

Cholistan University of Veterinary and Animal Sciences Bahawalpur



PROSPECTUS

2025-2026



CHOLISTAN UNIVERSITY OF
VETERINARY AND ANIMAL
SCIENCES, BAHAWALPUR

**"Empowering Minds, Inspiring
Innovation, and Shaping the Future."**

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Chancellor's Message



Sardar Saleem Haider Khan **(Governor Punjab)**

It is a matter of great satisfaction for me as chancellor to note steady evolution of Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur as second veterinary Institute of higher education and professional knowledge in Cholistan, and its adjoining areas. The rapid advancements in scientific and technological fields, developing nations existence greatly rely on excellence in knowledge based economic corridors to establish sole innovation hubs in future. Cholistan in Punjab province has the largest percentage of livestock population and farmers. Pakistan being at the threshold of an exponential growth, would therefore, bank heavily on livestock like milk, meat and eggs. With its dynamic and relevant academic programs, CUVAS is playing a significant role in achieving national objectives by producing knowledge based human resource. Though relatively young amongst its peers, the University through its commitment and singleness of purpose, has made incredible achievements in the educational fraternity. The emphasis on veterinary quality education and well-rounded personality development of its students, gives the University a distinctive position as well as entrepreneur. I am optimistic that the excellent academic and professional services of CUVAS will equip its students with distinctive edge to have a long-lasting veterinary and value addition expert to achieve twofold profits. CUVAS is unique in creating self employed graduates due to veterinary skills who could be the future leaders. I extend my profound felicitations to CUVAS on the commencement of fresh academic year and for their sustained role in dairy and Cholistan livestock population improvement.

SECRETARY L&DD MESSAGE



Mr. Ahmad Aziz Tarar

Welcome to the Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur—a beacon of opportunity, innovation, and growth for the region and beyond. The CUVAS faculty is dedicated to empowering the next generation of veterinary and animal sciences professionals with world-class education, hands-on experience, and a spirit of service to the community. Our distinguished faculty, with over 70% holding advanced degrees from renowned international institutions, brings global expertise to address local challenges. Through advanced research, modern teaching facilities, and strong industry linkages, CUVAS strives to uplift livestock and dairy sectors, enhance food security, and contribute to the socio-economic development of Cholistan and Pakistan. As you embark on your academic journey with CUVAS, you join a vibrant community committed to excellence, innovation, and ethical leadership. I am confident that your time here will equip you with the knowledge, skills, and values needed to make a meaningful impact in animal health, food production, and rural livelihoods. I warmly welcome you to CUVAS and wish you success, growth, and fulfillment as you shape a brighter future for yourself and your community,

Secretary Livestock, Punjab

VICE CHANCELLOR'S MESSAGE



Prof. Dr. Muhammad Mazhar Ayaz

With deep gratitude and humility, I address you as the Vice Chancellor of CUVAS, a distinguished veterinary institution in Pakistan that has produced renowned graduates. Above all, I express my sincere appreciation to Allah Almighty for the continuous blessings bestowed upon me. I am also thankful to my esteemed colleagues for entrusting me with the honor of leading this esteemed establishment. Throughout CUVAS has earned a well-deserved reputation for nurturing exceptional graduates who have made significant contributions to our nation. As a frontrunner in higher education and scientific research in Pakistan, we have established ourselves as a recognized center of excellence. These accomplishments serve as a testament to the University's unwavering commitment to faculty development, creativity, and innovation. At CUVAS we take immense pride in providing an exceptional learning environment for our students and researchers. Our state-of-the-art laboratories feature cutting-edge facilities, serving as dynamic spaces for exploration, discovery, and collaboration. These resources are not only utilized by our students and faculty members, but also embraced by industry professionals, fostering meaningful connections and enriching experiences.

PRO-VICE CHANCELLOR'S MESSAGE



Prof. Dr. Muhammad Mazhar Ayaz

It is my pleasure to extend a warm welcome to Cholistan University of Veterinary and Animal Sciences (CUVAS) Bahawalpur. At CUVAS, we offer transformative education to talented young individuals, empowering them to thrive in the worldwide knowledge-based economy, drive change locally and internationally, and engage in cooperation within a diverse global context. We are proud to host a number of faculties, including the Faculty of Biosciences, Faculty of Veterinary Sciences, Faculty of Animal Production and Technology, Department of ICE&E and Cholistan Institute of Business Administration. As we move forward, we aim to launch many emergent disciplines related to veterinary and its application in health sciences. Our university strives to become a leading research and academic excellence center of higher education, both nationally and internationally. Our university promises to offer top-notch facilities and resources to our students and faculty members, and we are committed to creating an environment that fosters academic growth, research innovation, and critical thinking. We hope that our students will utilize the opportunities provided to them and become leaders in their respective fields.



Noor Mehal

BAHAWALPUR

**Central
Library**





State of Bahawalpur

Bahawalpur is a city located in the Punjab province of Pakistan. Bahawalpur is the 11th largest city in Pakistan by population according to 2017 census having population of 762,111. Founded in 1748, Bahawalpur was the capital of the former prince state of Bahawalpur, ruled by the Abbasi family of Nawabs until 1955. The Nawabs left a rich architectural legacy, and Bahawalpur is now known for its monuments dating. The city also lies at the edge of the Cholistan Desert and serves as the gateway to the nearby Lal Suhanra National Park. The area known as Bahawalpur State was home to various ancient societies. The Bahawalpur region contains ruins from the Indus Valley Civilization, as well as ancient Buddhist sites such as the nearby Patan minara. British archaeologist Sir Alexander Cunningham identified the Bahawalpur region as home of the Yaudheya kingdoms of the Mahabharata. Prior to the establishment of Bahawalpur, the region's major city was the holy city of Uch Sharif - a regional metropolitan centre between the 12th and 17th centuries, renowned for its collection of historic shrines dedicated to Muslim mystics from the 12-15th centuries. Bahawalpur was founded in 1748 by Nawab Bahawal Khan I after migrating to the region around Uch from Shikarpur, Sindh. Bahawalpur replaced Derawar as the clan's capital city. The city had initially flourished as a trading post on trade routes between Afghanistan and central India. In 1785, the Durrani commander Sardar Khan attacked Bahawalpur city and destroyed main infrastructures. Bahawalpur's ruling family, along with nobles from nearby Uch, were forced to take refuge in the Derawar Fort, where they successfully repulsed attacks. The attacking Durrani force accepted 60,000 rupees as nazrana tribute, though Bahawal Khan later had to seek refuge in the Rajput states. Bahawal Khan returned to conquer the fort by way of Uch, and re-established control of Bahawalpur. Prince state of Bahawalpur was founded in 1802 by Nawab Mohammad Bahawal Khan II after the break-up of the Durrani Empire and was based in the city. In 1807, Ranjit Singh of the Sikh Empire laid siege to the fort in Multan, prompting refugees to seek safety in Bahawalpur. Ranjit Singh eventually withdraw the siege and gifted to Nawab of Bahawalpur. Bahawalpur offered an outpost of stability in the wake of crumbling Mughal rule and declining power of Khorasan's monarchy. British Prince states were given the option to join either Pakistan or India upon withdrawal of British suzerainty in August 1947. The city and prince state of Bahawalpur acceded to Pakistan on 7 October 1947 under Nawab Sadiq Muhammad Khan Abbasi V Bahadur. The city's Quaid-e-Azam Medical College was founded in 1971. While much of southern Punjab's population in Multan support the Pakistan Peoples Party, the region around Bahawalpur is known for its support of the Pakistan Muslim League.

CUVAS



Cholistan University of veterinary and animal sciences, Bahawalpur (CUVAS) is an HEC recognized institution, started its academic activities in 2015. Since then, the University has made rapid progress in terms of expansion of its academic programs, students' enrollment, physical infrastructure, campus network and hiring of highly qualified and experienced academic and administrative staff. As a matter of fact, CUVAS is one of the fastest growing academic institution of Pakistan. The main campus of the University is located Near DHA, Bahawalpur. The campus include Academic Block I, Academic Block II, Veterinary Teaching Hospital (VTH), Library and Sports complex. After successful possession of the 200 acres of allotted land at Bahawalpur, the construction work of University buildings including Academic Block, Administration Block, Girls and Boys hostels, Faculty and Staff residences etc. has been completed. For carrying out veterinary research activities the University has established cattle farms at the main campus. Over the years, the University has introduced several new degree programs to provide multidisciplinary education to students. Besides Bachelors level degree programs in Veterinary, Biosciences, Computer Science and Business administration, the University also offers short courses. The University has also started BS in Human Nutrition and Dietetics, BS in Poultry Science, BS in Bioinformatics. The University has strengthened its teaching resources by hiring new qualified faculty through regular and IPFP appointments through a transparent and rigorous process of recruitment. The administrative offices have also possess qualified and experienced staff members to provide necessary support to the University for carrying out its functions. The Office of Research Innovation and Commercialization (ORIC) is working for capacity building to enhance research activities.



Students Enrollment
1600



Degree Programs
25



Faculty Strength
97



Research Projects
12



MoUs/ Agreements



Conferences/ Workshops
50+



Faculty Development



Competitive Grants



Skill Development

NAVTC, Short Courses



Scholarships/ Stipends

HEC
EHSAS
IHSAN Trust
Need based
PEEF



Research Publications
14000+



UI Green Metric Ranking
QS Ranking #

VISION & MISSION

> Vision

Our vision is to be endeavor and employee all the efforts to rise all standard of education in CUVAS to the international level. So that this university may find a place in the world class institutions of high earning.



> Mission

Quality Enhancement Cell (QEC) of CUVAS is committed to enhance the quality of education in each and every Institute/ Department /center in the fulfilment of requirement. And satisfaction of its students, their potential employees and Stake holders by introducing market need-based programs and Other initiatives.

Goals

01

Construct the infrastructure that support professional development.

02

Establishing professional attitudes, critical thinking abilities and skills through global competitive programs and cutting-edge educational approaches.

03

Establishing a cooperative and supportive atmosphere for joint R&D, an entrepreneurial ecosystem and the competition, creativity and economic development that lead to social mobilization.

04

Fostering an environment where optional ties between the community, industry and university are developed in a creative, transparent and accountable manner.

05

Forming strategic alliances with respectable domestic and foreign Organizations in order to coordinate outreach, research and capacity building with regional and global paradigms.

06

Creating a vibrant, technologically sophisticated and globally competitive diverse rural economy to support the farming system and Agro-industry.

GREATER AGENDA



Focused



Professionalism



Accountability



Collaboration



Gender Equality



Result oriented



Service



Scholarships



Skills



**Zero tolerance
on Harrasment**



**Entrepreneurship
and Outreach**



**Excellence in
Learning**

Facilities

Library





Sports Complex



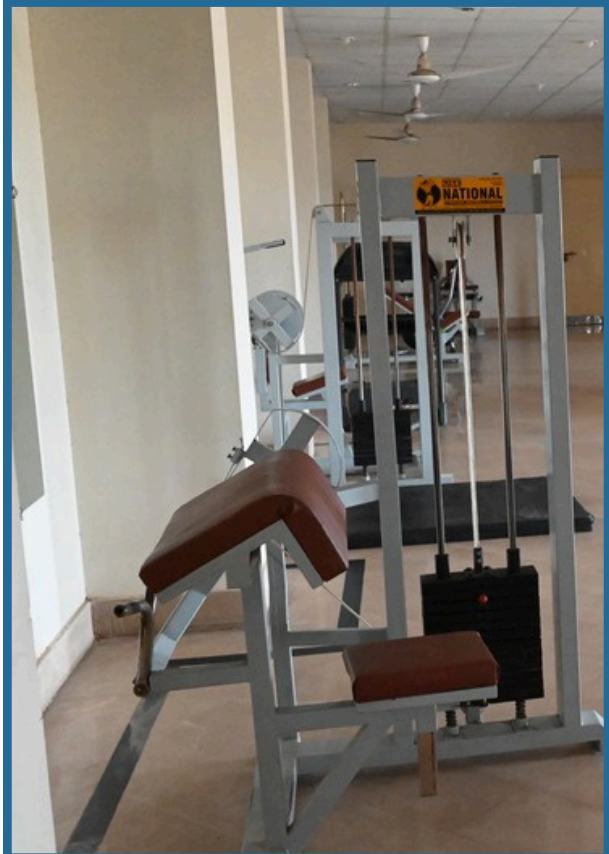


Sports Activities





CUVAS Gym





Transport



Girls Hostel



Hostels

Boys Hostel 1



Boys Hostel 2



Auditorium





Day Care Center





Food Processing Hall





CUVAS 1st Convocation





CUVAS 1st Convocation



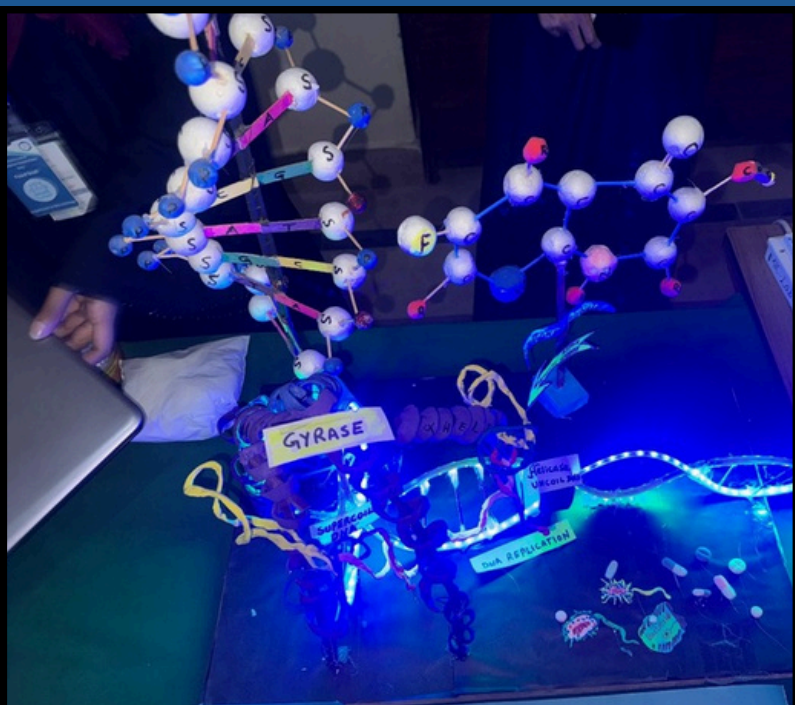


Antimicrobial Awareness Day





Models Presentation





CUVAS Masjid





Office of the Registrar

The Registrar is a Full time Officer of the University and is appointed by the Syndicate on the recommendation of 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 Statuary Bodies of the University. He is also the Principal Officer of the University to deal the matters with Government and other departments. He is responsible for all matters connected with the administration of the University to performs duties as may be prescribed / entrusted.

Staff details



Dr. Faisal Siddique
(Registrar)
✉ Registrar@cvas.edu.pk



Dr. Tanveer Akhtar
Additional Registrar



Dr Adnan A. Qazi
Additional Registrar



Mr. Attaullah Qamar
Assistant Registrar



MR. Muhammad Sheraz
Deputy Registrar



Mr. Muhammad Adnan Khan
Assistant Registrar

Directorate of Academics

Staff Details



Dr. Hamid Majeed
Director



Dr. Firasat Hussain
Deputy director



Ms. Humaira Amin
Assistant director

Office of the Treasurer

The Treasurer is a full time officer of the University and shall be appointed by the Chancellor on such terms and conditions as the Chancellor may determine. He shall 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 and Planning Committee and the Syndicate. Ensure the exact utilization of funds as proposed. Perform such other duties as may be prescribed.

Staff Details



Prof. Dr. Faiz-ul-Hassan
Dean FAPT
Treasurer



Dr. Afshan shafi
Additional Treasurer



Ms. Mehwish Shafa
Deputy Treasurer



Mr. Muhammad Adnan Butt
Deputy Treasurer

Office of the Research, Innovation and Commercialization (ORIC)

The Office of Research, Innovation, and Commercialization is playing a pivotal role in academic institutions by fostering a culture of research, promoting innovation, and facilitating the commercialization of intellectual property. This office also serves as a bridge between academia and industry, aiming to harness the intellectual potential within the institution and contribute to the economic and societal development of the region.

Staff details



Dr. Omer Naseer
Director ORIC



Dr. Muhammad Shahid
Additional Director



Dr. Afshan Shafi
Dupty Director



Dr. Muhammad Yar
Manager innovation and
(commercialization)



Imtiaz Hussain Raja
Manager Research Operation
(Development)



Dr. Amjad Islam Aqib
Manager Research Operation
(Management)

Office of the Controller of Examinations



Staff details



Dr. M. Khalid Mehmood
Controller of Examination



Mr. Muhammad Umer farooq
Deputy Controller of Examination
Computer Science & IT



Dr. Nasir Jalal
Additional Controller of Examination
Computer Science & IT



Mr. Fazal-Ur-Rehman
Assistant Controller

Vice Chancellor's Secretrait

The Vice-Chancellor is the Principal Executive and Academic Officer of the University as per provision of the University Ordinance and he shall ensure that the provisions of the Ordinance, the Statutes, the Regulations and the Rules are faithfully observed in order to promote the general efficiency and good order of the University and shall have all powers necessary for this purpose, including administrative control over all officers, teachers, students and employees of the University. To assist the Vice-Chancellor, there exists a Vice-Chancellor's Secretariat , headed by the Secretary to Vice-Chancellor. In order to carry out the responsibilities of the Secretariat, the Secretary to Vice-Chancellor is assisted by Personal Assistant (PA) and other ministerial staff.

