

# THE UNIVERSITY OF LARKANO



# PROSPECTUS 2024

Bachelor's Degree Programs 2024

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PROSPECTUS 2024

THE UNIVERSITY OF LARKANO

## ACKNOWLEDGMENT

The Prospectus showcases our current students in all the photographs. We are grateful for their participation and would like to express our thanks to them.



## DISCLAIMER

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<https://uolrk.edu.pk/admission/>

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# THE UNIVERSITY OF LARKANO

## PROSPECTUS-2024

For Undergraduate Degree Programs  
in Engineering & Technology,  
Social Sciences & Humanities, Agriculture and Law

# PROSPECTUS 2024-25

## CONVENER PROSPECTUS

Engr. Dr Syed Abid Ali Shah

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## PUBLISHER:

**REGISTRAR: THE UNIVERSITY OF LARKANO**

## ABOUT

- New established University
- 40+PhD qualified faculty
- Accredited by Pakistan Engineering Council (PEC), Islamabad.
- Recognised by HEC Islamabad.
- Foreign qualified, dedicated & experienced full-time faculty.
- State-of-the-art laboratories

## VISION

“To provide innovative and interdisciplinary education, research, and outreach programs that address global challenges and contribute to the sustainable development of society.”

## MISSION

“Our mission is to be the world’s leading university for students aspiring to succeed in engineering & technology, agriculture, science and law professions, where original research enterprise and inspiring teaching, deliver local and global impact.



# BACKGROUND HISTORY OF THE UNIVERSITY

The University of Larkano traces its origins back to 2009 when it was first established as the Engineering College of Larkano. Founded with a vision to impart quality education in engineering disciplines, the college quickly gained recognition for its rigorous academic programs and state-of-the-art facilities.

Over the years, driven by a commitment to academic excellence and responding to the evolving needs of the region, the institution expanded its offerings and infrastructure. In 2021, the campus underwent a significant transformation, broadening its scope to include a wider range of disciplines beyond engineering. This marked a pivotal moment in its journey towards becoming a comprehensive educational institution.

Recognizing the importance of interdisciplinary education and holistic development, the institution further evolved into a full-fledged university, known as the University of Larkano. This transition was characterized by the integration of diverse faculties, each dedicated to advancing knowledge and addressing societal challenges through specialized education and research.

Today, the University of Larkano stands as a testament to continuous growth and innovation in higher education. Through the merger of four distinct faculties—Engineering & Technology, Social Sciences & Humanities, Agriculture, and Law—the university offers a robust academic framework that caters to a wide spectrum of interests and career aspirations.

The merger of these faculties underscores the university's commitment to interdisciplinary collaboration and comprehensive learning experiences. Students at the University of Larkano benefit from a rich academic environment, cutting-edge research opportunities, and a supportive community that fosters intellectual curiosity and personal growth.

As we look towards the future, the University of Larkano remains dedicated to shaping well-rounded individuals equipped with the knowledge, skills, and values to excel in their chosen fields and contribute meaningfully to society. With a proud history of

academic achievement and a forward-thinking vision, we continue to uphold our commitment to excellence and innovation in education. Currently it offers undergraduate admissions in the following programs at the morning sessions in the given campuses:

## Faculty of Engineering & Technology

### Old QUEST Larkana Building

- Civil Engineering
- Electrical Engineering
- Electronics Engineering
- Mechanical Engineering

## Faculty of Social Sciences & Humanities

### Old Sindh University Campus Larkana Building

- BBA & MBA
- BS (English Language & Literature)
- MA English / BS 3rd Year (English Language & Literature)
- BS (Computer Science)

## Faculty of Agriculture Science

### SZAB Agri. College Dokri Campus

B. Sc. (Hons) in Agriculture

## Faculty of Law

### Old SMB Law College Larkana Building

- LLB

Together, we build on our foundation of success and embark on a journey of continued growth and accomplishment, setting new benchmarks in higher education and making a positive impact on the world.

# THE UNIVERSITY OF LARKANO

## ACADEMIC CALENDAR 2024-25

Minimum attendance requirements to be eligible to appear in the Semester Examination is 75%.  
Minimum number of lectures during semester in a subject of 3CH shall be 45.  
Minimum number of contact hours for a practical of 1CH per semester is 45.

### SEMESTER SYSTEM

Batch & Semester	1st Semester (First Year)	2 <sup>nd</sup> Semester (First Year)	Winter Vacation	Summer Vacation with Summer Semester
Date of start of classes	23.09.2024	03.02.2025	02 weeks 20 <sup>th</sup> January to 2 <sup>nd</sup> February 2025	08 weeks 1 <sup>st</sup> June to 31 <sup>st</sup> July 2025
Conduct of Mid semester Exams	04.11.2024	07.04.2025		
Date of Suspension of Classes	23.12.2024	02.05.2025		
Schedule of Examination	24.12.2024	03.05.2025		
Display of Sessional Marks	24.12.2024	03.05.2025		
Examination preparation up to	01.01.2025	10.05.2025		
Conduct of Final Semester Examination	02.01.2025	11.05.2025		
Announcement of Result (Expected)	03.02.2025	15.06.2025		

Pre-Admission Test (24 Batch) in 2<sup>nd</sup> week of September, 2024

Start of new session (24 Batch) on 23.09 2024

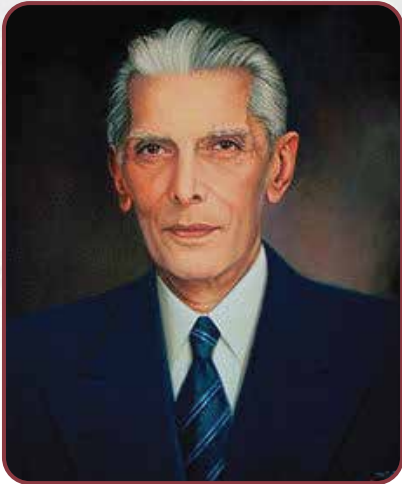
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## QUAID'S MESSAGE



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QUAID-E-AZAM  
MUHAMMAD ALI JINNAH

**The Founder of Pakistan**

“My young friends, I look forward to you as the real makers of Pakistan, do not be exploited and do not be misled. Create amongst yourselves complete unity and solidarity. Set an example of what youth can do. Your main occupation should be in fairness to yourself, to your parents, in fairness to the State, to devote your attention to your studies. If you fritter away your energies now, you will always regret. Pakistan is proud of its youth, particularly the students, who are nation builders of tomorrow. They must fully equip themselves by discipline, education, and training for the arduous task lying ahead of them.

