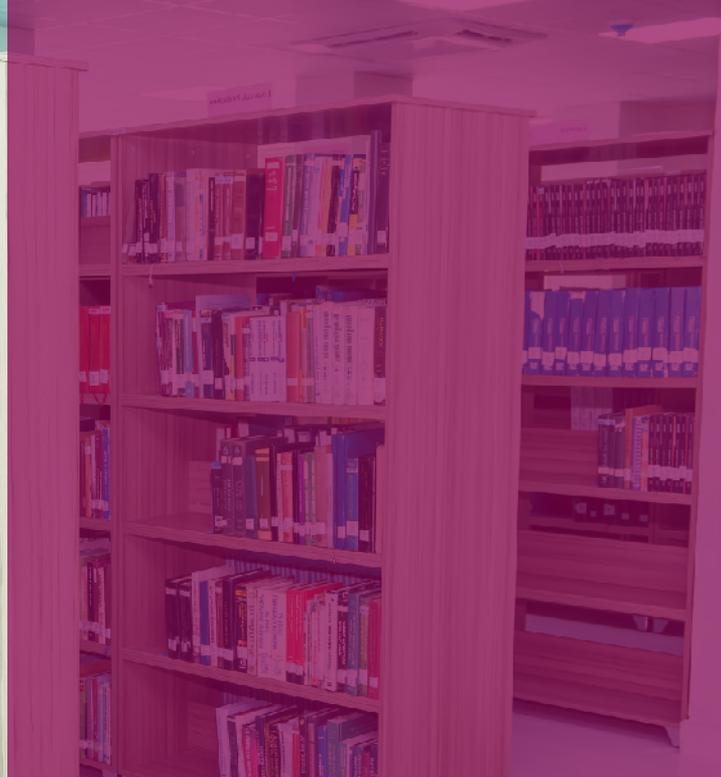
Admission, recruitment & Internship exams through online examination portal.

#### CTS

Online student teacher interaction system for sharing of educational resources.

#### Website

Global Accessibility of up to date information about UVAS Events, Academic activities and Achievements



The University Library is situated on the first floor adjacent to conference hall that has continuously been disseminating the latest knowledge/information to its faculty members, undergraduate & postgraduate students and to the entire livestock sector for the promotion of Higher Education, Research & Extension services. The University Library has made significant achievements constructing postgraduate reading hall with a computer lab consisting for conducting e-examination and for use of university students etc. The library is presently fully engaged in providing effective services for the promotion of skilled higher education, research, extension and digital services through its following sections:-

#### **1. Library Circulation Section / OPAC Services**

UVAS Library has fully computerized book's catalogue. The circulation services are being provided online, scanning the barcode systems through world reputed software Koha which is an open source bibliographical database. Library books and general collections have been placed in the main Library Hall where good seating arrangements are available. Library collection comprises of over 34,151 Text and Reference Books relating to Veterinary & Medical Sciences and other disciplines along with over 4200 M.Sc., M.Phil. & Ph.D. research theses. The library collection can be browsed through <http://opac.uvas.edu.pk/>

#### **2. Digital Library Section**

This section facilitates in accessing online databases such as Science Direct, Springer link, Blackwell etc. There are thousands online journals in these databases which very useful for the postgraduate students. Students can search these databases within university premises. Digital Library Section provides the relevant guidance & instruction on the digital library resources.

#### **3. Digital Repository**

UVAS Library has established the digital repository of indigenous research work. All the M. Phil & PhD theses are being uploaded at an online database which can be accessible from anywhere round the clock through <http://opac.uvas.edu.pk:8080/jspui/>

#### **4. The Book bank Section**

This section has been organized as a special part of the library to lend expensive text books to the students on long term basis as per book bank regulations. The book bank section comprises of over 5000 volumes of text books and students can make full use of this precious collection in enhancing latest knowledge.

#### **5. Computer Lab. & e-examination hall**

This fully air conditioned section was established in 1990. Multimedia, computers, scanner, laser printer, CD-writer and CD ROM searching facilities are available to facilitate library users. This section has been recently upgraded by installing 120 latest computers for conducting e-examination. Students can also use this Lab for study and explore internet facilities to search materials and documents required for completing their assignments.