Staff details



Dr. Kashif Prince
(Secretary to VC)



Mr. Muhammad Qaisar
(Assistant/ Protocol Officer)



Mr. Farhan ALi
(Junior Clerk)



Mr. Hafiz Muhammad Umair
(Photographer)

Directorate of Information and Technology

In the current era no one can deny the importance of Information Technology and its remarkable facilities. Same is true with the field of Veterinary sciences. Keep in view of the extreme importance of IT the University had established IT Center. Since last four years, with collaboration of HEC, CUVAS has spent huge amount to develop and expand the IT infrastructure for serving students as well as the Faculty of University. IT Center has mandated to establish Computer network in the university to provide LAN/WAN facilities and computerization of University's manual Examination, Admission, Payroll and Human resource management

systems, University's Web Site and the like. At the moment, the university has broadband Internet facility @250 Mbps bandwidth for its students, staff and faculty members for research and development in the field of veterinary & Animal sciences. Departments of University have been linked with Fiber Optic backbone. Video conferencing is now possible by virtue of the IT facilities. scholars from different parts of the world can deliver their lectures, discuss their research results and latest techniques with the students and faculty of the university which gives excellent learning environment. The eight Computer labs, having 20 computers each, in different departments, library and hostel are fully operational. These labs are equipped with latest branded computers to meet the needs of students and are providing Internet, Cd Writing & Scanning facilities.

IT Center manages the overall IT infrastructure of the university. This includes network designing, configuration, deployment, expansion & maintenance of IT facilities in all departments, training of manpower about emerging Internet and communication technology.

Staff details



Dr. M. Khalid Mehmood
Director Information and
Technology



Miss. Sanila Sahar
Database Administrator



Mr. Shahzad Iqbal
(Assistant)
Network Support

Directorate of Advance Studies and Research Board

The Directorate of Advanced Studies at Cholistan University of Veterinary and Animal Sciences is committed to promote postgraduate education and research in veterinary medicine, animal sciences, and other related fields. We adhere to the guidelines and standards set by the Higher Education Commission of Pakistan and other relevant councils.

Located within the administrative block, our office serves as a crucial resource for our postgraduate students. Our unwavering dedication is to provide them with the guidance and support necessary to excel in their degree programs, ensuring they are well-prepared for careers in research, higher education, academia, and beyond. Our University currently offers the following M.Phil. and Ph.D. programs, all accredited by the Higher Education Commission of Pakistan, with a strong focus on delivering quality education and research. At CUVAS, we are unwavering in our commitment to providing top-tier postgraduate education and research, fostering innovation in veterinary and animal sciences, and producing graduates who are well-prepared to make valuable contributions to their fields and society.

Staff details



Dr. Tariq Abbas
Associate Professor /HOD



Directorate of Sports

Involve students to live healthy life through sports activities.

Promote a planned approach for the provision of facilities and opportunities to participate in sports for the students of CUVAS.

Provide optimum-coaching facilities for the students (Male & Female) to encourage their participation in sports at different levels i.e. Club Competitions at Bahawalpur, Tehsil, District, Division level, Inter class, Inter Department Intervarsity events, Punjab level, National & International level.

Staff details



Prof. Dr. Muhammad Mazhar Ayaz
Sports President/Convener



Syed Asif Imran Raza
Director



Mr. Sajid Mehmood Awan
Secretary To Vice Chancellor
Performing duty of ADS



Muhammad Ramzan ur Rehman
Assistant Director Sports

Financial Aid Office

The financial aid office (FAO) of Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur was established in 2019 to provide financial assistance to the needy, deserving and talented students of CUVAS, BWP.

Recently, the education has become very expensive especially in Southern Punjab and most of the students are unable to afford educational expenses.

Taking into consideration of the increasing inflation day to day, it is a challenging situation for parents to educate their children. Therefore, financial aid office CUVAS, BWP is determined to provide their students financial assistance, solutions with variety of resources and guide them in attaining all kind of scholarships that will support to eliminate the financial barriers to achieve educational goal.

Staff details



Dr. Arslan Sehgal
(Director)



Mr. Muhammad Sajid

Focal Person/Secretary/Member



Dr. Humera Hayat

Member



Mr. Muhammad Adnan Butt

Member



Mr. Atta Ullah Qamar

Member

Department of Building and Works

The University administration in general and the Vice-Chancellor in particular remained determined and extended all possible help to the Project Directorate in the given means. At the same time it was the Vice-Chancellor who despite limited resources desired that facilities for students be upgraded first and given top priority. Accordingly, the Project Directorate was given the following major targets.

- a. Development of construction rules/delegation of powers for their adoption in CUVAS, Bahawalpur.
- b. Addressing immediate repair worthy areas not inclusive in PC-1.
- c. Carrying out repair/renovation works included in PC-1.
- d. Selection/appointment of consultants for new buildings.
- e. Enlistment/Pre qualification of contractors.
- f. Construction of new blocks.
- g. Development of estimates for various proposals to cater future needs of CUVAS

The project directorate, took up these assignment and made all possible efforts to meet the given targets and so far achieved following progress.

a. DEVELOPMENT OF CONSTRUCTION RULES.

b. In order to have comprehensive construction rules after having inputs from various similar organizations a Contract Agreement, Construction Rules, Delegation of Powers and procedures were drafted and placed in the meetings of the Campus Committee. The Campus Committee after detailed deliberations and incorporating some amendments recommended these documents for ratification of the Chancellor's Committee. The Chancellor Committee approved and ratified these documents for adoption.

Staff details



Mr. Muhammad Farooq Tabbasum
Sub-Engineer (Civil)



Mr. Waqas Akram
Project Director (B&W)/
Estate Care Officer



Mr. Sajjad Bhatti
Sub-Engineer (E&M)

Faculty of Veterinary Sciences

Prof. Dr. Muhammad Mazhar Ayaz
Dean



Dean Message

Faculty of Veterinary Science (FVS) is taking an active part by imparting education and training to students at DVM, M.Phil. and Ph.D. levels. FVS introduced 5 years DVM Degree programs. Those students belonged to various Punjab regions and other provinces. Major areas of Post Graduate studies in FVS are the Departments of Microbiology, Pathology, Parasitology, Clinical Medicine & Surgery, Animal Reproduction, and Preventive Medicine. Besides their activities on teaching, teachers of FVS are also actively involved in the diagnosis, treatment and prevention of infectious and non- infectious diseases in various kinds of animals and poultry. FVS members have worked hard for the development of courses and syllabus of five-year DVM degree, and the post graduate programs offered at CUVAS. In addition, a one-year Deficiency / Condense DVM program is also being offered to benefit the B.Sc., AH (Hons.) degree holders. The quality and scope of the faculty's training is such that our graduates are capable to enter postgraduate programs at universities across the world and can practice in many countries without the need to first write registration exams. The faculty is locally relevant and passionate about meeting the needs of South Asia. This not only applies to commercial farming but also to primary animal healthcare, where veterinarians as well as veterinary nurses can assist rural communities and smallholder farmers. Similarly, it is essential for the future of the veterinary profession in South Asia that black learners, particularly from rural areas, consider the two undergraduate programs in the Faculty of Veterinary Science.

Department of Parasitology

Introduction:

Department of Parasitology was established with the aim to generate and disseminate scientific knowledge relating to Parasitology. The department is striving to create awareness among the public about the risks and losses associated with parasites. The department is playing key role in this regard through education. Department has undergraduate and post graduate laboratories. In future, the department intends to establish advanced Parasitology laboratories in the field of

immunoparasitology and molecular Parasitology. The department is engaged in basic & applied research for better understanding of parasitic problems of various hosts and their control. Department is well equipped with under graduate Laboratory and post graduate Laboratory facilities imparting diagnostic services to livestock farmers, Bahawalpur Zoo, Field Level Diagnostic facility for protozoan, Helminthic infections and ecto-parasitic infestation.

Staff details



Prof Dr. M Mazhar Ayaz
Dean (Chairman)



Dr. Wasim Babar
Associate Professor



Dr. Jamal Muhammad Khan
Assistant Professor



Dr. Muhammad Adeel Hassan
Assistant Professor



Dr. Abdullah Saghir Ahmad
Assistant Professor

Department of Epidemiology and Public Health

Introduction

Knowledge and skills in epidemiology are important for biomedical professionals responsible for investigation, control and prevention of diseases in animal and human populations. Also the subject has relevance to those dealing with policies related to health events such as zoonoses , food safety and transboundary diseases. The department of Epidemiology and Public department is striving to cater current and future needs of trained manpower in this field. At present , the department offers undergraduate courses in various degree programs being run by the university.

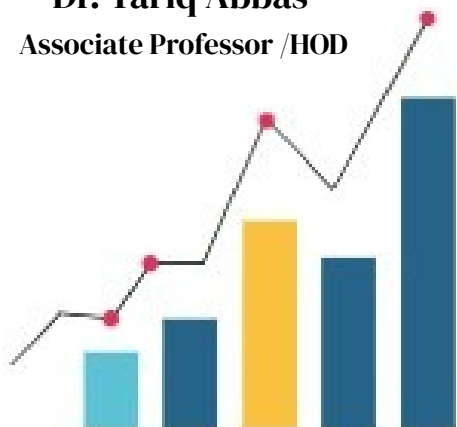
The department has one undergraduate and one postgraduate laboratory in addition to foreign qualified PhD faculty having international exposure. Scope of the department is broad and further increases due to its location in Bahawalpur region which is the focus of the government for creating disease free zones and thus making it as a hub for export of animals and animal products. In addition, Cholistan desert in Bahawalpur offers opportunities and challenges for learning and research in epidemiology which we considered as the strength of the department. The mission of the Department of Epidemiology & Public Health is teaching, research and support activities for control, prevention, and eradication of animal diseases having socio-economic and public health impact. The vision of the department is to develop human resources that can practice principles and methods of epidemiology to address animal /veterinary public health problems in local settings.

Staff details



Dr. Tariq Abbas

Associate Professor /HOD



Department of Medicine

Veterinary medicine is the branch that deals with the prevention, diagnosis and treatment of disease, disorder, and injury in animals. The scope of veterinary medicine is wide, covering all animal species, both domesticated and wild, with a wide range of conditions which can affect different species. We understand the potential challenges and problems of animal health and work with our clients and referring veterinarians towards successful outcomes. The CUVAS Medicine team has a broad range of expertise, areas of interest, and clinical experience.

The Medicine team works in conjunction with other specialists, including our species-specific groups in the other departments of CUVAS. Our team has active involvement in clinical services including disease diagnosis, treatment and comprehensive consultation for clients and referring veterinarians on animal health questions, concerns, or issues. Our clinical laboratories allow us to offer many assisted advance clinical techniques including enzyme linked immunosorbent assay, polymerase chain reaction, complete blood count and emergency critical care of the patient. The Medicine team is extremely active in clinical training and teaching of veterinarians and veterinary students with the most applicable and updated information. In parallel, it provides clinical and extension services to the farmers, animal breeders and commercial dairy and poultry industry as well. Last, but not the least, the department has a rich potential of conducting trainings and workshops for veterinarians, para vets, farmers, and different stakeholders of the industry.

Staff details



Dr. Omer Naseer
Assistant Professor



Dr Kashif Prince
Assistant Professor



Dr. Kashif Hussain
Assistant Professor



Dr. Amjad Islam Aqib
Assistant Professor



**Dr. Muhammad
Luqman Sohail**
Assistant Professor

Department of Microbiology



INTRODUCTION

Department of Microbiology was established in 2018 in the Faculty of Veterinary Science with the aim to generate and disseminate scientific knowledge relating to Microbiology. Microbes, minute living things such as bacteria, viruses and fungi are the most abundant species on our planet. Regardless of microscopic size, microbes affect the world of human beings in monumental ways, colonize humans, animals and sustain their physiology, ranging from infectious diseases to healthful livings and from food production to waste treatment. The solution to many of the pressing challenges at global level, such as antimicrobial resistance; the emergence of new infectious diseases and the health of our planet's ecosystem rely upon broadening the horizon of discoveries coming from basic Microbiology research and exploration.

Our research faculty are highly productive and impactful, consisting 06 Assistant Professors, housed at the department of Microbiology. All the faculty members are outstanding Microbiologists who are making exciting discoveries in the field of Microbiology while training students in cutting edge research. To meet their mission of skill development, research, education and translational opportunity, Microbiology department is offering undergraduate i-e B.S. Applied Microbiology program and also teaching of Microbiology courses to Doctor of Veterinary Medicine (D.V.M.), Medical Laboratory Technology (MLT), Food Science & Technology (FST) and Biochemistry students. The B.S. Applied Microbiology program covers all major areas of Microbiology such as Bacteriology, Virology, Mycology, Vaccinology, Immunology, Molecular Biology, Cell Culture, Biotechnology, Biosafety & Biosecurity, Medical Microbiology, Industrial Microbiology, Environmental Microbiology and Public Health. The department is well equipped with modern tools of Microbiology, Molecular Biology, Cell Culture and the Lab animal facilities.

VISION

- To produce highly qualified, competent and knowledgeable Microbiologists, skilled in all fields of Microbiology.
- To be the nation's leading public academic Department of Microbiology.
- To offer outstanding diagnostic services for the diagnosis of infectious diseases of animals & birds in the city of Bahawalpur and neighboring cities.
- To aim for the production of effective vaccine and antisera for control of microbial diseases of animals.

MISSION

- Establishment of Molecular Centre and diagnostic Laboratory for Bacterial, Fungal and Viral diseases of Camel, Domestic Animals and wild life.
- Control of microbes through (a) Development of effective vaccine and antisera (b) Biological control of zoonotic microorganisms and diseases (c) Understanding of Host-Microbial Interaction (d) Integrated strategies for control of microbial diseases under One Health umbrella (e) Effective control strategies against emerging microbes particularly viruses.
- Establishment of National Institute of Microbiology (NIM) and Training Center for Biologics Production (TCBP).

PLAN OF ACTION

- Control of microbial diseases with respect to one health and zoonosis
- Development of commercial diagnostic tests/Kit(s) for diagnosis of pathogenic bacteria, viruses etc.
- Yielding the highly skilled Microbiologists contributing nationally and internationally to bridge the gap between Academic researchers and public Institutes.
- Finding a way to expand laboratory instruction to keep pace with enrollment demand.

Staff details



Dr. Faisal Siddique (HOD)
Associate Professor



Dr. Muhammad Moazam Jalees
Assistant Professor



Dr. Rais Ahmed
Assistant Professor



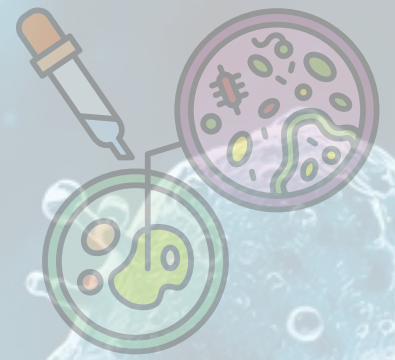
Dr. Firasat Hussain
Assistant Professor



Dr. Kashif Rahim Bangash
Assistant Professor



Dr. Waqas Ashraf
Assistant Professor



Department of Pathology

The Department of Pathology at Cholistan University of Veterinary and Animal Sciences is a major sub-discipline in the Faculty of Veterinary Sciences since 2018. This Department not only gives an in-depth knowledge to Doctor of Veterinary Medicine students at undergraduate level but also plays an important role in offering the undergraduate B.S. Medical Laboratory Technology (MLT) program. The newly emerging field of Medical Laboratory Technology will equip the human hospitals with skilled professionals specifically trained for diagnostic laboratories jobs

throughout the country. Pathology is the study of the process of disease, and it plays a major role in every aspect of health and medicine, therefore our expertise are wide and our roles are diverse. We can be found at the microscope consulting with clinicians about diagnostic changes and we see in tissues or cells of an ailing dog. In the field we dissect a dead animal, in order to find the cause of death and help the farmer protect the rest of the herd. We can be found in the laboratory, performing experiments to further understand the disease and develop preventions or cures. In classrooms we introduce veterinary students to the concepts of diseases, and facilitate their foundational understanding of mechanisms of disease. Our Department works with species of all varieties - fin, feather, and fur. We study a huge variety of diseases – infectious, environmental, toxic, and neoplastic etc.

Staff details



Dr. Mubasher Rauf
Chairman/Associate Professor



Dr. Hafiz Iftikhar Hussain
Assistant Professor



Rizwana Sultan
Assistant Professor



Dr. Mujahid Iqbal
(Assistant Professor)

Department of Surgery

Department of Surgery is actively working at CUVAS with highly motivated Veterinary Surgeons. It is branch of veterinary medicine that encompasses the surgical operations being performed on animals by competent Veterinary Surgeons. Veterinary Surgery fall into three broad categories; Orthopedics (bones, joints, muscles), Soft tissue surgery (skin, body cavities, cardiovascular system, gastrointestinal/urogenital/respiratory tracts), and Neurosurgery. Department of Surgery understands the future potential challenges and problems plaguing the field of veterinary surgery. A team of Veterinary surgeons at CUVAS has a broad range of expertise,

and clinical experiences. Our team has an active involvement in clinical service including comprehensive consultation for clients and referring veterinarians on veterinary surgery-related questions, concerns, or issues. Our faculty is extremely active in veterinary clinical surgery training and teaching of veterinarians and veterinary students with the most applicable and updated information. The department has been equipped with state-of-the-art diagnostic imaging equipment i.e. Digital X-ray and latest ultrasound facilities. Two fully working state of the art operation theaters have been engaged in training the students and operating the small animals. These operating rooms have been equipped with emergency equipment(s), Modern anesthesia machine(s), and oxygen units for continuous supply during operation or other related procedures. To improve the quality of education and practical skills of the students, the Department of Surgery is going to start two-degree Postgraduate programs including M.Phil. & Ph.D. in the near future

Staff details



Dr. Qudratullah
Chairman/Associate Professor



Dr Muhammad Shahid
Assistant Professor



Ameer Hamza Rabbani
Lecturer



Mr. Hafiz Muhammad Safwan
Lecturer (On leave)

Department of Theriogenology

Theriogenology is the branch of Animal Science concerned with reproduction, including the physiology and pathology of male and female reproductive systems of animals and the clinical practice of veterinary obstetrics, gynecology, and andrology. Theriogenologists are veterinarians with advanced training in animal reproduction and obstetrics. We understand the potential challenges and problems of reproduction and work with our clients and referring veterinarians towards successful outcomes. The CUVAS Theriogenology Team has a broad range of expertise, areas of interest,

And clinical experience. The Theriogenology Team works in conjunction with other specialists including our species-specific groups in the other departments of CUVAS. Our team has active involvement in clinical service including comprehensive consultation for clients and referring veterinarians on reproductive questions, concerns, or issues. Our reproductive laboratories allow us to offer many assisted reproductive technologies including semen cryopreservation, artificial insemination and embryo transfer. The Theriogenology Team is extremely active in clinical training and teaching of veterinarians and veterinary students with the most applicable and updated information. Our involvement in reproductive applied research linked to producer concerns allows us to provide accurate and useful material through outreach and extension programs.