I particularly appeal to our intelligentsia and students to come forward and rise to the occasion. You have performed wonders in the past. You are still capable of repeating the history. You are not lacking in the great qualities and virtues in comparison with the other nations. Only you have to be fully conscious of that fact and to act with courage, faith and unity.”

## VICE CHANCELLOR'S MESSAGE

I am delighted to extend a warm welcome to you on behalf of the University of Larkano, a pioneering institution formed through the merger of four distinguished faculties: Engineering & Technology, Social Sciences & Humanities, Agriculture, and Law. This union represents a bold step towards holistic education, offering a diverse range of academic disciplines under one roof.

At the University of Larkano, we are committed to excellence in education and research across multiple fields. Our integrated approach enables us to provide comprehensive undergraduate programs that blend theoretical knowledge with practical skills, preparing you to tackle real-world challenges with confidence and innovation.

Whether your passion lies in designing cutting-edge technologies, exploring the complexities of human behavior, nurturing sustainable agricultural practices, or upholding justice and equality through the law, our faculty members are dedicated to supporting your academic journey and empowering you to achieve your aspirations.

As Vice Chancellor, I take pride in our university's commitment to fostering a culture of intellectual curiosity, critical thinking, and ethical leadership. Our state-of-the-art facilities, world-class faculty around 40+ PhD Faculty, and vibrant campus community create an environment where learning transcends boundaries and where each student is encouraged to explore their potential to the fullest.

I invite you to join us at the University of Larkano and embark on a transformative educational experience that will not only shape your future but also empower you to make a positive impact on society. Together, let us build a future where knowledge meets innovation, diversity sparks creativity, and education becomes a catalyst for positive change.

I look forward to welcoming you to our university community and witnessing your growth and success as part of the Class of 2024.



“ PROF. DR. MUHAMMAD  
USMAN KEERIO

**Vice Chancellor**

## PROFILE



**DR. SAMIULLAH SOHU**

Dean: Faculty of Engineering &  
Technology

Dr. Samiullah Sohu is working as Dean (Faculty of Engineering & Technology) at the University of Larkano . He completed his Bachelor's degree in Civil Engineering from the Quaid-e-Awam University of Engineering, Science & Technology (QUEST), Nawabshah. He earned his master's in Construction Engineering Management from the Mehran University of Engineering and Technology (MUET), Jamshoro and his PhD degree in Construction Management from the Universiti Tun Hussein Onn Malaysia(UTHM), Malaysia.

At present, Dr. Sohu is working as an Associate Professor, Head of the Civil Engineering Department, and Acting Dean for the Faculty of Engineering and Technology, The University of Larkano.

Dr. Sohu has a very strong organizational and research background, he worked in renowned organizations of the country. He is also an active researcher and published more than 60 research articles in national and international peer-reviewed journals. He also has been collaborating with foreign researchers on research in the field of construction management and for better performance of the construction industry.

## PROFILE



“

**DR.SULTAN MAITLO**

Dean: Faculty of Agriculture  
Science

Dr.Sultan Maitlo was born on 3rd August, 1968 in a Village, Ahmed Maitlo, Taluka, Dokri, District Larkana Sindh Pakistan. He received the Degrees, B.Sc. (Hons) in Agriculture in 1993, M.Sc. (Hons) in Agriculture in 1994 and Ph.D. in Plant Pathology, from Sindh Agriculture University, Tandojam in 2016. Dr.Maitlo is working as Professor & Pioneer Dean, Faculty of Agriculture Science, University of Larkano. His research interest in Disease Epideomology and Plant Disease Management. He has more than 60 Research Publications in National and International Journals. He has also attended more than 15 National and International Conferences and presented research papers.

Dr.Maitlo remained active member of Phytopathological Society of Pakistan, Pakistan Botanical Society and Pakistan Nematological Society.

## PROFILE



**PROF. DR. FAIZ  
MUHAMMAD SHAIKH**

Focal Person  
Faculty of Social Sciences &  
Humanities

Dr. Faiz Muhammad Shaikh is born on 1969 in Village Bichanji, District Shikarpur-Sindh, Pakistan. Dr. Shaikh has done B.Sc. (Agri.) Hons: and MSc (Agri) Hons: in Agri: Economics from Sindh Agriculture University Tando jam, MBA-from IBA-Sukkur-(Affiliated to IBA-Karachi), PGD from Sydney Australia and PhD in Economics (International Trade) from University of Sindh Jamshoro. Dr. Shaikh served more than 30 years. He has published more than 315 Research Papers/International and national Conference proceedings which includes 97 Research Papers published in various national and International Journals, 190 international Conference Proceedings, 8 national conference proceedings and more than 120 HEC recognized research papers having more than 80 Impact Factor. Papers Published in various journals i.e Journals including Australian Journal of Business Management Research (AJBMR) Journal of Business Management (IJBM) Canada, Asian Social Sciences Canada, Journal of Applied Modern Sciences (Index by Scopus), Asian Journal of History Canada, International Journal of Marketing Studies Canada, International Journal of Economics and Finance Canada, International Journal of Business Research Journal of Agriculture Sciences. Journal of Sustainable Development Canada, Journal of Business Strategies, Research Journal of Faculty of Social Sciences. Dr. Shaikh has been awarded several Travel grants from HEC for oral presentations in USA, Malaysia, Thailand and UK. Dr. Shaikh has received Seven Best Paper Awards from USA, Australia, Malaysia and UK. He was awarded best paper award on Sustainable Rural Development and its Impact on Development of Rural Sindh- contributed in Maui International Applied Business Research Conference held on January 3-5, 2011 at Sheraton Maui resort & Spa in Maui, Hawaii USA.



