

# University of Veterinary and Animal Sciences, Lahore

## DISCLAIMER

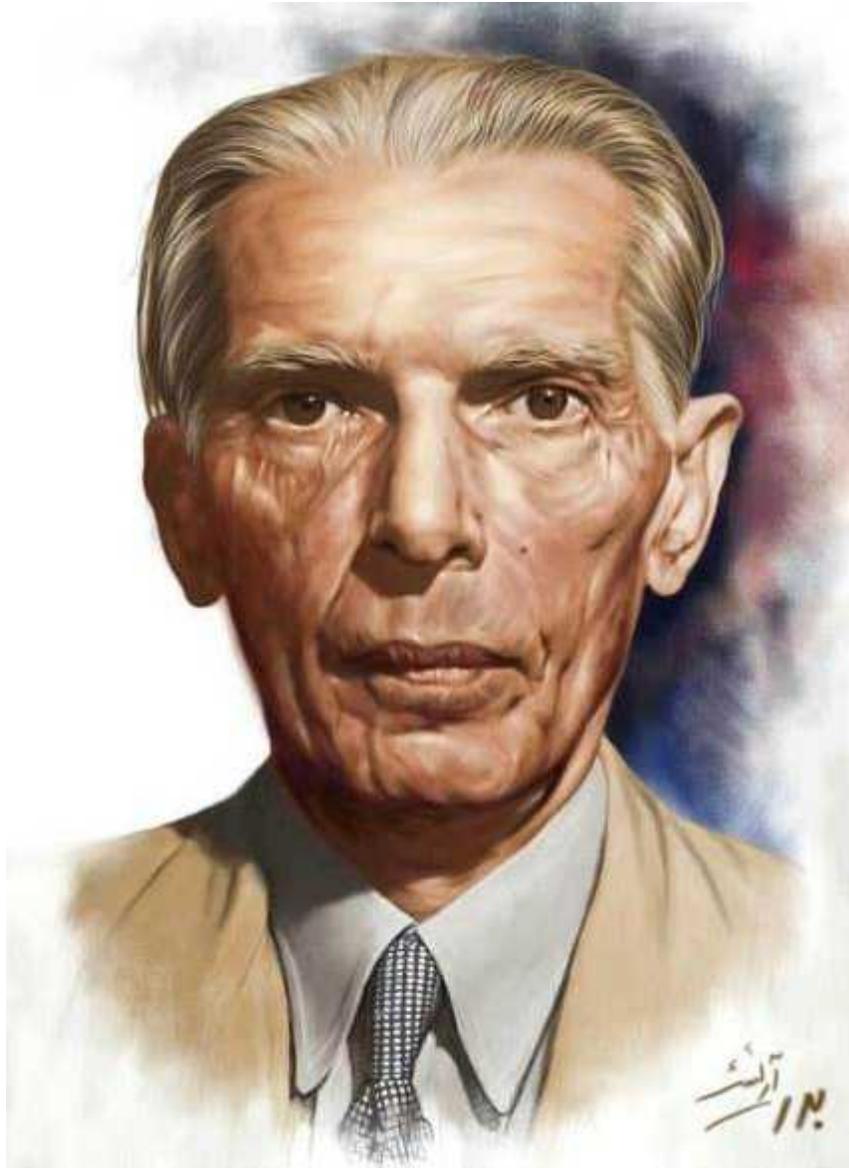
This prospectus contains information on the various aspects of the educational set up, admission procedure, criteria of examinations, rules and regulations for discipline, fee schedules and courses of study etc. for degrees of B.S. (Hons.) Applied Microbiology, B.S. (Hons.) Applied Zoology (Fisheries/Wildlife) **Morning & Evening**, B.S. (Hons.) Biotechnology and **Bioinformatics**, B.S. (Hons.) Dairy Technology, B.S. (Hons.) Environmental Sciences, B.S. (Hons.) Poultry Science, **B.S. (Hons.) Nutrition and Dietetics**, Doctor of Pharmacy (Pharm D), 5 years, Morning and Evening and Doctor of Veterinary Medicine (DVM), 5 years, Morning and Evening offered at UVAS, Lahore and CVAS Jhang. The University Administration reserves the right to change any rules/regulations applicable to the students; whenever it is deemed appropriate or necessary.

**Prof. Dr. Nasim Ahmad, S.I.**  
Dean

Convener, Admission Committee  
University of Veterinary and Animal Sciences, Lahore  
Telephone: 042-99212864, 9211374 Ext.175, 176, Fax: 042-99212864  
Website: [www.uvas.edu.pk](http://www.uvas.edu.pk)

Full information on statutes, rules, regulations, policies and procedures of the University are given in the UVAS Ordinance and First Academic Calendar and amendments there off. Copies of which are available from the University





**Quaid-e-Azam Muhammad Ali Jinnah**  
(Father of the Nation)



**Sardar Muhammad Latif Khan Khosa**  
Governor of the Punjab / Chancellor

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## Message from the Vice-Chancellor

First Veterinary School in Asia was established in Lahore in 1882 which was given status of College and then upgraded as first University of Veterinary and Animal Sciences in the Muslim world in 2002. Spread over more than 1300 acres, University has five campuses i.e. City Campus Lahore, Avian Research & Training (ART) Centre Lahore, Ravi Campus Pattoki, College of Veterinary and Animal Sciences, Jhang and Para Veterinary School, Karor Lal-Eason, Layyah.



Our programs and services are driven by national needs and economy with entrepreneurial spirit. A 5-year DVM program is being offered historically. Other degree programs that we offer include those of Pharm D and B.S. (Hons.) programs in the field of Applied Microbiology, Biotechnology and Informatics, Environmental Sciences, Dairy Technology, Poultry Science and Applied Zoology (Fisheries/Wildlife). M.Phil and Ph.D. degree programs are offered by 23 and 20 departments respectively. Recently University has initiated Undergraduate program in Nutrition and Dietetics and Post Graduate Diploma in Food Safety and Controls funded by European Union and implemented by UNIDO, WIPO and ITC.

UVAS offers a unique learning environment with hands on training in dairy, sheep, goats, poultry and fish farms. Parallel practical opportunities exist in the fields of wildlife, aviaries, pharmaceuticals, biologicals, feed production and milk processing. The faculties of the University are committed to offer quality teaching, research facilities and services. Curriculum is responsive to the changing needs of industry. Outstanding computer labs, spacious air-conditioned lecture rooms equipped with modern audio visual aids and video conference facilities are available for students. Veterinary teaching hospital with outdoor and indoor facility, outreach clinic, pet center, postmortem block, disease diagnostic and research laboratories are of international standards. All these facilities are supported by a central library having latest collection of text books, reference books, research journals and digital library facilities.

I encourage you to explore our website ([www.uvas.edu.pk](http://www.uvas.edu.pk)) where you will find a wealth of information about UVAS that will help you in making important decisions regarding creating a relation with this unique seat of learning. I welcome the students joining this prestigious professional University. I assure that you will find conducive environment for learning, training and skill development to prepare you for future challenges in your life.

We at UVAS are “Provoking Potentials & Producing Professionals”.

**Prof. Dr. Talat Naseer Pasha**  
Vice Chancellor

## HISTORY OF EDUCATION AT UVAS

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



The up-gradation of College of Veterinary Sciences, Lahore in 2002, to the status of University is considered as an obvious testimony to the fact that the Government is committed to achieving the objective of improved institutional arrangements for further research, human resource development and poverty alleviation. A five years composite DVM degree program covering both aspects of animal health and production was initiated. So far about 6500 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. Many of the

graduates of this prestigious institution joined the Civil Services in Livestock Department. Our alumni are also on the faculty of academic institutions with in 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 former graduates of this prestigious institution have ventured into entrepreneurship in the livestock industry with great success.

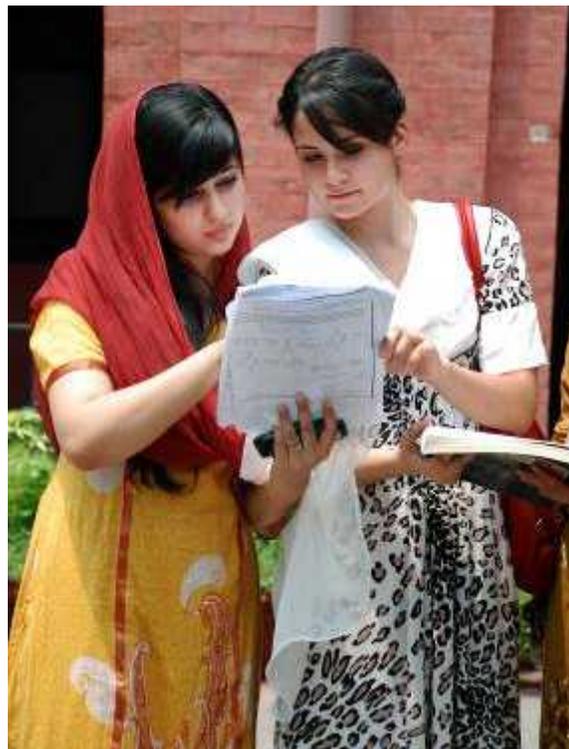
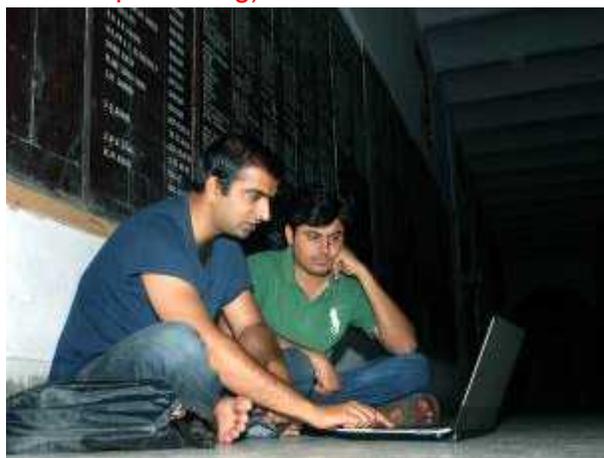
UVAS provides ample opportunities to the students to discover themselves, realize their true potential and prepare for the future challenges in field of livestock and poultry production as the demand for the animal proteins (meat, eggs, fish and milk) is increasing every day. In view of the emerging highly significant role of livestock in National Economy, the UVAS has initiated many new degree programs to provide required human resource for the developmental activities of this sector.



## UNDERGRADUATE DEGREE PROGRAMS

Applications for admission to various undergraduate degree programs are invited through an advertisement in the National Press. Admission is made purely on merit basis amongst the applicants. Various requirements for admission to these courses are mentioned in the appended admission form. The following degree programs are offered by the University.

- ❖ B.S. (Hons.) Applied Microbiology, 4 years B.S. (Hons.)
- ❖ Applied Zoology (Fisheries/Wildlife), 4 year (Morning & Evening) Evening classes at Ravi Campus Pattoki.
- ❖ B.S. (Hons.) Biotechnology and Informatics, 4 years
- ❖ B.S. (Hons.) Dairy Technology, 4 years
- ❖ B.S. (Hons.) Environmental Sciences 4 years
- ❖ B.S. (Hons.) Poultry Science, 4 years
- ❖ B.S. (Hons.) Nutrition and Dietetics, 4 years (Morning & Evening)
- ❖ Doctor of Pharmacy (Pharm D), 5 years, Morning and Evening
- ❖ Doctor of Veterinary Medicine (DVM), 5 years, Morning and Evening (Main Campus/Jhang)



All the degrees are offered after successful completion of 4 complete academic years consisting of 8 regular semesters except for DVM (*with one semester of Internship*) & Pharm D those are awarded after successful completion of 5 years. Students who have passed F.Sc. (Pre-Medical) or equivalent examination from a Board of Intermediate and Secondary Education are eligible for the admission. However students passing F.Sc. (Pre-Engineering) & DAE (Food Technology) can also apply for B.S. (Hons.) Dairy Technology. Student possessing ICS & Pre-Engineering can also apply for B.S. (Hons.) Biotechnology and Bioinformatics. **The students, for training purposes will be utilizing the state of the art Teaching and Research facilities being established at the Ravi Campus, Pattoki.**

## Submission of Application

1. Applications from the eligible candidates are invited on the prescribed forms for admission to above mentioned degree programs for the academic session 2012-13 at the University of Veterinary & Animal Sciences, Lahore; and for DVM at the College of Veterinary & Animal Sciences, Jhang. Applications, complete in all respects, be submitted, either in person or by the registered post, to the office of the Convener, Admission Committee, UVAS, Lahore and for DVM degree (Jhang Campus) in the office of the Principal, College of Veterinary & Animal Sciences, Jhang on or before the last date published in the National Press. No application shall be accepted after the last date, even if it was dispatched by the post. Incomplete applications will be rejected without any prior notice.



2. The candidates domiciled in any district of Pakistan, who have passed FSc (Pre-Medical

/Pre-Engineering) examination from any of the Educational Boards or an examination recognized as equivalent thereto from a recognized institution securing at least 60% (660/1100) (excluding Hafiz-e-Quran, if any) are eligible to apply for admission. If an applicant is Hafiz-e-Quran, 20 marks will be added to his total marks obtained in FSc examination to determine his admission merit.

3. A candidate seeking admission must not be over 23 years of age on the date of admission.
4. The application forms are available in the prospectus which can be obtained from the Office of the Convener Admission Committee UVAS, Lahore or office of the **Principal, College of Veterinary and Animal Sciences, 8 Km, Chaniot Road, Jhang**, on payment of the prescribed price.
5. **The candidates are directed to fill the application form carefully after reading the instructions and especially the column for preferences of different disciplines.**

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 office of Convener of the Admission Committee and for those who have opted for Jhang campus DVM degree, in the office of the Principal, College of Veterinary and Animal Sciences, Jhang, on the date mentioned in the admission advertisement in the National Press. Candidates shall not be informed about their selection and as such they will have to check regarding their admission from the lists of selected candidates. 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. His name will also be displayed on the website and Notice Boards.

**ALLOCATION OF SEATS OF DIFFERENT UNDERGRADUATE DEGREE PROGRAMS****Doctor of Veterinary Medicine (DVM) Lahore Campus**

Name of Category	No. of seats for Session, 2012-13 (Morning)	No. of seats for Session, 2012-13 (Evening)
<b>(Open Merit)</b>		50
Male:	110	
Female:	15	
Nominees of Azad Jammu & Kashmir	03	
Nominees of Northern Areas	03	
Nominees of Balochistan	05	
Nominees of FATA	10	
Children of Defense Forces Personnel (one for each force i.e Army, Navy, PAF)	03	
Disable Persons	01	
Sports Quota	02	
Foreign Students	03	
Children of Overseas Pakistanis	02	05
Children of Veterinary / Animal Husbandry Graduates	02	
Children of Veterinary / Poultry Industrialists		05
Children of Para Veterinary Staff	01	
Children of University Employees		
i) Teacher	01	
ii) Others (Non-teaching staff)	01	
<b>Total :</b>	<b>162</b>	<b>60</b>
<b>Grand Total:</b>	<b>222</b>	

**Doctor of Veterinary Medicine (DVM) Jhang Campus**

Name of Category	No. of seats for Session, 2012-13 (Morning)	No. of seats for Session, 2012-13 (Evening)
<b>(Open Merit)</b>		40
Male:	53	
Female:	05	
Sports Quota	01	
Children of Veterinary / Animal Husbandry Graduates	01	
Children of Veterinary / Poultry Industrialists		05
Children of University Employees		
i)Teacher	01	
ii)Others (Non-teaching staff)	01	
<b>Total :</b>	<b>62</b>	<b>45</b>

Grand Total:

107

**Doctor of Pharmacy (Pharm-D) Lahore Campus**

Name of Category	No. of seats for Session, 2012-13 (Morning)	No. of seats for Session, 2012-13 (Evening)
<b>A. (Open Merit)</b>	39	50
Foreign Students	02	
Children of Pharmacy Graduates	02	
Children of Pharmaceutical Industrialists	02	05
Children of University Employees		
i) Teacher	01	
ii) Others (Non-teaching staff)	01	
Children of Defense Forces Personnel (one for each force i.e Army, Navy, PAF)	3	
Disabled Persons	01	
Children of Overseas Pakistanis	03	05
Sports Quota	01	
<b>Total:</b>	<b>55</b>	<b>60</b>
<b>Grand Total:</b>	<b>115</b>	

**B.S. (Hons.) Applied Microbiology**

Name of Category	No. of seats for Session, 2012-13
Open Merit	50
Children of University Employees	
i) Teacher	01
ii) Others (Non-teaching staff)	01
Sports Quota	01
<b>Total (Morning):</b>	<b>53</b>

**B.S. (Hons.) Applied Zoology (Fisheries / Wildlife)**

Name of Category	No. of seats for Session, 2012-13
Open Merit	49
Children of University Employees	
i) Teacher	01
ii) Others (Non-teaching staff)	01
Sports Quota	01
<b>Total (Morning):</b>	<b>52</b>

<b>DVM (Evening):</b>	<b>50</b>
<b>Grand Total:</b>	<b>102</b>

### **BS (Hons.) Dairy Technology**

<b>Name of Category</b>	<b>No. of seats for Session, 2012-13</b>
Open Merit	
F.Sc.	15
DAE (Food Science)	05
Children of University Employees	
i) Teacher	01
ii) Others (Non-teaching staff)	01
Sports Quota	01
<b>Total (Morning):</b>	<b>23</b>

### **B.S. (Hons.) Poultry Science**

<b>Name of Category</b>	<b>No. of seats for Session, 2012-13</b>
Open Merit	30
Children of University Employees	
i) Teacher	01
ii) Others (Non-teaching staff)	01
Sports Quota	01
<b>Total (Morning):</b>	<b>33</b>

### **B.S. (Hons.) Biotechnology & Bioinformatics**

<b>Name of Category</b>	<b>No. of seats for Session, 2012-13</b>
<b>Open Merit</b>	<b>35</b>
Disable Person	01
Sports Quota	01
Foreign Students	01
Children of University Employees	
i) Teacher	01
ii) Others (Non-teaching staff)	01
<b>Total (Morning):</b>	<b>40</b>

### B.S. (Hons.) Environmental Sciences

Name of Category	No. of seats for Session, 2012-13
<b>Open Merit</b>	36
Disable Person	01
Sports Quota	01
Children of University Employees	
i) Teacher	01
ii) Others (Non-teaching staff)	01
<b>Total (Morning):</b>	<b>40</b>
<b>Grand Total</b>	<b>40</b>

### B.S. (Hons.) Nutrition and Dietetics

Name of Category	No. of seats for Session, 2012-13
<b>Open Merit</b>	36
Disable Person	01
Sports Quota	01
Children of University Employees	
i) Teacher	01
ii) Others (Non-teaching staff)	01
<b>Total (Morning):</b>	<b>40</b>
<b>Evening</b>	<b>40</b>
<b>Grand Total</b>	<b>80</b>



## Annual Fee Structure for All Degree Programs Except Biotechnology & Bioinformatics and Nutrition & Dietetics

Fee Head	1 <sup>st</sup>	2nd Semester and
	Semester	Onward
	Fee (Rs.)	Fee (Rs.)
Tuition Fee (Per semester)	1160	1160
Admission Fee (one time)	6340	0
Examination Fee (Per semester)	1500	1500
Registration Fee (One time)	4490	0
Conservancy Charges (one time)	4490	0
Medical Fee (Per semester)	460	460
University Security (One time) Refundable	920	0
Computer Charges (Per semester)	1500	1500
Library Security(One time) Refundable	2510	0
Sports Fee (Per semester)	640	640
Magazine Fund (Per semester)	260	260
Student Welfare Fund (Per semester)	260	260
Inter University Comm. Charges (Per semester)	130	130
Student Support Fund (Per semester)	310	310
University I.D. Card (one time)	260	0
User Charges (One time)	2230	0
Mosque Fund (Per semester)	200	200
Amenities to Students (Per semester)	10070	10070
F.Sc. Certificate Verify. Fee (one time)	2160	0
<b>Total</b>	<b>39890</b>	<b>164980</b>

### B.S.(Hons.) Biotechnology & Bioinformatics

Fee Head	1 <sup>st</sup>	2nd Semester and
	Semester	Onward
	Fee (Rs.)	Fee (Rs.)
Tuition Fee (Per semester)	1160	1160
Admission Fee (one time)	6340	0
Examination Fee (Per semester)	1500	1500
Registration Fee (One time)	4490	0
Conservancy Charges (one time)	4490	0
Medical Fee (Per semester)	460	460
University Security (One time) Refundable	920	0
Computer Charges (Per semester)	1500	1500
Library Security(One time) Refundable	2510	0
Sports Fee (Per semester)	640	640

Magazine Fund (Per semester)	260	260
Student Welfare Fund (Per semester)	260	260
Inter University Comm. Charges (Per semester)	130	130
Student Support Fund (Per semester)	310	310
Degree Special Requirement	18000	18000
University I.D. Card (one time)	260	0
User Charges (One time)	2230	0
Mosque Fund (Per semester)	200	200
Amenities to Students (Per semester)	10070	10070
F.Sc. Certificate Verify. Fee (one time)	2160	0
<b>Total</b>	<b>57890</b>	<b>34490</b>