Staff details



Dr. Qudrat Ullah
(Assistant Professor (Officer Incharge))



Dr. Fazal Wadood
(Assistant Professor)



Mr. Muhammad Saad
(Lecturer/ On leave)



Mr. Zaeem Sarwar
(Lecturer/ On leave)

Pet and Wild animal Hospital

Introduction:

The Pet and Wild Animal Hospital at Cholistan University of Veterinary and Animal Sciences (CUVAS) offers a range of educational, veterinary, and wellness services for small animals and exotic pets. We are involved in helping and rehabilitating the pets & people since 2018. The dedicated and self-motivated team of experienced veterinarians possesses advanced skills and training in aspect(s) from pet chiropractic healing to the care of exceptionally rare exotic pets. The hospital has been equipped with state-of-the-art sophisticated equipment(s) like diagnostic imaging equipment(s) including Modern Digital X-ray and Latest ultrasound facilities. Two fully working operation theaters are engaged in training the students and operating the small animals under the umbrella high intensity OT lights. These operating rooms have been equipped with emergency equipment(s), anesthesia machines and oxygen units for uninterrupted oxygen supply to ensure the life safety.

Vision

- ☒ To be the nation's leading state of the art public academic hospital for pets and wild animals
- ☒ To facilitate and educate the undergraduate students in veterinary discipline(s)
- ☒ To offer outstanding timely Surgical and Veterinary Medical services to small animals, avian, wildlife and rare exotic animals of the animal lovers especially to the citizens of Bahawalpur and neighboring cities.

Mission

- ☒ To offer the best possible care to pet and wild animals who require surgical services
- ☒ Serving our clients with best latest education and help in every aspects of animal care and ownership
- ☒ Public health awareness
- ☒ Strive to exceed our clients' expectations by treating owners and their pets with respect, honesty , compassion and ownership
- ☒ To provide services in a hygienic, clean, safe, and patient friendly environment
- ☒ To work as a team, complementing each other's talents and retaining a positive attitude
- ☒ Impart knowledge through the best educational experiences possible for our veterinary students, veterinarian and pet owners
- ☒ We offer the best quality services to the pets and their owners in a professional and compassionate environment.





Pet Show





Cultural and Extracurricular Activities



Veterinary Teaching Hospital (VTH)

Introduction

Catering the needs for education, research, disease diagnostics, and trainings in order to keep pace with innovations in the livestock, poultry, wildlife, and allied sectors are areas of focus for Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur. University also undertake extension activities in the allied disciplines to benefit the communities by advanced applied knowledge, expertise, and skilled human resource. On the other hands, university focusses on industry and trade to produce and export safe and healthy livestock products to international market. To achieve these goals, Veterinary Teaching Hospital (VTH) appears to be unavoidable element of CUVAS Bahawalpur. VTH complex is unique in its cadre comprising of Department of Medicine, Department of Surgery, Department of Theriogenology, Department of Pets and Wildlife, and Central Diagnostic Lab (CDL). Clinical and extension services to the farmers, animal breeders, commercial dairy and poultry industry are collective key roles of VTH. The VTH team is extremely active in clinical training and teaching of veterinarians and veterinary students with the most applicable and updated information. Services comprising of radiography, ultrasonography, hematological analysis, automatic infusion, blood transfusion, grooming of animals, and outbreak management are helping communities around on actual grounds. Pets and Wildlife clinical health services are especial feature of this complex.

Vision:

- ☒ Training of veterinary graduates at international standards
- ☒ Collaborative research and application of research output to improve clinical practices in field
- ☒ Sustainability of linkages among academic, industry, and livestock department to train veterinary students and field fractioners on actual demands and needs of the country
- ☒ 24/7 clinical services available for best health of animals

Mission:

- ☒ Establishment of cutting-edge diagnostic facilities for infectious diseases and non-infectious diseases
- ☒ Development of centralized databased system for the assessment of day to day health issue
- ☒ Formulation of collaborative research Centre based on regional animal health issues
- ☒ Establishment of outreach center for clinical services for far away areas.

Action plan:

- ☒ Centralized data-based recording of clinical cases
- ☒ Diagnostic facilities at affordable rates for the farmers





Laboratory (UDL)

INTRODUCTION

The Central Diagnostic Lab (CDL) of the Cholistan University of Veterinary & Animal Sciences, Bahawalpur is located inside Veterinary Teaching Hospital (VTH) complex. It is a platform in providing rapid diagnosis of animal diseases, identifying emerging diseases, developing new diagnostic methods and training diagnosticians, and veterinarians. CDL working is managed by Department of Microbiology under the supervision of Dean, Faculty of Veterinary Science. CDL serves the interests of the livestock and poultry industry, animal research scientists, educators, and companion animal owners. The lab is seeking its accreditation from Pakistan National Accreditation Council (PNAC) and ISO 17025 and will be establishing its "Diagnostic Information Management System (DIMS)" to ensure the good lab practices (GLP) and confidentiality of the client results. CDL provides quality diagnostic services for all animal species, including necropsy of birds, bacteriology, clinical chemistry, serology, virology, parasitology, molecular diagnostics, and toxicology.

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STAFF POSITION

Director

- Prof. Dr. Muhammad Mazhar Ayaz , Dean Faculty of Veterinary Science, CUVAS Bahawalpur

Deputy Director

- Dr. Mushtaq Ahmad Department of ICE&E, CUVAS Bahawalpur

Assistant Director

- Dr. Khurram Shahzad , Department of physiology & Biochemistry
- Dr. M Tahir Khan Assistant Director , Department of Poultry Sciences
- Rao Basharat Ali Assistant Director , Department of social and Allied Sciences

Faculty of Animal Production and Technology

Prof. Dr. Faiz-ul-Hassan Dean



Message from Dean

The Faculty of Animal Production & Technology with its' six Departments i.e. Livestock Production, Poultry Production, Animal Nutrition, breeding and genetics, Meat Science and Technology, genomics and bioinformatics 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 unique 4 years duration professional degree programs, namely, B.S. (Hons.) Poultry Science and B.S. (Hons.) are being successfully conducted at the Faculty with graduating four session. Many short training courses & diploma courses are also offered for the farmers and stake holders in the field of livestock, poultry production and animal products 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. 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.

Department of Animal Nutrition

Department of animal nutrition was established in the Faculty of Animal Production and Technology, Cholistan University of Veterinary and Animal Sciences, Bahawalpur which is focused on providing the qualified and trained manpower to address the nutritional issues of southern Punjab especially the Cholistan desert. The vision of the department is to assure the food security for

human being and sustainable livestock productivity through animal nutrition and feed technologies. The animal nutrition department mainly focuses on teaching and research in the arena of animal feed science and technology. The mission of the animal nutrition department is to play key role in food security and to improve the socio-economic status of livestock farmers. To achieve its mission, research activities of animal nutrition focus on improvement of the nutritive value of low quality feedstuffs through chemical and biological treatments; nutritional evaluation of local forages, crop residues and low grade industrial by-products; efficient and economical ration formulations for poultry and ruminant livestock.; detoxification of naturally occurring toxins to improve the feeding value of indigenous feeds; and recycling of animal wastes in the diets of small and large ruminants. This department has priority to conduct problem oriented research in the field of Animal Nutrition. The graduates from this institute are expected to employ in feed mill at higher and middle management positions, feed analysis laboratories, teaching, research, planning and development, both in private and public sectors. The Department is facilitated with undergraduate and post graduate laboratory. The department of animal nutrition emphasizes the quality education and practical skills of the students.

Staff details



Dr. Rana Muhammad Bilal
(HOD)/ Associate Professor



Dr. Asif Javaid
(Associate Professor)



Dr. Imtiaz Hussain Raja
(Assistant Professor)



Dr. Muhammad Uzair Akhtar
(Assistant Professor)

Department of Breeding and Genetics

The Department of Breeding and Genetics is an active component of Faculty of Animal Production and Technology. The disciplines like genetics, biometry, mathematics and statistics constitute the discipline of Animal Breeding and Genetics. With the application of knowledge of quantitative genetics and molecular genetics, a breeder aims to improve performance of next generations based on available pedigree and performance

records. The mission of Department of Breeding and Genetics is to enhance production potential of farm animals and increase per unit productivity in terms of milk, meat, mutton and other products through appropriate breeding plans and application of quantitative and molecular genetic technologies and strengthen Human Food Chain for building a healthy nation.

The working of Department of Breeding and Genetics is based on two objectives that is

To impart education at undergraduate, M.Phil and PhD level in Discipline of Animal Breeding and Genetics

To conduct research both of basic and applied nature in the Discipline of Animal Breeding & Genetics

The department is equipped with laboratory facilities for illustration of genome of different species of livestock and other animals, DNA isolation, purification and quantification, PCR for gene expression, quality checking and quantification and microscopic studies on the animal and plant cell undergoing mitosis and meiosis Besides this department has the capability for teaching and research in field of population and quantitative genetics, calculating gene and genotypic frequencies based on available data, estimation of genetic parameters like heritability, repeatability and genetic correlations, measurement of inbreeding and relationship co-efficient, ranking of animals based on EBVs and use of computer softwares specially designed for discipline of Animal Breeding and Genetics.

Staff details



Dr. Faiz-Ul Hassan
Chairman/ Professor



Dr. Muhammad Safdar
(Lecturer)



Dr. Muhammad Arslan Akbar
(Lecturer)

Department of Genomics and Bioinformatics

In the 21st century, Bioinformatics has emerged as a critical science that converts biological data into meaningful genetic and biological knowledge. Cholistan University of Veterinary and Animal Sciences, Bahawalpur is among the selected institutions offering specialized degrees in this

discipline, providing an integrated education that blends life sciences with statistics, mathematics, and computer science. Our mission is to create a vibrant and cooperative educational setting that prepares students to become leaders in Bioinformatics. We emphasize the development of advanced computational methods and biotechnological innovations through superior education and pioneering research. Our focus is on making significant discoveries and creating technologies for commercial success, thus solving real-world issues and enhancing public well-being. We prepare our students for successful careers through intensive curriculum, engagement in groundbreaking research, and collaborative partnerships.

Staff details



Dr. Arslan Sehgal
Assistant Professor



Dr. Muhammad Azhar
Assistant Professor



Ms. Humaira Amin
Lecturer

Department of Livestock Management

Livestock is playing a significant role in agriculture and holds a distinct position in the National Agenda of Pakistan. In the Cholistan region, Livestock stands as a significant portion of Punjab province's animal population, serving as the primary source of livelihood for local communities. In 2018, recognizing its importance,

the Department of Livestock Management was established within the Faculty of Animal Production and Technology at Cholistan University of Veterinary and Animal Sciences (CUVAS), located in Bahawalpur, Southern Punjab. CUVAS stands out as one of the rapidly developing government universities in Pakistan. This department is dedicated to nurturing qualified and skilled professionals to tackle the challenges faced by semi-commercial and commercial livestock farming. Additionally, it undertakes problem-oriented research aimed at benefiting the industry. By implementing effective strategies, such as enhancing animal productivity and addressing constraints within the dairy and meat sectors, the department aims to drive positive change. Faculty members are actively engaged in research endeavors, regularly contributing to conferences and peer-reviewed journals, thereby enriching the academic and practical landscape of livestock management in the region.

Staff details



Dr Umair Younas
(HOD)/Assistant Professor



Dr. Zeeshan Muhammad Iqbal
(Assistant Professor)



Muhammad Nauman
(Lecturer)



Rameez Abid
(Lecturer)

Department of Poultry Science

Ever growing Pakistan Poultry Industry needs skilled human resource. To cater this need, Department of Poultry Science was established in 2018 in the Faculty of Animal Production and Technology, CUVAS, Bahawalpur, which is focused on providing the qualified and trained

manpower to smoothly address the issues at commercial farming level as well as initiating the problem-oriented research work to benefit the industry that can be devised through implementing effective strategies for enhancing poultry production and minimizing the constraints in poultry sector. The Department is facilitated with one undergraduate and two post graduate laboratories. Furthermore, the Department of Poultry Science is constructing an Environment Control House (ECH) with capacity of more than ten thousand broilers and a hatchery with egg setting capacity of two thousand. The Department of Poultry Science is successfully running a B.S. (Hons.) Poultry Science bachelor's degree program and is also going to initiate M.Phil. Poultry Science postgraduate program to produce professionals of international standards. The students of B.S. (Hons.) and M.Phil. Poultry Science will serve the Pakistan Poultry Industry in better way.

Staff details



Muhammad Arslan
Officer Incharge/ Lecturer



Dr. Muhammad Saeed
(Assistant Professor/On leave)



Mr. Muhammad Azhar
(Lecturer)



Dr. Muhammad Tahir Khan
(Lecturer)



Ms. Tahreem Asad
(Lecturer)

Department of Rangeland, Forestry and Wildlife

In the heart of Cholistan lies an academic beacon dedicated for sustainable management and preservation of region's precious resources- The Department of Rangeland Forestry and Wildlife at Cholistan University of Veterinary and Animal Sciences (CUVAS)

in Pakistan represent the largest land cover spreading on more than 60% of total land area. About 97 million heads of livestock are dependent upon grazing vegetation contributing almost 11.5% of the national GDP. Thus, this critical link between rangeland management and sustainability of livestock productivity underscores the need for comprehensive education and research.

Staff Details

Dr. Akash Jamil
(Lecturer)



Faculty of Biosciences



Prof. Dr. Abdul Ghaffar
Dean Faculty of Bio-Sciences

Message from Dean

Welcome to Faculty of Bio-sciences. We love to explore innovative approaches and working in collaboration with national and international institutes. The Faculty of Biological Sciences comprises of seven departments anatomy and histology, Physiology and biochemistry, Pharmacology and toxicology, Food science, Zoology, Social and Allied sciences and department of computer science. All these departments offer graduate programs leading to BS, MSc, MS/MPhil, and PhD degrees.

The faculty is rich and well-resourced in terms of students, academic staff, and research facilities. Teaching is complimented with the high-quality research, making full use of the recently installed high-tech equipment worth millions of rupees. The Faculty of Biological Sciences, with the hard work of its faculty and students, has been producing competent and well qualified graduates. In a short span of time, it has grown and developed into an educational center with emphasis on excellence, innovation and high-quality education with no compromise on discipline. The Faculty of Biological Sciences would surely continue its progress with the same zeal. It would not only continue to produce highly trained human resource to meet the socio-economic and developmental needs of our society but would also produce research work of international standards.

Department of Anatomy and Histology

In a context of constantly changing diagnosis and treatment modalities, Anatomy remains the scaffolding on which all medical sciences are built. Anatomy is the basis of medical science, therefore, the subject is taught in the first and second semester of DVM, B.S. MLT, B.S. Poultry, and several other undergraduate / postgraduate programs. Anatomy is

the science of the macro and the microstructure of the body, therefore, without a solid knowledge of anatomical abilities, students' knowledge will be imperfect. That is why the teaching of anatomy with advanced technologies focuses in this department. The major courses offered by the department include; General Veterinary Anatomy, General Veterinary Histology or Microscopic Anatomy, Systemic Veterinary Histology & Embryology or Developmental Anatomy, and comparative Anatomy. Teaching anatomy by way of lectures/videos and practical training by dissection and histological study will help in development of medical/clinical skills of students. The Department hosts two undergraduate labs equipped with audio-visual facility, two post graduate labs, one dissection hall, and one loose bone & skeleton preparation room.

Staff Details



Dr. Haseeb Khaliq

Assistant Professor/(Officer Incharge)



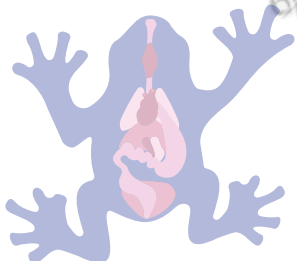
Muhammad Usman

Lecturer



Dr. Muhammad Sajid

Lecturer



Department of Physiology and Biochemistry

The Department of Physiology & Biochemistry aimed to provide a stimulating and diverse research and training environment of international standards in which important and exciting areas of modern Biochemistry and Physiology can be investigated encompassing both in structural and functional approaches. The Department is currently at the juvenile stage with the faculty members of highest academic degrees and excellent research backgrounds.

The Department pursuing the research aims through up-to-date equipment's and state-of-the-art technologies, the recruitment of high-caliber staff, maintenance of industrial contacts, and the fostering of close links and collaborations with international scientific community. The Department's research is grouped under the headings of several broad programs including Animal Physiology, Veterinary Sciences, Endocrinology, Reproductive Physiology, Neuroscience, Clinical Physiology & Biochemistry, Enzymology, Nutritional and Metabolic Biochemistry, Plant Biochemistry, Molecular Biology, Cell Biology, Photo-medicine, Photo-biochemistry, and Biomedical materials. In near future, Department is going to collaborate with international research groups to share knowledge, students exchange and scientific endeavors. Cell culture lab is under the process of designing with the collaboration of Department of Pharmacology and Toxicology, CUVAS. Excellent research facilities and a research-oriented faculty allow our Department to offer broad spectrum programs of graduate and postgraduate study where students can acquire a thorough and diverse background in Physiology & Biochemistry. Our curriculum has been designed according to the guidelines of HEC. We expect to produce the finest quality Physiologist and Biochemists from our Department to play important role in nation building. The B.S. (Hons.) Biochemistry, M. Phil / Ph. D. Physiology and M. Phil / Ph. D. Biochemistry programs are being introduced by the upcoming academic session.