DR. JUNAID IQBAL  
BHATTI

Director QEC

## PROFILE

Dr. Junaid Iqbal Bhatti is an Associate Professor in the Department of Mechanical Engineering and currently serves as the Director of the Quality Enhancement Cell at The University of Larkano. He earned his Bachelor's Degree in Mechanical Engineering from QUEST, Nawabshah, in 2009, graduated with 1st position and received a Silver Medal. In 2018, he completed his MS leading to a PhD in Mechatronics Engineering from Hanyang University, South Korea. Dr. Bhatti's research interests include Advanced Vehicle Dynamics & Control and AI-Assisted Control Systems for Robots. He has authored over 17 papers in international journals. Additionally, Dr. Bhatti has previously held the position of Chairman of the Mechanical Engineering Department.

## Quality Enhancement Cell (QEC)

A Quality Enhancement Cell (QEC) in a university is responsible for ensuring and improving the quality of education and research within the institution. Its primary duties include the development and implementation of quality assurance policies, the establishment of benchmarks for academic and administrative standards, and the continuous monitoring and evaluation of academic programs. The QEC collaborates with various departments to promote a culture of continuous improvement, facilitates the accreditation process, and ensures compliance with Quality Assurance Agency (QAA) of Higher Education Commission (HEC). It also organizes training and development programs for faculty and staff, collects and analyzes feedback from stakeholders, and prepares comprehensive reports to guide strategic planning and decision-making processes.



**DR TOUFIQUE AHMED  
SOOMRO**

Director, ORIC

## ORIC

The Office of Research, Innovation, and Commercialization (ORIC) at The University of Lahore (UOL), Larkana, represents a fundamental step in fostering a robust research culture among students, faculty, departments, and institutes. ORIC incentivizes research by encouraging faculty and students to generate intellectual properties, innovate through research, and commercialize products for national benefit. We aim to build a trustworthy bridge between the university and industries. Leading educational institutes requires passionate commitment and deep research expertise in today's competitive environment. Our faculty and departments continuously strive to enhance their teaching standards and research quality, making our students valuable members of society.

**VISION:** To serve humanity as a dynamic and competitive research and development centre at national and international levels.

**Mission:** To provide quality research and promote scholarship with a commitment to humanity, support innovation, inculcate creativity while upholding moral values, and promote sustainable development.

**Aims:**

1. Enabling research
2. Capacity building
3. Faculty development through increased national and international exposure
4. Student quality enrichment
5. Setting research directions and student counselling
6. Curriculum improvements based on research

## OFFICERS OF THE UNIVERSITY

The following are the main officers of the University, responsible for overall Administration & Academic activities in the University.

Vice Chancellor

**DR. MUHAMMAD USMAN KEERIO**

Phone: +92 74 4056 791-3

Dean , Faculty of Engineering & Technology

**Dr. Samiullah Sohu**

Phone: 0333-7666383

Dean, Faculty of Agriculture Science

**Dr. Sultan Maitlo**

Phone: 0306-3482671

Focal Person, Faculty of Social Sciences & Humanities

**Dr. Faiz Muhammad Shaikh**

Phone: 0306-3610500

Registrar

**Rafique Ahmed Khoso**

Phone: 0305-3229393

Director Finance

**Mumtaz Ali Lashari**

Phone 0345-3852080

Resident Auditor

**Abdul Jabbar Tunio**

Phone: 0333-7537303

Secretary to VC

**Nasrullah Odhano**

Phone: 0333-7582333

Public Relation Officer (PRO)

**Khalil Jibran Abbasi**

Phone: 0300-3428707

Controller of Examinations

**Dr. Aneela Pathan**

Phone: 0314-7737124

Chairman Admissions

**Prof Muhammad Urs Shaikh**

Phone: 0333- 7565595

Provost Hostels

**Dr. Abdul Hameed Soomro**

Phone: 0333-3053227

Chief Security Officer

**Wajahat Makani**

Phone: 0306-3498805

I.T Specialist

**Muhammad Juman**

Phone: 0302-3016646

Librarian

**Muhammad Qabil Mugheri**

Phone: 0336-0843497



# FACULTY OF ENGINEERING & TECHNOLOGY



# DEPARTMENT OF ELECTRICAL ENGINEERING

## Engr Dr. Syed Abid Ali Shah Chairman

Syed Abid Ali Shah was born in 31 October 1983 in Sukkur Sindh Pakistan. He received the B.E degree in electrical engineering from Quaid-e-Awam University Nawabshah Pakistan in 2009 and the M.E degree in electrical power engineering from Mehran University Jamshoro Pakistan in 2015, and the PhD degree from Aston University Birmingham United Kingdom in 2019. Dr. Abid shah has successfully completed the Associate Fellowship from Higher education academy UK. He is working as a Chairman and Associate Professor in Electrical Engineering Department the University of Larkano. His research interests include the design and optimization of electrical machines and drives and analyzing especial machines, Environmental protection, Climate Action. He is a HEC Recognized Supervisor and Head of Power & Energy Society. He has more than 50 research publications (International Journals, Conferences and Book Chapters). He is a registered engineer of Pakistan Engineering Council and member of IEEE and IET of UK and Ireland section.