N

<b>Residential Charges</b>		
Hostel Admission fee (One Time)	1500	0
Room Rent (Per Semester)	1000	1000
Light Charges (Per Semester)	2000	2000
Fan / Hot water charges (Per Sem.)	770	770
Suigas Charges (Per Semester)	770	770
Utencil Charges (Per Semester)	280	280
Furniture Charges (One Time)	3000	0
Water Chargers (Per Semester)	280	280
Amenities to Boarder Students / Semester	2160	2160
Hostel Security (One Time Refundable)	4880	0
Internet Charges	2000	2000
<b>Total (Rs.)</b>	<b>16940</b>	<b>9260</b>

#### NOTE

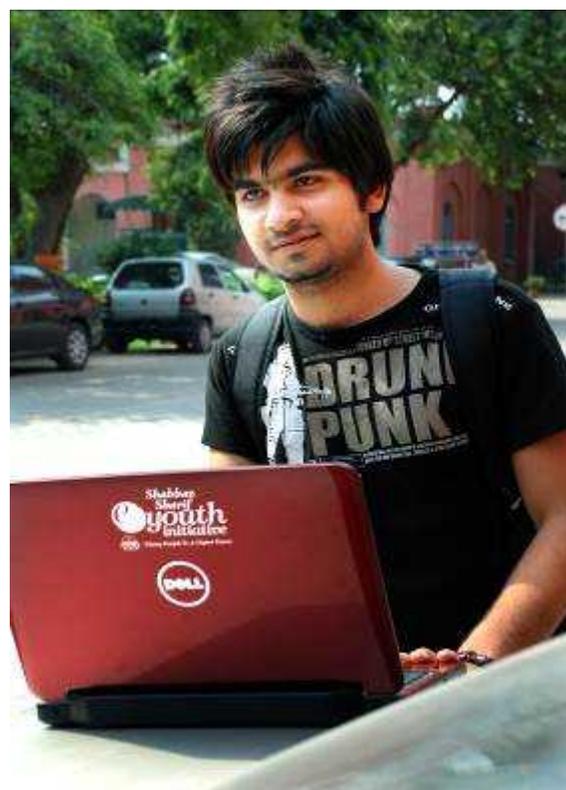
- i) For B.S. (Hons.) Biotechnology & Bioinformatics fee for the first semester will be **Rs. 56880/-** while Rs.33480/- for each of the remaining seven semesters (without hostel).
- ii) For B.S. (Hons.) Nutrition & Dietetics, the students will also be required to pay "degree special requirement fee" @ Rs.25,000/- for first semester and **Rs. 20,000/-** in each of the subsequent semesters in addition to normal university dues for undergraduate programs.
- iii) Students of B.S. (Hons.) Nutrition & Dietetics evening program will deposit **Rs. 300,000/-** at the time of admission in the program and remaining fees / dues will be same as for morning program throughout the duration of the program.
- iv) Students of DVM and Pharm D Evening Programs will deposit **Rs.60,000/=** in each semester in addition to normal semester dues.
- v) Foreign Students will deposit an amount in PK Rs. equal to **10,000/US\$** at the time of admission in addition to their normal dues.
- vi) Children of overseas Pakistanis and children of veterinary / Poultry Industrialist / Pharmaceutical Industrialist, the applicant will deposit **Rs. 5,00,000/=** in the shape of pay order in favour of the treasurer, University of Veterinary and Animal Sciences, Lahore along with application form..

## REFUND OF FEES & SECURITIES

**A).** A candidate once admitted on merit, deposits the prescribed dues and enrolls himself/herself by submitting enrollment form (UG-1) and subsequently leaves the University under any circumstances, the amount of fee etc. deposited by him/her shall not be refunded in any case. However, the University, Library and Hostel Securities will be refundable after adjustment of claims, if any. The amount, for which refund is not claimed within three years of leaving the University, is forfeited and credited to the University fund.

**B).** A Candidate once admitted on self supporting Program and deposited the additional fee in addition to the normal dues and enrolls himself by submitting UG-1 forms and subsequently leaves the University under any circumstances, the amount of additional fee deposited by shall not be refunded In any case.

**C).** A candidate deposits fee for admission on merit and does not submit enrollment form (UG-1), then only the under mentioned fee shall be refunded on the rates noted against each.



**D).** A candidate deposits fee for admission on self supporting Program and does not submit UG-1 forms, then only 75% of the additional fee may be refunded in addition to the other dues.

Fee / Fund	% age of Refund	Fee / Fund	% age of Refund
Tuition Fee	50	Admission Fee	00
University Regd. Fee	50	Conservancy Charges	75
Medical Fee	50	University Security	100
Sports Fee	100	Magazine Fund	50
Student's Welfare Fund	50	Inter University Com. Charges	50
Student's Support Fund	50	University Card / Identity Card	50

# THE STATUTES AND REGULATIONS

## I. STATUTES:

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 BS (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, gazette 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 BS (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 the 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 mid & 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 an optional. Students who wish to pass "F" grade(s) and to improve "D" grades for DVM and BS (Hons.) degree and "C" grades for Pharm-D Degree may enroll this semester in the courses offered. It shall not count towards residential requirements. Out of 10 weeks, 8 weeks shall be the actual teaching time; the rest may be utilized for enrolment, conduct of mid & 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

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

## II. REGULATIONS

### 1. 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.

### 2. Selection of Students

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

### 3. Age

A candidate must not be over 23 years of age on the last date of admission, provided that the Vice Chancellor may relax age limit in very exceptional case on the recommendation of the Dean /

Director /Principal of concerned faculty /Institution.

#### 4. Number of Students to be admitted

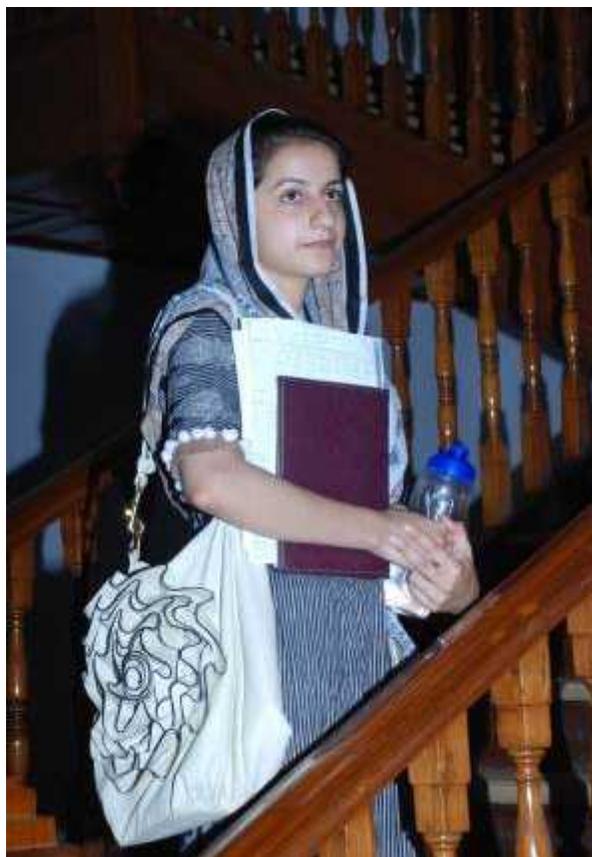
The Academic Council shall determine the number of students to be admitted in all degree Programs for each year's academic session.

#### 5. Authority of Admission

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

#### 6. 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.



### III. 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 BS (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 2<sup>nd</sup> 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 studies. The law provides him/her no further chance.

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.**

**4. 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.

**5. Minimum and Maximum Credit Hours**

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 for Five Years Degree program and not less than 15 and not more than 22 credit hours for Four Years degree Program. The students who wish to pass "F" and to improve "D" grade (s) (for Pharm-D "C" grades) may enroll during the Semester III for not more than 12 credit hours. For DVM Degree Program, In his /her last semester, i.e., in case of odd **9<sup>th</sup>** and **8<sup>th</sup>** 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 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 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 shall have to register for courses carrying not less than 17 and not more than 27 credit hours.
- c. In his/ her last semester (9<sup>th</sup> in case of odd courses and 8<sup>th</sup> 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 9<sup>th</sup> Semester if no course of odd Semester is left behind similarly, he/she may enroll up to 34 credit hours in 8<sup>th</sup> 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.
- b. In Semester III following 10<sup>th</sup>, 12<sup>th</sup> and 14<sup>th</sup> regular semesters, a student may enroll failing courses only upto 16 credit hours provided that he/she will

not be entitled to enroll any 'D' grade course(s) (grade "C" for Pharm-D).

- c. After 9<sup>th</sup> 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 semester i.e. Semester-I, Semester-II and Semester-III following thereafter as per "Scheme of Studies".

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

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 7<sup>th</sup> & 8<sup>th</sup> 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 7<sup>th</sup> and 8<sup>th</sup> 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 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 shall have to register for courses carrying not less than 15 and not more than 22 credit hours.
- c. In his/ her last semester (7<sup>th</sup> in case of odd courses and 8<sup>th</sup> 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 7<sup>th</sup> Semester if no course of odd Semester is left behind. Similarly, he /she may enroll up to 28 credit hours in 8<sup>th</sup> Semester if no course of even Semester is left behind and student will complete the degree program after enrolment of these extra credits.

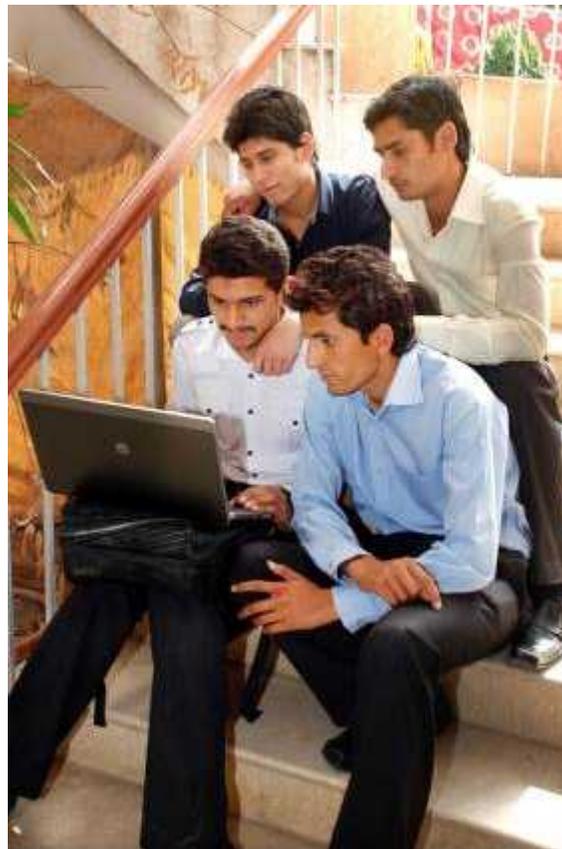
#### 2. Semester III

- a. During any Semester III, normally a student may enroll ‘F’ and ‘D’ grade courses up to 12 credit hours.
- b. In Semester III following 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> 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 8<sup>th</sup> 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. Semesters I, Semester II and Semester III following thereafter as per “Scheme of Studies”.



## IV. NUMBERING OF COURSES

The courses shall be coded in four digits preceded by four alphabets (capital letters) indicating Department Abbreviation. First digit will be symbol of the Degree, second digit will indicate the semester number and last two digits will indicate course number. Course Number will be prefixed by zero, if less than ten. *For example:*

<u>Department Abbreviation</u>	<u>Degree Symbol</u>	<u>Semester Number</u>	<u>Course Number</u>
MICR	02	5	03

**MICR 02503** is course of Microbiology Department (MICR), Degree of Doctor of

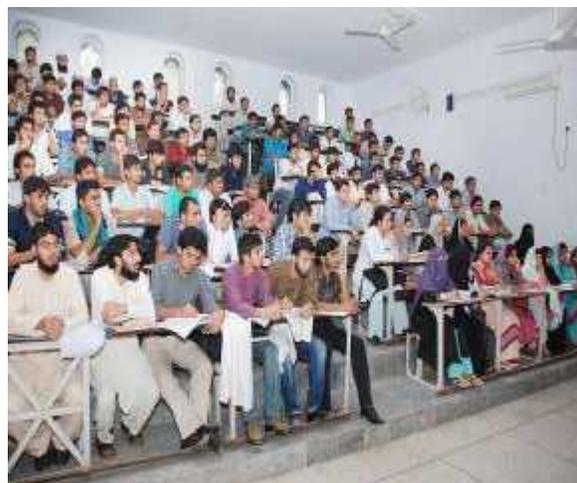
Veterinary Medicine (02) for Fifth semester (5) and its number is 03. The figure '2' in 'MICR 02503' indicates symbol which is assigned separately to each Degree. The **Department Abbreviation** will be given by the department.

The following **Degree symbols** are for Degrees being offered in this University. In future, new degrees being offered by the University would be allotted symbols in the same order.

Degree	Symbol
Postgraduate	01
DVM	02
PHRM-D	03
BS(Hons.) Bio-technology & Bio-informatics	04
BS(Hons.) Applied Microbiology	05
BS(Hons.) Dairy Technology	06
BS(Hons.) Poultry Science	07
BS(Hons.) Applied Zoology	08
BS(Hons.) Environmental Sciences	09
BS(Hons.) Nutrition & Dietetics	10

## V. 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, in turn, 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.

## VI. EXAMINATION AND WEIGHTAGE

a. A mid-term examination of one hour duration will be held during 9<sup>th</sup> 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.

## VII. 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.

## VIII. 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.

## IX. DECLARATION OF RESULTS

The result of all the examinations shall be declared by the Controller of Examinations on the date notified.

## X. IMPROVEMENT OF GRADE (S)

- 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.

**GPA/CGPA minimum requirements for the award of DVM / BS(Hons.) and Pharm-D degrees is 2.5. Minimum requirement to promote in each semester is as under:**

Semester	GPA/CGPA Requirements
1	1.00
2	1.00
Summer	1.20
3	1.20
4	1.30
Summer	1.40
5	1.40

6	1.50
Summer	1.75
7	1.75
8	2.00
Summer	2.20

After summer session following the 8<sup>th</sup> and up to 12<sup>th</sup> semester for Four Years Degree Program and 10<sup>th</sup> and up to 14<sup>th</sup> semester for Five Years Degree Programs and in the other subsequent semesters, a student must obtain at least CGPA of 2.20 for his enrollment in subsequent semesters.

A student, who obtains CGPA of 2.20 but less than 2.50 on the completion of entire course work, may be allowed to repeat once the course of the previous semester 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 regulations and rules.

### XI. 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 and B.S. (Hons.) degrees and 50% for Pharm.D degree.

### XII. GRADE POINT AVERAGE (GPA)

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

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

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

- b. Maximum GPA / CGPA 4.00 is
- c. Minimum CGPA for obtaining Degree is 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.

### XIII. CONDUCT OF EXAMINATION

- a. The mid and final term Examination of courses defined for online examination in each semester shall be held according to date sheet which shall be notified by the Dean of Faculty.
- b. All teachers will set question papers of the courses offered by them and upload to their account. The percentage of marks of the online examination will be equated with actual marks for mid and final term examination.
- c. All teachers will upload results for assignments / practical examinations / offline examinations of the courses offered / taught by them in their respective accounts.
- d. i). All teachers will be able to see the result of their respective courses through their login after the conduct of examination and each student will also be given access to their result sheet through their own login.

ii). In case of discrepancies or ambiguities, the respective teacher will consult the Controller of Examinations within two days, who will get it rectified in a suitable manner as laid down in the University Regulations. After this the result will be deemed valid.

- e. 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.

#### XIV. 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.

#### XV. CALENDAR OF EVENTS

<u>Events</u>	<u>Duration (in weeks)</u>
a. Semester-I	20
b. Semester-II	20
c. Semester-III	10

#### XVI. GAZETTE AND NON GAZETTE HOLIDAYS

The gazette holidays are allowed as per announcement of the Federal /Provincial Government. However, local holiday, special holidays shall be at the discretion of the Vice Chancellor as and when a need is felt.

#### XVII. CONSTITUTION OF ADVISORY COMMITTEE

The Dean / Director / Principal, shall constitute Advisory Committee consisting of senior most Mega 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, if the credit hours are according to the rules and regulations as mentioned in the scheme of studies of each degree course.

### **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:

- i) serious illness
- ii) serious injury due to accident.
- iii) death of a near relative on the day of the examination; or
- iv) his /her selection for participation in an international sports contest as national representative.

He / She shall be permitted to appear in Examination conducted by the concerned Teacher on the recommendation of the Deans / Directors / Principal with the approval of the Vice Chancellor.

- a) The application of such candidates shall be submitted to the Vice Chancellor through the Dean / Director / Principal, not later than seven days from the date the candidate is unable to take or complete the examination.
- b) Such applications must be certified by the Dean / Director / Principal that the candidate had a reasonable chance of success if he / she had appeared in the examination and that the candidate

could not appear in or complete the examination due to great danger to his / her health, or other reasons recorded above and it was physically impossible for the candidate to appear in, or complete the examination.

- c) Certificate of illness must be supported by a Registered Medical Practitioner and countersigned by Senior Medical Officer of the University.

### **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. There is no fee required for the issuance of the provisional certificate for the first time.
3. For duplicate certificate prescribed fee shall be deposited in the Bank.
4. Make an extra photocopy of the complete E-44 form for the purpose of character certificate.
5. Deposit the E-44 in original along with bank receipt (for the duplicate only) in the office of the Controller of Examinations.

#### **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:

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



## DIRECTORATE OF STUDENT AFFAIRS



**The Director Student Affairs is a senior position within the university and comprises of a Director and two Associate Directors. This office is a liaison**

between the University authorities and students. Primarily this office communicates the problems being faced by the students to the concerned quarters and helps in amicable solutions. In addition, the provision of a conducive environment is the prime responsibility of this directorate within and outside the class room for smooth conduct of academic activities. At large, this office is committed in maintaining discipline on the campus and to assist the students on their successful path to graduation. **The Director carries overall responsibility for a wide range of services and functions supporting the educational, social and welfare needs of students.** The responsibilities includes:-

1. Time table preparation.
2. Preparation of semester schedule.
3. Preparation of Date sheets.
4. Guidelines and queries related to scholarships.
5. Issuance of Character certificate.
6. Issuance of bonafide certificate.
7. Orientation of 1<sup>st</sup> year class.
8. Nomination of participants in the student's convention.
9. Maintenance of discipline on campus.
10. Regular monitoring of lecture rooms and other facilities.
11. Day to day student problems and their solutions.

12. Arranging co-curricular and extra-curricular functions at the university.
13. Monitoring of study tours of final year class.
14. Provide students with healthy outlets in sports.
15. Contribution to institutional policy development in relevant areas.



## OFFICE OF THE SENIOR TUTOR

### The structure & functioning of group system:

1. All the students are allotted Tutors by the Senior Tutor. A group of about 8-12 students is supervised by a tutor who keeps the records of students in his group and maintains their files. The students are required to keep a close contact with their tutors who render advisory services to them in all academic and non-academic matters. The assessment of student's conduct and character by the respective tutor is reflected on the character certificates issued to students after completion of degree Program. All the record of a student is forwarded to the respective tutor by the concerned authority of the University.



**Prof. Dr. Tahir Yaqub**  
Senior Tutor

2. There is a Mega group consisting of 2-4 tutorial groups. This group attends tutorial group meeting under the Chairmanship of a coordinator and meeting is also attended by all the Tutors of the groups included in this Mega group. In this period the students carry out co-curricular and extracurricular activities. Mega group meeting is held regularly on the third week of every month. Absentees are imposed a fine @ Rs. 10.00 per absence. However, a regular absentee will not be entertained for any purpose by the tutor.

3. The application of the students in any case will be signed by the concerned Tutor and then forwarded to the related Principal Officer.

4. In case a student files application for a leave, he/she has to contact and get that signed by the tutor initially. Then the leave for a period of seven days will be approved and notified by the Senior Tutor, beyond seven days leave will be approved and notified by the concerned Dean / Principal. If a student remains absent continuously for a period of two weeks, his / her name will be struck off from the University rolls.

5. All students in various degree Programs are offered counseling for the academic matters by the Dean, Director, Principal Officer, Senior Tutor / Warden, Director, Student affairs.



### Students Conduct & Discipline

6. Every student admitted to the University shall be required to give an undertaking to abide by the conduct and discipline, rules and regulations of the University and to carry out such other orders and instructions as may be issued by the University authorities from time to time.