Staff details



Yar M Khan
Assistant Professor
/(Officer Incharge)



Dr. Muhammad Farrukh Nisar
Assistant Professor



Dr. Muhammad Rafiq
Assistant Professor/



Dr. Yasir Waqas
Assistant Professor



Dr. Jawaria Aslam
Assistant Professor



Dr. Yasmin
(Lecturer)

Department of Pharmacology and Toxicology

Department of Pharmacology and Toxicology was established in 2018 with the aim to generate and disseminate scientific knowledge and preparing students to fill the gap by qualified manpower in the field of veterinary and biological sciences. The expansion of the Department and graduate programs in the areas of modern pharmacology including Neuropharmacology, Ethnopharmacology, Molecular Pharmacology, Toxicology and Biochemical Pharmacology is expected to place the Department

among high research ranking at the University. The major academic aims of the Department are to facilitate Basic and Applied Research, educate under graduate, postgraduate and professional students in various disciplines and provide academic excellence. Department of Pharmacology and Toxicology will produce a large number of M. Phil and PhD graduates in the near future. The Department is composed of highly competent primary faculty, research faculty, graduate students and technical support staff. MPhil/PhD training in Pharmacology will provide prospective postgraduates with the requisite expertise in the discipline and the core concepts and techniques required for basic and clinical research. Most notably, it facilitates the development of independent investigators.

The program provides students with a solid foundation through coursework, research, and opportunities to develop communication and presentation skills. To improve the quality of education and practical skills of the students, the Department of Pharmacology and Toxicology is going to start Post graduate programs.

Staff details



Dr. Shaukat Hussain Munawar
Assistant Professor/ (Officer Incharge)



Dr. Zahid Manzoor
Assistant Professor



Dr. Kamal Niaz
Assistant Professor



Mr. Muhammad Mazhar Munir
Lecturer

Department of Food Sciences

The Department of Food Sciences was established in 2018 at Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur. Keeping in view the current scenario of the world and our own country for food safety and food security, the department aims to produce well trained human resource for the emerging needs of the food industry. The major focus of the department is utilization of basic principles of food science and technology for processing and

preservation of food commodities to meet the challenges of massive population and fastest growing food industry in the country. South Punjab is the hub for agricultural produce and many food industries are also being installed here to enhance the quality of food products and there is a great demand of food technology graduates to cope the needs of the area in terms of industry and academia. The present faculty is practically involved in the capacity building of the students through effective teaching and training programs. Malnutrition and unavailability of safe food are the major issues of the South Punjab community. These issues have been taken up as challenge by the department and it started taking initiatives to cater the society through public awareness and developing new food products. In this perspective, the department is aiming to provide all possible facilities in collaboration with different food industries and other neighboring institutes to train the graduates with skills and futuristic vision. The major areas of research are mentioned below:

Food Technology

Food Microbiology and Biotechnology

Food Safety and Quality Assurance

Development of new innovative food products using indigenous sources

Role of Fruits and vegetables bioactive moieties on human health

Staff details



Dr. Kashif Akram
Associate Professor (HOD)



Dr. Hamid Majeed
Assistant Professor



Dr. Sheraz Ahmed
Assistant Professor



Dr. Tahir Mahmood Qureshi
Assistant Professor



Dr. Afshan Shafi
Assistant Professor

Staff details



Dr. Tanveer Akhtar
(Lecturer/ Officer Incharge)



Dr. Humera Hayat
Lecturer



Miss Aisha Kabir
Lecturer



Dr. Samina Anjum
Lecturer in Islamic Studies



Mr. Zaib Hassan Niazi
Lecturer



Dr. Inam Ullah Wattoo
Assistant Professor



Mr. Muhammad Kamal
Lecturer



Mr. Rao Basharat Ali
Lecturer



Dr. Abdul Khaliq
Assistant Professor



Dr. Khawaja Saif Ur Rehman
Lecturer

Department of Computer Science

The Computer Science Department of CUVAS aspires to provide a comprehensive computational education environment that inspires curiosity, creativity, and innovation for the enhancement of society in a positive and meaningful way. The Department of Computer Science at CUVAS offers a rigorous undergraduate education. Our goal is to deliver CS education that is at par or better than the world's finest educational institutions.

Our program not only prepares our students for careers in leading companies but also in carrying our world-class research Department of CS & IT strives to produce competent professionals who have sound knowledge in the field of computing and information technology. The Department is to produce graduates having enhanced creative thinking, problem solving skills, and ability for lifelong learning in their professional careers and to develop research programs to address the evolving needs of industry, academia and society. The graduates of the Department of Computer Science & IT shall play a productive role, both in the practical and research areas of computing. The faculty uses modern technologies to enhance the learning capabilities of students and to provide them with a stimulating and challenging environment. Emphasis is placed on the practical applications of computer systems to the software and hardware needs of the global industry in general and the Pakistani industry in particular.

Staff details



Dr. Waheed Yousuf Ramay
Assistant Professor



Dr. Muhammad Zulqarnain
Assistant Professor



Dr. Asim Masood
Assistant Professor



Atif Noor
Lecturer



Dr. Nasir Jalal
Lecturer



Muhammad Umer Farooq
Lecturer



Mutyyba Asghar
Lecturer

Cholistan Institute of Business Administration (CIBA)

Welcome to the new frontier of education at our esteemed university – Cholistan Institute of Business Administration (CIBA). We are on a journey of academic excellence and professional growth. Formerly a department established in 2020, it has now evolved into a distinguished institute boasting a cadre of highly qualified PhD faculty members who bring a wealth of global perspectives and cutting-edge research to our programs. Housed within a state-of-the-art building, equipped with modern amenities, including a comprehensive library and advanced computer labs, we offer an environment conducive to both intellectual inquiry and practical learning. Our degree programs are meticulously crafted to provide students with a strong foundation in technical knowledge, empowering them to customize their education to align with their unique career aspirations. At the heart of our teaching philosophy lies a commitment to bridging the gap between theory and practice. We believe in imparting education that extends beyond the confines of the classroom, incorporating real-world exposure, case study methods, and immersive industrial visits. With a focus on innovation, collaboration, and excellence, Cholistan Institute of Business Administration stands as a beacon of opportunity for aspiring students, providing them with the tools, knowledge, and experiences they need to thrive in today's competitive global marketplace. Join us as we embark on a transformative journey of learning, growth, and achievement.

Staff details



Dr. Mazhar Abbas
**Professor/Chairman/
(On leave)**



Dr. Saleh Nawaz Khan
(Officer Incharge)



Dr. Muhammad Naeem Shahid
Lecturer

Cholistan Institute of Biological Sciences (CIBS)

The Cholistan Institute of Biological Sciences (CIBS) is an educational and research institute dedicated to advancing knowledge and understanding in the field of biology. Originally established as the Department of Zoology in 2018, it has been providing quality education and cutting-edge research opportunities in various areas of Zoology Like Wild life, Ecology and Fisheries. Since its establishment, hundreds of students have graduated from the department and are now serving in numerous national and international organizations. Several graduates have won international scholarships and are currently enrolled in renowned universities and research institutes worldwide.

Staff details



Dr. Abdul Ghaffar
(Professor)



Dr. Qaswar Ali Shah
(Director)



Dr. Adnan A. Qazi
Assistant Professor



Dr. Santosh Kumar
Assistant Professor



Dr. Zahid Farooq
Assistant Professor



Dr. Tariq Mahmood
Assistant Professor



Dr. Irfan Baboo
Assistant Professor



Dr. Huma Naz
Assistant Professor



Ms. Tayyaba Riaz
Lecturer

Institute Of Continuing Education & Extension (ICE&E)

The Institute of Continuing Education and Extension (ICE&E) has been established in Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur with the main objective to uplift the rural farming community to control poverty and unemployment in rural youth thereby contributing to the national economic development. To achieve these goals, the institute is offering various training programs for education enhancement of livestock farmers for their livestock, camel, poultry, dairy, fisheries, wildlife, equine, etc. The subject specialists of this institute are providing emergency extension service to livestock farmers at their doorsteps for extension education and provide skills through hands on training. The institute is training the livestock and poultry farmers, veterinary and para-veterinary staff in various disciplines of livestock production and management so that massive employment and business activities could be generated in the south part of the Punjab and throughout the country Pakistan. The role of livestock in the economy of the country has now been well established and both the provincial and federal governments attach high priority to the development of livestock and poultry sectors as being the engine for socio-economic development of the rural people, food security and thereby alleviation of poverty and malnutrition. The programs of this institute are improving the service delivery of para-vets and create better opportunities of employments/ self-employment and promotion in public and private sectors. The institute comprises the requisite infrastructure, a conducive learning environment and qualified experienced faculty.

Staff details



Dr. Mushtaq Ahmad Gondal
Director ICE&E



Dr. Muhammad Kashif Iqbal
Assistant Professor



Muhammad Kaleem
Lecturer



MR. ABDUL WAHEED
Lecturer (On Leave)



Dr. Muhammad Arif Rizwan
Lecturer/ (On leave)

Directorate of Quality Enhancement Cell (QEC)

The Quality Enhancement Cell (QEC) is established in CUVAS under the umbrella of Quality Assurance Agency (QAA) of Higher Education Commission (HEC-Islamabad) with a prime objective to enhance, maintain and monitor quality of higher education by enforcing the good practices in higher education and effective quality management system.

Staff details



Dr. Rana Muhammad Bilal
Director



Dr. Irfan Baboo
Deputy Director



Mr. Sannan Nazir
Assistant Director



Dr. Muhammad Sajid
Assistant Director



Ms. Sanila Sahar
Data Analyst

Directorate of Career Counselling Center

Introduction

The directorate of Career Counselling and Alumni Affairs (CC&AA) envisions bringing that to the life of the graduates to ensure the connection, belongingness, and linkage between alumnus and the campus. The office serves the purpose of everlasting connection and a bridge between the Alumni and Alma mater. Alumni are encouraged to keep in touch with the campus activities and share their success stories with the students. These objectives are achieved through career seminars, workshops, job fairs, alumni dinners, Alumni tours, alumni sports events, and workshops.

Staff details



Dr. Zahid Farooq
Director



Dr. Firasat Hussain
Deputy Director



Dr. Huma Naz
Deputy Director



Mr. Muhammad Nauman
Assistant Director

Directorate of Student's Affairs

Introduction:

The Director Student's Affairs is a senior position within the university and comprises of a Director and two Associate Directors (one for boys and one for girls). This office is a liaison between the University authorities and the 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 conducive environment is the prime responsibility of this directorate within and outside the class rooms. At large, this office is committed in maintaining discipline on the campus and to assist the students towards their successful completion of degrees. The Directorate carries overall responsibility for a wide range of services and functions supporting the educational, social, and welfare needs of students.

Staff details



Dr. Syed Qaswar Ali Shah
Director
(Student Affairs)



Dr. Rais Ahmad
Deputy Director



Dr. Rizwana Sultan
Deputy Director



Mr. Zaib Hassan Niazi
Assistant Director



Mr. Sannan Naizir
Assistant Director



Ms. Aisha Kabir
Assistant Director

Doctor of Veterinary Medicine Degree
Faculty of Veterinary Science
Cholistan University of Veterinary and Animal Sciences, Bahawalpur
Scheme of Study

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ANAT-301	Veterinary Anatomy-I	3(1-2)	Foundation
ANAT-303	General Veterinary Histology	2(1-1)	Foundation
PHYS-301	Veterinary Physiology-I	3(2-1)	Foundation
BIOC-303	Biochemistry	4(3-1)	General
MATH-303	Mathematics	2(2-0)	Compulsory
ENG-303	English-I (Functional English)	2(2-0)	Compulsory
	Total	16(11-5)	
SEMESTER-2			
ANAT-304	Veterinary Anatomy-II	3(1-2)	Foundation
ANAT-306	Systemic Veterinary Histology and Embryology	3(2-1)	Foundation
PHYS-304	Veterinary Physiology-II	4(3-1)	Foundation
MICR-302	General Veterinary Microbiology	3(2-1)	Foundation
PSCI-304	Introduction to Poultry Production	1(1-0)	Foundation
LSMG-304	Fundamentals of Livestock Production	2(1-1)	Foundation
ENG-304	English-II (Communication Skills)	2(2-0)	Compulsory
PST-302	Pakistan Studies	1(1-0)	Compulsory
UNQ-300	Understanding Namaz and Quran	3(3-0)	Compulsory/ Non credit
	Total	19(13-6)	
SEMESTER-3			
PHRM-401	General and Systemic Pharmacology	4(3-1)	Foundation
PATH-401	General Veterinary Pathology	3(2-1)	Foundation
PARA-401	General Veterinary Parasitology and Protozoology	3(2-1)	Foundation/ Major
MICR-401	Veterinary Immunology	2(1-1)	Foundation
MICR-403	Molecular Biology	2(1-1)	General
NUTR-405	Principles of Animal Nutrition	3(2-1)	Foundation
ZOOL-411	Lab and Zoo Animal Management	1(0-1)	General
ANTH-401	Anthropology	1(1-0)	Compulsory
	Total	19(12-7)	
SEMESTER-4			
PHRM-402	Veterinary Chemotherapy and Toxicology	4(3-1)	Major

Course No.	Course Title	Credit Hours	Course Type
MICR-402	Veterinary Bacteriology and Mycology	3(2-1)	Major
PATH-402	Systemic Veterinary Pathology	3(2-1)	Major
PARA-402	Veterinary Helminthology	4(3-1)	Major
CEDU-402	Livestock Extension Education	2(2-0)	Compulsory
ANBG-406	Animal Breeding and Genetics-I	2(1-1)	Foundation
NUTR-408	Livestock Feed Resources and Forage Conservation	3(2-1)	Major
	Total	21(15-6)	
SEMESTER-5			
PATH-501	Veterinary Clinical Pathology	1(0-1)	Major
PARA-501	Veterinary Entomology and Acarology	3(2-1)	Major
MICR-501	Veterinary Virology	3(2-1)	Major
THER-501	Veterinary Reproductive Physiology	3(2-1)	Major
MEDI-501	General and Systemic Veterinary Medicine	3(2-1)	Foundation/ Major
NUTR-503	Poultry Nutrition and Feed Technology	2(1-1)	Major
ANBG-505	Animal Breeding and Genetics-II	3(2-1)	Major
ISL-501/ ETHC-501	Islamic Studies/Ethics	1(1-0)	Compulsory
	Total	19(11-7)	
SEMESTER-6			
THER-502	Obstetrics and Genital Diseases	3(2-1)	Major
MEDI-502	Veterinary Preventive Medicine-I	3(3-0)	Major
PATH-502	Meat Inspection and Necropsy Practice	3(2-1)	Major
EPPH-502	Zoonoses and Food Safety	3(2-1)	Major
SURG-502	Diagnostic Imaging	2(1-1)	Major
MEDI-504	Medicine Clinic-I	1(0-1)	Major
SURG-504	Surgery Clinic-I	1(0-1)	Major
THER-504	Theriogenology Clinic-I	1(0-1)	Major
LSMG-504	Principles of Dairy Production	3(2-1)	Major
	Total	20(12-8)	
SEMESTER-7			
MEDI-601	Veterinary Preventive Medicine-II	3(3-0)	Major
SURG-601	Anaesthesiology and Intensive Care	1(0-1)	Foundation

Course No.	Course Title	Credit Hours	Course Type
THER-601	Reproductive Biotechnology	2(2-0)	Foundation
MEDI-603	Medicine Clinic-II	1(0-1)	Major
SURG-603	Surgery Clinic-II	1(0-1)	Major
THER-603	Theriogenology Clinic-II	1(0-1)	Major
LSMG-603	Beef and Mutton Production	2(1-1)	Major
PSCI-613	Commercial Poultry Production	2(1-1)	Major
STAT-601	Biostatistics	3(2-1)	Compulsory
	Total	16(9-7)	
SEMESTER-8			
EPPH-602	Veterinary Epidemiology and Public Health	3(2-1)	Major
SURG-602	Small Animal Surgery	4(3-1)	Major
MEDI-602	Medicine Clinic-III	2(0-2)	Major
THER-602	Theriogenology Clinic-III	2(0-2)	Major
SURG-604	Surgery Clinic-III	2(0-2)	Major
PSCI-604	Breeder and Hatchery Management	3(2-1)	Major
ZOOL-620	Fisheries and Aquaculture	1(0-1)	General
ENG-612	English-III (Technical Report Writing and Presentation)	2(2-0)	Compulsory
	Total	19(9-10)	
SEMESTER-9			
PATH-611	Poultry Pathology	3(2-1)	Major
SURG-611	Large Animal Surgery and Shoeing	3(2-1)	Major
MEDI-611	Medicine Clinic-IV	2(0-2)	Major
THER-611	Theriogenology Clinic-IV	2(0-2)	Major
SURG-613	Surgery Clinic-IV	2(0-2)	Major
LSMG-611	Animal Welfare and Ethics	2(2-0)	Major
FSAT-611	Dairy Technology	2(1-1)	Major
BBA-635	Livestock Economics and Business Management	2(2-0)	General
	Total	18(9-9)	
SEMESTER-10			
INTR-612	Internship and Comprehensive Examination	5(0-5)*	Compulsory/ Non-credit
	Total Credits	167	

SCHEME OF STUDIES

BS APPLIED MICROBIOLOGY DEGREE PROGRAM

Faculty of Veterinary Sciences

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
BIOC-301	Principles of Biochemistry	3(2-1)	General Education-II
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-III
UHQ-301/ ETH-301	Understanding Holy Quran-I/Ethics-I	1(0-1)	General Education-IV
MICR-301	Fundamentals of Microbiology	3(2-1)	Major-I
MICR-303	Basic Immunology	3(2-1)	Major-II
MICR-305	Introduction to Mycology	2(1-1)	Major-III
TOTAL		18	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-V
ISL-302/CSR-302	Islamic Studies/Comparative Study of Religion	2(2-0)	General Education-VI
QRG-302	Quantitative Reasoning- II	3(3-0)	General Education-VII
UHQ-302/ ETH-302	Understanding Holy Quran-II/ Ethics-II	1(0-1)	General Education-VIII
*PST-301	Pakistan studies	2(2-0)	General Education-IX
MICR-304	Applied Immunology	2(1-1)	Major-IV
MICR-306	General Virology	3(2-1)	Major-V
MICR-308	Introduction to Cell Culture	2(1-1)	Major-VI
Total		18	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-IX
MCC-402	History of Muslim Culture and Civilization	2(2-0)	General Education-X
BBA-401	Entrepreneurship	2(2-0)	General Education-XI
MICR-303	Basic Immunology	3(2-1)	Major-VI
MLT-401	Hematology	3(2-1)	Major-VII
PHRM-403	General Pharmacology and Toxicology	3 (2-1)	Interdisciplinary-II
PARA-405	Medical Parasitology	3(2-1)	Interdisciplinary-III
Total		18	