### INTRODUCTION:

The Department of Electrical Engineering, Faculty of Engineering the University of Larkano offers a highly reputable Undergraduate Bachelor Degree program B.E (Electrical) spinning over four years and Post graduate Degree programs and undertakes world class research.

The Electrical Engineering curriculum is prepared in accordance with the most recent HEC guidelines. Electrical engineering is a field date usually deals with the study and application of electricity, power Engineering, and electromagnetism and new trends in electrical engineering and its associated fields. The department of electrical engineering is characterized to cover electrical power, electrical machines, power system control, power electronics, and power quality and communication systems which provides tremendous opportunities for cross-disciplinary interaction in teaching and research...

Electrical engineering department is recognized around the country, our graduates are not only Serving in our country but they are contributing in the field of engineering all around the world. Our dedicated faculty comprises of 13 members (two foreign qualified and 11 Master's degree holders) all working with enthusiasm and team work. Further department is comprises of 07 laboratories to conduct practicals, project and research work , a well-equipped computer lab and state of the art HEC funded smart class room. As per Pakistan Engineering Council guidelines from 19 batch department is working on fully outcome based education (OBE) system and made industrial linkage to reputable industries like WAPDA , NTDC, Jhampir Wind , AIRNEX, Naudero Sugar mills, SEPCO and others to groom our graduate in classrooms and in industries. Our core ambition is to make research innovation and well groomed graduate a strategic priority of the department. On the behalf of my department I extend my warm welcome to all vibrant sprints to join electrical engineering department of The University of Larkano and wish you all the best in your academic endeavors.



## Vision and Mission of Electrical Engineering Department

### VISION

"To nurture industry-ready engineers with research innovation in academia through excellence in Electrical Engineering education, driving sustainable development and providing creative solutions to power energy challenges at national and international levels."

### MISSION

"To empower students of Electrical Engineering with comprehensive technical expertise and practical skills tailored to contemporary industrial and academic needs. We cultivate a collaborative environment, effective communication skills, and a strong foundation in professional ethics, guiding our graduates towards successful careers marked by continuous learning and leadership."

### Program Educational Objectives (PEOs)

The program aims at imparting quality education to Electrical Engineering graduates for contributing to the society through modern technologies and practices in line with SDGs especially Goal-1, Goal-2, Goal-3, Goal-4, Goal-5, Goal-6, Goal-7, Goal-8, Goal-9, Goal-10, Goal-11 and Goal-12. The three Program educational objectives (PEOs), are as given below, form the basis of the Department of Electrical Engineering at The University of Larkano. Within few years of graduation, the students with Bachelors in Electrical Engineering are expected to attain the following:

<b>PEO-1:</b>	Demonstrate the knowledge of electrical engineering as well as advance research innovation for industrial and academic need with clear understanding of the core domains.
<b>PEO-2:</b>	Provide creative and economic power and energy solutions with sustainable development.
<b>PEO-3:</b>	Manifest professional conduct of ethical values along with interpersonal skills to perform and grow effectively in their career as a team leader or as an individual through lifelong learning.

### Alignment of the PEOs with Departmental Vision and Mission

Vision and Mission of University and Electrical Department		(PEO's)		
		1	2	3
<b>Vision</b>	"To nurture industry-ready engineers with research innovation in academia through excellence in Electrical Engineering education, driving sustainable development and providing creative solutions to power energy challenges at national and international levels."	√	√	√
<b>Mission</b>	"To empower students of Electrical Engineering with comprehensive technical expertise and practical skills tailored to contemporary industrial and academic needs. We cultivate a collaborative environment, effective communication skills, and a strong foundation in professional ethics, guiding our graduates towards successful careers marked by continuous learning and leadership."	√	√	√

Key phrases in the Vision and Mission statements and their connections with PEOs are highlighted in the Table given below.

### Departmental Vision and Mission Key phrases with PEOs

Key Words from Departmental Vision	Key Phrases from Departmental Mission	Related PEO
Industry-ready, Research innovation,	Comprehensive Technical expertise	PEO-1
Creative solution, Sustainable Development	Practical Skills, Contemporary industry,	PEO-2
Excellence Education	Professional Ethics, effective communication, professional ethics, Life Long Learning,	PEO-3

## Mapping of PLOs (GAs) with PEOs

PLO No	Program Learning Outcome/ (Graduate Attributes)	PEO 1	PEO 2	PEO 3
1	Engineering Knowledge	√		
2	Problem Analysis	√		
3	Design/Development of Solutions		√	
4	Investigation		√	
5	Modern Tool Usage	√		
6	The Engineer and Society		√	
7	Environment and Sustainability		√	
8	Ethics			√
9	Individual and Team Work			√
10	Communication			√
11	Project Management	√		
12	Lifelong Learning			√