## UNIVERSITY LIBRARY

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 activities. The University Library has made significant achievements constructing postgraduate reading hall with a computer lab consisting of (135) computers for conducting e-examination and for use of University students etc. The University Library has Regulation 2003, information, collection development policy, etc. The library is presently fully engaged in providing effective services for the promotion of skilled higher education, research and extension especially digital library and e-brary services through its following sections:-



### **Library Circulation Section**

Most of the library books and general stocks have been placed in the main Library Hall where good seating arrangements are available. This section comprises of over 27437 Text and Reference Books relating to Veterinary & Medical Sciences, and other disciplines along with over 1415 M.Sc., M.Phil. and Ph.D. research theses. Searching facility of library books along with theses has been made available on University website ([www.uvas.edu.pk/library.htm](http://www.uvas.edu.pk/library.htm)) and details regarding issue, return and fine on books can be checked through computerized circulation from the library. The reference materials like encyclopedias, dictionaries, atlases, maps, indexes and research reports submitted by

research scholars of UVAS are also available in this section. The use of the reference materials is only restricted for study inside the library.

### **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 on nominal rental basis as per book bank regulations. The book bank section comprises of over 6000 volumes of text books and students can make full use of this precious facility in enhancing latest knowledge from them.

### **Journal Section**

There are 4500 bound volumes of 315 old/retrospective scientific journals. The UVAS Library has been receiving several titles of latest journals, periodicals and magazines related to different disciplines of livestock sector. In addition, a total of 2600 reports/magazines and 13 daily news papers are also available in this section for use by the students, teachers and other interested readers.

Automaton of all retrospective and current journals have been recently completed and information about the availability of scientific journals has also been shared with PARC's Web Based Union Data Base of journals in agricultural libraries of Pakistan (<http://oracle.parc.gov.pk>)

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

This fully air conditioned section was established in 1990 through the courtesy of U.S.MART Project, offering the facilities of study & research through T.V. VCR., Microfiche Reader with Copier. Full multimedia, computers, scanner, laser printer, CD-writer and CD ROM searching facilities using various equipments are available. This section has been recently upgraded by installing 135 latest computers for conducting e-



**Mr. Muhammad Akram  
Librarian**

examination and students can also use this Lab for study and explore internet facilities to search materials and documents required for completing their assignments.

### **Major Services provided by the University Library**

#### **Reading Facility**

Reading facility inside the library is available in an air conditioned environment to all users/visitors from 08.00 a.m. to 10.00 p.m. from Monday to Saturday.

#### **Reading Room for Under-graduate students**

The DVM students use this reading room for study of library materials and to complete their assignments.

#### **Reading Room for female students**

The staff room available in the library has been reserved only for female students on the instructive of worthy Vice Chancellor so that students can calmly attach full attention to their studies and completion of their assignments given by their teachers.

#### **Photocopy Services**

Photostat facility is also available in the library through a contractor at approved rates for the students and staff of the University.

#### **Circulation Services**

Circulation services are being provided to library members and staff according to the library regulations

#### **Reference Services**

Reference services are provided to the students and staff through verbal communication, T.V., VCR, Microfiche Materials, in house Data Bases, CD-ROM (Consisting of international data bases) and online digital resources through the internet

#### **Computerized Catalogue**

The library has been computerized and the facilities of self searching of library materials i.e. books, Journals and research theses are available.

#### **Access to Digital Library Resources through PERI Programme**

To provide the access to scientific literature, the HEC, Islamabad has launched National Digital Library Programme for all Universities and

institutions of Pakistan under the program for enhancement of research information. In this regard the UVAS library has got registration and access to this program and the students are able to get online access to over 23000 pre-reviewed full text international academic/research journals.

#### **E-brary Searching Facility**

Online searching facility of more than 45,000 E-Books is also available through HEC digital Library Program is known as e-brary to the students and the staff of the university. These online books can be searched by using the link <http://site.ebrary.com/lib/uvaslahore>.

**The Library made a great effort to download all books subject-wise which is being sent to the concerned departments for the information and make full use of this facility.**

**Access of Digital Resources From LUMS through Virtual Private Network (VPN) being received on payment basis for faculty and students.**

These resources are consisting of specially management sciences of online books and theses regarding to social sciences, sciences, economics, market research reports, industry reports, business, computer, engineering and technology, etc.

#### **Searching Facility for Abstracting Databases**

The university library has recently acquired two very important and useful CD-ROM Data bases known as Veterinary Sciences on CD-Rom (1973 to 2006) and Animal Production on CD-Rom (1973 – 2006) to update knowledgebase of our faculty members and students. These CD-Rom databases now have been placed on the UVAS Intra-net which are searchable through personal logins of the users.

#### **Library Staff**

**Prof. Dr. Ijaz Ahmad**, Officer Incharge Library

**Mr. Muhammad Akram**, Librarian

**Miss Abeeda Zia**, Assistant Librarian

**Syed Khaliq Shah**, Library Assistant

## Hostel Facilities

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. Hostels are conveniently close to most amenities and services, and the location endows with an ideal base from which to explore the rest of Lahore. There are nine separate hostels at city campus, six for boys and three for girls. All the Hostels are equipped with necessary facilities to make the stay of students comfortable. Warden office monitors the Hostels. In the traditional environment of hostels, the administration teachers give parental care to students. 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 inspiration. A beautiful mosque to cater large number of students is also available. UVAS administration is fully committed to provide peace full and comfortable facilities to students, The Worthy Vice-chancellor, Prof. Dr. Talat Naseer Pasha, Hall Warden, Prof. Dr. Masood Rabbani and other officials frequently visit the hostels to review the quality of facilities available. Strict and quick action are taken in case any deficiency is observed. Hostels are furnished with following facilities:

### **MESS FACILITY:**

Separate mess facility is available in almost each hostel. These messes are run by authorized contractors under the supervision of hostel administration. Hostel management committee strictly monitors the quality of meal served to students. In reconstruction of an old Building has been renovated by warden office and transformed

into a self service mess which is strictly monitored by hostel administration and canteen cafeteria committee.

Students are quite satisfied to have large no of quality dishes offered in this facility. Gradually this self service mess is replacing the hostel wise existing mess.

**EXTRACURRICULAR ACTIVITIES:** A play ground is specified where students organized different sport activity in their leisure timings, besides other games TV, Telephone facilities are also available to facilitate students.

**INTERNET FACILITIES:** A computer lab with internet is established in Iqbal Hall to facilitate students in them for studies. The lab is furnished with latest computers along with heavy duty printer and scanner. Wireless network facility is also being provided so that students may have internet access in their hostels.



**SHOPPING CENTER:** A small shopping center is located near Fatima Hall. This consists of a general store, photocopying shop and Laundry shop. Self service mess, cafeteria and fruit shop are located in front of Iqbal Hall, which comprehensively serves

the fast food, fresh fruits and juices till late at night.



#### OTHER FACILITIES:

Heavy duty generators are installed to provide an uninterrupted power supply. Electrical water coolers with water purification systems have been installed at various locations and facility of hot water in winter is provided in form of solar and gas geysers. Hostel administration is working

#### UVAS CITY CAMPUS

HOSTEL	NAME OF HOSTEL ADMINISTRATION		CAPACITY	RESIDING
JINNAH HALL	Mr. Shahid Abbas Assoc. Hall Warden / HS	Dr. Zia Ullah Resident Tutor	165	185
IQBAL HALL	- do -	Dr. Ishtiaq Ahmad, Resident Tutor	160	188
SETH SARWAR HALL	Dr. Matee-ur-Rehman Hall Superintendent	Dr. Tanvir Hussain Resident Tutor	96	96
TIPU HALL	Dr. Ali Ahmad Sheikh, Hall Superintendent	Dr. M. Tayyab Resident Tutor	45	60
SIR SYED HALL	- do -	Dr. Hassan bin Aslam, Resident Tutor	30	30
FATIMA HALL	Ms. Sehrish Faryal Acting Hall Superintendent (girls)	Ms. Asma Waris Resident Tutor	70	90
TAHIRA HALL	- do -	Ms. Misbah Toor, Resident Tutor	100	100
KHADIJAH HALL	- do -	Ms. Sehrish Faryal, Resident Tutor	60	80

#### UVAS RAVI CAMPUS

HOSTEL	NAME OF HOSTEL ADMINISTRATION		CAPACITY	RESIDING
A & C Block Hall (Boys)	Dr. Arshad Javed Assoc. Warden / Hall Supt.	Mr. Nadeem Ahmad Mr. Shahid Mahmood Resident Tutors	180	200
C Block, Girls Hall	- do -	Dr. Sumera Abbas, Resident Tutor	50	36

devotedly to facilitate students living in UVAS hostels.

#### ACCOMMODATION FACILITIES:

With opening of new departments and degree programs the number of students increases substantially. Additionally 4 residential facilities at Ravi campus have been developed. The available hostel facilities proved inadequate in meeting the increased demand. However, the available seats in each hostel and currently residing status are as under:

#### HOSTEL MANAGEMENT COMMITTEE

Hostel management committee is working under the supervision of Hall warden, Prof. Dr. Masood Rabbani, the details of officials and capacity available in each hostel is as follows:

## UNIVERSITY SPORTS

Facilities for physical activities are provided to students and teachers at the City campus & Ravi campus. Courts, a ground for Rugby, Kabaddi, Judo, Karate, Hockey, Football, Taekwon do, Volleyball, Handball, Tennis, Basketball, Athletics, Cricket and indoor games like Table Tennis, Badminton, Ludo, Carom Board, & Chess etc. These include indoor and outdoor team and individual events.



- 1- University indoor and outdoor Sports Clubs include comprising of many indoor and outdoor games including Tennis, Athletics, Cricket, Football, Hockey, Volleyball, Badminton, Table Tennis, Basketball, Bodybuilding, Judo Karate, Handball, Boxing, Squash, Weightlifting, Hiking Club, Kabaddi Club, Swimming Club, Wrestling, Rugby and Chess.
- 2- Each Club has its President and Vice-President which are nominated from the faculty by the Sports Board.
- 3- The concerned President organizes the teams, arranges games and matches in consultation with Director Sports for different events.
- 4- Secretaries and Captains of the Clubs assist the Presidents in their works, who are elected amongst the players.

- 5- Interclass Tournaments and Annual Sports are regularly arranged on annual basis.



- 6- The University teams participate in different Intersports championship, Provincial University Sports Gala, University Games and National level competitions organized by HEC.
- 7- Many positive steps are being taken to promote sports at UVAS level, e.g.
  - a) Ground & courts have been improved in city campus and the new grounds are developed at Ravi Campus, Pattoki.
  - b) Gym facility is also available to the university students, staff & faculty members.

### PARTICIPATION AND ACHIEVEMENTS

**University teams participated in many local, provincial and national competitions with varied success.**

**Football :** UVAS Football team got 3<sup>rd</sup> position in Intersports Football Championship.

**CRICKET:** UVAS cricket team participated in Intersports Zone-D Cricket



Championship and got 3rd position.

**RUGBY** : UVAS got 3<sup>rd</sup> position trophy in Intersarsity Rugby Championship.

**VOLLEYBALL** UVAS got 3<sup>rd</sup> position in Intersarsity Volleyball Zone-D championship.

**BODYBUILDING** UVAS Bodybuilding team participated in Intersarsity Bodybuilding Championship and various others competition. Participating students secured different medal

**WRESTLING** UVAS Wrestling team participated in Intersarsity Wrestling

Championship and obtained 5<sup>th</sup> Position in this Championship.

**JUDO** UVAS got 5<sup>th</sup> position in Intersarsity Judo Championship.

**BADMINTON** UVAS Badminton team participated in Intersarsity Zone-D Badminton Championship and got 3<sup>rd</sup> position.

**Chess** UVAS Chess team participated in this championship and got 5<sup>th</sup> position.

**MOUNTAINEERING** UVAS Mountaineering team participated in this championship and got 5<sup>th</sup> position.



### Staff at Directorate of Sports

**Dr. Khalid Saeed**  
Chairman Sports Board

**Mr. Rana Amjad Iqbal**  
Director Sports/Secretary Sports Board

**Ms. Humaira Latif**  
Assistant Director Sports

## INFORMATION TECHNOLOGY (IT) CENTER

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 an IT Center has been established in the university.

In this connection, since the last five years, with the collaboration of HEC, UVAS has spend 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. At the moment, University has internet facility @ 24 Mbps bandwidth for students, staff, faculty members and researchers. The University Departments have been connected with the Fiber Optic backbone. The seven computer labs having more than 300 PCs in different locations, library and hostels have been installed at both city & Ravi Campuses of the university. The facilities of Internet, printing, scanning and CD writing are available from morning till night in these Labs. Training programs are being continuously arranged by IT Center to meet the need of trained/skilled manpower for UVAS and various public and private organizations.



IT Center manages the overall IT infrastructure of the university like network development, expansion and maintenance, providing maintenance/troubleshooting services (network, hardware and software) to all departments, Software Development, Data base Management & Website Development and 24-hours Internet facility.

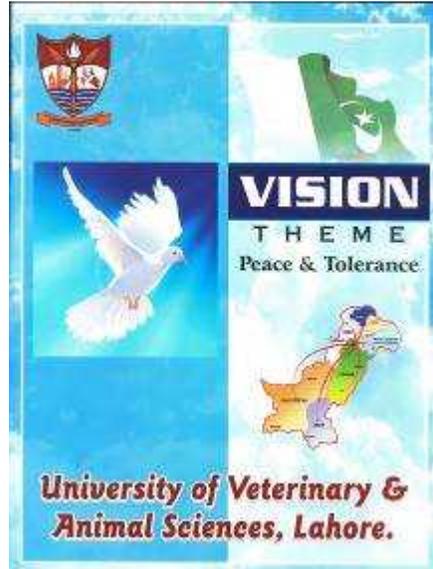
IT Center has also made the conduction of examination system on line which enhances transparency in the exams and on line results are also produced upon completion on exams. Video Conferencing facility is also available in the university to interlink research, development and socio economic national/international activities.

### IT CENTER STAFF

- Muhammad Rizwan Saleem (Director IT)
- Imran Younas Chohan (Network Manager)
- Aaqib Inam (Software manager)
- Muhammad Nadeem Ashraf (System Engineer )
- Yasir Ameen (Network Engineer)
- Zeeshan Ali (Software Engineer/Webmaster)
- Irfan Younas Chohan (Database Administrator)

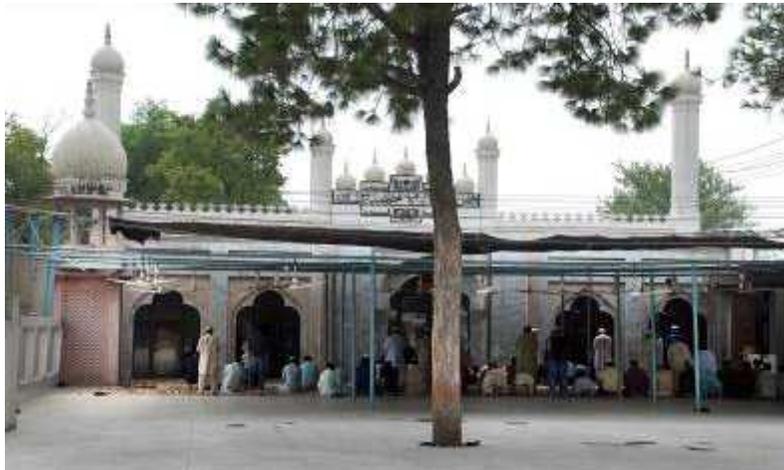
## UNIVERSITY MAGAZINE

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 AND HEALTH SERVICES

University extends the medical facility to all the students. One Medical Officer & One female Senior Medical Office are available at the medical centre. 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 off other health related issues.



## **BUSINESS INCUBATION CENTRE**

University of Veterinary and Animal Sciences (UVAS) has taken a vigorous step to establish a business incubation center (BIC) on July 2011 by the collaboration of Higher Education Commission (HEC) at its Lahore campus. BIC is the third model business incubator of Pakistan which has been launched under the academia and aims to provide business inclusive environment with extensive services and

facilities to young entrepreneurs which lead them to establish successful business.

The BIC is a multipurpose entity that intends to grow new businesses ventures. It is a dynamic system that tailored young growing companies to impart training, consultancy services, marketing and financial assistance, technology expertise and well educated work force; hence a wide-ranging business development facilities and services under one roof.



## **Placement Centre UVAS**

Welcome to the Placement Centre at University of Veterinary & Animal Sciences, Lahore. Placement Centre along with the alumni, aims to bridge the gap between job market and University graduates. Our centre is committed to provide assistance

and guidance to its students in their efforts to find employment and internship. Placement Centre not only provides information for employment to students and alumni's but also equips our graduates with prerequisite of the jobs through Career Counseling, Lectures, Seminars, Training Programs and Workshops for skill development.

## AUTHORITIES OF THE UNIVERSITY

- ✻ **Syndicate**
- ✻ **Academic Council**
- ✻ **Board of Faculties**
- ✻ **Selection Board**
- ✻ **Advanced Studies & Research Board**
- ✻ **Finance & Planning Committee**
- ✻ **Affiliation Committee**
- ✻ **Discipline Committee**
- ✻ **Departmental Board of Studies**



## FACULTY OF VETERINARY SCIENCE

### Dean's Message

It is my pleasure to welcome you to the Faculty of Veterinary Science. The FVS has a history of more than 130 years. It rose from a school to a college and ultimately faculty of the university in 2002. We are truly regional institution serving the veterinary medical educational and research needs of the four provinces of Pakistan. Our undergraduate veterinary students also come from the neighboring countries. The enrollment quota for student of different categories and provinces is need based.



We are very proud of the outstanding accomplishments of both our undergraduate students in the DVM, Applied Microbiology program, and also those students in postgraduate programs. Both groups continue to bring recognition to themselves and the Faculty at the national and international level. The FVS is also home to recognized world class research programs. Excellent research is conducted in all six departments of the Faculty covering a broad range of species and disciplines i.e Microbiology, Pathology, Parasitology, Clinical Medicine & Surgery, Theriogenology (Animal Reproduction) and Epidemiology & Public Health including University Diagnostic Lab., Quality Operation Lab. (WTO) and Pet Centre. Modern research facilities and new research tools will ensure cutting edge research and training programs as we look to the future.

The FVS is building for the future to make sure the outstanding record in teaching, research and service will continue for future decades. An expansion program directed at Faculty facilities and equipment is in the final planning stages for the Ravi Campus. This includes Veterinary Teaching Hospital.

I am pleased to mention that DVM Curricula for five years composite degree has been revised and finalized by the National Curriculum Committee which comprised on senior faculty member and experts from various stakeholders and Pakistan Veterinary Medical Council. This has been implemented from the session 2011-12.

Thank you for taking interest in our Program. Please feel free to contact me or my staff should you have any question or concern. I think you will quickly appreciate why we are so proud of our past and so very excited about our future.

**Prof. Dr. Nasim Ahmad, S.I.**  
Dean

### Principal's Message:

It is a matter of great pride and delight for me to welcome you at college of veterinary and animal sciences, Jhang. This was established as sub-campus of University of Veterinary and animal Sciences, Lahore in 2006. In the real sense of the term, it is a forehead jewelry of District Jhang, because it has the largest livestock population in the Punjab province. Its natives rear the animals with great assiduity and their performance is judged at fairs where competitions of diverse nature (animal beauty competitions, tent pegging, horse dance, milk competition (cattle/buffaloes), horse race etc.) are held. The animal lovers keep on preparing the animals for different competitions. CVAS has been rendering invaluable services/guidance to the farmers about the husbandry and health of the animals since its inception.



College of Veterinary and Animal Sciences, Jhang is located at Chiniot road at a distance of 12-Km from the Jhang city. It has a vast land comprising 100 acres where various components (Academic block, Administration block, Boys and Girls hostels, Residential colony for the employees, Beautiful lawns, Network of roads connecting all parts of the College have been completed. College of Veterinary & Animal Sciences, Jhang is the first one veterinary institution in the Punjab among all the newly emerging institutions which has been accredited by the Pakistan Veterinary medical Council, Islamabad. It is pertinent to mention that department of clinical studies (Medicine, Surgery, and Theriogenology, Veterinary teaching hospital) has been working since the establishment of the College. Veterinary teaching hospital is equipped with various diagnostic and treatment facilities like X-rays unit, ultrasonography, artificial insemination, Semen evaluation facility, pregnancy diagnosis, functional operation theater for Small & large animal surgery and milk analyzer etc. College has its own large number of experimental animals for the practical training purpose of the budding veterinarians, so that they may be enabled to play their positive role in the progress of the country. This college has a good team of experienced and qualified teachers, who are engaged in teaching with devotion and dedication.

Come and join this prestigious institution to ameliorate your lot for serving Pakistan with blood and intellect.

**(Prof. Dr. M. Younus Rana)**

HEC Approved Supervisor / Eminent Pathologist

## FACULTY OF VETERINARY SCIENCE

### **DEAN**

Prof. Dr. Nasim Ahmad, S.I. DVM (UAF),  
M.Sc (Hons) (UAF), PhD (WVU, USA), TTS

### **DEPARTMENT OF MICROBIOLOGY**

#### **Chairman/Professor (TTS)**

Prof. Dr. Khushi Muhammad, Ph. D.

**Prof. Dr. Muhammad Irshad** Ph. D.

(on leave)

#### **Associate Professor**

Dr. Aftab Ahmad Anjum, Ph. D.