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-4			
MCC-401	History of Muslim Culture and Civilization	2(2-0)	General Education-XIII
EMV-402	Ethical & Moral Value in Society	2(2-0)	General Education-XIV
PST-402	Ideology and Constitution of Pakistan	2(2-0)	General Education-XV
BOT-506	Phyto-Chemistry	3(2-1)	Interdisciplinary-III
GEN-508	Bioinformatics	3(3-0)	Interdisciplinary-IV
MICR-404	Fundamentals of Microbial Genetics	3(2-1)	Major-IX
MICR-406	Microbial Physiology and Metabolism	3(2-1)	Major-X
TOTAL		18	
SEMESTER-5			
MICR-503	Food and Dairy Microbiology	3(2-1)	Major-XI
MICR-505	Veterinary Bacteriology	3(2-1)	Major-XII
MICR-507	Environmental Microbiology and Public Health	3(2-1)	Major-XIII
MICR-509	Systemic Virology	3(2-1)	Major-XIV
PHRM-503	General Pharmacology and Chemotherapy	3(2-1)	Interdisciplinary-V
PATH-503	Clinical Pathology	3(1-2)	Interdisciplinary-VI
TOTAL		18	
SEMESTER-6			
MICR-502	Medical Microbiology	3(2-1)	Major-XV
MICR-504	Pharmaceutical and Industrial Microbiology	3(2-1)	Major-XVI
MICR-506	Soil Microbiology	3(2-1)	Major-XVII
MICR-508	Infectious Waste Management	3(2-1)	Major-XVIII
EPPH-306	One-Health and Sustainable Development Goals	3(2-1)	Interdisciplinary-VII
PARA-404	Diagnostic Parasitology	3(2-1)	Interdisciplinary-VIII
TOTAL		18	
SEMESTER-7			
MICR-601	Microbial Enzymology	3(2-1)	Major-XIX
MICR-603	General and Applied Vaccinology	3(2-1)	Major-XX
MICR-605	Bioethics, Biosafety and Biosecurity	3(2-1)	Major-XXI
MICR-607	Scientific Writing and Research Methods	3(3-0)	Major-XXII
MICR-609	Microbial Informatics and Data Science	3(2-1)	Major-XXIII
MICR-613	Antimicrobial Resistance and Probiotics	3(2-1)	Major-XXIV
TOTAL		18	
SEMESTER-8			
MICR-602	Comprehensive Exam	5(5-0)	Major-XXV
MICR-604	*Internship/Field Experience	3(0-3)	Internship
MICR-606	Capstone Project	3(0-3)	Capstone Project
TOTAL		11	
Total Credits		137	

SCHEME OF STUDY

BS MEDICAL LABORATORY TECHNOLOGY (4 YEARS)

Faculty of Veterinary Sciences

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
BIOC-301	Principles of Biochemistry	3(2-1)	General Education-II
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-III
UHQ-301	Understanding of Holy Quran-I	1(0-1)	General Education-IV
MLT-301	Medical Laboratory Instrumentation	3(2-1)	Major-I
ANAT-307	Human Anatomy	2(1-1)	Major-II
MICR-301	Fundamentals of Microbiology	3(2-1)	Major-III
	Total	18	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-V
ISL-301/ CSR-302	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-VI
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VII
UHQ-302/ ETCH- 301	Understanding of Holy Quran-II/ Ethics	1(0-1)	General Education-VIII
ANAT-308	Human Histology	3(2-1)	Major-IV
PHYS-501	Human Physiology	3(2-1)	Interdisciplinary-I
PATH-403	General Pathology	3(2-1)	Major-V
	Total	18	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-IX
MCC-402	History of Muslim Culture and Civilization	2(2-0)	General Education-X
BBA-401	Entrepreneurship	2(2-0)	General Education-XI
MICR-303	Basic Immunology	3(2-1)	Major-VI
MLT-401	Hematology	3(2-1)	Major-VII

Course No.	Course Title	Credit Hours	Course Type
PHRM-403	General Pharmacology and Toxicology	3 (2-1)	Interdisciplinary-II
PARA-405	Medical Parasitology	3(2-1)	Interdisciplinary-III
	Total	18	
SEMESTER-4			
CSIT-401	Applications of Information and Communication Technologies	2(2-0)	General Education-XII
EMV-402	Ethical & Moral Value in Society	3(2-1)	General Education-XIII
PST-402	Ideology and Constitution of Pakistan	2(2-0)	General Education-XIV
PATH-404	Systemic Pathology	3(2-1)	Major-VIII
MLT-406	Quality Assurance Management	3(3-0)	Major-IX
MICR-502	Medical Microbiology	3(2-1)	Major-X
	Total	17	
SEMESTER-5			
PATH-503	Clinical Pathology	3(1-2)	Major-XI
MLT-501	Blood Disorders	3(2-1)	Major-XII
MLT-503	Medical Laboratory Management Skills	3(2-1)	Major-XIII
MICRO-607	Biomedical Micro technology and Nanotechnology	3(2-1)	Major-XIV
PATH-505	Chemical & Forensic Pathology	3(2-1)	Major-XV
MLT-507	Bioethics	3(3-0)	Major-XVI
	Total	18	
SEMESTER-6			
MLT-502	Molecular Diagnostics	3(2-1)	Major-XVII
MLT-504	Health-care Waste Management	3(2-1)	Major-XVIII
MLT-506	Human Cytology	3(2-1)	Major-XIX
MLT-508/ MLT-510	*Immunohematology and Blood Transfusion/ Advanced Hematology	3(2-1)	Major-XX
MLT-512/ MLT-514	*Medicolegal Report Writing/ Healthcare Information System	3(3-0)	Major-XXI
MICR-613	Diagnostic Microbiology	3(2-1)	Major-XXII
	Total	18	
SEMESTER-7			
MLT-603/ MLT- 605	*Research Methods and Techniques/Scientific Literature Mining	3(2-1)	Major-XXIII
MLT-607	Advances in Medical Laboratory Technology	3(1-2)	Major-XXIV
MLT-609/ MLT- 611	*Blood Banking / Clinical Fluid Analysis	3(2-1)	Major-XXV

Course No.	Course Title	Credit Hours	Course Type
MLT-613	Clinical Laboratory Practices	3(0-3)	Major-XXVI
MLT-615	Behavioral Sciences and Medical Sociology	3(3-0)	Major-XXVII
SURG-605	Advance Diagnostic Imaging Techniques	3(2-1)	Interdisciplinary-IV
	Total	18	
SEMESTER-8			
ASCI-602	Internship	3(0-3)	Major-XXVIII
ASCI-603	Capstone project	3(0-3)	Major-XXIX
	Total	6	
	Total Credits	136	

SCHEME OF STUDIES

BS ANIMAL SCIENCES DEGREE PROGRAM

Faculty of Animal Production and Technology

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
BIOC-301	Principles of Biochemistry	3(2-1)	General Education-II
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-III
UHQ-301	Understanding of Holy Quran/Fehm-e- Quran-I	1(0-1)	General Education-IV
GEN-301	Introductory Molecular Genetics	2(1-1)	Major-I
LSMG-301	Introduction to Livestock Management	2(1-1)	Major-II
NUTR-301	Fundamentals of Animal Nutrition	2(1-1)	Major-III
ANAT-302	Introduction to Veterinary Anatomy	2(1-1)	Interdisciplinary-I
	Total	18	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-V
ISL-302/ CSR-302	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-VI
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VII
UHQ-302	Understanding of Holy Quran-II /Fehm-e- Quran-II	1(0-1)	General Education-VIII
NUTR-302	Metabolism of Primary Nutrients	3(3-0)	Major-IV
PHYS-302	Introduction to Animal Physiology	2(1-1)	Interdisciplinary-II
MSTC-302	Introduction to Meat Science and Technology	2(1-1)	Major-V
LSMG-302	Principles of Lactation and Milk Production	2(1-1)	Major-VI
	Total	18	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-IX
BBA-401	Entrepreneurship	2(2-0)	General Education-X
MCC-401	History of Muslim Culture and Civilization	2(2-0)	General Education-XI
ANBG-401	Introductory Population Genetics	3(2-1)	Major-VII
PSCI-301	Introduction to Poultry Science	3(2-1)	Major-VIII
LSMG-401	Management of Dairy Animals	3(2-1)	Major-IX
NUTR-401	Minerals and Vitamins in Nutrition	3(2-1)	Major-X
	Total	18	
SEMESTER-4			

Course No.	Course Title	Credit Hours	Course Type
CSIT-402	Applications of Information and Communication Technologies	3(2-1)	General Education-XII
EMV-402	Ethical & Moral Values in Society	2(2-0)	General Education-XIII
PST-402	Ideology and Constitution of Pakistan	2(2-0)	General Education-XIV
PST-301	Pakistan Studies	2(2-0)	General Education-XV
ANBG-402	Principles of Animal Breeding	3(2-1)	Major-XI
PSCI-406	Incubation Principles and Hatchery Management	2(1-1)	Major-XII
NUTR-404	Nutrient Requirements of Farm Animals	2(1-1)	Major-XIII
LSMG-406	Principles of Small Ruminant Production	2(1-1)	Major-XIV
	Total	18	
SEMESTER-5			
ANBG-501	Utilization and Conservation of Animal Genetic Resources	3(2-1)	Major-XV
LSMG-501/ LSMG-503	Range Livestock Production/ Livestock Economics and Business Management	3(2-1)/ 3(3-0)	Major-Elective-I
PSCI-505	Poultry Housing and Equipment	3(2-1)	Major-XVI
NUTR-505	Feeding of Farm Animals	3(2-1)	Major-XVII
MSTC-503	Principles of Meat Production	3(2-1)	Major-XVIII
THER-503	Introduction to Animal Reproduction	3(2-1)	Interdisciplinary-III
	Total	18	
SEMESTER-6			
ANBG-502/ ANBG-504	Selection for Economic Traits in Farm Animals/ Applied Poultry Genetics	3(2-1)	Major-Elective-II
LSMG - 502	Equine and Camel Production	3(2-1)	Major-XIX
NUTR-506/ NUTR-502	Principles of Poultry Nutrition/ Feed Microscopy and Quality Control	3(2-1)	Major-Elective-III
PSCI- 512/ PSCI- 502	Poultry Farm Management and Feeding Practices/Poultry Housing and Environmental Management	3(2-1)	Major-Elective-IV
NUTR-508	Fodders and Forages	3(2-1)	Major-XX
MEDI-506	Introduction to Farm Animal Health	3(2-1)	Interdisciplinary-IV
	Total	18	
SEMESTER-7			
ANBG-601	Introduction to Animal Genomics	3(2-1)	Major-XXI
LSMG-601	Behavior and Welfare of Farm Animals	2(1-1)	Major-XXII
NUTR-603	Feed Evaluation, Formulation and Processing Technology	3(2-1)	Major-XXIII
EPPH-302	Poultry Hygiene and Disease Prevention	3(2-1)	Major-XXIV
ASCI-601	Livestock and Poultry Marketing	2(2-0)	Interdisciplinary-V
ZOOL-615	Introduction to Fisheries and Aquaculture	3(2-1)	Interdisciplinary-VI

Course No.	Course Title	Credit Hours	Course Type
Ther-605	Farm Animal Reproduction Practices	2(0-2)	Interdisciplinary-VII
	Total	18	
SEMESTER-8			
ASCI-602	Internship	6(0-6)	Major-XXV
ASCI-604	Capstone project	3(0-3)	Major-XXVI
	Total	09	
Total Credits		135	

SCHEME OF STUDIES

BS POULTRY SCIENCE DEGREE PROGRAM

Faculty of Animal Production and Technology

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
BIOC-301	Principles of Biochemistry	3(2-1)	General Education-II
MATH-301	Quantitative Reasoning-I	3(3-0)	General Education-III
UHQ-301/ ETH-301	Understanding of Holy Quran-I /Ethics-I	1(0-1)	General Education-IV
PSCI-301	Introduction to Poultry Science	3(2-1)	Major -I
PSCI-303	Poultry Products Technology	2(1-1)	Major -II
PHYS-303	Avian Anatomy and Physiology	3(2-1)	Interdisciplinary/allied-I
	Total	18	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-V
ISL-301/ CSR-301	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-VI
STAT-301	Quantitative Reasoning-II	3(3-0)	General Education-VII
UHQ-302/ ETH-302	Understanding of Holy Quran-II /Ethics-II	1(0-1)	General Education-VIII
PSCI-302	Game Bird Production	3(2-1)	Major -III
ANBG-403	Introduction to Poultry Genetics	3(2-1)	Major -IV
EPPH-302	Poultry Hygiene and Diseases Prevention	3(2-1)	Interdisciplinary/allied-II
	Total	18	
SEMESTER-3			
PST-301	Ideology and Constitution of Pakistan	2(2-0)	General Education-IX
BBA-303	Entrepreneurship	2(2-0)	General Education-X
MCC-401	History of Muslim Culture and Civilization	2(2-0)	General Education-XI
PSCI-401	Poultry Behavior and Welfare	3(2-1)	Major-V
PSCI-403	Incubation Principles and Hatchery Management	3(2-1)	Major -VI
NUTR-401	Fundamentals of Poultry Nutrition	3(2-1)	Major -VII
ANBG-401	Introductory Population Genetics	3(2-1)	Major-VIII
	Total	18	
SEMESTER-4			
CSIT-301	Applications of Information and Communication Technologies	3(2-1)	General Education-XII
EMV-401	Ethical & Moral Value in Society	2(2-0)	General Education-XIII

Course No.	Course Title	Credit Hours	Course Type
CCE-401	Civics and Community Engagement	2(2-0)	General Education-XIV
PST-301	Pakistan Studies	2(2-0)	General Education-XV
PSCI-402	Broiler Production and Management	3(2-1)	Major -IX
NUTR-402	Nutrition of Broilers	3(2-1)	Major-X
MSTC-406	Poultry Processing and Preservation Technologies	3(2-1)	Major-XI
	Total	18	
SEMESTER-5			
PSCI-501	Layer Production and Management	3(2-1)	Major-XII
PSCI-503	Biosecurity Measures in Poultry Industry	2(1-1)	Major-XIII
PSCI-505	Biology of Fowl	2(1-1)	Major-XIV
NUTR-501	Nutrition of Layers	3(2-1)	Major-V
ANBG-503	Molecular Genetics and Biotechnology	3(2-1)	Major-XVI
MICR-301	Fundamental of Microbiology	3(2-1)	Interdisciplinary/allied-III
CEDU-501	Basics of Extension Education	2(1-1)	Interdisciplinary/allied - IV
	Total	18	
SEMESTER-6			
PSCI-502	Poultry Housing and Environmental Management	3(2-1)	Major-XVII
PSCI-504	Management of Parent Flock	3(2-1)	Major-XVIII
PSCI-506/ PSCI-512	Poultry Feeding Practices/ Poultry Farm Management and Feeding Practices	3(2-1)	Major/ Elective-I
PSCI-508/ PSCI-510	Poultry Health Management/ Avian Embryology	3(2-1)	Major/ Elective-II
NUTR-502	Feed Microscopy and Quality Control	3(2-1)	Major-XIX
ANBG-504	Applied Poultry Genetics	3(2-1)	Major-XX
	Total	18	
SEMESTER-7			
PSCI-601/ PSCI-611	Automation in Poultry Industry/ Computerized Poultry Record Keeping	3(2-1)	Major-XXI
PSCI-603/ PSCI-607	Indigenous Poultry Production/ Quality Control Management in Poultry Operations	3(2-1)	Major-XXII
PSCI-605	Egg Products Technology	2(1-1)	Major-XXIII
NUTR-601	Feed Formulation and Processing Technology	3(2-1)	Major-XIV
MSTC-507	Further Poultry Processing	2(1-1)	Major-XV
MEDI-605	Diseases of Poultry	3(2-1)	Interdisciplinary/allied-V

Course No.	Course Title	Credit Hours	Course Type
ASCI-601	Poultry Marketing	2(2-0)	Interdisciplinary
	Total	18	
SEMESTER-8			
PSCI-602	Internship	6(0-6)	Major-XVI
PSCI-604	Capstone project	3(0-3)	Major-XVII
	Total	09	
	Total Credits	135	

SCHEME OF STUDIES

BS BIOINFORMATICS DEGREE PROGRAM

Faculty of Animal Production and Technology

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
BIOC-301	Principles of Biochemistry	3(2-1)	General Education-II
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-III
UHQ-301	Understanding of Holy Quran-I	1 (0-1)	General Education-IV
GEN-305	Introductory Cell Biology	2(1-1)	Major-I
GEN-303	General Genetics	3(2-1)	Major-II
BINF-301	Principles of Programming	3(2-1)	Major-III
	Total	18	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-V
ISL-302/ CSR-302	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-VI
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VII
UHQ-302	Understanding of Holy Quran-II	1(0-1)	General Education-VIII
PST-301	Pakistan Study	2(2-0)	General Education-IX
GEN-304	Principles of Genetics	2(1-1)	Major-IV
BINF-302	Object-Oriented Programming	3(2-1)	Major-V
BINF-304	Probability and Biostatistics	2(2-0)	Major-VI
	Total	18	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-X
BBA-401	Entrepreneurship	2(2-0)	General Education-XI
MCC-401	History of Muslim Culture and Civilization	2(2-0)	General Education-XII
CSIT-403	Discrete Structures	3(3-0)	Interdisciplinary-I
GEN-401	Introductory Molecular Biology	3(2-1)	Major-VII
MATH-301	Calculus and Analytic Geometry- I	3(3-0)	Interdisciplinary-II
BINF-401	Data Structures & Algorithms	3(2-1)	Major-VIII
	Total	18	
SEMESTER-4			
CSIT-301	Applications of Information and Communication Technologies	3(2-1)	General Education-XIII