<b>FACULTY</b>			
S.No	Name	Designation/ Qualification	Status
1	<b>Dr. Syed Abid Ali Shah</b>	Associate Professor / Chairman B.E (QUEST), M.E (MUET), PhD(UK)	Working
2	<b>Dr. Kamran Ahmed Samo</b>	Assistant Professor B.E (QUEST) M.E (QUEST), Ph.D (Malaysia)	Working
3	<b>Engr. Abdul Hameed Soomro</b>	Assistant Professor B.E (MUET), M.E (NED), PhD	Working
4	<b>Engr. Asadullah Khuhawar</b>	Assistant Professor B.E (QUEST) M.E (MUET)	Working
5	<b>Engr. Farhan Abbasi</b>	Assistant Professor B.E (MUET) M.E (MUET)	Working
6	<b>Engr. Syed Qurban Ali Shah</b>	Assistant Professor B.E (MUET), M.E ( Hang Yang University),	Working
7	<b>Engr: Fayyaz Ali Jandan</b>	Assistant Professor B.E (QUEST) ME MEUT	<b>Study Leave</b>
8	<b>Engr: Shahid Hussain Shaikh</b>	Assistant Professor B.E (QUEST), M.E (NED)	<b>Study Leave</b>
9	<b>Dr: Imtiaz Ali Laghari</b>	Assistant Professor B.E (QUEST), M.E (NED) , PhD	Working
10	<b>Engr: Hashim Ali Meerbahar</b>	Lecturer B.E (MUET)	Working
11	<b>Engr: Muhammad Asif Solangi</b>	Lecturer B.E (MUET), M.E (NED)	Working
12	<b>Engr: Yasir Ali Bhutto</b>	Lecturer B.E (QUEST) ,M.E (MUET)	<b>Study Leave</b>
13	<b>Engr: Waqar Ahmed Soomro</b>	Lab Engineer B.E (MUET)	<b>Study Leave</b>
14	<b>Engr. Dur Muahmmad Meerani</b>	Jr, Lab Engineer B.E (MUET)	Working

## Course of Study B.E (Electrical)

No:	Course Title	Credit Hrs		
		Th	Pr	Marks
<b>1<sup>st</sup> Semester 1<sup>st</sup> Year</b>				
1	Electrical Workshop Practice	0	1	00+50
2	Applied Physics	3	1	100+50
3	Applied Mechanics	3	0	100+00
4	Computing Fundamentals	2	1	50+50
5	Applied Calculus	3	0	100+00
6	Functional English	2	0	50+00
Total		13	3	400+150
<b>2<sup>nd</sup> Semester 1<sup>st</sup> Year</b>				
1	Linear Circuit Analysis	3	1	100+50
2	Electronic Devices & Circuits	3	1	100+50
3	Linear Algebra & Analytical Geometry	3	0	100+00
4	Communication Skills	2	0	50+00
5	Islamic Studies / Ethics	2	0	50+00
6	Pakistan Studies	2	0	50+00
Total		15	2	450+100
<b>1<sup>st</sup> Semester 2<sup>nd</sup> Year</b>				
1	Electrical Network Analysis	3	0	100+00
2	Theory of Electromagnetic Field	3	0	100+00
3	Digital Logic Design	2	1	50+50
4	Computer Programming	2	1	50+50
5	Engineering Drawing	0	1	00+50
6	Differential Equations & Fourier Series	3	0	100+00
Total		13	3	400+150
<b>2<sup>nd</sup> Semester 2<sup>nd</sup> Year</b>				
1	Instrumentation & Measurement	3	1	100+50
2	Signals & Systems	2	1	50+50
3	Electrical Machines	3	1	100+50
4	Microprocessors & Interfacing	3	1	100+50
5	Complex Variables & Transforms	3	0	100+00
Total		14	4	450+200



### Course of Study B.E (Electrical)

No:	Course Title	Credit Hours		
		Th	Pr	Marks
<b>1<sup>st</sup> Semester 3<sup>rd</sup> Year</b>				
1	Advance Electrical Machines	3	1	100+50
2	Electrical Power Generation	3	0	100+00
3	Communication Systems	3	1	100+50
4	Numerical Analysis with Computer Applications	3	1	100+50
5	Technical Writing	2	0	50+00
Total		14	3	450+150
<b>2<sup>nd</sup> Semester 3<sup>rd</sup> Year</b>				
1	Electrical Power Transmission	3	1	100+50
2	Control Systems	3	1	100+50
3	Power Electronics	3	1	100+50
4	Statistics & Probability	3	0	100+00
5	Professional & Social Ethics	2	0	50+00
Total		14	3	450+150
<b>1<sup>st</sup> Semester Final Year</b>				
1	Power Distribution & Utilization	3	1	100+50
2	Power System Analysis	3	1	100+50
3	Industrial Drives	3	1	100+50
4	Power Economics & Managements	3	0	100+00
5	Final Year Project (FYP-I)	0	3	00+100
Total		12	6	400+250
<b>2<sup>nd</sup> Semester Final Year</b>				
1	Power System Control	3	1	100+50
2	Power System Protection	3	1	100+50
3	High Voltage Engineering	3	1	100+50
4	Entrepreneurship & Leadership	2	0	50+00
5	Final Year Project (FYP-II)	0	3	00+100
Total		11	6	350+250

# DEPARTMENT OF CIVIL ENGINEERING

## Engr. Zuhairuddin Soomro

Mr Soomro is the Chairman of the Department of Civil Engineering at the University of Larkano. He has completed his Bachelor's degree in Civil Engineering from NED University of Engineering & Technology Karachi. He earned his master's degree in Construction Management from NED University of Engineering & Technology Karachi. At present, Engr. Zuhairuddin is working as an Assistant Professor, Head of the Civil Engineering Department.



Engr. Zuhairuddin has a very strong organizational and research background, he worked in Renowned organizations of the country. He is also an active researcher and published research articles in national and international peer-reviewed journals. He also has been collaborating with foreign researchers on research in the field of materials, structures and construction management.

## MESSAGE FROM CHAIRMAN

Welcome to our Department of civil engineering. We, a team of inspirational teachers, fervent students, and endowed researchers. Being the head of the Department, I take pride in leading a cluster of devoted and committed lecturers and support staff who are enthusiastic about molding future civil engineers. Our department is dedicated to delivering world-class education that utilizes both theory and practice to empower our students in addressing intricate challenges experienced in the 21st century. We prepare our students to be innovators with a focused approach towards sustainability and green building practices by giving them the skills necessary for designing, constructing, and managing infrastructure that would change lives if properly applied. Our department also organizes social events; technical competitions; and sports activities to make our graduates more physically, mentally, and technically sound for their future endeavors.