#### **Assistant Professor**

Dr. Sameera Akhtar, M. Phil, (on leave)

Mr. Shahan Azeem M. Phil, (on leave)

Dr. Jawad Nazir (TTS), Ph. D.

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

#### **Lecturer**

M. Imran Najeeb, M.Sc (Hons)

Muhammad Asad Ali, M.Phil

Ms. Farah Khan, M.Phil

Mr. Hassan Bin Aslam, M.Phil

Ms. Rabia Tahir, DVM

Mr. Kashif Hanif, DVM

### **DEPARTMENT OF PARASITOLOGY**

#### **CHAIRMAN**

Dr. Khalid Saeed, Associate Professor, DVM  
(UAF), M.Sc (Hons) (UAF), PhD (USA)

#### **PROFESSOR**

Prof. Dr. Azhar Maqbool, DVM (UAF), M.Sc  
(Hons) (UAF), PhD (UAF)

Prof. Dr. Kamran Ashraf, DVM (UAF), M.Sc  
(Hons) (UAF) PhD (UVAS)

#### **ASSOCIATE PROFESSOR**

Dr. Muhammad Lateef, DVM (UAF), M.Sc.  
(Hons) (UAF), PhD (UAF)

#### **ASSISTANT PROFESSOR**

Dr. Nisar Ahmad, DVM (UAF), MSc. (Hons)  
(UAF) Ph.D. (UVAS)

Dr. Wasim Shehzad, DVM(UAF), M.Sc.  
(Hons) UAF, M2 (Research; France), Ph.D.  
(France)

Dr. Muhammad Imran Rashid, DVM  
(UAF), M.Phil, M2 (France), Ph.D. (France)

Dr. Haroon Akbar, DVM, M.Sc. (Hons) UAF,  
M2 (France), Ph.D. (France)

#### **LECTURER**

Mr. Muhammad Oneeb, D.V.M.,

### **DEPARTMENT OF PATHOLOGY**

#### **Chairman / Associate Professor**

**Dr. Asim Aslam, Associate Professor  
(On Study Leave)**

DVM (UAF), M.Sc (Hons) (UAF), Ph.D.  
(UVAS)

#### **Assistant Professors**

**Dr. Muti-ur-Rehman Khan (Temporary)**

DVM (UAF), M.Sc (Hons) (UAF) Ph.D  
(China)

**Dr. Raheela Akhtar (Temporary)**

DVM (UVAS), M.Phil (UVAS), Ph.D (UVAS)

**Mr. Saeed Imran (Contract)**

DVM, M.Sc (Hons) UAF

**Ms. Gulbeena Saleem ( On Study Leave)**

DVM (UAF), M.Sc (Hons) (UAF)

#### **Lecturers**

**Mr. Ishtiaq Ahmad,**

DVM (UAF), M.Sc. (Hons) (UAF)

**Ms. Hafiza Qamar-un-Nisa (On Study  
Leave)**

DVM (UAF) M.Phil (UVAS)

**Mr. Irfan Irshad (On Study  
Leave)**

B.Sc. (Hons.) A.H (UAF), M.Phil (UVAS)

**Mr. Ghulam Mustafa (Contract)**

DVM (UVAS) M.Phil (UVAS)

### **DEPARTMENT OF THERIOGENOLOGY (ANIMAL REPRODUCTION)**

#### **Chairman**

Dr. Mian Abdul Sattar, Associate Professor,  
DVM (UAF), M.Sc. (Hons) (UAF), Ph.D.  
(UAF), Post. Doc. (Italy)

**Professor**

Prof. Dr. Nasim Ahmad, DVM (UAF), M.Sc (Hons) (UAF), PhD (USA) (TTS)  
 Prof. Dr. Muhammad Aleem, DVM (UAF), M.Sc (Hons) (UAF), PhD (USA) Post Doc (UK) (on long leave)

**Assistant Professors**

Mr. Muhammad Amir Saeed, DVM (UAF), M.Sc (Hons) (UAF) (on Ex-Pakistan Leave)  
 Dr. Amjad Riaz, DVM, M.Sc. (Hons) (UVAS), Ph.D. (China) (TTS)  
 Mr. Aijaz Ali Channa, DVM, M.Sc (Hons) (SAU)  
 Mr. Muhammad Rizwan Yousaf, DVM (UAF), M.Sc (Hons) (UAF)

**Lecturers**

Mr. Irfan-ur-Rehman Khan, DVM (UVAS), M.Phil (UVAS) (On E.O.L Canada)  
 Mr. Mushtaq Ahmad, DVM (UVAS), M. Phil (UVAS) (On contract basis)

**Teaching Assistant**

Mr. Muhammad Usman Mahmood, DVM (UVAS), M. Phil (UVAS)

**DEPARTMENT OF CLINICAL MEDICINE & SURGERY****Chairman**

Prof. Dr. Muhammad Sarwar Khan, DVM, M.Sc (Hons), PhD (UAF) (TTS)

**Professors**

Prof. Dr. Muhammad Arif Khan, DVM, M.Sc (Hons), PhD (UVAS)

**Associate Professor**

Dr. Aneela Zamir Durrani, DVM, M.Sc (Hons), Ph.D. (UVAS), Post doc (USA)

**Assistant Professors**

Mr. Asim Khalid Mahmood, DVM, M.Sc (Hons).  
 Mr. M. Hassan Saleem, DVM, M.Sc (Hons) (on study leave)  
 Dr. Jawaria Ali Khan, DVM, M.Sc (Hons), PhD  
 Mr. Hamad Bin Rashid, DVM, M.Sc (Hons) (On Ex Pakistan Leave)

Dr. Muhammad Ijaz, DVM, M.Sc.,(Hons.) Ph.D. (TTS)

Dr. Muhammad Ovais, DVM M.Sc. (Hons), Ph.D.

Dr. Sadaf Aslam, DVM, M.Sc (Hons), Ph.D.(Austria)

**Subject Specialist**

Mr. M. Khalid Amin, B.Sc (AH), M.Sc

**Lecturers**

Dr. Shehla Gul Bokhari, DVM, M.Sc (Hons), P.hD (China)

Ms. Ayesha Safdar Ch., DVM M.Sc (Hons) (on study leave)

Mr. Naveed Hussain, DVM, M.Phil

Mr. Ziaullah, DVM, M.Phil.

Mr. Muhammad Imran, DVM

Mr. Mr. Waseem Yaqoob, DVM

**Pet centre:****Assistant Professors**

Mr. Asim Khalid Mahmood, DVM, M.Sc (Hons).

Dr Syed Saleem Ahmad, DVM, M.Sc. (Hons.) Ph.D (UVAS).

Dr. Uzma Farid Durani DVM. M.Phil. Ph.D (UVAS).

**Teaching Assistant**

Mr. Zain Khalid DVM

**DEPARTMENT OF EPIDEMIOLOGY & PUBLIC HEALTH****Chairman**

Prof. Dr. Muhammad Athar Khan, DVM (UAF), M.Sc. (Hons.) (UAF), MPH (USA), Ph.D (USA)

**Professors**

Prof. Dr. Mansur-ud-Din Ahmad, DVM (UAF), MSc (Hons) (UAF), Ph.D. (Australia)

**Assistant Professor**

Dr. Muhammad Hassan Mushtaq, DVM (UVAS), M.Sc. (Hons.) (UVAS), Ph.D. (China) (TTS).

Mrs. Mamoona Chaudhry, DVM (UAF),

M.Sc (Hons) (UAF) \*(On study leave abroad)

**Lecturer**

Dr. Shakera Sadiq Gill, DVM (UVAS),  
M.Phil (UVAS)  
Dr. Abdul Rehman, DVM (UVAS),  
M.Phil (UVAS)

**UNIVERSITY DIAGNOSTIC**

**Director LABORATORY**

Prof. Dr. Masood Rabbani, Izaz-i-Fazeelat,  
DVM (UAF), M.Phil (QAU), PhD (UAF)  
(TTS)

**Professor**

Prof. Dr. Tahir Yaqoob, DVM (UAF), M.Sc  
(Hons) (UAF), Ph.D (UAF), Post Doc. (UK)

**Assistant Professor**

Mr. Amir Ghafoor, DVM (UAF), M.Sc (Hons)  
(UAF) **(On Study Leave abroad)**

Mr. Ali Ahmad Sheikh, DVM, M.Sc. (Hons)  
(UAF), Ph.D (UVAS) (TTS).

Mr. Arfan Ahmad, DVM (UAF), M.Sc (Hons)  
Ph.D (UVAS)

**Lecturer**

Mr. Muhammad Zubair Shabbir, DVM  
(UVAS), M.Phil (UVAS)

Ms. Fariha Akhtar, DVM (UAF), MPhil  
(UVAS)

**QUALITY OPERATION LABORATORY**

**Director**

Prof. Dr. Tahir Yaqoob, DVM (UAF), M.Sc  
(Hons) (UAF), Ph.D (UAF), Post Doc. (UK)

**Assistant Professors**

Dr. Muhammad Yasin Tipu, DVM (UAF)  
M.Sc. (Hons) (UAF) Ph.D (UVAS)

Dr. Mateen Abbas, B.Sc. (PU), M.Sc. (UAF)  
Ph.D. (UAF)

**Senior Scientific Research Officer,**

Dr. Shafqat Fatima Rehmani B.Sc. M.Sc,  
MS (USA), Ph.D (Aus) **(on contract basis)**

**Lecturer**

Mr. Abdul Muqeet Khan, B.Sc. (PU), M.Sc.  
(PU)

**Research Officer**

Mr. Imran Altaf, DVM (UAF) M.Sc. (Hons)  
(UAF) **(on contract basis)**

**COLLEGE OF VETERINARY & ANIMAL  
SCIENCES, JHANG**

**Principal:**

Prof. Dr. Muhammad Younus Rana  
DVM, M.Sc(Hons) (UAF), Ph.D, (UVAS),  
Post Doc.(USA)

**Department of Pathobiology:**

**Professors:**

Prof. Dr. M. Younus Rana  
DVM, M.Sc (Hons) (UAF), Ph.D , (UVAS),  
Post Doc.(USA)

**Assistant Professors:**

Dr. Usman Waheed  
DVM (UAF), M.Sc (Hons) (UAF), Ph.D  
Dr. Syed Ehtaisham-ul-Haq  
DVM (UAF), M.Sc (Hons) (UAF), Ph.D  
(UAF)

**Lecturers**

Dr. Muhammad Arfan Zaman  
DVM (UAF), M.Sc (Hons) (UAF), Ph.D  
(UAF)  
Mr. Muhammad Sajid  
DVM (UAF), M.Sc (Hons) (UAF)  
Mr. Muhammad Kamran Rafique  
DVM (UAF), M.Sc (Hons) (UAF)  
Mr. Muhammad Raza Hameed  
DVM (UAF), M.Sc (Hons) (UAF)  
Mr. M. Muhammad Awais  
DVM (UAF), M.Phil (Silver medalist) (UAF)

**Department of Clinical Studies:**

Prof. Dr. Abdul Shakoor  
DVM (UAF), M.Sc (Hons) (UAF), Ph.D  
(UAF)

**Assistant Professors:****Mr. Ihtisham Khan**

DVM (UAF), M.Sc (Hons) (UAF), (On study  
leave )  
Dr. Tariq Abbas  
DVM , M.Sc (Hons) (UAF), Ph.D (Germany)  
Mr. Sayyed Aun Muhammad  
DVM (UAF), M.Sc (Hons) (UAF)

**Lecturers:**

Mr. Abid Hussain Shehzad  
DVM (UVAS), M.Phil (UVAS)  
Mr. Muhammad Kashif  
DVM (UAF), M.Phil (UAF)  
Mr. Mudassir Ali  
DVM (UVAS), M.Sc (Sweden)  
Mr. Ahmad Yar Qamar  
DVM (UVAS), M.Phil (UVAS)  
Mr. Aman Ullah Khan  
DVM (UVAS)  
Mr. Adnan Khan  
DVM (UVAS), M.Phil (UVAS)

**Department of Livestock Production & Management:****Assistant Professors:**

Dr. Asghar Hussain  
B.Sc (Hons) A.H (UAF), M.Sc (Hons)(UAF),  
Ph.D (UAF)

**Lecturers:**

Miss Sadia Khanum  
B.Sc (Hons) A.H (UAF), M.Sc (Hons)  
Mr. Muhammad Zahid Farooq  
DVM (UAF)  
Mr. Yassar Abbas  
B.Sc (Hons) A.H (UAF), M.Sc (Hons) (UAF)  
Mr. Abdur Rehman  
DVM (UVAS)

**Department of Basic Sciences:****Lecturers:**

Mr. Arbab Sikandar  
DVM (UVAS), M.Phil (UVAS)  
Mrs. Sidra Ashraf  
B.Sc, M.L.T, M.Sc (PMAS. AAUR), M.Phil  
(UVAS)  
Mr. Muhammad Adil  
DVM (UVAS), M.Phil (UVAS)  
Mr. Abdur Rehman Ansari  
DVM (UAF)  
Mrs. Shaista Abbas  
DVM (Silver Medalist) (UVAS), M.Phil  
(UVAS)  
Miss Nusrat Shaheen  
M.Phil (UAF)  
Dr. Muhammad Arshad  
Ph.D (UAF)  
Mr. Zafar Iqbal  
DVM (UAF), M.Phil (UAF)

**Department of Allied Subjects:****Assistant Professor:**

Mr. Muhammad Sajid  
DVM (UAF), M.Phil (UAF)

**Lecturers:**

**Mr. Amir Ali**  
M.Sc (Computer Science)



## Pet Centre



Dog hospital is the oldest 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 equipments like electric Cautery, Portable X-ray unit, Hydraulic table, Operation light and Ultra-

sound machine for the diagnosis and treatment of various ailments in pets.



## POSTMORTEM BLOCK

The University has a unique postmortem block fully equipped with advanced units i.e. Hydraulic table, Audio Visual Facilities, Incinerator, Cold Rooms, Freezer, Histo-pathology Lab. and Lecture room. This is a best teaching facility.

## UNIVERSITY DIAGNOSTIC LABORATORY (UDL)

(ACCREDITED LAB ISO/IEC 17025)

### **First Disease Diagnostic Lab Internationally Accredited In Livestock Sector of Pakistan**

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

of awareness towards understanding of disease.



## DIRECTORATE OF QUALITY OPERATION LAB (QOL)

### **ISO-17025 Accredited Lab**

This is one of the newest laboratory with state of the art facilities developed at the university. Quality Operations Laboratory tests the quality of livestock and food of animal origin not only to meet the requirement of international trade but also help to provide quality food for our own nationals. This laboratory is involved in the cutting edge research in the diagnosis and

control of diseases. Post graduate students get an opportunity to carry out their research projects involving latest techniques.



## Doctor of Veterinary Medicine (DVM)

Historically, academic activity was started in 1882 in this institution which was first named as Veterinary School in Asia. By the end of 19<sup>th</sup> 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 Punjab University in 1942, and 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 degree program was recommended and approved by Pakistan Veterinary Medical Council and enjoys support of Higher Education Commission also. 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 license exams.

The program consists of pre-clinical, clinical and livestock management related courses. The scheme of courses is designed in such a way that the students will spend first six semesters at Lahore Campus to study pre-clinical and veterinary courses. Next three semesters will be offered at Ravi Campus and will have concentration of livestock management related courses as well as Medicine, Surgery and Animal Reproduction clinics. Last/10<sup>th</sup> semester will consist of internship program and courses about farm operations. The purpose of the internship is to expose the students to real field situations to enhance their professional skills and competencies.

The degree enables the student to manage livestock and poultry farms and deal with all kind of clinical situations and emergencies.

Successful graduates can get employment in Livestock & Dairy Development Departments in all the provinces of Pakistan. Public sector placements include those in Veterinary Hospitals, Disease Diagnosis 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 multi-national dairy and poultry companies 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 carrier.

### SCHEME OF STUDY (DVM)

Course No.	Course Title	Credit Hours
<b>First Semester</b>		
ANAT-02101	General and Systemic Anatomy	4(1-3)
ANAT-02102	General Veterinary Histology & Embryology	3(1-2)
BIOC-02103	General Biochemistry	3(2-1)
PHYS-02104	Cardiovascular, Respiratory and Renal Physiology	3(2-1)
STCS-02105	Computer Application	1(0-1)
STCS-02106	Mathematics	2(2-0)
SOSC-02107	English-I (Functional English)	2(2-0)
	<b>TOTAL</b>	<b>18</b>
<b>Second Semester</b>		
ANAT-02201	Comparative Anatomy	4(1-3)
ANAT-02202	Systemic Veterinary Histology	3(1-2)
BIOC-02203	Biochemistry of Metabolism	2(2-0)
PHYS-02204	Physiology of Digestion and Lactation	3(2-1)
MICR-02205	General Veterinary Microbiology	3(2-1)
PARA-02206	General Veterinary Parasitology	2(1-1)
SOSC-02207	English-II (Communication Skills)	2(2-0)
SOSC-02208	Islamic Studies/	1(1-0)
SOSC-02209	Ethics	
SOSC-02210	Pakistan Studies	1(1-0)
	<b>TOTAL</b>	<b>21</b>
<b>Third Semester</b>		
PHRM-02301	General Veterinary Pharmacology and Pharmaceutics	3(2-1)
PATH-02302	General Veterinary Pathology	4(3-1)
PARA-02303	Veterinary Protozoology	2(1-1)
PHYS-02304	Endocrinology and Neuromuscular Physiology	2(1-1)
MICR-02305	Fundamentals of Immunology	2(1-1)
MICR-02306	Molecular Biology	3(2-1)
STCS-02307	Biostatistics	3(2-1)
	<b>TOTAL</b>	<b>19</b>
<b>Fourth Semester</b>		
PHRM-02401	Systemic Veterinary Pharmacology and Therapeutic	3(2-1)
PATH-02402	Systemic Veterinary Pathology	4(3-1)
PARA-02403	Veterinary Helminthology	4(3-1)
MICR-02404	Bacteriology and Mycology	3(2-1)
MICR-02405	Systemic Veterinary Virology	3(2-1)
NUTR-02406	Principles of Animal Nutrition	3(2-1)
CLMS-02407	General Veterinary Surgery & Anesthesiology	3(1-2)

	<b>TOTAL</b>	<b>23</b>
	<b>Fifth Semester</b>	
PHRM-02501	Veterinary Toxicology and Chemotherapy	2(1-1)
APTC-02502	Meat and Slaughter By-Products Technology	3(2-1)
PATH-02503	Necropsy Practice	1(0-1)
PATH-02504	Veterinary Clinical Pathology	2(0-2)
PARA-02505	Veterinary Entomology	3(2-1)
EPPH-02506	Veterinary Epidemiology and Public Health	3(2-1)
THER-02507	Animal Reproduction and Artificial Insemination	3(2-1)
CLMS-02508	General Veterinary Medicine	3(2-1)
CLMS-02509	Large Animal Surgery	2(1-1)
	<b>TOTAL</b>	<b>22</b>
	<b>Sixth Semester</b>	
PATH-02601	Meat Hygiene and Public Health	2(1-1)
PATH-02602	Forensic Medicine and Jurisprudence	1(1-0)
EPPH-02603	Dairy Herd Health	2(1-1)
EPPH-02604	Milk Hygiene and Public Health	2(1-1)
THER-02605	Veterinary Obstetrics and Genital Diseases	4(2-2)
CLMS-02606	Systemic Veterinary Medicine-I	3(3-0)
CLMS-02607	Shoeing and Soundness	2(1-1)
CLMS-02608	Small Animal Surgery	3(1-2)
CLMS-02609	Diagnostic Imaging	2(1-1)
	<b>TOTAL</b>	<b>21</b>
	<b>Seventh Semester</b>	
THER-02701	Introduction to Reproductive Biotechnologies	2(2-0)
THER-02702	Reproduction Clinic –I	2(0-2)
CLMS-02703	Surgery Clinic-I	2(0-2)
CLMS-02704	Medicine Clinic-I	2(0-2)
CLMS-02705	Systemic Veterinary Medicine-II	3(3-0)
PPRO-02706	Introduction to Poultry Production	2(1-1)
LPRO-02707	Introduction to Livestock Management	1(0-1)
LPRO-02708	Introduction to Animal Breeding and Genetics	4(3-1)
LPRO-02709	Beef Production	2(1-1)
LPRO-02710	Principles of Dairy Production	3(2-1)
	<b>TOTAL</b>	<b>23</b>
	<b>Eighth Semester</b>	
THER-02801	Reproduction Clinic-II	2(0-2)
CLMS-02802	Surgery Clinic-II	2(0-2)
CLMS-02803	Medicine Clinic-II	2(0-2)
PPRO-02804	Poultry Breeding and Hatchery Management	2(1-1)
LPRO-02805	Animal Breeding Plans and Policies	3(2-1)
LPRO-02806	Small Ruminant Production	2(1-1)
LPRO-02807	Equine and Camel Production	2(0-2)
NUTR-02808	Feed Evaluation, Formulation and Processing	3(2-1)
NUTR-02809	Animal Feed Resources and Forage	3(2-1)

	Conservation	
CEDU-02810	Livestock Extension Education	2(2-0)
LEBM-02811	Livestock Economics and Business Management	3(3-0)
	<b>TOTAL</b>	<b>26</b>
<b>Ninth Semester</b>		
PATH-02901	Poultry Pathology	3(1-2)
THER-02902	Reproduction Clinic-III	2(0-2)
CLMS-02903	Surgery Clinic-III	2(0-2)
CLMS-02904	Medicine Clinic-III	2(0-2)
APTC-02905	Dairy Technology	2(1-1)
PPRO-02906	Poultry Housing and Farm Management	3(2-1)
NUTR-02907	Poultry Nutrition	2(1-1)
NUTR-02908	Ruminant Nutrition	2(1-1)
NUTR-02909	Feed Mill Operations	2(0-2)
AQFS-02910	Introduction to Fisheries and Aquaculture	2(1-1)
WECO-02911	Lab and Zoo Animal Management	1(1-0)
	<b>TOTAL</b>	<b>23</b>
<b>Tenth Semester</b>		
LPRO-021001	Livestock Farm Operations	2(0-2)
PPRO-021002	Poultry Farm Operations	2(0-2)
SOSC-021003	English - III (Technical Report Writing and Presentation)	2(2-0)
DVMI-021004	Internship	
	<b>TOTAL</b>	<b>6</b>

(Contact Hours Theory=109 Practical=186) **Grand Total = 202\***

**\*As Per HEC Formula:**

One contact hour for theory equals to 1 credit hour.  
 Three contact hours for practical equal to 1 credit hour.  
 Total Credit hours. 171



## B.S. (Hons.) APPLIED MICROBIOLOGY

Department of Microbiology is contributing significantly in the field of conventional diagnostics and vaccines as is evident from the fact that many students both at Ph.D. and Master level are being trained. The trained man power is serving in various capacities at different private and public establishments of the country. The department is actively engaged in teaching undergraduate and postgraduate (M.Phil + PhD), deficiency and diploma courses and is organizing variety of workshops to train man power in advanced techniques being used in the biologics, pharmaceutical and chemical diagnostics production units. The department is well equipped with latest laboratory facilities like Cell culture, Immunology and Vaccinology, Molecular Biology, Mycology, Bacteriology, Biofermentation Virology, including lab facilities of Quality Operations Laboratory and University Diagnostic Laboratory.