## **UNIVERSITY LIBRARY**

**Mr. Muhammad Aslam**

Librarian, Lahore

**Ms. Abeeida Zia**

Deputy Librarian, Lahore

**Ms Rehana Kousar**

Asst. Librarian, Lahore

**Mr. Muhammad Sajid Hussain**

Assistant Librarian, Ravi Campus, Pattoki

**Mr. Azhar Ishaq**

Assistant Librarian, CVAS, Jhang

**Dr. Hafiz Muhammad Rizwan**

Officer Incharge, KBCMA, Narowal



**Prof. Dr. Rao Muhammad Ijaz**

Chairman, Sports Board

**Mr. Rana Amjad Iqbal**

Director Sports

**Ms. Humaira Latif**

Assistant Director, City Campus, Lahore

**Mr. Rizwan Iqbal**

Assistant Director, Ravi Campus, Pattoki

**Mr. M. Roshan Sarwar**

Assistant Director, Ravi Campus, Pattoki

**Mr. Rana Maqsood Ahmed**

Assistant Director, KBCMA Narowal

**Dr. Arbab Sikandar**

Officer Incharge Sports, CVAS Jhang

## OFFER SPORTS CLUBS

We offer Sports Clubs for comprising of many indoor and out door games including Tennis, Athletics, Cricket, Football, Hockey, Volleyball, Badminton, Table Tennis, Basketball, Bodybuilding, Judo, Karate, Wushu, Taekwondo, Jujitsu, Handball, Boxing, Squash, Weightlifting, Hiking Club, Kabaddi Club, Swimming Club, Wrestling, Rugby, Tug of war, rowing, Shooting, Archery, Swimming, Baseball, Chess and Cycling, etc.

## SPORTS FACILITIES

Academic learning and sports education are the complements of each other. They resemble the two sides of the same coin. If the sports education is carried out accompany with the academic curriculum, the over-all personality of the student are increased to greater extent. They get the qualities of the leadership, sharing, team spirit and tolerance from the sports. Sports education not only teaches the students to maintain the physical stamina, but also the habit of obedience, discipline, the determination to win, will power, etc.



## HOSTEL FACILITIES

**Prof. Dr. Aftab Ahmed Anjum**

Warden, City Campus, Lahore

**Dr. Muhammad Afzal**

Warden, Ravi Campus, Pattoki

**Dr. Syed Aun Muhammad**

Warden, CVAS Jhang

**Dr. Shahid Hussain Farooqi**

Warden, KBCMA, Narowal

**Dr. Javeria Khan**

Female Hall Superintendent, City Campus, Lahore

**Mr. Qadeer Islam**

Assistant Hostel Warden, City Campus, Lahore

**Mr. Saqib Manzoor**

Hall Superintendent, Ravi Campus, Pattoki

**Dr. Saba Sana (A-Block)**

Female Hall Superintendent, Ravi Campus, Pattoki



Accommodation has always been an acute problem for the students who come from outside Lahore. Hostels are conveniently close to most amenities and services, and the location provides an ideal base to explore the rest of Lahore. In order to provide academic and research environment, it is of utmost importance that various facilities like proper accommodation, sports and data search are made available to students. There are twelve separate hostels, five for boys and six for girls. All the hostels are equipped with necessary facilities to make the stay of students comfortable. Warden office monitors all type of activities of the hostels and work 24/7 to facilitate the students. In the traditional environment of hostels, the administration and teachers give parental care to each and every student. Boarders are taught to live like an extended family in perfect harmony with all the residents of the campus. There are beautiful grassy lawns in the hostel premises which give a healthy look to the area and also provide a source of climatic peace.

**Hostel Mosque:** In order to facilitate Islamic Teaching and the observance of the five obligatory prayers, there is an air conditioned mosque situated at the hostel premises. In the mosque there are facilities for daily as well as for Friday prayers. A separate prayer area facility is available for girls resident students.

**Mess Facility:** Separate mess facility for boys and girls is available, which is run by authorized contractors under the supervision of hostels mess committee. An independent self service mess is also working in the hostels providing variety of delicious foods.

**Extracurricular Activities:** A Sports Complex is adjacent to the hostels where students organize different sports activity in their leisure timings, besides other games, TV, Telephone facilities are also available to facilitate students.

**Internet Facilities:** A 7/24 wireless network facility is being provided so that students may have internet access everywhere in the hostel area.

**Shopping Center:** A small shopping center consists of a general store, photo copier shop and laundry shop and other shops to cater basic necessities of resident students. Cafeteria and fruit shop are also located which comprehensively serves the fresh items and juices to the students.

**Hair and Beauty Salon:** Hostel also provides separate facility of hair and beauty salon for girls and Barber shop for boys residents.

**Un-interrupted Power Supply:** Heavy duty generators are installed to provide backup power supply for specified period of time in case of power failure.