The experimental studies carried out in the Laboratories of the department have been published in journals of international repute and presented at International and National Conferences. Faculty members of the Department of Civil Engineering are young, active, talented with foreign qualifications, and are always ready to motivate and guide students to the destination of a better future.

Come with us through this exciting life journey of ours; let us all be part of a dynasty that builds nations block by block.

## **INTRODUCTION TO DEPARTMENT OF CIVIL ENGINEERING**

The field of Civil is one of the oldest fields of Engineering in the world. Civil Engineering has also been playing a vital role in the infrastructure development of Pakistan and for the betterment of the community. Civil Engineering utilizes engineering theories and practices in planning, designing, managing, constructing, and repairing buildings, roads, bridges, railways, airports, canals, docks, harbors, Dams, Weirs, Barrages, water supply schemes, sewage disposal, etc.

The Department of Civil Engineering at the University of Larkano provides advanced education that meets the requirements of national and international employers, and degree accrediting bodies such as Pakistan Engineering Council and Higher Education Commission of Pakistan. Theory classes of different subjects are supported by tutorials, audio-visual aids; video lectures, and laboratory work for which adequate facilities already exist. The department simultaneously organizes different workshops for software application training related to civil engineering fields like ETABS, AUTOCAD, PRIMAVERA P6, etc. Highly qualified faculty members after getting their master's degrees, PhD Degrees, and other training done from foreign countries such as Malaysia, USA, Italy, China, and Korea, work hard to impart quality education to students.

The Department of Civil Engineering at the University of Larkano offers a four-year Bachelor of Engineering (BE) degree program and a two-year Master of Engineering (ME) degree program in Civil Engineering. The curriculum of all the programs is designed according to the present demands of the construction industry by involving the industry experts by getting their input from the Industrial Advisory Board, Board of Studies, and from surveys done by employers, alumni, and passing graduates.

The Final Year Design Projects (FYDP) are also chosen according to the needs of industry and for this purpose, industrial experts are taken as Co-Supervisors for the FYDP of undergraduate students and also for the research works of graduate students. The various fields of specialization are also introduced to the final-year students by assigning them an FYDP. The Final Year Design Projects (FYDP) may be specific to a branch of Civil Engineering like Structural, Geotechnical, Materials, Hydrology and Water Resources, Environmental, Highway Engineering and Construction Management, etc. The Department of Civil Engineering at the University of Larkano has also implemented an Outcome-Based Education (OBE) system to meet the criteria of the Pakistan Engineering Council (PEC) as per the Washington Accord. Therefore, assessment of all the class tests, class & field assignments, and semester exams are being done based on specific Course Learning Objectives (CLOs) and Program Learning Objectives (PLOs) associated with each course. The Department of Civil Engineering has eleven specific Program Learning Objectives (PLOs), which are mapped with many Course Learning Objectives (CLOs). This is a student centric approach that focuses on outcomes from the individual student by the end of the course. All the classrooms are equipped with multimedia tools and the laboratories are equipped with the latest equipment and tools.

## DEGREE PROGRAMS

**The department offers following degree programs**

1. Bachelor of Engineering (BE) Civil Engineering
2. Master of Engineering (ME) Civil Engineering

## VISION

To achieve national and international recognition through innovation in civil engineering education, research, and community services.

## MISSION

To develop highly competent engineers through modern teaching and tools for sound engineering knowledge, social responsibilities, and lifelong learning skills enabling them to have successful careers in the civil engineering profession and to promote high-quality education, research, and technical skills, to provide a state-of-the-art foundation to address paramount issues in a congenial learning environment and to train the students for moral and ethical values such as caring, sharing, honesty, fairness, responsibility, and respect for self and others.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

The objective of civil engineering program is to produce graduates who will:

1. Successfully engage in contemporary civil engineering practice to solve real world problems
2. Manage and illustrate effective teamwork, interpersonal skills and professional growth.
3. Pursue professional growth through continuous learning and experience.

## PROGRAM LEARNING OUTCOMES

The Twelve PLOs for BE Civil Engineering Program are:

- 1. Engineering Knowledge:** An ability to apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- 2. Problem Analysis:** An ability to identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- 3. Design/Development of Solutions:** An ability to design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
- 4. Investigation:** An ability to investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions.
- 5. Modern Tool Usage:** An ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering activities, with an understanding of the limitations.
- 6. The Engineer and Society:** An ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.
- 7. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- 8. Individual and Team Work:** An ability to work effectively, as an individual or in a team, on multifaceted and /or multidisciplinary settings.
- 9. Communication:** An ability to communicate effectively, orally as well as in writing, on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 10. Project Management:** An ability to demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team, to manage projects in a multidisciplinary environment.
- 11. Lifelong Learning:** An ability to recognize importance of, and pursue lifelong learning in the broader context of innovation and technological developments.