In year 2007, a new degree program titled “BS (Hons.) Applied Microbiology” was initiated. Two batches of the students have completed their degree program. Currently four batches including

newly admitted batch are progressing successfully. This degree program targets almost all areas of applied microbiology namely Veterinary Microbiology, Medical Microbiology, Pharmaceutical Microbiology, Environmental Microbiology, Soil Microbiology, Biofermentation Industrial Microbiology, Biotechnology, Biosafety and Biosecurity, Quality control in Food industry, and Biologics products Dairy Industry, Beverage Industry, Mineral Water Industry, Leather Industry, Cosmetic Industry and Dying Industry.

Primary objectives of “B.S. (Hons.) Applied Microbiology” Degree are to train and educate the manpower in the field of applied microbiology, to promote collaboration between national and international universities and institutes in the field of microbiology, to produce qualified and skilled man power at certificate, diploma, under graduate and graduate levels in the field of microbiology and to explore new avenues in the field of microbiology, especially in the areas of food microbiology, dairy microbiology, food safety, food hygiene and quality control. This unique unmatched program covers gambit aspects of microbial life.

## SCHEME OF STUDY B.S. (HONS.) APPLIED MICROBIOLOGY

Course No.	Course Title	Credit Hours
<b>First Semester</b>		
MICR-05101	Fundamentals of Microbiology	4(3-1)
MICR-05102	Molecular Cell Biology	4(3-1)
STCS-05103	Basics of Computer	3(3-0)
SOCS-05104	English Comprehension	3(3-0)
STCS-05105	Calculus & Analytical Geometry	3(3-0)
	<b>Total</b>	<b>17</b>
<b>Second Semester</b>		
MICR-05201	Introduction to Mycology	3(2-1)
MICR-05202	Basic Immunology	3(2-1)
MICR-05203	General Virology	3(2-1)
BIOC-05204	Principles of Biochemistry	3(2-1)
SOCS-05205	Business and technical English Writing	3(3-0)
SOCS-05206	Islamic Studies/	1(1-0)
SOSC-05207	Ethics	
PHYS-05208	General physiology	3(2-1)
	<b>Total</b>	<b>19</b>
<b>Third Semester</b>		
MICR-05301	Introduction to Cell Culture	4(2-2)
MICR-05302	Bacterial Cell Physiology	3(2-1)
STCS-05303	Statistics & Probability	3(3-0)
BIOC-05304	Biosynthesis and Metabolism	3(2-1)
SOCS-05305	Communication Skills	3(3-0)
SOCS-05306	Pakistan Studies	2(2-0)
	<b>Total</b>	<b>18</b>
<b>Fourth Semester</b>		
MICR-05401	Fundamentals of Microbial Genetics	3(2-1)
MICR-05402	Probiotics & Antimicrobials	2(1-1)
EPPH-05403	Epidemiology and Public Health	3(2-1)
BIOC-05404	Protein Purification	2(1-1)
BTIF-05405	Genetic Engineering & Biotechnology	4(3-1)
BTIF-05406	Bioinformatics	2(1-1)
PARA-05407	Diagnostic Parasitology	3(1-2)
	<b>Total</b>	<b>19</b>
<b>Fifth Semester</b>		
MICR-05501	Veterinary Microbiology	4(3-1)
MICR-05502	Applied Immunology	3(2-1)
MICR-05503	Marine and Fresh Water Microbiology	3(2-1)
MICR-05504	Soil Microbiology	3(2-1)
MICR-05505	Food and Dairy Microbiology	5(3-2)
	<b>Total</b>	<b>18</b>

Sixth Semester		
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(1-2)
PHRM-05606	General Pharmacology and Chemotherapy	3(2-1)
	<b>Total</b>	<b>19</b>
Seventh Semester		
MICR-05701	Pharmaceutical Microbiology	4(3-1)
MICR -05702	Introduction to Vaccinology	3(2-1)
MICR-05703	Diagnostic Microbiology	3(0-3)
MICR-05704	Quality Control in biologics	2(1-1)
MICR-05705	Biosafety and Biosecurity /Working In Containment Facilities	2(1-1)
MICR-05706	Instrumentation and analytical techniques	3(1-2)
	<b>Total</b>	<b>17</b>
Eighth Semester		
MICR-05801	Internship	0(0-0)
MICR-05802	Technical Report Writing	2(2-0)
MICR-05803	Emerging Issues in Microbiology	1(1-0)
MICR-05804	Comprehensive Examination	5(5-0)
	<b>Total</b>	<b>8</b>
	<b>Grand Total</b>	<b>135</b>



# Faculty of Animal Production & Technology

## Dean's Message

Livestock contributed approximately 55.1 percent to the agricultural value added and 11.6 percent to national GDP during 2011-12, against 54.6 percent and 11.6 percent during the same period last year. Gross value added of the livestock sector at constant factor cost has increased from Rs. 672 billion (2010 11) to Rs. 700 billion (2011-12); showing an increase of 4.0 percent as compared to previous year. The population growth, increase in per capita income and the potential for export is fueling the demand of livestock and livestock products. The rise in production cost has increased the retailer's and consumer's price index for milk, yogurt, meat, eggs, and other items.



The Faculty of Animal Production & Technology with its' six Departments i.e. Livestock Production, Poultry Production, Animal Nutrition, Dairy Technology, Meat Technology & Leather & Fiber Technology is keeping pace with the requirements of allied sectors by fulfilling the needs of human resource, development of appropriate technologies and conducting problem oriented research. Besides offering different courses for the Degree of Doctor of Veterinary Medicine, two new 4 years duration professional degree programs, namely, B.S. (Hons,) Poultry Science and B.S. (Hons) Dairy Technology, are being successfully conducted at the Faculty. Many short training courses & Diploma courses are also offered for the farmers and stake holders in the field of livestock and poultry production and animal product technology. Two new Diploma courses, namely, Dairy Herd Management & Poultry Assistant Diploma have been recently initiated to meet the needs of dairy and poultry industry.

To improve quality of education and practical skills of the students, the Faculty has developed three different research and training centers at Ravi Campus Pattoki, namely, Small Ruminants Training and Research Centre, Poultry and Dairy Animals Training and Research Centre and Dairy Training and Development Centre. Avian Research and Training (ART) Centre has also been established at Feroze Pur Rood, Lahore, with the purpose of providing practical insight and training to the students in the field of avian production.

I welcome the students getting admission in different undergraduate degree programs of this prestigious professional University. I am confident that the students will enjoy excellent environment for education, training and their future career development. I wish the students best of luck and success in all their future endeavors.

**Prof. Dr. Muhammad Abdullah**  
Dean



## **FACULTY OF ANIMAL PRODUCTION & TECHNOLOGY**

### **DEAN.**

Prof. Dr. Muhammad Abdullah B. Sc (Hons) (AH), M. Sc (Hons) (UAF), Ph D (USA)

### **DEPARTMENT OF LIVESTOCK PRODUCTION**

#### **Chairman**

Prof. Dr. Khalid Javed B. Sc (Hons) (AH), M.Sc (Hons) , Ph D (UAF)

#### **Associate Professors**

Dr. Jalees Ahmad Bhatti B. Sc (Hons) (AH), M. Sc (Hons) (UAF), Ph D (UAF)  
Dr. Ahmad Ali B. Sc (Hons), M. Sc (Hons) (UAF), Ph D (UK), (TTS)

#### **Assistant Professors**

Mr. Nisar Ahmad B. Sc (Hons) (AH), M. Sc (Hons) (UAF)  
Dr. Afzal Ali B. Sc (Hons) (AH), M. Sc (Hons) (UAF), Ph D (UAF)  
Dr. Yasir Zahoor, DVM (UVAS), M.Phil. (PU), Ph.D. (PU)

#### **Lecturers**

Mr. Imtiaz Ahmad Sajid, B. Sc (Hons) (UAF), M. Sc (Hons) (UAF) (On Study Leave abroad)  
Mr. Muhammad Qamar Shahid, B. Sc (Hons) (AH), (UAF) (On Study Leave abroad)  
Mr. Imran Mohsin DVM (UVAS), M. Phil (UVAS)  
Mr. Hamid Mustafa B. Sc (Hons) (AH), DVM (Def) (UVAS)  
Mr. Hifz- ul- Rehman DVM (UVAS), M. Phil (UVAS)  
Mr. Muhammad Saadullah B. Sc (Hons) (AH) M.Sc (Hons) UAF  
Mr. Dilshad Rasheed DVM (UVAS)

### **DEPARTMENT OF POULTRY PRODUCTION**

#### **Chairman**

Prof. Dr. Muhammad Akram, B.Sc (Hons) (AH), M.Sc (Hons) (UAF), Ph D (UAF), Post Doc (S. Korea)

#### **Associate Professor**

Dr. Abdul Waheed Sahota, DVM (UAF) M.Sc (Hons) (UAF), Ph D (UAF)  
Dr. Athar Mahmud, DVM (UAF), M. Sc (Hons) (UAF), Ph D (UVAS).

#### **Assistant Professors**

Ms. Atia Basheer, B. Sc (Hons) AH (UAF), M. Sc (Comp Sc.) (UAF), M. Sc (Hons) (PH)(UAF)(On Study Leave abroad)  
Mr. Shahid Javaid, B. Sc (Hons) (UAF), M. Sc (Hons) (UAF), Dip IT (Australia)

#### **Lecturer**

Mr. Imran Zahoor, DVM (UVAS), M. Phil (UVAS) (On Study Leave abroad)  
Mr. Jibrán Hussain, B. Sc (A.H), M. Sc (Hons)  
Mr. Shahid Mehmood, B. Sc (A.H), M.Sc (Hons) (Adhoc)

#### **Veterinary Officer (ART Centre)**

Mr. Muhammad Hayat Jaspal, DVM (On Study Leave abroad)

### **DEPARTMENT OF ANIMAL NUTRITION**

#### **Chairman**

Prof. Dr. Anjum Khaliq, B.Sc (Hons) (AH) (UAF), M.Sc. (Hons) (UAF), Ph D (PU)

**Professors**

Prof. Dr. Talat Naseer Pasha, DVM (UAF), M. Sc. (Hons.) (UAF), Ph D (USA)

**Assistant Professors**

Dr. Saima, B. Sc (Hons) (AH) (UAF), M. Sc (Hons) (UAF), Ph D (UAF) **(TTS)**

**Lecturers**

Mr. Muhammad Kamran, B. Sc (Hons) (UAF), M. Sc (Hons) (UAF) **(on study leave)**

Mr. Saeed Ahmad, DVM (UAF), M. Sc (Hons) (UAF) **(on study leave)**

Miss. Summera Iqbal, B. Sc (Hons) (UAF), M. Sc (Hons) (UAF) **(On Study Leave abroad)**

Mr. Ehsan Ullah, DVM (UVAS), M. Phil (UVAS)

Mr. Yasir Allah Ditta, DVM (UVAS), M. Phil (UVAS)

Mr. Mohd Afzal Rashid DVM (UVAS), M. Phil (UVAS)

**DEPARTMENT OF DAIRY TECHNOLOGY**

Officer Incharge / Subject Specialist

Dr. Muhammad Ayaz, B.Sc. (AH) (PU), M.S. (USA), Ph. D (USA)

Assistant Professor

Dr. Imran Javed, B.Sc. (Hons) (UAF), M.Sc. (Hons) (UAF), Ph. D (QAU, UTSA)

Dr. Muhammad Gulzar, B.Sc. (Hons) (UAF), M. Phil (France), Ph. D (France)

Mr. Imtiaz Hussain, B.Sc.(Hons) (UAF), M.Sc.(Hons) (UAF), (On study leave abroad)

Ms. Saima Inayat, DVM (SAUT), M.Sc. (Hons) (SAUT)

**Lecturers**

Mr. Muhammad Nadeem, B.Sc. (Hons) (UAF), M.Sc. (Hons) (UAF)

Mr. Muhammad Junaid, DVM (UVAS), M. Phil (UVAS)

Mr. Saqib Manzoor, B.Sc (Hons.) Chemical Engineering (PU)

Mr. Ishtiaq Ahmed, B.Sc. (Hons) (UAF), M.Sc. (Hons) (UAF)

**DEPARTMENT OF MEAT TECHNOLOGY****Lecturers**

Mr. Kashif Nauman, DVM (UAF), M.Sc. (Hons) (UAF)

Mr. Jamal Nasir, DVM (UVAS)

**DEPARTMENT OF LEATHER AND FIBER TECHNOLOGY****Lecturer**

Mr. Sadaqat Ali Chattha, DVM (UVAS)

## **B. S. (HONS.) DAIRY TECHNOLOGY**

The B.S (Hons) Dairy Technology is a novel degree offered by the Department of Dairy Technology under the Faculty of Animal Production and Technology.



Department of Dairy Technology is first of its kind in Pakistan which offer degree programme at both undergraduate and post graduate levels.

There is need of dairy processing industry for specially qualified dairy professionals having managerial and professional skills.

Dairy technology graduates have job opportunity in the fields like dairy industries, food industries, academia, research laboratories and institutes, government organizations and quality assurance programme etc

Department of Dairy Technology has well equipped under graduate and post graduate laboratories with modern equipment to fulfill experimental and research needs of B.S (Hons.), M.Phil and Ph.D students. The department has established its own library with latest books and research journals on various disciplines of food science, dairy technology and food microbiology. There was a need for the practical training of the dairy technology students in the area of milk and milk products processing. After the establishment of dairy technology department, the biggest achievement of the department was the establishment of a dairy processing plant with a milk processing capacity of 2000 liters per hours. The plant will also process other dairy products like yoghurt, laban, butter, desi ghee, cheese and ice cream. This project was financed by HEC with a cost of Rs. 109.815 millions. In addition to this the dairy plant facility will impart training to students, dairy industries personals and other stakeholders Moreover HEC approved research



project "Development of a Process for the Production of Protein Isolate from Buffalo Milk" worth Rs. 39.12 million has been completed.

Our success stems from quality teaching coupled with hands-on approach to training at our milk processing plant which is unique in the country. This means we provide students the opportunity for practical training to learn in real situations - an approach that offers far-reaching benefits. Because our students learn by doing, they can apply their new skills and knowledge as soon as they return to their place of work. At the same time, our training also gives them the flexibility they need to adapt their learning to meet any new challenges they may face.

The degree programme in Dairy Technology started with the following aims and objectives.

- To impart advance knowledge about milk processing as a major discipline in the field of dairy technology
- To equip the students with recent knowledge and practical skills for suitable planning, state of art processing / preservation and dairy products manufacturing.
- To train the manpower for handling of milk processing / preservation and product manufacturing equipment and machinery
- To train manpower for production, evaluation, marketing of value added milk product meeting WTO standards.
- To develop aptitude and demonstration skills for teaching, research and management in dairy industry.
- Improvement of milk handling and processing
- To assist the dairy industry in the area of product development and research.

## SCHEME OF STUDIES B. S. (HONS.) DAIRY TECHNOLOGY

<b>1<sup>st</sup> Year</b>		
<b>First Semester</b>		
<b>Course No.</b>	<b>Title of Course</b>	<b>Credit Hours</b>
STCS 06101	Basics of Computer	3(3-0)
SOSC 06102	English Comprehension	3(3-0)
STCS 06103	Business Mathematics and Statistics	3(3-0)
DTEC 06104	Introduction to Dairy Technology	3(2-1)
DTEC 06105	Fluid Mechanics	3(2-1)
	Sub. Total	<b>15</b>
<b>Second Semester</b>		
SOSC 06201	Business and Technical English Writing	3(3-0)
SOSC06202/06203	Islamic Studies/Ethics	1(1-0)
BIOC 06204	Principles of Biochemistry	3(2-1)
LEBM 06205	Marketing Management and International Trade	3(3-0)
LPRO 06206	Introduction to Livestock Production	3(2-1)
NUTR 06207	Introduction to Food and Nutrition	3(2-1)
		<b>16</b>
<b>2<sup>nd</sup> Year</b>		
<b>Third Semester</b>		
SOSC 06301	Communication Skills	3(3-0)
SOSC 06302	Pakistan Studies	2(2-0)
STCS 06303	Statistics and Probability	3(3-0)
LPRO 06304	Principles of Milk Production and Procurement	3(2-1)
DTEC 06305	Introduction to Microbiology	3(2-1)
DTEC 06306	Milk Processing Technology	3(2-1)
DTEC 06307	Introduction to Food Chemistry	3(2-1)
	Sub. Total	<b>20</b>
<b>Fourth Semester</b>		
DTEC 06401	Thermodynamics	3(2-1)
DTEC 06402	Chemistry of Dairy Products	3(2-1)
DTEC 06403	Food and Industrial Microbiology	3(2-1)
DTEC 06404	Food Preservation	3(2-1)
DTEC 06405	Traditional Dairy Products	3(2-1)
DTEC 06406	Dairy Plant Management and Sanitation	3(2-1)
	Sub. Total	<b>18</b>
<b>3<sup>rd</sup> Year</b>		
<b>Fifth Semester</b>		
<b>Course No.</b>	<b>Title of Course</b>	<b>Credit Hours</b>
DTEC 06501	Dairy Microbiology	3(2-1)
DTEC 06502	Heat Transfer and Refrigeration	3(2-1)
DTEC 06503	Food Processing Technology	3(2-1)
DTEC 06504	Fermented Dairy Products	4(3-1)
DTEC 06505	Dairy Products Research and Development	3(2-1)
DTEC 06506	Food Safety and Toxicology	2(2-0)
		<b>18</b>
<b>Sixth Semester</b>		
LPRO 06601	Dairy Biotechnology	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	3(2-1)
DTEC 06606	International Food Safety Management Systems	3(3-0)
	Sub. Total	<b>18</b>
<b>4<sup>th</sup> Year</b>		
<b>Seventh Semester</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	Food Laws and Regulations	2(2-0)
DTEC 06706	Quality Assurance in Food Industry	3(2-1)
LEBM 06707	Dairy Business Management	2(2-0)
	Sub. Total	<b>19</b>
<b>Eighth Semester</b>		
DTEC 06801	Internship in Dairy Industry	6(0-6)
	Sub. Total	<b>6</b>
<b>Total Credit Hours:</b>		<b>130 Hours</b>



## B.S. (HONS.) POULTRY SCIENCE

In Pakistan, poultry production has been playing a vital role in bridging the gap between supply and demand of animal protein foods for its ever increasing human population. Eggs and poultry meat are one of the best sources of animal protein of high biological value. Poultry offers the best prospects as a commercial enterprise and has shown spectacular progress and development with the annual growth rate of about 8 to 10 percent during 2011-2011. This sector is one of the leading sectors in the country with an estimated investment of approximately over 200 billion rupees.