**Cold and Hot Water Supply:** Electrical water coolers with water purification systems have been installed at various locations in the Hostels and solar and gas geysers also installed to provide the hot water supply in winter season.

**Accommodation at Ravi Campus:** With opening of new departments and degree programs the number of students increases substantially. Additionally 4 residential facilities at Ravi Campus have been developed.

**Admission to Hostels:** Due to limited accommodation facilities, the students are admitted only on merit. The student who wish to reside in these hostels, should obtain the application form from the warden office, Iqbal Hall or university web site and submit it to the same office for the admission. The schedule of admission to the hostels will be notified on the notice board of warden office. For any information regarding hostel admission contact us during office hours at exchange No. 042- 99211449 -50 Ext. 400 and 401 and direct No. 042-99211420.

### Hostel Halls

- |                 |                |                          |                  |
|-----------------|----------------|--------------------------|------------------|
| 1. Iqbal Hall   | 2. Jinnah Hall | 3. Seth Sarwar Hall      | 4. Sir Syed Hall |
| 5. Khadija Hall | 6. Tahira Hall | 7. Tahira Hall Extension | 8. Ayesha Hall   |
| 9. Fatima Hall  | 10. Amina Hall | 11. Tipu Sultan Hall     |                  |

### University Magazine “VISION”

The University Magazine “Vision” is published once a year. The Vice Chancellor of the university is the Patron-in-Chief. A Publication Committee is responsible for publication of the Magazine and fortnightly News Bulletin of the university. An Editorial Committee of the students also works under the guidance of the Publication Committee.

### University Mosque

For the convenience of the resident students and the staff, a mosque was built on the University Campus in 1950 where the university has employed an Imam and Moazzan who lead the prayers for the growing number of “Namazies” in the mosque. Renovation and expansion in the university mosque is going on continuous basis and right now over 1000 Namazies can offer their prayers at a time.

### Medical & Health Services

University extends the medical facility to all the students. One Medical Officer & One female Senior Medical Officer, are available at the medical center. An ambulance is available all the time to shift the patient to the nearby hospital in emergency.

Medicines are available on the prescription of the medical officer. Medical & Health Committee of the university ensures the availability of the medicines & taking care of other health related issues.

### Veterinary Academy

The Veterinary Academy is Purpose built designed building to organized and facilities for training/ seminars/ conference/workshop/executive meetings of all stake holders and NGO's.

A variety of eminent professor, Researchers, foreign guest speakers, scholars, bureaucrats, army officers, policy makers, anchor and corporate sector expert are invite to deliver their talks on allotted themes, Which are followed by an exhaustive interaction with in-service trainees.

The academy uses the latest methodology and modern technology to provide the highest quality of education and learning environment. The syndicate method is employed to exchange ideas and benefits from the varied experience, qualifications and opinions of in-service veterinary professional. Self-placed instruction is used for learning facts, techniques and procedures. The academy thus blends various methods of teaching techniques to optimize learning practical experience.



## MEDICAL & HEALTH SERVICES

**Dr. Rahila Jabeen**  
Senior Medical Officer  
**Dr. Khan Bahadur Nayyer**  
Medical Officer

## VETERINARY ACADEMY

**Dr. Muhammad Asif**  
Deputy Director

# IMPORTANT MEET-UPS







## ACKNOWLEDGMENT

I am grateful to convene admission committee Prof. Dr. Aneela Zameer Durrani for her guidance in preparing this document. Moreover all the members of the Prospectus committee are acknowledged who have helped to gather material from their respective departments. I am especially thankful to following members of this committee who put their day and night efforts in completion of this prospectus:

**Dr. Adnan Sarwar Ph.D**  
Assistant Professor,  
UVAS Business School

**Mr. M. Rizwan Saleem**  
Director IT

**Mr. Sohail Abbas**  
Art Designer

**Mr. Basharat Ali Khan**  
Photographer

**Prof. Dr. Rana Muhammad Ayyub**  
Ph.D (UK), Post Doc. (NZ)  
Convener, Prospectus Committee



UNIVERSITY OF VETERINARY AND  
ANIMAL SCIENCES LAHORE

**144 Years of**  
Academic and  
Research  
Excellence

**Among Top 10**  
University of  
Pakistan in  
Academic/Sports  
(HEC Ranking)

**Among Top 251-300**  
In Asian Universities  
(QS World  
University Ranking  
2020)

**2nd Best University**  
In Agriculture/  
Veterinary Category

## **University of Veterinary and Animal Sciences, Lahore**

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