## FACULTY

SN	Name	Designation / Qualification
1	Dr. Samiullah Sohu	Ph.D (UTHM Malaysia) M.E. (Construction Management) MUET jamshoro B.E (Civil) QUEST, Nawabshah PEC Registration # Civil/28714 Email: <a href="mailto:enr.samiullah@uolrk.edu.pk">enr.samiullah@uolrk.edu.pk</a> Mob. #033-37666383
2	Engr. Zuhair Uddin Soomro	ME (Construction Management) NED UET Karachi . BE (Civil) NED UET Karachi PEC Registration # Civil/30614 Email: <a href="mailto:zuhair_uddin@yahoo.com">zuhair_uddin@yahoo.com</a> Mob. #033-37277390
3	Dr Salim Khoso	Ph.D (Structure) The University of Toledo, USA M.E (Steel Structure)- Italy B.E (Civil) QUEST, Nawabshah PEC Registration # Civil/29457 Email: <a href="mailto:enr.salimkhoso@gmail.com">enr.salimkhoso@gmail.com</a> Mob. #033-37093822
4	Engr. Zahid Hussain Khaskheli	Assistant Professor (On Study Leave) M.E (Structure) UTHM Malaysia, B.E (Civil) QUEST Nawabshah PEC Registration #Civil/37024 Email: <a href="mailto:zahidhussain6481@gmail.com">zahidhussain6481@gmail.com</a> Mob. #0331-8959067 .
5	Engr. Ahmed Faraz Abro	Lecturer M.E (Highway) MUET Jamshoro B.E (Civil) MUET Jamshoro PEC Registration # Civil/24347 Email: <a href="mailto:farazabro2000@yahoo.com">farazabro2000@yahoo.com</a> Mob. 0314-2001541
6	Engr. Suhail Ahmed Abbasi	Lecturer M.E (Materials), MUET Jamshoro B.E (Civil). QUEST, Nawabshah PEC Registration # Civil/32454 Email: <a href="mailto:abbasi.suhail2009@gmail.com">abbasi.suhail2009@gmail.com</a> Mob. #0336-2042243.

7	Engr. Mir Zafarullah Jamli	Lecturer M.E, (Civil) MUET Jamshoro B.E (Civil) QUEST, Nawabshah PEC Registration # Civil/41354 Email: <a href="mailto:zaffarj1992@gmail.com">zaffarj1992@gmail.com</a> Mob. #0305-3601400
8	Engr. Irfan Ali Shar	Lecturer (Contract) M.E, (Structure) MUET Jamshoro B.E (Civil) QUEST, Nawabshah
9	Engr. Ahmed Mustafa Tunio	Lecturer (Contract) M.E, (Construction Management) MUET Jamshoro B.E (Civil) MUET Jamshoro
10	Engr. Ghulam Mustafa Shah	Jr Lab Engineer M.E, (Construction Management) QUEST Nawabshah B.E (Civil) QUEST Nawabshah
11	Engr. Azhar Ali Sohu	Jr Lab Engineer (Contract) B.E (Civil) QUEST Nawabshah

## LABORATORIES:

The department consists of following Labs: Concrete Lab, Environment Lab, Surveying Lab, Irrigation Lab, Computer Lab, Fluid mechanics lab and Highway lab. All the required Machinery, equipment's and instruments are available to perform any type of practical experiment related to civil engineering.



## Scheme of Studies for Bachelor of Civil Engineering Curriculum

1 <sup>st</sup> Year				
First Semester				
S. No.	Course Title	(Credit Hours)		Total Cr. Hrs.
		Theory	Lab	
1	Civil Engineering Materials	2	1	3
2	Applied Physics & Electro- Mechanical Fundamentals	2	1	3
3	Engineering Drawing	1	2	3
4	Functional English	3	0	3
5	Quantitative Reasoning-I	3	0	3
6	Applications of ICT	2	1	3
<b>Total</b>		<b>13</b>	<b>5</b>	<b>18</b>
Second Semester				
S. No.	Course Title	(Credit Hours)		Total Cr. Hrs.
		Theory	Lab	
1	Engineering Surveying	2	1	3
2	Geology for Engineers	2	0	2
3	Islamic Studies/ Ethics	2	0	2
4	Engineering Mechanics	2	1	3
5	Ideology and Constitution of Pakistan	2	0	2
6	Computer Programming	2	1	3
7	Quantitative Reasoning-II	3	0	3
<b>Total</b>		<b>15</b>	<b>3</b>	<b>18</b>
2 <sup>nd</sup> Year				
Third Semester				
S. No.	Course Title	(Credit Hours)		Total Cr. Hrs.
		Theory	Lab	
1	Civil Engg. Drawing & Graphics	1	2	3
2	Advanced Engineering Surveying	2	1	3
3	Fluid Mechanics	2	1	3
4	Mechanics of Solids-I	2	1	3
5	Structural Analysis-I	3	0	3
6	Advanced Calculus	3	0	3
<b>Total</b>		<b>13</b>	<b>5</b>	<b>18</b>
Fourth Semester				
S. No.	Course Title	(Credit Hours)		Total Cr. Hrs.
		Theory	Lab	
1	Construction Engineering	2	0	2
2	Arts and Humanities Elective*	2	0	2
3	Applied Mathematics	3	0	3
4	Mechanics of Solids-II	2	1	3
5	Soil Mechanics	2	1	3
6	Social Science Elective**	2	0	2
7	Quantity & Cost Estimation	2	1	3
8	Survey Camp	-	-	***NC
<b>Total</b>		<b>15</b>	<b>3</b>	<b>18</b>