Human resource development in the field of poultry production is essentially needed to enhance poultry production in the country. This fast growing dynamic sector is presently in the active phase of transformation from its



conventional housing and management into a modern high-tech environmentally controlled housing system. Besides this, recently, there has been a trend of adoption of modern integrated poultry farming. This sector therefore requires provision of high-tech and better skilled farm managers capable of handling the modern environmental controlled housing and management systems.

Keeping above in view, a new degree program B.S. (Hons.) Poultry Science of 4 years duration was started in the year 2007 with the following objectives:

- i. To cater to the needs of human resource development for the local poultry sector.
- ii. To produce better skilled & high tech professionals to serve as managers in breeder, broiler & layer farms, hatchery & poultry processing units.
- iii. To produce professionals capable of tackling problems in the areas of poultry breeding and genetics, poultry housing & management, poultry nutrition, poultry processing & marketing & poultry waste management.

## SCHEME OF STUDIES FOR B.S. (HONS.) POULTRY SCIENCE

Course No.	Title	Credit hour
<b>FIRST SEMESTER</b>		
SOSC -07101	English Comprehension	3(3-0)
STCS -07102	Business Mathematics and Statistics	3(3-0)
PHYS -07103	Avian Anatomy and Physiology	4(2-2)
POSC -07104	Introduction to Poultry Science	4(2-2)
STCS -07105	Introduction to computing	3(3-0)
	<b>Total</b>	<b>17</b>
<b>SECOND SEMESTER</b>		
BIOC -07201	Principles of Biochemistry	3(2-1)
SOSC -07202/ SOSC-07203	Islamic Studies/ Ethics	1(1-0)
SOSC -07204	Business & Technical Report Writing	3(3-0)
LEBM -07205	Entrepreneurship	3(3-0)
EPPH -07206	Poultry Hygiene and Disease Prevention	4(2-2)
POSC -07207	Game Bird Production	4(2-2)
	<b>Total</b>	<b>18</b>
<b>THIRD SEMESTER</b>		
SOSC -07301	Communication Skills	3(3-0)
STCS -07302	Statistics and Probability	3(3-0)
NUTR -07303	Fundamentals of Poultry Nutrition	3(2-1)
ANBG -07304	Introduction to Poultry Genetics	3(2-1)
SOSC -07305	Pakistan Studies	2(2-0)
POSC -07306	Biology of the fowl	3(2-1)
	<b>Total</b>	<b>17</b>
<b>FOURTH SEMESTER</b>		
ANBG -07401	Fundamentals of Population Genetics	3(2-1)
NUTR -07402	Nutrition of Table poultry	3(2-1)
POSC -07403	Broiler Production and Management	4(2-2)
LEBM -07404	Poultry Marketing & Business Management	3(3-0)
	<b>Total</b>	<b>13</b>
<b>FIFTH SEMESTER</b>		
NUTR -07501	Nutrition of Laying Birds	3(2-1)
POSC -07502	Layer Production and Management	4(1-3)
POSC -07503	Egg Products Technology	3(1-2)
ANBG -07504	Molecular Genetics and Biotechnology	3(2-1)
LEBM -07505	Elements of Business	3(3-0)
	<b>Total</b>	<b>16</b>
<b>SIXTH SEMESTER</b>		
ANBG -07601	Applied Poultry Genetics	3(2-1)
POSC -07602	Poultry Housing and Environmental Management	3(2-2)
POSC -07603	Management of Parent Flocks	4(1-3)
POSC -07604	Poultry Farm Engineering and Construction	3(2-1)
POSC -07605	Poultry Processing and Preservation Technology	3(2-1)

NUTR -07606	Feed Formulation and Processing Technology	3(1-2)
	<b>Total</b>	<b>19</b>
<b>SUMMER SEMESTER</b>		
POSC -07701	Research Project	6(0-6)
	<b>Total</b>	<b>6</b>
<b>SEVENTH SEMESTER</b>		
POSC -07702	Incubation Principles and Hatchery Management	4(2-2)
POSC -07703	Avian Embryology	3(2-1)
POSC -07704	Computerized Poultry Record Keeping	3(2-1)
MICR -07705	Quality Control Management in Poultry Operations	3(2-1)
LEBM -07706	Poultry Marketing and Risk Management	3(3-0)
APTC -07707	Further Poultry Processing	2(1-1)
	<b>Total</b>	<b>18</b>
<b>EIGHTH SEMESTER</b>		
POSC -07801	Internship	6(0-6)
	<b>Total</b>	<b>6</b>
	<b>Grand Total</b>	<b>130</b>



## FACULTY OF BIO-SCIENCES

### Dean's Message

The urge for high quality educational institute in the country has existed since long. It is commendable to observe that UVAS is now established as a credible institution of training manpower in various disciplines of emerging sciences related to Animal Sciences, Molecular-Biology and Biotechnology and in a relatively short period is being recognized as one of the reputed Universities of the country. Modern societies are knowledge-based and it is inconceivable to achieve socio-economic development or nation building without trained manpower in scientific and technological fields particularly in the areas of emerging sciences of Biology.

We had our difficult moments but with the blessing of our well wishers and hard work by all concerned, we managed to complete our tasks successfully. Today it can proudly be claimed that our team has been sincerely engaged in contributing their share to this cause. We have been vigorously pursuing our dream for achieving excellence in UVAS by providing highly qualified faculty, a challenging curriculum and an efficient administrative team. We firmly believe in producing well-qualified and marketable graduates and postgraduates. Therefore, we have highly qualified, experienced & dedicated faculty devoted to the cause of education in the country. But the real assets of educational institutes are its students. Equally precious are the alumni of this great alma mater who are engaged in one way or the other in the betterment of this institute and profession. Let us work together and make this University a model for others. May Allah bless us with divine guidance to carry out this noble mission.



**Prof. Dr. Ijaz Ahmad.**  
Dean

## FACULTY OF BIO-SCIENCES

### Dean

Prof. Dr. Ijaz Ahmad  
DVM (UAF), M.Sc. (Hons) (UAF), MS (USA)  
Ph.D. (USA), Postdoc (Canada) (TTS)

### DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY

#### Chairman

Prof. Dr. Muhammad Ashraf  
DVM (UAF), M.Sc (Hons) (UAF), Ph.D. (USA) (TTS)

#### Assistant Professor (s)

Dr. Muhammad Ovais Omer  
DVM (UAF), M.Sc. (Hons) (UAF)

Dr. Aqeel Javed  
DVM, M.Sc. (Hons), Ph.D. (China) (TTS)

Mr. Muhammad Adil Rasheed  
DVM (UVAS) M.Phil. (UVAS)

#### Lecturer (s)

Mr. Sheryar Afzal  
DVM (UAF), M.Sc. (Hons) (UAF) (on study leave abroad)

### DEPARTMENT OF PHYSIOLOGY

#### Chairman

Prof. Dr. Habib-ur-Rehman  
DVM (UAF), M.Sc. (Hons) (UAF), Ph.D. (Austria)

#### Assistant Professor(s)

Mr. Shahbaz Yousaf  
DVM (UAF), M.Sc. (Hons) (UAF), M.Phil.

Dr. Imtiaz Rabbani  
DVM (UAF), M.Sc. (Hons). (UAF), PhD (Germany) (TTS)

Dr. Muhammad Quaid Zaman  
DVM (UVAS), MS (France) (TTS)

#### Lecturer(s)

Mr. Muhammad Imran Khan  
DVM, M.Phil. (UVAS)

Khalid Abdul Majeed  
DVM, M.Phil.  
Research Associate

Mr. Muhammad Shahzad Hussain  
DVM (UAF)

### DEPARTMENT OF ANATOMY AND HISTOLOGY

#### Assistant Professor (s)

Officer Incharge  
Dr. Hafsa Zaneb  
DVM (UAF), M.Sc. (Hons) (UVAS) PhD (Austria) (TTS)  
Mr. Saleem Qaiser  
DVM (UAF), M.Sc. (Hons) (UAF) M.Phil.

Dr. Saima Masood  
DVM (UAF), M.Sc. (Hons) (UAF) Ph.D. (China)

#### Lecturer (s)

Ms. Saima Ashraf  
DVM (UAF), M.Phil. CMS (UVAS)

Mr. Mirza Muhammad Usman  
DVM (UVAS)

Ms. Sahar Ijaz

#### Teaching Assistant

Muhammad Arshad Javed  
DVM (UVAS)

### DEPARTMENT OF SOCIAL SCIENCES

#### Assistant Professor (s)

Dr. Hafiz Abdul Sattar  
MA (Arabic) Islamic Studies, Fazil-e-Darse Nizami HAS (KSA), Ph.D. (PU)

#### Lecturer(s)

Mr. Muhammad Sarwar Siddique  
B.Ed. (AIOU), MA (Islamic Studies) (PU), MA (Arabic) (MUL) Fazil Darse-Nizami (MUL) (on study leave)  
Ms. Misbah Yaseen Toor  
M.A, English

#### Instructor

Ms. Nazia Nazir  
M.A (English)

### CENTRE FOR ENVIRONMENTAL SCIENCE, POLICY AND MANAGEMENT

#### Assistant Professor

##### Dr. Saif ur Rehman Kashif

(on deputation from UAF)  
B.Sc. (Hons) Soil Science, M.Sc. (Hons.) Soil Science, Ph.D. ( ISES-UAF), Postdoc USA.

#### Lecturer

Ms. Ghina Islam (on contract)  
B.S. (Hons) Environment Sciences (PU)

## **Institute of Biochemistry & Biotechnology**

### **Director**

Prof. Dr. Masroor Ellahi Babar, B.Sc. (Hons) (AH) (UAF), M.Sc.(Hons) (UAF), M.Sc. (Comp.Sci) (UAF), Ph.D (UAF), Postdoc (Canada), Postdoc training (USA).

### **Subject Specialist**

Dr. Abu Saeed Hashmi, B.Sc. (PU), M.Sc. (UAF), Ph.D. (UAF).

### **Associate Professor**

Dr. Atif Hanif, DVM (UAF), M. Phil (QAU), Ph.D. (Greece) On Leave

### **Assistant Professors**

Mr. Shahid Abbas, B.Sc., M.Sc. (UAF).

Dr. Ali Raza Awan, B.Sc. (Hons) (UAF), M.Phil (PU), Ph.D. (PU), Post.Doc (CEMB).

Dr. Muhammad Wasim, B.Sc. (BZU), M.Sc. (BZU), M.Phil (QAU), Ph.D. (Austria).

Dr. Asif Nadeem, B.Sc. (Hons) (UAF), M.Sc. (Hons) (UAF), M.Phil (PU), Ph.D. (UVAS).

Dr. Muhammad Tayyab, B.Sc. (BZU), M. Sc. (UAF), M.Phil (UAF), Ph.D. (PU).

### **Lecturers**

Mrs. Rahat Naseer, M.Sc. (QAU), M. Phil (UVAS) On Study Leave

Mr. Muhammad Asif, DVM (UAF), M. Phil (QAU)

Mr. Tanveer Hussain, DVM (UVAS), M.Phil (UVAS) On Study Leave

Ms. Saeeda Kalsoom, B.Sc. (GCU), M.Sc. (GCU), M.Phil (PU)

Ms. Sehrish Firyal, DVM (UAF), M.Sc. (Hons) (UAF)

Ms. Faiza Masood, B.S. (PU), M.S. (PU)

Mrs. Shagufta Saeed, B.S. (PU), M.Sc. (PU)

Ms. Asma Waris, B.S. (PU), M.S. (PU)

Mr. Muhammad Imran, M.Sc. (UAF), M.Phil (PU)

Mrs. Maryam Javed, DVM (UVAS), M.Phil (UVAS)

Mr. Akhtar Ali, BEMS (IUB), M.Phil (UVAS)

Ms. Huma Mujahid, M.Sc. (PU), M.Phil (UVAS)

Mr. Muhammad Muddassir Ali, DVM (UVAS), M.Sc. (Sweden)

## **INSTITUTE OF PHARMACEUTICAL SCIENCES**

### **Director**

Dr. Farzana Chowdhary

B.Pharm (PU), M.Pharm (PU), Ph.D. (PU)

### **Assistant Professor(s)**

Dr. Sonia Khiljee

B.Pharm, M.Phil., Ph.D. (TTS)

Ms. Huma Rasheed

B.Pharm, M.Phil. (Pharmaceutics)

Mrs. Shaista Qamar

B.Pharm, M.Phil. (Pharm, Chem.)

Mr. Irfan Masood

B.Pharm, M.Phil. (Pharmaceutics)

### **Lecturer(s)**

Mr. Allah Bukhsh

B.Pharm, M.Phil (Molecular Biology)

Mr. Muhammad Usman

B.Pharm, M.Phil. (Pharmacology)

Syed Muhammad Muneeb Anjum

B.Pharm, MS TQM, M.Phil (Pharmacology)

Sadia Chaman

B.Pharm, M.Phil. (Pharmacognosy)

Hafiz Muhammad Awais Nawaz

Pharm.D, M.Phil. (Pharmaceutics)

### **Teaching Assistant**

Ms. Hina Hussain

Pharm-D, M.Phil. (Pharmaceutics)

Shaukat Ali Gondal

Pharm-D

Ms. Saima Rubab

Pharm-D, M.Phil. (Pharmacognosy)

Mr. Mubeen Akbar Chohan

Pharm-D

## **DEPARTMENT OF FOOD SCIENCE AND HUMAN NUTRITION**

### **Officer Incharge / Assistant Professor**

Dr. Muhammad Nasir,

B.Sc. (Hons) (UAF), M.Sc. (Hons) (UAF), PhD (UAF & MSU) (TTS)

Dr. Naureen Naeem,

B.Sc. (Hons) (UAF), M.Sc. (Hons) (UAF), PhD

(UAF) **(TTS)**

Dr. Sanaullah Iqbal,  
B.Sc. (Hons) (UAF), M.Sc. (Hons) (UAF), PhD  
(Austria) **(TTS)**

**Lecturer**

Miss Zahra Khan,  
B.Sc. (PU), M.Sc. (UAF), M.Phil. (KEMU)  
Miss Frasad Rizwan,  
B.Sc. (Hons) (UAF), M.Sc. (Hons) (UAF)  
Miss Amina Chughtai,  
M.Sc. (PU), PGD (PU)

**Teaching Assistant**

Mr. Umar Bacha, B.Sc. Biochemistry, M. Phil. Human  
Nutrition (UVAS)

## Institute of Biochemistry and Biotechnology

### B.S. (Hons.) Biotechnology and Bioinformatics

The Institute of Biochemistry and Biotechnology was instituted in September 2009 after the up gradation and union of department of Molecular Biology and Biotechnology and department of Biochemistry. In undergraduate degrees, the institute is offering B.S. (Hons.) Biotechnology and Bioinformatics with more than 120 strength of students. Biotechnology and Bioinformatics is a broad umbrella of biological research and development that draws upon the traditional fields of Biochemistry, Cell Biology, Molecular Genetics, Microbiology and Information technology to develop biological product and tools for human management and data analysis & management. The field emerged from DNA Cloning revolution of the 1970's but has now expanded to include a variety of applications from chemistry, computer sciences, mathematics and physics.



curriculum. A lot of data has been generated within the whole region and worldwide. Given the current state of Biotechnology and molecular biology research in Pakistan, it appears that Bioinformatics expertise is mainly required in limited areas. While on the one side a lot of effort is still required to strengthen the basic research infrastructure at universities and research institutions, on the other side we need to take initiatives to promote modern sciences and integrating them into the already developing basic sciences. Currently, broad-based education encompassing all of these fields has been largely developed for masters-level programs; however, a small number of baccalaureate programs have emerged around the country, the B.S in Biotechnology & Bioinformatics at UVAS, Lahore. The combination of computer science biology, termed as bioinformatics has created various opportunities for the people in Biotechnology.



Since Biotechnology concerns the application of science to human welfare and economic development, many business and law school programs have incorporated issues related to biotechnology into their

Pakistan offers unique genetic resources in human population, crops and other species, in several areas such as development of crop varieties Pakistan offers genuine promise. In other words the service provision in bioinformatics is possible. Although the research and developmental

capabilities in Pakistan are limited, the Bioinformatics and biotech graduates can be absorbed in prestigious universities, agri-biotech and pharmaceutical companies. Teaching programs geared towards training individuals at the graduate/undergraduate levels and arousing interest in the subject are imperative. The government needs to provide a network of communication among the existing scientists, academic institutions and research organizations. Regarding to the new emerging field of bioinformatics as compared to biotechnology, effective communication and collaboration among all sectors is crucial for the success of bioinformatics and would push technology from research to industry.

Some of the many sectors where there is a wide scope for biotechnologists and bioinformaticians are health care, environment, agriculture and food technology. Biotechnology jobs in Pakistan can be already seen regularly in Pakistan national dailies. Other areas, which can be considered for job creation, are;

1. Industries (like Drug & Sugar industries in Pakistan)
2. Database development
3. Clinical work and its management
4. Pharmaceutical areas

5. Research methodology and tools designing
6. Universities and Research Institutions

### **Emerging Scope/Fields in Bioinformatics with biotechnological background in Pakistan**

1. Nutritional informatics
2. Functional Genomics
3. Computational System Biology
4. Semantic Web
5. Nanotechnology
6. Software development (genomic analysis, educational & online materials, data storage, image analysis, automation of data gatherings etc).
7. Databases (of Plant & animal varieties, patients/health care management, epidemiological & clinical studies, analysis of clinical trials).
8. Sharing with industries (Toxicology studies in food industries, R&D in drug companies, Livestock, Fish Farming etc).
9. Research (genomics/proteomics analysis, disease/drug development, statistical research, vaccine development, Agriculture, bioinformatics faculty, assistance to scientists etc).

### Scheme of Studies B.S. (Hons.) Biotechnology and Bioinformatics

Course No.	Title	Credit hour
<b>First Semester</b>		
SOSC-04101	English Comprehension	3(3-0)
STCS-04102	Basics of Computer	3(3-0)
BTIF-04103/ STCS-04104	Introduction to Biology/ Introduction to Mathematics	3(3-0)
MICR-04105	Microbiology	3(2-1)
BTIF-04106	Essentials of Genetics	3(2-1)
BIOC-04107	Fundamentals of Biochemistry	3(2-1)
		<b>18</b>
<b>Second Semester</b>		
SOSC-04201	Business and Technical English Writing	3(3-0)
STCS-04202	Calculus & Analytical Geometry	3(3-0)
SOSC-04203	Islamic Studies	1(1-0)
BTIF-04204	Fundamentals of Biotechnology	3(3-0)
BTIF-04205	Cellular Biology	3(2-1)
BIOC-04206	Metabolism and Biosynthesis	3(2-1)
		<b>16</b>
<b>Third Semester</b>		
STCS-04301	Object Oriented Programming	3(3-0)
STCS-04302	Statistics and Probability	3(3-0)
STCS-04303	Discrete Mathematics	3(3-0)
SOSC-04304	Pakistan Studies	2(2-0)
BTIF-04305	Introduction to Bioinformatics	3(2-1)
BTIF-04306	Molecular Biology	4(3-1)
		<b>18</b>
<b>Fourth Semester</b>		
STCS-04401	Data Structure	3(3-0)
STCS-04402	Visual Programming	3(3-0)
MICR-04403	Basic Immunology	3(2-1)
BTIF-04404	Food Biotechnology	4(3-1)
BTIF-04405	Microbial Biotechnology	3(2-1)
		<b>16</b>
<b>Fifth Semester</b>		
STCS-04501	Database Management System	3(3-0)
STCS-04502	Fundamentals of Algorithms	3(3-0)
STCS-04503	Linear Algebra	3(3-0)
BTIF-04504	Genomics	3(3-0)
BTIF-04505	Proteomics	3(3-0)
BTIF-04506	Applications of Biotechnology	3(3-0)
		<b>18</b>
<b>Sixth Semester</b>		
STCS-04601	Computer Graphics	3(3-0)
STCS-04602	Artificial Intelligence	3(3-0)
BTIF-04603	Bioinformatics Methods	3(2-1)
BTIF-04604	Microbial Genetics	3(2-1)
BTIF-04605	Health Biotechnology	3(3-0)
BTIF-04606	Elective I	4(3-1)
		<b>19</b>

<b>Seventh Semester</b>		
BTIF-04701	Nanotechnology	3(3-0)
BTIF-04702	Applied Bioinformatics	4(3-1)
BTIF-04703	Molecular Methods	3(0-3)
BTIF-04704	Bio Ethics & Safety	3(3-0)
BTIF-04705	Elective II	4(3-1)
		<b>17</b>
<b>Eight Semester</b>		
BTIF-04801	Research Project	6(0-6)
BTIF-04802	Special Topics in Bioinformatics	3(3-0)
BTIF-04803	Elective III	4(3-1)
BTIF-04804	Elective IV	4(3-1)
		<b>17</b>
	<b>Grand Total</b>	<b>139</b>



## B.S (Hons.) Nutrition & Dietetics

A proverb “Let food be thy medicine and medicine be thy food” evidences the existence of discipline of Nutrition & Dietetics to Hippocrates era. However, recent advances in the field of biological sciences in last few decades have immensely contributed in this applied scientific discipline. Human Nutrition as well as Dietetics are well established disciplines in developed world and are contributing significantly to protect and improve human health. Unfortunately, neglecting of this important sector, in developing countries like Pakistan, has badly affected people’s health at all stages of life.