Course No.	Course Title	Credit Hours	Course Type
EMV-402	Ethical & Moral Values in Society	2(2-0)	General Education-XIV
PST-402	Ideology and Constitution of Pakistan	2(2-0)	General Education-XV
BNF-402	Bioinformatics I	3(2-1)	Major-IX
BNF-404	Bioinformatics Scripting	3(2-1)	Major-X
BNF-406	Recent Trends in Bioinformatics	2(2-0)	Major-XI
BNF-408	Database Systems	3(2-1)	Major-XII
	Total	18	
SEMESTER-5			
BNF-501	Bioinformatics II	3(2-1)	Major-XIII
MATH-303	Discrete Mathematics	3(3-0)	Interdisciplinary -III
GEN-501	Genetics and Evolution	3(2-1)	Major-XIV
BNF-503	Bioinformatics Computing I	3(2-1)	Major-XV
BNF-505	Information Modelling	3(2-1)	Major-XVI
BNF-507	Systems Biology	3(3-0)	Major-XVII
	Total	18	
SEMESTER-6			
BNF-502	Bioinformatics III	3(3-1)	Major-XIII
BNF-504	Bioinformatics Computing II	3(2-1)	Major-XIX
BNF-506	Bioinformatics Software Development-I	3(1-2)	Major-XX
BNF-508	Computer Graphics and Visualization	3(2-1)	Major-XXI
BNF-510	Web Development	3(2-1)	Major-XXII
BNF-512	Next Generation Sequencing	3(2-1)	Major-XXIII
	Total	18	
SEMESTER-7			
BNF-601	Genomics and Transcriptomics	3(3-0)	Major-XXIV
BNF-603	Research Methodology in Bioinformatics	3(0-3)	Major-XXV
BNF-605	Modeling and Simulations	3(2-1)	Major-XXVI
BNF-607	Introduction to Data Sciences	3(2-1)	Major-XXVII
BNF-609	Bioinformatics Software Development-II	3(1-2)	Major-XXVIII
CSIT-503	Artificial Intelligence	3(2-1)	Interdisciplinary-IV
	Total	18	
SEMESTER-8			
BNF-602	*Internship/Field Experience	3(0-3)	Major-XXIX

Course No.	Course Title	Credit Hours	Course Type
BINF-604	Capstone project	3(0-3)	Major-XXX
	Total	06	
	Total Credits	132	

SCHEME OF STUDIES

BS GENETICS DEGREE PROGRAM

Faculty of Animal Production and Technology

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
BIOC-301	Principles of Biochemistry	3(2-1)	General Education-II
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-III
UHQ-301	Understanding of Holy Quran/Fahm-e- Quran-I	1(0-1)	General Education-IV
GEN-303	General Genetics	3(2-1)	Major-II
GEN-305	Introductory Cell Biology	3(2-1)	Major-III
Total		18	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-V
ISL-302/CSR-302	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-VI
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VII
PST-301	Pakistan Studies	2(2-0)	General Education-VIII
UHQ-302	Understanding of Holy Quran/Fahm-e- Quran-II	1(0-1)	General Education-IX
GEN-302	Principles of Heredity	2(2-0)	Major-IV
BIOT-301	Introduction to Biotechnology	2(1-1)	Interdisciplinary-I
GEN-304	Principles of Genetics	3(2-1)	Major-V
Total		18	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-X
MCC-402	History of Muslim Culture and Civilization	2(2-0)	General Education-XI
BBA-401	Entrepreneurship	2(2-0)	General Education-XII
GEN-401	Introductory Molecular Biology	3(2-1)	Major-VI
GEN-403	Biometry-I	3(2-1)	Major-VII
MICR-301	Fundamentals of Microbiology	3(2-1)	Interdisciplinary-II
ANBG-401	Introductory Population Genetics	3(3-1)	Interdisciplinary-III
Total		18	
SEMESTER-4			
CSIT-301	Applications of Information and Communication Technologies	3(2-1)	General Education-XIII
EMV-402	Ethical & Moral Value in Society	2(2-0)	General Education-XIV
PST-402	Ideology and Constitution of Pakistan	2(2-0)	General Education-XV
GEN-402	Aquaculture Genetics	3(2-1)	Major-VIII
GEN-404	Physiological Genetics	3(2-1)	Major-XI
GEN-406	Introductory Cytogenetics	3(2-1)	Major-XII
GEN-408	Developmental Biology	2(1-1)	Major-XIII
Total		18	
SEMESTER-5			
GEN-501	Genetics and Evolution	3(2-1)	Major-XIV
GEN-503	Nutri-genomics	3(2-1)	Major-XV
GEN-505	Microbial Genetics	3(2-1)	Major-XVI
GEN-507	Genetic Engineering	3(2-1)	Major-XVII



Course No.	Course Title	Credit Hours	Course Type
GEN-509	Human Genetics	3(2-1)	Major-XVIII
GEN-511	Genetic Disorders and inheritance	3(2-1)	Major-XIX
	Total	18	
SEMESTER-6			
GEN-502	Biometry-II	3(2-1)	Major-XX
GEN-504	Forensic Genetics	3(2-1)	Major-XXI
GEN-506	Biosafety and Bioethics in Genetics	3(2-1)	Major-XXII
GEN-508	Bioinformatics	3(3-0)	Major-XXIII
GEN-510	Developmental Genetics	3(2-1)	Major-XXIV
ANBG-402	Principles of Animal Breeding	3(2-1)	Interdisciplinary-IV
	Total	18	
SEMESTER-7			
GEN-601	Research Techniques	3(2-1)	Major-XXV
GEN-603	Genomics and Proteomics	3(2-1)	Major-XXVI
GEN-605	Report Writing	2(0-2)	Major-XXVII
GEN-607	Immunogenetics	3(2-1)	Major-XXVIII
GEN-609	Genetic Resources and Conservation	3(2-1)	Major-XXIX
EPPH-306	One Health	3(2-1)	Interdisciplinary-V
	Total	17	
SEMESTER-8			
GEN-602	*Internship/Field Experience	3(0-3)	Major-XXX
GEN-604	Capstone project	3(0-3)	Major-XXXI
		06	
	Total Credits	131	

SCHEME OF STUDIES

BS BIOLOGICAL SCIENCES DEGREE PROGRAM

Faculty of Biosciences

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
GEOG-301	Geography	3(2-1)	General Education-II
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-III
UHQ-301/ ETHC-301	Understanding of Holy Quran-I/Ethics-I	1(0-1)	General Education-VI
BOT-301	Diversity of Plants	3(2-1)	Major-I
BIOS-301	Origin and diversity of Life	3(2-1)	Major-II
	Total	16	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-V
ISL-301/ CSR- 301	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-VI
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VII
UHQ-302/ ETHC-301	Understanding of Holy Quran-II/Ethics-II	1(0-1)	General Education-VIII
PST-301	Pak Studies	2(2-0)	General Education-IX
BIOS-302	Animal Diversity (Invertebrates & Chordates)	3(2-1)	Major-III
BIOT-XXX	Fundamentals of Biotechnology	3(2-1)	Interdisciplinary-I
	Total	17	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-X
CSIT-301	Applications of Information and Communication Technologies	3(2-1)	General Education-XI
BBA-401	Entrepreneurship	2(2-0)	General Education-XII
CHEM-301	Basic Chemistry	3(2-1)	Interdisciplinary-II
MICR-XXX	Fundamentals of Microbiology	3(2-1)	Interdisciplinary-III
BOT-403	Plant Anatomy and Embryology	3(2-1)	Major-IV
	Total	16	
SEMESTER-4			
EMV-402	Ethical & Moral Value in Society	2(2-0)	General Education-XIII
PST-401	Ideology and Constitution of Pakistan	2(2-0)	General Education-XIV
MCC-401	History of Muslim Culture and Civilization	2(2-0)	General Education-XV
ZOOL-406	Cell Biology	3(2-1)	Major-VI

Course No.	Course Title	Credit Hours	Course Type
BIOS-402	General Ecology	3(2-1)	Interdisciplinary-IV
BIOS-404	Animal Form and Function	3(2-1)	Major-V
ZOOL-402	Evolution	3(3-0)	Major VI
	Total	18	
SEMESTER-5			
ZOOL-501	Marine Biology	3(3-0)	Major-VII
GEN-303	General Genetics	3(2-1)	Interdisciplinary-V
ZOOL-503	Principles of systematics	3(2-1)	Major-VIII
BIOS-501	Fundamentals of Plant Physiology	3(2-1)	Major-IX
BIOC-XXX	Principles of Biochemistry	3(2-1)	Interdisciplinary-VI
ZOOL-505	Developmental Biology	3(2-1)	Major-X
	Total	18	
SEMESTER-6			
ZOOL-508	Molecular Biology	3(2-1)	Major XII
STAT-XXX	Biostatistics	3(2-1)	Interdisciplinary-VII
GEN-508	Bioinformatics	3(2-1)	Interdisciplinary-VIII
BIOS-502	Mycology & Plant Pathology	3(2-1)	Major-XIII
BIOS-504	Biomechanics	3(3-0)	Major-XIV
BIOS-506	Conservation Biology	3(2-1)	Major-XV
	Total	18	
SEMESTER-7			
ZOOL-601	Wildlife Conservation & Management	3(2-1)	Major-XVI
ZOOL-603	Research Methodologies & Bioethics	3(2-1)	Major-XVII
BIOS-601	Ethno-pharmacology	3(2-1)	Major-XVIII
ZOOL-609	Animal Physiology	3(2-1)	Major-XIX
MICR-XXX	Microbiology & Immunology	3(2-1)	Interdisciplinary-IX
BIOS-XXX	University option	3(2-1)	Major-XX
	Total	18	
SEMESTER-8			
BIOS-602	Biogeography & Paleontology	3(2-1)	Major-XXI
BIOS-XXX	Uni. option	3(2-1)	Major-XXII
BIOS-XXX	Uni. option	3(2-1)	Major-XXIII
CSIT-XXX	Computational Biology	3(2-1)	Interdisciplinary-X

Course No.	Course Title	Credit Hours	Course Type
BIOS-612	Capstone	3(0-3)	Capstone
	Total	15	
	Total Credits	136	

SCHEME OF STUDIES
BS CHEMISTRY DEGREE PROGRAM

Faculty of Biosciences

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
BIOC-301	Principles of Biochemistry	3(2-1)	General Education-II
UHQ301/ ETHC-301	Understanding of Holy Quran-I/Ethics-I	1(1-0)	General Education-III
ISL-302/ CSR-302	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-IV
CHEM-301	Chemistry-I	3(2-1)	Major-I
CHEM-303	General Chemistry	3(3-0)	Major-II
FSAT-301	Introduction to Food Science and Technology	3(2-1)	Interdisciplinary-I
	Total	18(14-4)	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-V
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-VI
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VII
UHQ302 /ETHC302	Understanding of Holy Quran-II/Ethics-I	1(0-1)	General Education-VIII
PST-301	Pakistan Studies	2(2-0)	General Education-IX
PHRM503	General Pharmacology and Chemotherapy	3(2-1)	Interdisciplinary-II
CHEM302	Chemistry-II	3(2-1)	Major-III
	Total	18(15-3)	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-X
MCC-402	History of Muslim Culture and Civilization	2(2-0)	General Education-XI
BBA-401	Entrepreneurship	2(2-0)	General Education-XII
CHEM-401	Chemistry-III	3(2-1)	Major-V
CHEM-403	Food Chemistry	3(3-0)	Major-IV
CHEM-405	Natural Products	3(3-0)	Major-VI
BIOC-304	Proteins and Nucleic Acids	3(2-1)	Interdisciplinary-III

Course No.	Course Title	Credit Hours	Course Type
	Total	18(16-2)	
SEMESTER-4			
CSIT-301	Applications of Information and Communication Technologies	3(2-1)	General Education-XIII
EMV-402	Ethical & Moral Value in Society	2(2-0)	General Education-XIV
PST-402	Ideology and Constitution of Pakistan	2(2-0)	General Education-XV
GEN-406	Introductory Cytogenetic	3(2-1)	Interdisciplinary-IV
CHEM-402	Chemistry-IV	3(2-1)	
CHEM-404	Industrial Chemistry	3(2-1)	
	Total	16(12-4)	
SEMESTER-5			
CHEM-501	Environmental Chemistry	3(3-0)	Major-IX
CHEM-503	Chemistry of Transition Elements	3(2-1)	Major-X
CHEM-505	Stereochemistry and Reaction Mechanism	3(2-1)	Major-XI
CHEM-507	Advanced Analytical Chemistry-I	3(2-1)	Major-XII
CHEM-509	Corrosion Chemistry	3(3-0)	Major-XIII
	Total	15(12-3)	
SEMESTER-6			
CHEM-502	Inorganic Material Chemistry	3(2-1)	Major-XIV
CHEM-504	Organic Reaction Mechanisms	3(2-1)	Major-XV
CHEM-506	Advanced Physical Chemistry	3(2-1)	Major-XVI
CHEM-508	Fuel Chemistry	3(2-1)	Major-XVII
CHEM-510	Spectroscopic Techniques	3(2-1)	Major-XVIII
	Total	15(10-5)	
SEMESTER-7			
Specialization in Inorganic Chemistry			
CHEM-601	Inorganic Reaction Mechanism	3(2-1)	Major-XXIX
CHEM-603	Pi-Acceptor Ligands and Polymers	3(3-0)	Major-XXX
CHEM-605	Inorganic Spectroscopy	3(3-0)	Major-XXXI
CHEM-607	Kinetics and Mechanisms of Inorganic Reactions	3(3-0)	Major-XXXII
CHEM-609	Modern Trends in Organometallic Synthesis	3(3-0)	Major-XXXIII
	Total	15(14-1)	
SEMESTER-7			
Specialization in Analytical Chemistry			

Course No.	Course Title	Credit Hours	Course Type
CHEM-601	Electroanalytical Techniques	3(3-0)	Major-XIX
CHEM-603	Advanced Separation Techniques	3(3-0)	Major-XX
CHEM-605	Atomic Spectroscopy	3(3-0)	Major-XXI
CHEM-607	Analytical Chemistry Practicals	3(0-3)	Major-XXII
CHEM-609	Potentiometry and Amperometry	3(3-0)	Major-XXIII
	Total	15(12-3)	

SEMESTER-7

Specialization in Organic Chemistry

CHEM-601	Heterocyclic and Organometallics	3(2-1)	Major-XIX
CHEM-603	Reactive Intermediates	3(3-0)	Major-XX
CHEM-605	Organic Spectroscopy	3(3-0)	Major-XXI
CHEM-607	Organic Transformations	3(3-0)	Major-XXII
CHEM-609	Pharmaceutical Chemistry	3(3-0)	Major-XXIII
	Total	15(14-1)	

SEMESTER-8

Specialization in Inorganic Chemistry

CHEM-602	Organometallics	3(3-0)	Major-XIV
CHEM-604	Symmetry and Magnetochemistry	3(3-0)	Major-XV
CHEM-606	Radio and Nuclear Chemistry	3(3-0)	Major-XVI
CHEM-608	*Internship	3(3-0)	Major-XVII
CHEM-610	Capstone project	3(3-0)	Major-XVIII
	Total	15(14-1)	

SEMESTER-8

Specialization in Analytical Chemistry

CHEM-602	Thermal Methods of Analysis	3(3-0)	Major-XIV
CHEM-604	Food and Drug Chemistry	3(3-0)	Major-XV
CHEM-606	Standard Methods & Quality Assurance	3(3-0)	Major-XVI
CHEM-608	*Internship	3(0-3)	Major-XVII
CHEM-610	Capstone project	3(0-3)	Major-XVIII
	Total	15(9-6)	

SEMESTER-8

Specialization in Organic Chemistry

CHEM-602	Medicinal Chemistry	3(3-0)	Major-XIV
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CHEM-604	Organic Synthesis	3(3-0)	Major-XV
CHEM-606	Catalysis in Organic Synthesis	3(3-0)	Major-XVI
CHEM-608	*Internship	3(0-3)	Major-XVII
CHEM-610	Capstone project	3(0-3)	Major-XVIII
	Total	15(9-6)	
Total Credits		130	

SCHEME OF STUDIES

BS BIOCHEMISTRY (4 YEARS)

Faculty of Biosciences

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
GEOG-301	Geography	3(2-1)	General Education-II
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-III
UNQ301/ ETHC-301	Understanding of Holy Quran-I/Ethics-I	1(0-1)	General Education-IV
BIOC-301	Principles of Biochemistry	3(2-1)	Major-I
BIOC-303	Carbohydrates & Lipids	3(2-1)	Major-II
	Total	16(12-4)	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-V
ISL-301/ CSR-301	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-VI
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VII
UNQ302/ ETHC-302	Understanding of Holy Quran-II/Ethics-II	1(0-1)	General Education-VIII
BIOC-302	Proteins and Nucleic Acids	3(2-1)	Major-III
PHRM-403	General Pharmacology and Toxicology	3(2-1)	Interdisciplinary-I
	Total	15(12-3)	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-IX
CSIT-301	Applications of Information and Communication Technologies	3(2-1)	General Education-X
BBA-401	Entrepreneurship	2(2-0)	General Education-XI
MICR-301	Fundamental of Microbiology	3(2-1)	Interdisciplinary-II
BIOC-401	Environmental Biochemistry	3(3-0)	Major-VI
BIOC-403	Cell Biology	3(2-1)	Major-V
	Total	16(13-3)	
SEMESTER-4			
MCC-402	History of Muslim Culture and Civilization	2(2-0)	General Education-XII
EMV-402	Ethical & Moral Value in Society	2(2-0)	General Education-XIII
PST-402	Ideology and Constitution of Pakistan	2(2-0)	General Education-XIV
PST-301	Pakistan Studies	2(2-0)	General Education-XV
BIOC-402	Enzymology	3(2-1)	Major-VI
MICR-306	Basic Immunology	3(2-1)	Interdisciplinary-III

Course No.	Course Title	Credit Hours	Course Type
CHEM-301	Chemistry-I	3(2-1)	Major-VII
	Total	17(14-3)	
SEMESTER-5			
BIOC-501	Metabolism-I	3(3-0)	Major-VIII
BIOC-503	Methods in Molecular Biology	3(1-2)	Major-IX
BIOC-505	Nutritional Biochemistry	3(2-1)	Major-X
PHYS-501	Human Physiology	3(2-1)	Major-XI
BIOC-507	Plant Biochemistry	3(2-1)	Major-XII
CHEM-302	Chemistry-II	3(2-1)	Major-XIII
	Total	18(12-6)	
SEMESTER-6			
BIOC-502	Metabolism-II	3(3-0)	Major-XIV
BIOC-504	Biochemical Techniques	3(1-2)	Major-XV
BIOC-506	Clinical Biochemistry	3(2-1)	Major-XVI
MKT-402	Marketing and Management	3(3-0)	Interdisciplinary-IV
BIOC-508	Bioenergetics	3(3-0)	Major-XVII
BIOC-510	Industrial Biochemistry	3(2-1)	Major- XVIII
	Total	18(14-4)	
SEMESTER-7			
BIOC-601	Biomembranes and Cell Signaling	3(3-0)	Major-XIX
BIOC-603	Current Trends in Biochemistry	3(3-0)	Major-XX
BIOC-605	Biotechnology	3(2-1)	Major-XXI
BIOC-404	Research Planning and Scientific Writings	3(3-0)	Major- XXII
BIOC-6XX	Elective-I	3(3-0)	Elective-I
BIOC-6XX	Elective-II	3(3-0)	Elective-II
	Total	18(17-1)	
SEMESTER-8			
BIOC-6XX	*Internship/Field Experience	3(0-3)	Major-XXIII
BIOC-6XX	Capstone Project	3(0-3)	Major-XXIV
BIOC-6XX	Elective-III	3(3-0)	Elective-III
BIOC-6XX	Elective-IV	3(3-0)	Elective-IV
	Total	12(6-6)	
Total Credits		130	

SCHEME OF STUDIES

BS BIOTECHNOLOGY DEGREE PROGRAM

Faculty of Biosciences

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-II
BIOC-301	Principles of Biochemistry	3(2-1)	General Education-III
UHQ-301	Understanding of Holy Quran-I	1 (0-1)	General Education-IV
CHEM-301	Chemistry -I	3(2-1)	Interdisciplinary - I
ZOOL-303	Ecology, Biodiversity & Evolution-I	3(3-0)	Interdisciplinary - II
	Total	16	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education- V
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VI
ISL-302/ CSR-302	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-VII
UHQ-302	Understanding of Holy Quran-II	1(0-1)	General Education-VIII
PST-301	Pakistan Study	2(2-0)	General Education-IX
BIOT-302	Cell Biology	3(2-1)	Major – II
ZOOL-306	Ecology, Biodiversity & Evolution-II	3(2-1)	Interdisciplinary – III
	Total	17	
SEMESTER-3			
CSIT-401	Applications of Information and Communication Technologies	3(2-1)	General Education-X
BBA-401	Entrepreneurship	2(2-0)	General Education-XI
CCE-401	Civics and Community Engagement	2(2-0)	General Education-XII
BIOT-401	Classical Genetics	3(3-0)	Major – III
MICR-401	Microbiology	3(2-1)	Interdisciplinary – IV
MATH-401	Biomathematics	3(3-0)	Interdisciplinary – V
	Total	16	
SEMESTER-4			
MCC-402	History of Muslim Culture and Civilization	2(2-0)	General Education-XIII
EMV-402	Ethical & Moral Value in Society	2(2-0)	General Education-XIV
PST-402	Ideology and Constitution of Pakistan	2(2-0)	General Education-XV
BIOT-400	Animal Biotechnology	3(3-0)	Major – V

Course No.	Course Title	Credit Hours	Course Type
BIOT-402	Biochemistry-I	3(2-1)	Major – VI
MICR-404	Fundamentals of Microbial Genetics	3(2-1)	Interdisciplinary – VI
BIOT-400	Animal Biotechnology	3(3-0)	Major – V
	Total	18	
SEMESTER-5			
BIOT-501	Microbial Biotechnology	3(2-1)	Major – VII
BIOT-503	Methods in Molecular Biology	3(2-1)	Major – VIII
BIOT-505	Biophysics	3(3-0)	Major – IX
BIOT-507	Principles of Biochemical Engineering	3(2-1)	Major – X
BIOT-509	Biochemistry-II	3(2-1)	Major – XI
BIOT-501	Microbial Biotechnology	3(2-1)	Major – VII
	Total	18	
SEMESTER-6			
BIOT-500	Agriculture Biotechnology	3(2-1)	Major – XIII
BIOT-502	Bioinformatics	3(2-1)	Major – XIV
BIOT-504	Food Biotechnology	3(3-0)	Major – XV
BIOT-506	Environment Biotechnology	3(3-0)	Major – XVI
BIOT-508	Genetic Resources & Conservation	3(3-0)	Major – XVII
BIOT-500	Agriculture Biotechnology	3(2-1)	Major – XIII
	Total	18	
SEMESTER-7			
BIOT-601	Fungal Biotechnology	3(2-1)	Major – XII
BIOT-603	Nano Biotechnology	3(2-1)	Major – XIX
BIOT-605	Health Biotechnology	3(2-1)	Major – XX
BIOT-607	Genomics and Proteomics	3(2-1)	Major – XXI
BIOT-607	Molecular Diagnostics	3(2-1)	Major – XXII
	Total	15	
SEMESTER-8			
BIOT-600	Biosafety & Bioethics	2(2-0)	Major – IV
BIOT-602	Fermentation Biotechnology	3(2-1)	Major – XVIII
BIOT-604	Industrial Biotechnology	3(2-1)	Major – XXIV
BIOT-606	Internship / field experience	3(0-3)	Major – XXV
BIOT-608	Capstone Project	3(0-3)	Major – XXVI

Course No.	Course Title	Credit Hours	Course Type
BIOT-610	Research Project and Scientific Writing	2(2-0)	Major- XXVII
	Total	16	
	Total Credits	134	

SCHEME OF STUDIES

BS COMPUTER SCIENCE DEGREE PROGRAM

Faculty of Biosciences

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
PHYS-301	Applied Physics	3(3-0)	General Education-II
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-III
CS-301	Applications of Information and Communication Technologies	3(2-1)	General Education-IV
UHQ-301 / ETH-301	Understanding of Holy Quran-I/Ethics-I	1(1-0)	General Education-V
CS-303	Programming Fundamentals	4(3-1)	Major-I
	Total	17(15-2)	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-VI
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VII
UHQ-302 / ETH-302	Understanding of Holy Quran-II / Ethics-II	1(1-0)	General Education-VIII
CS-306	Database Systems	4(3-1)	Major-II
CS-304	Object-Oriented Programming	4(3-1)	Major-III
BBA-502	Business Research Methods	3(3-0)	Inter disciplinary-I
	Total	18(16-2)	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-IX
CS-401	Data Structures	4(3-1)	Major-IV
CS-403	Domain Elective (Web Technologies)	3(2-1)	Major- V (DI)
CS-405	Information Security	3(2-1)	Major-VI
CS-305	Digital Logic and Design	3(2-1)	Major-VII
MA-105	Multivariable Calculus	3(3-0)	Inter disciplinary-II
	Total	18(14-4)	
SEMESTER-4			
BBA-401	Principal of Management	2(2-0)	General Education-X
ISL-302/ CSR-301	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-XI
PST-301	Ideology and Constitution of Pakistan	2(2-0)	General Education-XII
CS-402	Computer Networks	3(2-1)	Major-VIII
CS-406	Computer Organization and Assembly Language	3(2-1)	Major-IX

Course No.	Course Title	Credit Hours	Course Type
CS-410	Domain Elective (Mobile Application Development-I)	3(2-1)	Major- X (DII)
BINF-304	Probability and Biostatistics	3(3-0)	Inter disciplinary-III
	Total	18(15-3)	
SEMESTER-5			
CS-501	Analysis of Algorithms	3(3-0)	Major-XI
CS-503	Operating Systems	3(2-1)	Major-XII
CS-505	Domain Elective (Cyber Security)	3(2-1)	Major-XIII(DIII)
CS-507	Artificial Intelligence	3(2-1)	Major-XIV
CS-509	Computer Architecture	3(2-1)	Major-XV
MATH-401	Linear Algebra	3(3-0)	Inter disciplinary-IV
	Total	18(15-3)	
SEMESTER-6			
CS-502	Theory of Automata	3(3-0)	Major-XVI(CI)
CS-506	Domain Elective (Natural Language Processing)	3(2-1)	Major-XVII(DIV)
AI-508	Domain Elective (Machine Learning)	3(2-1)	Major-XVIII(DV)
CS-504	Advanced Database Management Systems	3(2-1)	Major-XIX(CII)
CS-512	Software Engineering	3(3-0)	Major-XX
BBA-402	Financial Accounting	3(3-0)	Inter disciplinary-V
	Total	18(17-1)	
Pre-Requisite for FYP Registration			
CSIT-303	Programming Fundamentals	4(3-1)	
CS-304	Object Oriented Programming	4(3-1)	
CS-401	Data Structures	4(3-1)	
CS-306	Database Systems	4(3-1)	
CS-512	Software Engineering	3(3-0)	
CS-503	Operating Systems	3(2-1)	
CS-Summer	Internship	3(0-3)	
SEMESTER-7			
CS-611	Professional Practices	2(2-0)	General Education-XIII
BBA-401	Entrepreneurship	2(2-0)	General Education-XIV
CS-601	Domain Elective (Data Science)	3(2-1)	Major-XXI(DVI)
CS-607	Compiler Construction	3(2-1)	Major-XXII(CIII)

Course No.	Course Title	Credit Hours	Course Type
CS-609	Domain Elective (Deep Learning)	(2-1)	Major-XXIII(DVII)
CS-605	Capstone Project	2(0-2)	Major-XXIV
	Total	15(11-4)	
SEMESTER-8			
CS-606	Parallel and Distributed Computing	3(2-1)	Major-XXV(CIV)
CS-608	Internship	3(0-3)	Major-XXVI
CS-604	HCI & Computer Graphics	3(2-1)	Major-XXVII(CV)
CS-602	Final Year Project- II	4(0-4)	Major-XXVIII
	Total	13(4-9)	
	Total Credits	132	

SCHEME OF STUDIES

BS ARTIFICIAL INTELLIGENCE DEGREE PROGRAM

Faculty of Biosciences

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
BIOC-301	Principles of Biochemistry	3(2-1)	General Education-II
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-III
UHQ-301	Understanding of Holy Quran-I/Fahm-e- Quran-I	1(0-1)	General Education-IV
GEN-303	General Genetics	3(2-1)	Major-II
GEN-305	Introductory Cell Biology	3(2-1)	Major-III
	Total	18	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-V
ISL-302/ CSR-302	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-VI
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VII
PST-301	Pakistan Studies	2(2-0)	General Education-VIII
UHQ-302	Understanding of Holy Quran-II/Fahm-e- Quran-II	1(0-1)	General Education-IX
GEN-302	Principles of Heredity	2(2-0)	Major-IV
BIOT-301	Introduction to Biotechnology	2(1-1)	Interdisciplinary-I
GEN-304	Principles of Genetics	3(2-1)	Major-V
	Total	18	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-X
MCC-402	History of Muslim Culture and Civilization	2(2-0)	General Education-XI
BBA-401	Entrepreneurship	2(2-0)	General Education-XII
GEN-401	Introductory Molecular Biology	3(2-1)	Major-VI
GEN-403	Biometry-I	3(2-1)	Major-VII
MICR-301	Fundamentals of Microbiology	3(2-1)	Interdisciplinary-II
ANBG-401	Introductory Population Genetics	3(3-1)	Interdisciplinary-III
	Total	18	
SEMESTER-4			
CSIT-301	Applications of Information and Communication Technologies	3(2-1)	General Education-XIII
EMV-402	Ethical & Moral Value in Society	2(2-0)	General Education-XIV
PST-402	Ideology and Constitution of Pakistan	2(2-0)	General Education-XV

Course No.	Course Title	Credit Hours	Course Type
GEN-402	Aquaculture Genetics	3(2-1)	Major-VIII
GEN-404	Physiological Genetics	3(2-1)	Major-XI
GEN-406	Introductory Cytogenetics	3(2-1)	Major-XII
GEN-408	Developmental Biology	2(1-1)	Major-XIII
	Total	18	
SEMESTER-5			
GEN-501	Genetics and Evolution	3(2-1)	Major-XIV
GEN-503	Nutrigenomics	3(2-1)	Major-XV
GEN-505	Microbial Genetics	3(2-1)	Major-XVI
GEN-507	Genetic Engineering	3(2-1)	Major-XVII
GEN-509	Human Genetics	3(2-1)	Major-XVIII
GEN-511	Genetic Disorders and inheritance	3(2-1)	Major-XIX
	Total	18	
SEMESTER-6			
GEN-502	Biometry-II	3(2-1)	Major-XX
GEN-504	Forensic Genetics	3(2-1)	Major-XXI
GEN-506	Biosafety and Bioethics in Genetics	3(2-1)	Major-XXII
GEN-508	Bioinformatics	3(3-0)	Major-XXIII
GEN-510	Developmental Genetics	3(2-1)	Major-XXIV
ANBG-402	Principles of Animal Breeding	3(2-1)	Interdisciplinary-IV
	Total	18	
SEMESTER-7			
GEN-601	Research Techniques	3(2-1)	Major-XXV
GEN-603	Genomics and Proteomics	3(2-1)	Major-XXVI
GEN-605	Report Writing	2(0-2)	Major-XXVII
GEN-607	Immunogenetics	3(2-1)	Major-XXVIII
GEN-609	Genetic Resources and Conservation	3(2-1)	Major-XXIX
EPPH-306	One Health	3(2-1)	Interdisciplinary-V
	Total	17	
SEMESTER-8			
GEN-602	*Internship/Field Experience	3(0-3)	Major-XXX
GEN-604	Capstone project	3(0-3)	Major-XXXI
	Total Credits	131	

SCHEME OF STUDIES

BS INFORMATION TECHNOLOGY DEGREE PROGRAM

Faculty of Biosciences

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
PHYS-301	Applied Physics	3(3-0)	General Education-II
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-III
CS-301	Applications of Information and Communication Technologies	3(2-1)	General Education-IV
UHQ-301 / ETH-301	Understanding of Holy Quran- I/Ethics-I	1(1-0)	General Education-V
CS-303	Programming Fundamentals	4(3-1)	Major-I
	Total	17(14-3)	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-VI
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VII
UHQ-302 / ETH-302	Understanding of Holy Quran- II / Ethics-II	1(1-0)	General Education-VIII
CS-306	Database Systems	4(3-1)	Major-II
CS-304	Object-Oriented Programming	4(3-1)	Major-III
BBA-502	Business Research Methods	3(3-0)	Inter disciplinary-I
	Total	18(16-2)	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-IX
CS-401	Data Structures and Algorithms	4(3-1)	Major-IV
CS-403	Domain Elective (Web Technologies)	3(2-1)	Major-V (DI)
CS-405	Information Security	3(2-1)	Major-VI
CSIT-305	Digital Logic and Design	3(2-1)	Major-VII
MA-105	Multivariable Calculus	3(3-0)	Inter disciplinary-II
	Total	18(14-4)	
SEMESTER-4			
BBA-302	Principal of Management	2(2-0)	General Education-X
ISL-301/CSR- 301	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-XI
PST-301	Ideology and Constitution of Pakistan	2(2-0)	General Education-XII
CS-402	Computer Networks	3(2-1)	Major-VIII
CS-406	Computer Organization and Assembly Language	3(2-1)	Major-IX

Course No.	Course Title	Credit Hours	Course Type
CS-410	Domain Elective (Mobile Application Development-I)	3(2-1)	Major-X (DII)
BNF-304	Probability and Biostatistics	3(3-0)	Inter disciplinary-III
	Total	18(15-3)	
SEMESTER-5			
CS-501	Design and Analysis of Algorithms	3(3-0)	Major-XI
CS-503	Operating Systems	3(2-1)	Major-XII
CS-505	Domain Elective (Cyber Security)	3(2-1)	Major-XIII (DIII)
CS-507	Artificial Intelligence	3(2-1)	Major-XIV
BBA-507	E Commerce	3(3-0)	Inter disciplinary-IV
MATH-401	Linear Algebra	3(3-0)	Inter disciplinary-V
	Total	18 (16-2)	
SEMESTER-6			
IT-502	Database Administration & Management	3(2-1)	Major-XV (CI)
CS-506	Domain Elective (Natural Language Processing)	3(2-1)	Major-XVI (DIV)
IT-506	Domain Elective (Software Project Management)	3(3-0)	Major-XVII(DV)
IT-504	System & Network Administration	3(2-1)	Major-XVIII(CII)
CS-512	Software Engineering	3(3-0)	Major-XIX
BBA-402	Financial Accounting	3(3-0)	Inter disciplinary-VI
	Total	18(16-2)	
Pre Req for FYP Registration			
CSIT-303	Programming Fundamentals	4(3-1)	
CS-304	Object Oriented Programming	4(3-1)	
CS-401	Data Structures	4(3-1)	
CS-306	Database Systems	4(3-1)	
CS-512	Software Engineering	3(3-0)	
CS-503	Operating Systems	3(2-1)	
SEMESTER-7			
CS-611	Professional Practices	2(2-0)	General Education-XIII
BBA-401	Entrepreneurship	2(2-0)	General Education-XIV
IT-605	Domain Elective (Software Testing)	3(3-0)	Major-XX(DVI)
IT-601	Internet of Things	3(3-0)	Major-XXI (CIII)
IT-603	Domain Elective (Wireless Communication)	3(3-0)	Major- XXII(DVII)
CS-605	Final Year Project - I	2(0-2)	Major-XXIII