Pakistan, as developing economy, is suffering double burden of malnutrition; resulting in chronic and infectious diseases due to both over- and under-nutrition. The role of nutrition (Dietetics) in cure of diseases as well as health protection in diseased condition is largely un-explored due to nonexistence of this very crucial discipline in the country. Keeping in view the core significance and vast scope, the Department of Food Science & Human Nutrition has initiated four years bachelor degree program “B.S. (Hons.) Nutrition & Dietetics” in collaboration with King Edward Medical University / Mayo Hospital, Lahore.

This degree programme will enable the students to professionally excel in the field of public health through meeting today’s market requirements. The students after graduation will be able to demonstrate their

expertise in multiple fields which include but not limited to:

- Dietitians in the hospitals providing medical nutrition therapy and nutritional counseling to the indoor and outdoor patients
- Nutritionists, providing nutritional counseling to the healthy segment of the population regarding lifestyle changes and development of healthy eating patterns
- Community nutritionists working with different national and international organizations imparting nutrition education and awareness regarding healthy eating habits in the rural areas for the prevention of nutritional diseases and promotion of health
- Dietitian practitioners at personal / private clinic(s)
- Consultants in the field of nutrition & dietetics for public & private sector organizations dealing in food & nutrition supplements
- Nutritionists in food & drug industries especially dealing in therapeutic foods and supplements
- Nutrition supervisors in basic health units in different districts of Punjab
- Nutrition officers in the nutrition wing of the Health Department.
- Researchers in research organizations to conduct research in nutrition & dietetics with special reference to health outcome of healthy individuals & patients
- Nutritionists & dietitians in teaching organizations like universities & colleges

The discipline of Human Nutrition existed as a part of Department of Food & Nutrition in the faculty of Animal Production & Technology since 2008 and was offering M. Phil & Ph.D. degree programs in Food and Nutrition. However, considering the widespread scope and to harmonize the B.S. Nutrition & Dietetics program with the scope of the Faculty, the governing body of UVAS (Syndicate) has created a separate Department “Food Science & Human

Nutrition” in the Faculty of Bio-Sciences. Although, this Department is new yet very well equipped with teaching and lab facilities for running a successful B.S. program with capacity to impart requisite underpinning knowledge, practice skills and core competencies. The Department has already collaborated with King Edward Medical University / Mayo Hospital, Lahore for

utilizing their expertise in teaching medical related courses and practical training (house job) of the students. Furthermore, the students will also benefit from short trainings, seminars, workshops and other degree programs being offered in the Department; Pg Dip in Food Safety and M. Phil & Ph.D. in Nutrition.



### Scheme of Studies B.S. (Hons.) Nutrition & Dietetics

Course No.	Title	Credit hour
<b>First Semester</b>		
NUTD-10101	Fundamentals of Human Nutrition	3(3-0)
SOCS-10102	English Comprehension	3(3-0)
STCS-10103	Basics of Computer	3(3-0)
STCS-10104	Mathematics	3(3-0)
NUTD-10105	General Anatomy and Histology	4(2-2)
	<b>Sub. Total</b>	<b>16(14-2)</b>
<b>Second Semester</b>		
NUTD-10201	Fundamentals of Food Processing and Preservation	4(3-1)
SOSC-10202	Business & Technical English Writing	3(3-0)
SOSC-10203/ SOSC-10204	Islamic Studies / Ethics	1(1-0) 1(1-0)
PHYS-10205	Physiology- 1	3(2-1)
BIOC-10206	Principles of Biochemistry	3(2-1)
MICR-10207	Fundamentals of Microbiology	3(2-1)
	<b>Sub. Total</b>	<b>17(13-4)</b>
<b>Third Semester</b>		
SOSC-10301	Pakistan Studies	2(2-0)
NUTD-10302	Macronutrients in Human Nutrition	3(3-0)
PHYS-10303	Physiology- 2	3(2-1)
SOSC-10304	Communication Skills	3(3-0)
STCS-10305	Biostatistics	3(3-0)
BIOC-10306	Medical Biochemistry	3(2-1)
	<b>Sub. Total</b>	<b>17(15-2)</b>
<b>Forth Semester</b>		
NUTD-10401	Vitamins in Human Nutrition	3(2-1)
NUTD-10402	Minerals in Human Nutrition	3(2-1)
MICR-10403	Medical Microbiology	4(3-1)
SOSC-10404	Sociology	3(3-0)
PATH-10405	General Pathology	3(2-1)
NUTD-10406	Meal Planning and Management	2(1-1)
	<b>Sub. Total</b>	<b>18(13-5)</b>
<b>Fifth Semester</b>		
NUTD-10501	Nutrition Throughout Lifecycle	3(3-0)
NUTD-10502	Disease Prevention Through Nutrition	3(2-1)
NUTD-10503	Dietetics- 1	3(2-1)
EPPH-10504	Epidemiology & Public Health	3(2-1)
PATH-10505	Systemic Pathology	3(2-1)
MICR-10506	Food Microbiology	3(2-1)
	<b>Sub. Total</b>	<b>18(13-5)</b>
<b>Sixth Semester</b>		
NUTD-10601	Food Safety and Quality Management	3(2-1)
NUTD-10602	Proteomics and Nutrigenomics	3(2-1)
NUTD-10603	Functional Foods and Nutraceuticals	3(3-0)
NUTD-10604	Public Health Nutrition- 1	3(2-1)
NUTD-10605	Dietetics- 2	3(2-1)
NUTD-10606	Nutrition and Psychology	2(2-0)

	<b>Sub. Total</b>	<b>17(13-4)</b>
<b>Seventh Semester</b>		
NUTD-10701	Project- 1	3(0-3)
PHRM-10702	Food Toxicology and Additives	3(2-1)
NUTD-10703	Sports Nutrition	3(2-1)
NUTD-10704	Biotechnology in Nutrition and Dietetics	3(2-1)
NUTD-10705	Public Health Nutrition- 2	3(2-1)
NUTD-10706	Traditional and Aboriginal Foods	3(2-1)
	<b>Sub. Total</b>	<b>18(10-8)</b>
<b>Eight Semester</b>		
NUTD-10801	Project- 2	3(0-3)
PHRM-10802	Food and Drug Laws	2(2-0)
NUTD-10803	Recent Advances in Clinical Nutrition	2(2-0)
NUTD-10804	Nutritional Intervention Planning	3(2-1)
NUTD-10805	Drug-Nutrient Interactions	2(2-0)
NUTD-10806	Nutritional Education and Awareness	3(2-1)
	<b>Sub. Total</b>	<b>15(10-5)</b>
	<b>Grand Total</b>	<b>136(101-35)</b>

**Note:** To work as Registered Dietitians (RDs), graduates will be required to complete 6-9 months supervised training / internship in a hospitalized set-up which will be arranged by the Department in collaboration with King Edward Medical University at Mayo Hospital, Lahore.

## **INSTITUTE OF PHARMACEUTICAL SCIENCES (IPS)**

### **PHARMACY – A HEALTH CARE PROFESSION**

#### **VISION**

The Institute of Pharmaceutical Sciences envisions itself as an intellectually superior research based institution of Pharmacy, committed to excellence, achievement and innovation in pharmacy education at all levels. It shall be recognized as a premier institution that advances the profession of pharmacy through its highly competent faculty developing leaders of tomorrow capable of meeting the challenges of the profession and society. The students are instilled with the values of professionalism, responsibility, integrity, professional development and ethics, decision making and advancement.

#### **MISSION STATEMENT**

The Institute of Pharmaceutical Sciences is committed to providing excellence in pharmacy education and emerging related disciplines, and, to prepare highly skilled leaders and innovators excelling in pharmacy practice, education, research and public service.

#### **PHARMACY EDUCATION**

The continuous advances occurring in the health care system, novel medicines' discoveries and nature of drug therapy have also led to changes in the role of



pharmacists and in the development of new paradigms in pharmacy education and practice over the past decades. With specialization in the medical disciplines, the



horizon of the role of pharmacy profession has also expanded to include more varied health care related functions. To support the growing health care needs of the country, the Institute of Pharmaceutical Sciences (IPS) of The University of Veterinary and Animal Sciences (UVAS) recruited the first batch of students in its five years' Pharm D program in 2008. The Institute is offering modern teaching and learning facilities through the academicians, who are professionals either in the field of Pharmaceutics, Pharmaceutical Chemistry, Pharmacognosy, Pharmacology or have firsthand experience of Hospital and Community Pharmacy. It maintains air conditioned & multimedia fitted lecture halls and modern laboratories equipped with reliable instruments. Additionally a library with latest books / journals, more than 400 e-books and computers with internet facility has been provided for the students.

The formal University education, combined with the practical training within the local industries and other related institutions / organizations, provides a base for the academic and professional development of the students. In an environment characterized by professionalism, cooperation, civility, diversity, mentoring,

nurturing and accountability, the academic curriculum for studies and the strongly committed faculty within the Institute of Pharmaceutical Sciences of the University of Veterinary & Animal Sciences, aims to train the students indoctrinated with the ability of life long learning, leadership skills, competency, integrity, social responsibility, population based care management, and commitment to maintaining professional competence and development throughout their careers.

### **PHARMACY AS A PROFESSION**

Pharmacy is the health profession that serves as a bridge between the disciplines of health sciences and chemical sciences. Charged with the responsibility of ensuring safe and effective use of drugs / medicines. The pharmacists have become more integral within the modern health care system.



Like multitude of other health care professions, which are currently experiencing growth, so is the profession of pharmacy. Resultantly, to meet the patients' needs, the pharmacists are now working in partnership with other health-care professionals in a variety of health-care settings in addition to other medicine related disciplines like medicine discovery, development, production, distribution, dispensing, testing, research etc. Recognized as Custodians of medicines the



**Pharmacists** are specialists in the science and clinical use of medicines.

### **CAREER OPTIONS**

Pharmacists are the only health-care professionals with a unique knowledge of medicines starting from manufacture to their use in patients. Pharmacy offers a wide range of career opportunities for pharmacists to pursue, which include-

- Community and retail pharmacy
- Clinical and hospital pharmacy
- Trainers of other health workers
- Occupational specialists, mainly industrial pharmacy engaged in drug / medicine manufacture, quality control, pharmaceutical technology and research
- Academicians, managers, and administrators of pharmaceutical services and systems
- Drug regulators and law enforcers
- Drug lawyers / attorneys
- Quality assurance managers
- Sales and marketing managers
- Drug procurement, utilization and supply managers
- Drug information consultants
- Drug research and development experts
- Clinical research collaborators
- Home care and long term care facilities managers
- Promotional pharmacist and pharmaceutical marketing managers
- Nuclear pharmacists

## SCHEME OF STUDIES Pharm SD

Course No.	Subject	Credit Hours
<b>1st Semester</b>		
PHAR 03301	Pharmaceutical Chemistry-I (Organic-I) [Th.]	3 (3-0)
PHAR 03303	Pharmaceutical Chemistry-I (Organic-I) [Lab.]	1 (0-1)
PHAR 03305	Pharmaceutical Biochemistry-I [Th.]	3 (3-0)
PHAR 03307	Pharmaceutical Biochemistry-I [Lab.]	1 (0-1)
PHAR 03309	Pharmaceutics-I (Physical Pharmacy-1) [Th.]	3 (3-0)
PHAR 03311	Pharmaceutics-I (Physical Pharmacy-1) [Lab.]	1 (0-1)
PHAR 03313	Physiology & Histology-I [Th.]	3 (3-0)
PHAR 03315	Physiology & Histology-I [Lab.]	1 (0-1)
PHAR 03317	Anatomy	3 (3-0)
PHAR 03319	Pharmaceutical Mathematics	2 (2-0)
<b>Total Cr. Hr.</b>		<b>21</b>
<b>2nd Semester</b>		
PHAR 03302	Pharmaceutical Chemistry-II (Organic-II) [Th.]	3 (3-0)
PHAR 03304	Pharmaceutical Chemistry-II (Organic-II) [Lab.]	1 (0-1)
PHAR 03306	Pharmaceutical Biochemistry-II [Th.]	3 (3-0)
PHAR 03308	Pharmaceutical Biochemistry-II [Lab.]	1 (0-1)
PHAR 03310	Pharmaceutics-II (Physical Pharmacy-II) [Th.]	3 (3-0)
PHAR 03312	Pharmaceutics-II (Physical Pharmacy-II) [Lab.]	1 (0-1)
PHAR 03314	Physiology & Histology -II [Th.]	3 (3-0)
PHAR 03316	Physiology & Histology-I [Lab.]	1 (0-1)
PHAR 03318	Biostatistics	4 (4-0)
<b>Total Cr. Hr.</b>		<b>20</b>
<b>3<sup>rd</sup> Semester</b>		
PHAR 03401	Pharmaceutics-III (Pharmaceutical Preparations-I) [Th.]	3 (3-0)
PHAR 03403	Pharmaceutics-III (Pharmaceutical Preparations-I) [Lab.]	1 (0-1)
PHAR 03405	Pharmacology & Therapeutics-I (General-I) [Th.]	3 (3-0)
PHAR 03407	Pharmacology & Therapeutics-I (General-I) [Lab.]	1 (0-1)
PHAR 03409	Pharmacognosy-I [Th.]	3 (3-0)
PHAR 03411	Pharmacognosy-I [Lab.]	1 (0-1)
PHAR 03413	Pharmaceutical Microbiology-I [Th.]	3 (3-0)
PHAR 03415	Pharmaceutical Microbiology-I [Lab.]	1 (0-1)
PHAR 03417	Pakistan Studies	3 (3-0)
<b>Total Cr. Hr.</b>		<b>19</b>
<b>4<sup>th</sup> Semester</b>		

PHAR 03402	Pharmaceutics-IV (Pharmaceutical Preparations-II) [Th.]	3 (3-0)
PHAR 03404	Pharmaceutics-IV (Pharmaceutical Preparations-II) [Lab.]	1 (0-1)
PHAR 03406	Pharmacology & Therapeutics-II (General-II) [Th.]	3 (3-0)
PHAR 03408	Pharmacology & Therapeutics-II (General-II) [Lab.]	1 (0-1)
PHAR 03410	Pharmacognosy-II [Th.]	3 (3-0)
PHAR 03412	Pharmacognosy-II [Lab.]	1 (0-1)
PHAR 03414	Pharmaceutical Microbiology-II [Th.]	3 (3-0)
PHAR 03416	Pharmaceutical Microbiology-II [Lab.]	1 (0-1)
PHAR 03418	Islamiyat	3 (3-0)
<b>Total Cr. Hr.</b>		<b>19</b>
<b>5<sup>th</sup> Semester</b>		
PHAR 03501	Pathology [Th.]	3 (3-0)
PHAR 03503	Pathology [Lab.]	1 (0-1)
PHAR 03505	Pharmacology & Therapeutics-III (Systemic Pharmacology-I) [Th.]	3 (3-0)
PHAR 03507	Pharmacology & Therapeutics-III (Systemic Pharmacology-I) [Lab.]	1 (0-1)
PHAR 03509	Pharmacognosy-III [Th.]	3 (3-0)
PHAR 03511	Pharmacognosy-III [Lab.]	1 (0-1)
PHAR 03513	Pharmaceutical Chemistry-III (Instrumentation-I) [Th.]	3 (3-0)
PHAR 03515	Pharmaceutical Chemistry-III (Instrumentation-I) [Lab.]	1 (0-1)
PHAR 03517	Pharmaceutics-V (Dispensing Pharmacy) [Th.]	2 (2-0)
PHAR 03519	Pharmaceutics-V (Dispensing Pharmacy) [Lab.]	1 (0-1)
<b>Total Cr. Hr.</b>		<b>19</b>
<b>6<sup>th</sup> Semester</b>		
PHAR 03502	Computer and its Applications in Pharmacy [Th.]	3 (3-0)
PHAR 03504	Computer and its Applications in Pharmacy [Lab.]	1 (0-1)
PHAR 03506	Pharmacology & Therapeutics-IV (Systemic Pharmacology-II) [Th.]	3 (3-0)
PHAR 03508	Pharmacology & Therapeutics-IV (Systemic Pharmacology-II) [Lab.]	1 (0-1)
PHAR 03510	Pharmacognosy-IV [Th.]	3 (3-0)
PHAR 03512	Pharmacognosy-IV [Lab.]	1 (0-1)
PHAR 03514	Pharmaceutical Chemistry-IV (Instrumentation-II) [Th.]	3 (3-0)
PHAR 03516	Pharmaceutical Chemistry-IV (Instrumentation-II) [Lab.]	1 (0-1)
PHAR 03518	Pharmaceutics-VI (Community Pharmacy) [Th.]	4 (4-0)
<b>Total Cr. Hr.</b>		<b>20</b>
<b>7<sup>th</sup> Semester</b>		
PHAR 03601	Pharmaceutics-VII (Hospital Pharmacy-I) [Th.]	3 (3-0)
PHAR 03603	Pharmaceutics-VIII (Clinical Pharmacy-I) [Th.]	3 (3-0)
PHAR 03605	Pharmaceutics-VIII (Clinical Pharmacy-I) [Lab.]	1 (0-1)
PHAR 03607	Pharmaceutics-IX (Industrial Pharmacy-I) [Th.]	3 (3-0)
PHAR 03609	Pharmaceutics-IX (Industrial Pharmacy-I) [Lab.]	1 (0-1)

PHAR 03611	Pharmaceutics-X (Biopharmaceutics-I) [Th.]	3 (3-0)
PHAR 03613	Pharmaceutics-X (Biopharmaceutics-I) [Lab.]	1 (0-1)
PHAR 03615	Pharmaceutics-XI (Pharmaceutical Quality Management-I) [Th.]	3 (3-0)
PHAR 03617	Pharmaceutics-XI (Pharmaceutical Quality Management-I) [Lab.]	1 (0-1)
<b>Total Cr. Hr.</b>		<b>19</b>
<b>8<sup>th</sup> Semester</b>		
PHAR 03602	Pharmaceutics-VII (Hospital Pharmacy-II) [Th.]	3 (3-0)
PHAR 03604	Pharmaceutics-VIII (Clinical Pharmacy-II) [Th.]	3 (3-0)
PHAR 03606	Pharmaceutics-VIII (Clinical Pharmacy-II) [Lab.]	1 (0-1)
PHAR 03608	Pharmaceutics-IX (Industrial Pharmacy-II) [Th.]	3 (3-0)
PHAR 03610	Pharmaceutics-IX (Industrial Pharmacy-II) [Lab.]	1 (0-1)
PHAR 03612	Pharmaceutics-X (Biopharmaceutics-II) [Th.]	3 (3-0)
PHAR 03614	Pharmaceutics-X (Biopharmaceutics-II) [Lab.]	1 (0-1)
PHAR 03616	Pharmaceutics-XI (Pharmaceutical Quality Management-II) [Th.]	3 (3-0)
PHAR 03618	Pharmaceutics-XI (Pharmaceutical Quality Management-II) [Lab.]	1 (0-1)
<b>Total Cr. Hr.</b>		<b>19</b>
<b>9<sup>th</sup> Semester</b>		
PHAR 03701	Pharmaceutical Chemistry-V (Medicinal-I) [Th.]	3 (3-0)
PHAR 03703	Pharmaceutical Chemistry-V (Medicinal-I) [Lab.]	1 (0-1)
PHAR 03705	Pharmaceutics-XII (Clinical Pharmacy-III) [Th.]	3 (3-0)
PHAR 03707	Pharmaceutics-XII (Clinical Pharmacy-III) [Lab.]	1 (0-1)
PHAR 03709	Pharmaceutics-XIII (Pharmaceutical Technology-I) [Th.]	3 (3-0)
PHAR 03711	Pharmaceutics-XIII (Pharmaceutical Technology-I) [Lab.]	1 (0-1)
PHAR 03713	Pharmaceutics-XIV (Forensic Pharmacy-I) [Th.]	3 (3-0)
PHAR 03715	Pharmaceutics-XV (Pharmaceutical Management & Marketing-I) [Th.]	3 (3-0)
<b>Total Cr. Hr.</b>		<b>18</b>
<b>10<sup>th</sup> Semester</b>		
PHAR 03702	Pharmaceutical Chemistry-V (Medicinal-II) [Th.]	3 (3-0)
PHAR 03704	Pharmaceutical Chemistry-V (Medicinal-II) [Lab.]	1 (0-1)
PHAR 03706	Pharmaceutics-XII (Clinical Pharmacy-IV) [Th.]	3 (3-0)
PHAR 03708	Pharmaceutics-XII (Clinical Pharmacy-IV) [Lab.]	1 (0-1)
PHAR 03710	Pharmaceutics-XIII (Pharmaceutical Technology-II) [Th.]	3 (3-0)
PHAR 03712	Pharmaceutics-XIII (Pharmaceutical Technology-II) [Lab.]	1 (0-1)
PHAR 03714	Pharmaceutics-XIV (Forensic Pharmacy-II) [Th.]	3 (3-0)
PHAR 03716	Pharmaceutics-XV (Pharmaceutical Management & Marketing-II) [Th.]	3 (3-0)
<b>Total Cr. Hr.</b>		<b>18</b>
<b>Grand Total Credit Hr.</b>		<b>192</b>

## B.S. (Hons.) Environmental Science

The scientists have a unique role to discover how the earth system works and how the understanding of this system can help us to use it for mankind. No one except an environmental scientist can evaluate and manipulate this system. Environmental education means organized efforts to teach how natural environments function, and particularly, how human being can manage their behavior and ecosystems in order to live sustainably. Environmental change is rapidly altering the world in which we live - its cities and suburbs, regional and rural landscapes, its natural heritage and biodiversity. All these have significant political and economic implications. The Environmental Science is a multidisciplinary field because it comprises various branches of science like Chemistry, Physics, Veterinary/medical science, Life science, Agriculture, Public health, Sanitary engineering etc. It is the science of physical



phenomena in the environment. It studies the sources, reactions, transport, effect and fate of physical and biological species in the air water and soil and the effect of human activities upon these.