Course No.	Course Title	Credit Hours	Course Type
	Total	15(13-2)	
SEMESTER-8			
IT-604	Software Defined Networking	3(3-0)	Major-XXIV (CIV)
IT-608	Internship	3(0-3)	Major-XXV
IT-602	Information Technology Infrastructure	3(2-1)	Major-XXVI (CV)
CS-602	Final Year Project- II	4(0-4)	Major-XXVII
	Total	13(5-8)	
	Total Credits	132	

SCHEME OF STUDIES

BS FOOD SCIENCE & TECHNOLOGY DEGREE PROGRAM

Faculty of Biosciences

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-II
BIOC-301	Principles of Biochemistry	3(2-1)	General Education-III
UHQ301/ ETHC-301	Understanding of Holy Quran/Ethics-I	1(0-1)	General Education- IV
FSAT-301	Introduction to Food Science and Technology	3(2-1)	Major-I
FSAT-303	Food Laws and Regulations	2(2-0)	Major-II
AGRI-301	Basics of Agriculture	3(3-0)	Interdisciplinary-I
	Total	18(15-3)	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education- V
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VI
ISL-302/ CSR-302	Islamic Studies/Comparative Study of Religion	2(2-0)	General Education-VII
UHQ302/ ETHC-302	Understanding of Holy Quran/Ethics-II	1(0-1)	General Education- VIII
PST-301	Pakistan Studies	2(2-0)	General Education-IX
FSAT-302	Food Processing and Preservation	3(2-1)	Major-III
FSAT-304	Principles of Human Nutrition	2(2-0)	Major-IV
	Total	16(14-2)	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-X
CSIT-301	Applications of Information and Communication Technologies	3(2-1)	General Education-XI
BBA-401	Entrepreneurship	2(2-0)	General Education-XII
MICR-503	Food and Dairy Microbiology	3(2-1)	Interdisciplinary-II
MSTC-302	Introduction to Meat Science and Technology	3(2-1)	Interdisciplinary-III
CHEM-403	Food Chemistry	3(3-0)	Interdisciplinary-IV
	Total	16(13-3)	
SEMESTER-4			
MCC-402	History of Muslim Culture and Civilization	2(2-0)	General Education-XIII
EMV-402	Ethical & Moral Value in Society	2(2-0)	General Education-XIV
PST-402	Ideology and Constitution of Pakistan	2(2-0)	General Education-XV
FSAT-402	Food Analysis	3(1-2)	Major-V

Course No.	Course Title	Credit Hours	Course Type
FSAT-404	Fundamentals of Food Systems	3(3-0)	Major-VI
BIOC-504	Biochemical Techniques	3(1-2)	Interdisciplinary-V
BIOC-605	Biotechnology	3(2-1)	Interdisciplinary-VI
	Total	18(13-5)	
SEMESTER-5			
FSAT-501	Food of Plant and Animal Origin	3(2-1)	Major-VII
FSAT-503	Unit Operations in Food Industry	3(3-0)	Major-VIII
FSAT-505	Food Service and Hospitality Management	3(2-1)	Major-IX
FSAT-507	Fruits and Vegetables Processing	3(2-1)	Major-X
FSAT-509	Food Quality Management	3(3-0)	Major-XI
FSAT-511	Bakery Products Technology	3(2-1)	
	Total	18(14-4)	
SEMESTER-6			
FSAT-502	Food Process Engineering	3(2-1)	Major-XII
FSAT-504	Postharvest Technology	3(2-1)	Major-XIII
FSAT-506	Technology of Fats and Oils	3(2-1)	Major-XIV
FSAT-508 FSAT-510	Confectionary and Snack Foods or Extrusion Technology	3(2-1)	Major-Elective- I
FSAT-512	Beverage Technology	3(2-1)	Major-XV
FSAT-514	Cereal Technology	3(2-1)	Major-XVI
	Total	18(12-6)	
SEMESTER-7			
FSAT-601	Dairy Technology	3(2-1)	Major-XVII
FSAT-603	Poultry, Eggs and Sea Foods Processing	3(2-1)	Major-XVIII
FSAT-605	Food Plant Layout and Sanitation	3(3-0)	Major-XIX
FSAT-607	Sugar Technology	3(2-1)	Major-XX
FSAT-609 FSAT-611	Additives in the Food Industry or Functional Foods and Nutraceuticals	3(3-0)	Major-Elective- II
FSAT-613	Food Safety and Toxicology	3(3-0)	Major-XXII
	Total	18(15-3)	
SEMESTER-8			
FSAT-602	Food Packaging	3(2-1)	Major-XXIII
FSAT-604	Fermentation Technology	2(1-1)	Major-XXIV
FSAT-606	Food Product Development and Sensory Acceptability or	3(2-1)	Major-Elective- III

Course No.	Course Title	Credit Hours	Course Type
FSAT 608	Management of Food Chains and Value Addition		
FSAT-610 FSAT-612	Food Industrial Waste Management or Global Food Issues	2(2-0)	Major-Elective- IV
FSAT-614	Research Project and Scientific Writing	2(2-0)	Major-XXV
FSAT-616	*Internship/Field Experience	3(0-3)	Major-XXVI
FSAT-618	Capstone Project	3(0-3)	Major-XXVII
	Total	18(9-9)	
	Total Credits	138	

SCHEME OF STUDIES

BS HUMAN NUTRITION AND DIETETICS DEGREE PROGRAM

Faculty of Biosciences

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-II
BIOC-301	Principles of Biochemistry	3(2-1)	General Education-III
HND-301	Fundamentals of Human Nutrition	3(3-0)	Major-I
UHQ301/ ETHC-301	Understanding of Holy Quran/Ethics	1(0-1)	General Education- IV
FSAT-304	Principles of Human Nutrition	2(2-0)	Interdisciplinary-I
FSAT-301	Introduction to Food Science and Technology	3(2-1)	Interdisciplinary-II
	Total	18(15-3)	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education- V
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VI
ISL-302/ CSR-302	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-VII
UHQ302/ ETHC-302	Understanding of Holy Quran/Ethics	1(0-1)	General Education- VIII
PST—301	Pakistan Studies	2(2-0)	General Education-IX
HND-302	Micronutrients in Human Nutrition	3(3-0)	Major- II
HND-304	Macronutrients in Human Nutrition	3(3-0)	Major-III
	Total	17(16-1)	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-X
CSIT-301	Applications of Information and Communication Technologies	3(2-1)	General Education-XI
BBA-401	Entrepreneurship	2(2-0)	General Education-XII
HND-401	Food nutrition and safety	3(3-0)	Major-IV
HND-403	Fundamentals of Molecular Nutraceutical	3(2-1)	Major-V
HND-405	Nutritional deficiency disorders	3(3-0)	Major-VI
	Total	16 (14-2)	
SEMESTER-4			
MCC-402	History of Muslim Culture and Civilization	2(2-0)	General Education-XIII
EMV-402	Ethical & Moral Value in Society	2(2-0)	General Education-XIV
PST-402	Ideology and Constitution of Pakistan	2(2-0)	General Education-XV
HND-402	Assessment of nutritional status	3(2-1)	Major-VII

Course No.	Course Title	Credit Hours	Course Type
HND-404	Development of molecular nutraceuticals	3(2-1)	Major- VIII
PHRM-403	General Pharmacology and Toxicology	3(2-1)	Interdisciplinary- III
PHYS-501	Human Physiology	3(2-1)	Interdisciplinary- IV
	Total	18(14-4)	
SEMESTER-5			
HND-501	Dietetics-I	3(2-1)	Major-IX
HND-503	Nutritional significance of plant products	3(2-1)	Major-X
HND-505	Food Supplements	3(3-0)	Major-XI
FSAT-505	Food Quality Management	3(3-0)	Major-XII
HND-507	Drug-Nutrient Interactions	3(3-0)	Major-XIII
	Total	15(13-2)	
SEMESTER-6			
HND-502	Preventive Nutrition	3(3-0)	Major-XIV
FSAT-502	Technology of Fats and Oils	3(2-1)	Major-XV
BIOC-506	Clinical Biochemistry	3(2-1)	Interdisciplinary-V
FSAT-605	Functional Foods and Nutraceuticals	3(3-0)	Major-XVI
HND-504	Dietetics-II	3(2-1)	Major-XVII
HND-506	Food Toxins & Allergens	3(3-0)	Major-XVIII
	Total	18(15-3)	
SEMESTER-7			
HND-601	Research Methods in Nutrition	3(1-2)	Major- XIX
HND-603	Dietetics-III	3(2-1)	Major- XX
HND-605	Nutrition Through the Life Cycle	3(3-0)	Major- XXI
HND-607	Global nutrition policies and public health	3(3-0)	Major-XXII
FSAT-609	Food Laws and Regulations	2(2-0)	Major-XXIII
FSAT-611	Food Safety and Toxicology	3(3-0)	Major- XXIV
	Total	17(14-3)	
SEMESTER-8			
HND-602	Research Project and Scientific Writing	2(2-0)	Major-XXV
HND-604	*Internship/Field Experience	3(0-3)	Major-XXVI
HND-606	Capstone Project	3(0-3)	Major-XXVII
FSAT-608 FSAT-610	Food Industrial Waste Management or Global Food Issues	2(2-0)	Major-XXVIII

Course No.	Course Title	Credit Hours	Course Type
Elective			
HND-608	Meal Planning and Management	3(2-1)	Major-Elective-I
HND-610	Disease prevention through nutrition	2(1-1)	Major-Elective-II
HND-612	Genetically Modified Foods and Food Diversification	2(2-0)	Major-Elective-III
	Total	17(9-8)	
	Total Credits	134	

SCHEME OF STUDIES
BS ZOOLOGY DEGREE PROGRAM

Faculty of Biosciences

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
GEOG-301	Geography	3(2-1)	General Education-II
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-III
UHQ-301/ ETHC-301	Understanding of Holy Quran-I	1(0-1)	General Education-IV
BOT-301	Diversity of Plants	3(2-1)	Interdisciplinary-I
ZOOL-301	Diversity of Invertebrate	3(2-1)	Major-I
	Total	16	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-V
ISL-301/ CSR-301	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-VI
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VII
UHQ-302/ ETHC-302	Understanding of Holy Quran-II	1(0-1)	General Education-VIII
PST-301	Pak Studies	2(2-0)	General Education-IX
ZOOL-302	Diversity of Chordates	3(2-1)	Major-II
BOT-302	Plant Physiology & Ecology	3(2-1)	Interdisciplinary-II
	Total	17	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-X
CSIT-301	Applications of Information and Communication Technologies	3(2-1)	General Education-XI
BBA-401	Entrepreneurship	2(2-0)	General Education-XII
CHEM-301*	Basic Chemistry	3(2-1)	Interdisciplinary-III
ZOOL-401	Animal Form and Function-1 (Comparative Anatomy)	3(2-1)	Major-III
ZOOL-403	Animal Behavior	3(3-0)	Major-IV
	Total	16	
SEMESTER-4			
EMV-402	Ethical & Moral Value in Society	2(2-0)	General
PST-401	Ideology and Constitution of Pakistan	2(2-0)	General Education-XIV
MCC-401	History of Muslim Culture and Civilization	2(2-0)	General Education-XV
ZOOL-402	Evolution	3(3-0)	Major V

Course No.	Course Title	Credit Hours	Course Type
ZOOL-404	Animal Form and Function-II (Comparative Physiology)	3(2-1)	Major VI
ZOOL-406	Cell Biology	3(2-1)	Major-VII
ZOOL-408	Animal Ecology	3(2-1)	Major-VIII
	Total	18	
SEMESTER-5			
ZOOL-501	Marine Biology	3(3-0)	Major-IX
ZOOL-503	Principles of systematics	3(2-1)	Major-X
ZOOL-505	Developmental Biology	3(2-1)	Major-XI
GEN-303	Principles/General Genetics	3(2-1)	Interdisciplinary IV
BIOC-XXX	Principles of Biochemistry	3(2-1)	Interdisciplinary-V
ZOOL-507	Entomology	3(2-1)	Major-XII
	Total	18	
SEMESTER-6			
ZOOL-502	Fisheries and Aquaculture	3(2-1)	Major-XIII
STAT-XXX	Biostatistics	3(2-1)	Interdisciplinary-VI
ZOOL-504	Zoogeography and Paleontology	3(2-1)	Major-XIV
ZOOL-506	Herpetology	3(2-1)	Major-XV
ZOOL-508	Molecular Biology	3(2-1)	Major X-VI
GEN-508	Bioinformatics	3(2-1)	Interdisciplinary-VII
	Total	18	
SEMESTER-7			
ZOOL-601	Wildlife Conservation & Management	3(2-1)	Major-XVII
ZOOL-603	Research Methodologies & Bioethics	3(2-1)	Major-XVIII
ZOOL-605	Economic Zoology	3(3-0)	Major-XIX
ZOOL-607	Ornithology	3(2-1)	Major-XX
ZOOL-609	Animal Physiology & Endocrinology	3(2-1)	Major-XXI
MICR-XXX	Microbiology & Immunology	3(2-1)	Interdisciplinary-VIII
	Total	18	
SEMESTER-8			
ZOOL-602	Mammalogy	3(2-1)	Major-XXII
ZOOL-XXX	Uni. option	3(2-1)	Major-XXIII
ZOOL-XXX	Uni. option	3(2-1)	Major-XXIV
CSIT-XXX	Computational Biology	3(2-1)	Interdisciplinary-IX

Course No.	Course Title	Credit Hours	Course Type
ZOOL-612	Capstone	3(0-3)	Capstone
	Total	15	
	Total Credits	132	

SCHEME OF STUDIES

BACHELOR OF BUSINESS ADMINISTRATION DEGREE PROGRAM

Cholistan Institute of Business Administration (CIBA)

Cholistan University of Veterinary and Animal Sciences Bahawalpur

Course No.	Course Title	Credit Hours	Course Type
SEMESTER-1			
ENG-301	Functional English	3(3-0)	General Education-I
QRG-301	Quantitative Reasoning-I	3(3-0)	General Education-II
BOT-509	Biodiversity and Conservation	3(2-1)	General Education-III
UHQ-301 /ETH- 301	Understanding Holy Quran-I / Ethics-I	1(0-1)	General Education-IV
BBA-301	Introduction to Business	2(2-0)	Major-I
SOC-301	Introduction to Sociology	3(3-0)	Interdisciplinary-I
BBA-303	Principle of Accounting	3(3-0)	Major-II
	Total	18(16-2)	
SEMESTER-2			
ENG-302	Expository Writing	3(3-0)	General Education-V
QRG-302	Quantitative Reasoning-II	3(3-0)	General Education-VI
ISL-302/ CSR-302	Islamic Studies/ Comparative Study of Religion	2(2-0)	General Education-VII
PST-301	Pakistan Studies	2(2-0)	General Education VIII
UHQ-302/ ETH- 302	Understanding Holy Quran-II / Ethics-II	1(0-1)	General Education-IX
PSY-302	Introduction to Psychology	3(3-0)	Interdisciplinary-II
BBA-302	Principles of Management	3(3-0)	Major-III
	Total	17(16-1)	
SEMESTER-3			
CCE-401	Civics and Community Engagement	2(2-0)	General Education-X
CSIT-301	Applications of Information and Communication Technologies	3(2-1)	General Education-XI
BBA-401	Entrepreneurship	2(2-0)	General Education-XII
BBA-403	Principles of Marketing	3(3-0)	Major-IV
BBA-405	Micro Economics	3(3-0)	Major-V
BBA-407	Business Finance	3(3-0)	Major-VI
	Total	16(15-1)	
SEMESTER-4			
MCC-402	History of Muslim Culture and Civilization	2(2-0)	General Education- XIII
EMV-402	Ethical & Moral Value in Society	2(2-0)	General Education- XIV

Course No.	Course Title	Credit Hours	Course Type
PST-402	Ideology and Constitution of Pakistan	2(2-0)	General Education-XV
BBA-402	Financial Accounting	3(3-0)	Major-VII
BBA-404	Principle of Islamic Banking and Finance	3(3-0)	Major-VIII
BBA-406	Human Resource Management	3(3-0)	Major-IX
PAD-402	Introduction to Public Administration	3(3-0)	Interdisciplinary-III
	Total	18(18-0)	
SEMESTER-5			
BBA-501	Macro Economics	3(3-0)	Major-X
BBA-503	Consumer Behavior	3(3-0)	Major-XI
BBA-505	Total Quality Management	3(3-0)	Major-XII
BBA-507	E-Commerce	3(2-1)	Major-XIII
BBA-509	Business Law	3(3-0)	Major-XIV
BBA-511	Money and Banking	3(3-0)	Major-XV
	Total	18(18-0)	
SEMESTER-6			
BBA-502	Business Research Methods	3(3-0)	Major-XVI
BBA-504	Financial Management	3(3-0)	Major-XVII
BBA-506	Organizational Behavior	3(3-0)	Major-XVIII
BBA-508	Cost Accounting	3(3-0)	Major-XIX
BBA-510	International Business	3(3-0)	Major-XX
BBA-512	Marketing Management	3(3-0)	Major-XXI
	Total	18(18-0)	
SEMESTER-7			
BBA-601	Management Information System	3(3-0)	Major-XXII
BBA-603	Financial Institutions & Markets	3(3-0)	Major-XXIII
BBA-605	Operations Management	3(3-0)	Major-XXIV
BBA-6XX	Elective-I	3(3-0)	Major Elective-I
BBA-6XX	Elective-II	3(3-0)	Major Elective-II
	Total	15(15-0)	
SEMESTER-8			
BBA-602	Business Policy	3(3-0)	Major-XXV
SOC-602	Personal and Professional Development	3(3-0)	Interdisciplinary-IV
BBA-604	Capstone Project	3(3-0)	Compulsory

Course No.	Course Title	Credit Hours	Course Type
BBA-606	Internship/Field Experience	3(3-0)	Compulsory
BBA-6XX	Elective III	3(3-0)	Major Elective-III
BBA-6XX	Elective IV	3(3-0)	Major Elective-
	Total	18(18-0)	
	Total Credits	138	

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Mr. Farhan Ali

Editor & Designer, CUVAS

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