This undergraduate degree will cover various aspects of causes of environmental changes and develop strategies, policy and planning skills to manage effectively the environmental issues at local, national and international

levels. Areas covered include environmental management, population and urban processes, biodiversity, and global changes. Graduate will be equipped for careers in environmental policy, planning and consultancy, administration at local and government levels, teaching and research.



### OBJECTIVES

The main goal of this degree is to challenge the student's ability to integrate theory and practical for the analysis, understanding, and management of environmental and environment-related problems.

The degree aims:

1. To impart knowledge relating to environment through a wide range of subjects encompassing natural and social sciences with special emphasis on Life Sciences.
2. To equip the students with the knowledge and professional skills for better planning, protection and management of resources for human benefits.
3. To prepare the students for the advanced studies in Environmental Science and/or related disciplines.
4. To develop the scientific attitude in teaching and research for handling of environmental issues/problems.
5. To develop managerial skills for the better positions in national and international organizations.

### SCHEME OF STUDIES B.S. (HONS.) ENVIRONMENTAL SCIENCE

Course No.	Title	Credit Hour
<b>First Semester</b>		
ENSC 09101	Introduction to Environmental Science	3(3-0)
ANAT 09102	Basic Biology	3(2-1)
BIOC 09103	Basic Chemistry	3(2-1)
STCS 09104	Mathematics	3(3-0)
SOSC 09105/ SOSC 09106	Islamic Studies/ Ethics	1(1-0)
SOSC 09107	English-I	3(3-0)
	<b>Total</b>	<b>16</b>
<b>Second Semester</b>		
ENSC 09201	Introduction to Earth Science	3 (2-1)
PHYS 09202	Physiological Principles of Life	3(2-1)
STCS 09203	Statistics	3 (3-0)
SOSC 09204	Sociology	3(3-0)
SOSC 09205	English-II	3(3-0)
SOSC 09206	Pakistan Studies	2(2-0)
	<b>Total</b>	<b>17</b>
<b>Third Semester</b>		
STCS 09301	Introduction to Computer	3(1-2)
BIOC 09302	Environmental Chemistry	3 (2-1)
ENSC 09303	Environmental Physics	3 (3-1)
LEBM 09304	Introductory Economics	3(3-0)
SOSC 09305	English-III	3(3-0)
PHYS 09306	Environmental Physiology	3 (2-1)
	<b>Total</b>	<b>18</b>
<b>Fourth Semester</b>		
ANAT 09401	Environmental Information in Taphonomic Processes	3 (2-1)
WECO 09402	Fundamentals of Ecology	3(3-0)
MICR 09403	Environmental Microbiology	3(2-1)
ENSC 09404	Environmental Pollution	3(3-0)
ENSC 09405	Climatology	3(3-0)
PHRM 09406	Environmental Toxicology-I	3(3-0)
	<b>Total</b>	<b>18</b>
<b>Fifth Semester</b>		
WECO 09501	Applied Ecology	3 (2-1)
PHRM 09502	Environmental Toxicology-II	3(3-0)
ENSC 09503	Environmental Profile of Pakistan	3(3-0)
LEBM 09504	Environmental Economics	3(3-0)
ENSC 09505	Analytical Techniques in Environmental Science	3(1-2)
	Elective-I	3(3-0)
	<b>Total</b>	<b>18</b>
<b>Sixth Semester</b>		
BTIF 09601	Environmental Biotechnology	3(2-1)
ENSC 09602	GIS and Remote Sensing	4(2-2)
ENSC 09603	Environmental Management Systems	3(3-0)
LEBM 09604	Biodiversity and Conservation	3(3-0)

ENSC 09605	Environmental Monitoring	3(2-1)
ENSC 09606	Animal Waste Management	2(2-0)
	Elective-II	3(3-0)
	<b>Total</b>	<b>21</b>
<b>Seventh Semester</b>		
ENSC 09701	Climate Change	3(3-0)
ENSC 09702	Environmental Impact Assessment	3 (3-0)
ENSC 09703	Natural Resource Management	3(3-0)
ENSC 09704	Research Methods in Environmental Science	3(3-0)
ENSC 09705	Elective-III	3(3-0)
ENSC 09706	Elective-IV	3(3-0)
	<b>Total</b>	<b>18</b>
<b>Eight Semester</b>		
ENSC 09801	Environmental Laws & Policies	3(3-0)
ENSC 09802	Health and Environment	3(3-0)
ENSC 09803	Pollution Control Technologies	3(2-1)
ENSC 09804	Research Project/Internship	3(3-0)
	<b>Total</b>	<b>12</b>
	<b>Grand Total</b>	<b>138</b>



## FACULTY OF FISHERIES AND WILDLIFE

### Dean's Message

The Faculty of Fisheries & Wildlife was established in 2002 and aspires to preeminence among academic programs dealing with applied aspects of Fisheries, Aquaculture, Ecology, Biodiversity, Wildlife Management, and Conservation Biology. Mission of the Faculty is **“Linking Science to Management”** worldwide. The vision of the Department of Fisheries and Wildlife is to be a center of academic excellence in applied Zoology having major emphasis on aquaculture, Fisheries and Wildlife by providing quality programs in teaching and research which will enhance Fisheries and wildlife resource management at local, national, and international level. The faculty is dedicated to generating and disseminating knowledge for the stewardship of natural and managed environments (terrestrial and aquatic) and the use of their products and services through teaching, research, and professional public outreach. The Faculty of Fisheries & Wildlife acquires, integrate, and disseminate knowledge about fish, wildlife and environment at all levels of zoological sciences. Our goal is to provide students with the knowledge needed to make wise decisions on issues of sustainable avenues of “Applied Zoology” which has been adopted as B.S. Honors Degree such as aquaculture, conservation, and ecosystem restoration. We accomplish this through a combination of undergraduate and post-graduate education, scholarly research, extension education and public outreach programs. The Faculty has been affiliated with Fisheries Research & Training Institute (FRTI), Lahore, Lahore Zoo, Veterinary Research Institute (VRI) Lahore and WWF Pakistan where off-campus research, teaching and practical training is provided to the students. In addition, the faculty has developed international linkages and collaboration with World Fish Center, Malaysia, American Fisheries Association, Aqua Wales, University of Wales, Swansea, UK, School of Biological Sciences, University of Aberdeen, UK, Institute of Aquaculture, University of Sterling Scotland, Ontario Veterinary College, University of Laval, Quebec, Canada, University of Guelph Canada, School of Biological Sciences, Aberdeen University, UK, World Wildlife Fund (WWF) and International Union for Conservation of Nature (IUCN) to develop an international level Fisheries & Wildlife research and training programs at the University.



**Prof. Dr. Muhammad Akram**

Dean

## FACULTY OF FISHERIES AND WILDLIFE

### Dean

Prof. Dr. Muhammad Akram, B.Sc. (Hons.) (AH), M. Sc (Hons) UAF, Ph.D. (UAF), Post Doc (S. Korea)

### **DEPARTMENT OF FISHERIES & AQUACULTURE**

### Chairman

Prof. Dr. Muhammad Ashraf, M.Sc. (PU), Ph.D. (USA)

### Subject Specialist

Prof. Dr. Muhammad Sharif Mughal, M.Sc. (PU, Gold Medalist), Ph.D. Plymouth (UK)

### Assistant Professors

Dr. Noor Khan, M.Sc. (UAF), M.Phil. (UAF), Ph.D. (UVAS)

Mr. Muhammad Hafeez-ur-Rehman, M.Sc. (UAF), M.Phil. (UAF)

Dr. Sumaira Abbas, M.Sc. (UAF), M.Phil. (UAF), Ph.D. (UAF)

Dr. Hamda Azmat, M.Sc. (UAF), Ph.D. (UAF)

### Lecturers

Mr. Fayyaz Rasool, M.Sc. (UAF), M.Phil. (UAF)

### **DEPARTMENT OF WILDLIFE AND ECOLOGY**

### Chairman

Prof. Dr. Muhammad Akram, B.Sc. (Hons.) (AH), M. Sc (Hons) UAF, Ph.D. (UAF), Post Doc (S. Korea)

### Assistant Professor

Dr. Arshad Javid, M.Sc. (UAF), M.Phil. (UAF), Ph.D. (UVAS)

Dr. Khalid Mehmood Anjum, M.Sc. (GCU), M.Phil. (GCU). Ph.D. (China)

### Lecturer

Ms. Sana Ashraf, M.Sc. (PU), M.Phil. (UVAS)

Mr. Muhammad Idnan, M.Sc. (Govt. Science College, Wahdat Road, Lahore)



## B.S. (Hons.) APPLIED ZOOLOGY

Specialization in Fisheries & Wildlife sciences with major in Applied Zoology, prepares the students for employment in commercial aquaculture, aquaculture extension, fish hatchery management, fish processing, fish nutrition, natural resource management, environment & wildlife conservation & management, environmental impact assessment & sustainable development. In addition to that Applied Zoological studies will also help the degree holders to get employment in Colleges and Universities for teaching and research. The faculty intends to equip the students with necessary expertise & skills to cater the growing employment needs of these sectors in the country & abroad. I look forward to work with the successful entrants to University and welcome them on behalf of the Faculty.



## SCHEME OF STUDIES OF B.S. (HONS.) APPLIED ZOOLOGY (FISHERIES/WILDLIFE)

Course No.	Name of Subject	Credit Hours
<b>First Semester</b>		
SOSC -08101	Compulsory-I (English Comprehension/English-I)	3(3-0)
STCS-08102	Compulsory-II (Introduction to computer sciences)	3(3-0)
STCS-08103	Compulsory-III (Calculus and Analytical Geometry/STCS/stat-I)	3(3-0)
BTIF-08104	General-II (Fundamentals of Biotechnology)	3(2-1)
MICR-08105	General-II (General Microbiology and immunology)	3(2-1)
FWAZ-08106	Foundation-I(Principles of Animal Life-I)	4(3-1)
<b>Sub-Total</b>		<b>19</b>
<b>Second Semester</b>		
SOSC-08201	Compulsory-IV (Business and Technical Report Writing/English)	3(3-0)
SOSC-08202	Compulsory-V (Islamic studies)	2(2-0)
BIOC-08203	General-III (Principles of Biochemistry)	3(2-1)
PHRM-08204	General-IV(Toxicology)	3(2-1)
FWAZ-08205	Foundation-II(Principles of Animal Life-II)	4(3-1)
<b>Sub-total</b>		<b>15</b>
<b>Third Semester</b>		
SOSC-08301	Compulsory-VI(Communication skills/English-III)	3(3-0)
SOSC-08302	Compulsory-VII(Pakistan Studies)	2(2-0)
STCS-08303	Compulsory-VI(Biostatistics)	3(3-0)
FWAZ-08304	General-V(Environmental Sciences)	4(3-1)
LPRO-08305	General-VI(Introduction to livestock Management)	3(2-1)
FWAZ-08306	Foundation-III(Animal Diversity-I)	4(3-1)
<b>Sub-Total</b>		<b>19</b>
<b>Fourth Semester</b>		
SOSC-08401	Compulsory-IX(Rural sociology)	3(2-1)
POSC-08402	General-VII(Introduction to poultry science)	4(2-2)
FWAZ-08403	Foundation-IV(Animal Diversity-II)	4(3-1)
FWAZ-08404	Foundation-V(Animal Form & Function-I)	4(3-1)
FWAZ-08405	Foundation-VI(Animal Form & Function-II)	4(3-1)
<b>Sub-total</b>		<b>18</b>
<b>Fifth Semester</b>		
FWAZ-08501	General-VIII(Vertebrate Anatomy)	3(2-1)
FWAZ-08502	Foundation-VII(Biological Techniques )	2(1-1)
FWAZ-08503	Major-I(Cell & Molecular biology)	4(3-1)
FWAZ-08504	Major-II(Animal Behavior)	2(2-0)
FWAZ-08505	Major-III(Physiology)	4(3-1)
<b>Sub-Total</b>		<b>15</b>
<b>Sixth Semester</b>		
FWAZ-08601	Foundation-VIII(Developmental Biology)	4(3-1)
FWAZ-08602	Foundation-IX(Evolution & principles of Systematic)	3(2-1)

FWAZ-08603	Major-IV(Biochemistry)	4(3-1)
FWAZ-08604	Major-V(Ecology)	4(3-1)
FWAZ-08605	Major-VI(Wildlife)	2(2-0)
<b>Sub-Total</b>		<b>17</b>
<b>Seventh Semester</b>		
FWAZ-08701	Major-VII(Genetics)	4(3-1)
FWAZ-08702	Major-VIII(Bioinformatics)	2(1-1)
FWAZ-08703	Elective-IX(Fish Breeding and Genetics) or Mammalogy	3(2-1)
FWAZ-08704	Major-IX(Principles of Aquaculture)	4(3-1)
FWAZ-08705	Major-X(Research Project/Internship)	3(3-0)
<b>Sub-Total</b>		<b>16</b>
<b>Eighth Semester</b>		
FWAZ-08801	Major-XI(Research project/ Internship)	3(3-0)
FWAZ-08802	Major-XII(Zoogeography & Paleontology)	3(2-1)
FWAZ-08803	Elective-II(Principles of Aquaculture or Ornithology)	3(2-1)
FWAZ-08804	Elective-III(Fish Nutrition) or Wildlife conservation	3(2-1)
FWAZ-08805	Elective-IV(Fish Hygiene and Health Management) or herpetology	3(2-1)
<b>Sub-Total</b>		<b>15</b>
	<b>Grand Total</b>	<b>134</b>

Note: The courses related to applied Zoology can be exchanged within semesters, if required

## **FACULTY OF LIFE SCIENCES AND BUSINESS MANAGEMENT**

### **Dean's Message**

Livestock Sector is one of the vibrant sectors of Pakistan. It is contributing around 55.1% of the Agriculture value added and 11.6% to national GDP during 2011-12. There is an enormous growth in this Sector during the last few years. As all the fields have got business orientation which is also true for Livestock and Poultry Sectors. Both Sectors are growing with a fast pace, therefore, there is an increased demand of highly skilled manpower in these Sectors. Keeping in view, the Faculty provides all necessary skills vital for Life Sciences professionals. The Faculty offers four years bachelor degree program, Bachelor of Business Administration (BBA). A postgraduate degree Master in Business Administration (MBA) in Life Sciences, a unique program of its own kind in Pakistan, is being successfully in progress.



This year, it is an honor for me to launch a master degree program, MS in Banking and Finance, which are based on latest developments in the banking fields. This program will prepare our graduates for challenging new competitive environment in future life. The Faculty of Life Sciences Business Management is committed to promote business education in concerned professionals.

I welcome you in this university and assure that you will be trained by highly qualified and motivated skilled teaching staff. You will be provided highly congenial environment for learning and your stay here will be remarkably memorable. I wish you best of luck.

**Prof. Dr. Habib-ur Rehman**  
Dean, FLSBM



## **FACULTY OF LIFE SCIENCES AND BUSINESS MANAGEMENT**

### **Dean**

**Prof. Dr. Habib-ur Rehman**, DVM, MSc (Hons), PhD (Austria)

### **Department of Livestock Economics & Business**

#### **Chairman / Associate Professor**

Dr. Tahir Mahmood, MSc, MPhil, PhD (QAU).

#### **Director**

Mr. Sadir Ali Zaidi (Director, Management Studies), BS (Hons) (USA), MBA (USA)

#### **Assistant Professor**

Mr. Maqsood Ahmad, DVM, MSc (Hons)

Mr. Rana Muhammad Ayyub, DVM, MSc (Hons), MBA (PU), PGD (Pb), (On Study leave for PhD in UK)

#### **Lecturer**

Mr. Aman Ullah, DVM, MSc (Hons), MBA, (On Study leave for PhD in Australia)

Miss Samia Ayyub, MBA

Mr. Ali Hamza, MBA

Mr. Attiq-ur-Rehman, MBA

Mr. Muhammad Asif, DVM, MBA

### **Department of Statistics & Computer Sciences**

#### **Assistant Professor**

Mr. Farhan Masud (Officer Incharge), BSc, MSc (QAU)

Mr. Liaquat Ahmad, BSc, MA, MSc, MPhil, (On Study leave for PhD in Pakistan)

Mr. Muhammad Bilal, BSc, MSc, MPhil

Mr. Tariq Mahmood Bajwa, MSc, BEd, MPhil

#### **Lecturer**

Mr. Muhammad Khawar Bashir, BSc, MSc(Pb), (On Study leave for PhD in Pakistan)

Mr. Amir Ali, BCS, MSc (Pb)

## IMPORTANT STUDENT RELATED OFFICES

### Principal Officer Students Affairs

#### Responsibilities

- Academic problems such as change of course, temporary withdrawal , appeals against academic decisions (required to withdraw, failure to qualify for the award of degree etc), problems with teaching or modules, study skills, marking disparities etc.
- Difficulties in getting on with personal tutor or course tutors.
- Termination of registration proceedings.
- Complaints against the University or its academic staff etc.



Prof. Dr. Muhammad Arif Khan Principal Officer Students Affairs

#### Registrar

- The Registrar is a whole time officer of the University and is appointed by the syndicate, on the recommendation of the selection board. He is the custodian of the common seal and the academic records of the University. He is the secretary of almost all the statutory bodies of the university. He is also the Principal officer of the University to deal the matters with Government and other departments.



Dr. Muhammad Afzal Registrar

#### Treasurer

Treasurer's office is responsible for the following duties

- Preparation of dues breakup on annual basis
- Manage the property, the finances and the investments of the University.
- Prepare the annual and revised budget estimates of the University and present them to the Finance & Planning Committee and Syndicate.
- Ensure that the funds of the University are expended on the purposes for which they are allocated, and perform such other duties as may be prescribed.

Mr. Aslam Pervaiz



#### Controller of Examinations

- The office of the Controller of Examinations is responsible for all matter connected with the conduct of examinations preparation of results and declaration of results in University of Veterinary and Animal Sciences, Lahore and College of Veterinary &



### ACKNOWLEDGMENTS

As convener of the Prospectus Committee I am privileged to thank to all the members of Dean's Committee who provided great support and advise time to time. I also wish to acknowledge all the worthy members of Admission Committee without their inputs completion of the task was difficult. Let me also whole heartedly thanks the every active members of the Prospectus Committee who participated in this activity very generously.

At the end I acknowledge Prof. Dr. Nasim Ahmad, Dean Faculty of Veterinary Science and his Staff, Mr. Muhammad Javed, Mr. Muhammad Irfan Najmi, Mr. Muhammad Rizwan Qamar (Department of Parasitology) at Dean's office deserve special appreciation for their assistance in preparation of this Prospectus.

**Dr. Khalid Saeed**  
Convener  
Prospectus Committee

### DEANS' COMMITTEE

01	Prof. Dr. Nasim Ahmad (Convener)	06	Prof. Dr. Masoor Ellahi Baber (Member)
02	Prof. Dr. Mhammad Abdullah (Member)	07	Dr. Farzana Chaudhry (Member)
03	Prof. Dr. Muhammad Ijaz (Member)	08	Dr. Muhammad Afzal (Member)
04	Prof. Dr. Muhammad Akram (Member)	09	Prof. Dr. Tahir Yaqoob (Secretary)
05	Prof. Dr. Habib-ur-Rehman (Member)		

### ADMISSION COMMITTEE

01	Dean, FVS (Convener)	04	Dean, FF&W (Member)
02	Dean, FBS, (Member)	05	Dean, FLS&BM (Member)
03	Dean, FAP&T, (Member)		

### PROSPECTUS COMMITTEE

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04	Dr. Muhammad Aftab Anjum (Member)	13	Mr. Muhammad Rizwan Saleem (Member)
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06	Dr. Imtiaz Rabbani (Member)	15	Mr. Sohail Abbas (Member)
07	Dr. Muhammad Nasir (Member)	16	Mr. Bashrat Ali Khan (Member)
08	Mr. Muhammad Asif (Member)	17	Dr. Waseem Shahzad (Secretary)

09	Mr. Allah Bukhsh Awan		
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