3 <sup>rd</sup> Year				
Fifth Semester				
S. No.	Course Title	(Credit Hours)		Total Cr. Hrs.
		Theory	Lab	
1	Numerical Analysis	3	0	3
2	Advanced Fluid Mechanics	2	1	3
3	Expository Writing	3	0	3
4	Geotechnical Engineering	3	1	4
5	Reinforced Concrete Design-I	3	1	4
<b>Total</b>		<b>14</b>	<b>3</b>	<b>17</b>
Sixth Semester				
S. No.	Course Title	(Credit Hours)		Total Cr. Hrs.
		Theory	Lab	
1	Reinforced Concrete Design-II	3	1	4
2	Environmental Engineering	2	1	3
3	Structural Analysis-II	3	0	3
4	Engineering Hydrology	2	1	3
5	Highway & traffic Engineering	2	0	2
6	Civics and Community Engagement	2	0	2
7	Community Service	-	-	***NC
8	Internship (6-8 weeks) mandatory and qualifying	-	-	***NC
<b>Total</b>		<b>14</b>	<b>3</b>	<b>17</b>
Final Year				
Seven Semester				
S. No.	Course Title	(Credit Hours)		Total Cr. Hrs.
		Theory	Lab	
1	Foundation Engineering	2	0	2
2	Pavement Analysis & design	2	1	3
3	Modelling & Simulation	1	1	2
4	Hydraulics Engineering	2	1	3
5	Project Management	2	0	2
6	FYDP Part-I	0	3	3
<b>Total</b>		<b>9</b>	<b>6</b>	<b>15</b>
Eight Semester				
S. No.	Course Title	(Credit Hours)		Total Cr. Hrs.
		Theory	Lab	
1	Irrigation Engineering	2	1	3
2	Geoinformatics	1	1	2
3	Steel Structures	2	0	2
4	Architecture & Town Planning	2	0	2
5	Occupational Health & Safety	1	0	1
6	Entrepreneurship	2	0	2
7	FYDP Part-II	0	3	3
<b>Total</b>		<b>10</b>	<b>5</b>	<b>15</b>



# DEPARTMENT OF MECHANICAL ENGINEERING

**Dr. Khalid Hussain Solangi**  
Chairman



## INTRODUCTION

Mechanical Engineering is one of the prime disciplines of Engineering. It plays a vital role in the industrial development of a country. Its application is found in most of the small, medium, and large-scale industries and the most sophisticated industrial sector.

Mechanical Engineering discipline covers design, fabrication, operation, and maintenance of all types of machinery and equipment found in the industries. It provides a system for mechanical power and material processing. Four years' course offered covers all aspects of the discipline to meet the requirements of present and latest technological developments. Theory classes are supported by tutorials, laboratory experiments and workshop practice. The graduates of this department would be able to grab slots in most national and international Industrial organizations such as PAF, WAPDA, PMTF, Steel Mills, Railways, PIA and OGDCL.

## VISION

“To produce professional graduates to cater the socioeconomic requirements for the national and international market for sustainable development”.

## MISSION

“To provide quality and state-of-art education to the students in the prescribed areas of engineering, science & technology, in order to make them outstanding professionals and better human-beings; so that they become capable of contributing effectively and amicably towards sustainable development”.

## MISSION OF THE B.E (ME) PROGRAM

“The mission of the Department is to impart cutting edge knowledge in the Mechanical Engineering and expertise the students in professional field with effective ethical communication skills to meet the challenges in sustainable development of academia, industry, and society”.

## FACULTY

SN	Name	Designation / Qualification
1.	Dr. Khalid Hussain Solangi	Assistant Professor / In-charge Chairman B.E (QUEST), MS Leading to PhD (UM Malaysia)
2.	Dr. Junaid Iqbal Bhatti	Associate Professor B.E (QUEST), MS Leading to PhD (South Korea)
3.	Engr: Sajjad Hussain Solangi	Assistant Professor B.E (MUET), M.E (QUEST)
4.	Engr: Ahmed Ali Sohu	Assistant Professor B.E (MUET), M.E (QUEST)
5.	Engr: Ghulam Mujtaba Bhanger	Assistant Professor B.E (NED), M.Sc. (Sweden)
6.	Engr: TemoorAbbassLarik	Assistant Professor (on study leave) B.E (QUEST), M.E (QUEST)
7.	Engr. Zeeshan Qadir Memon	Assistant Professor (on study leave) B.E (MUET), M.E (Malaysia)
8.	Engr. Syed Nihal Abbas Shah	Assistant Professor B.E (QUEST), MBA (SALU), M.E (QUEST)
9.	Engr. Ishfaqe Ali Qazi	Assistant Professor B.E (QUEST), M.E (MUET)
10.	Engr. Tarique Ahmed Memon	Lecturer (on study leave) B.E (QUEST), M.E (MUET),
11.	Engr. Mukhtiar Ali Shar	Lecturer (on study leave) B.E (QUEST), M.E (QUEST)
12.	Engr: Manthar Ali Khoso	Lab-Engineer (on study leave) B.E (QUEST), ME (QUEST)
13.	Engr: Athar Ali Gorar	Lab-Engineer (on study leave) B.E (MUET), ME (NED)
14.	Dr: Asif Ali Laghari	Lab-Engineer B.E (QUEST), ME (NUST) PhD. (China)
15.	Engr: Zohaib Khan Pathan	Lab-Engineer (on study leave) B.E (QUEST), M.E (Malaysia)
16.	Engr. AwaisAbro	Jr. Lab-Engineer B.E (QUEST)
17.	Engr. PunhalBrohi	Jr. Lab-Engineer B.E (QUEST)
18.	Engr. SanaullahArbani	Jr. Lab-Engineer B.E (QUEST)

## TEACHING STAFF (MECHANICAL ENGINEERING WORKSHOP)

19.	Mr. Abdul Hameed Rajput	Workshop Superintendent D.A.E (S.B.T.E), B.Sc. (QUEST), MBA (HR)
20.	Engr: Jameel Ahmed Mahessar	Senior Workshop Instructor (on study leave) B.E (QUEST), M.E (QUEST)
21.	Mr. Fayaz Ahmed Rajpur	Workshop Instructor D.A.E (S.B.T.E), B-Tech Hons

## Courses of Study

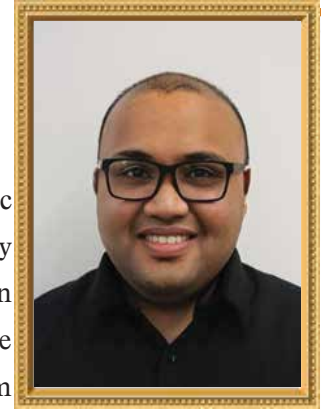
Semester No.	Sr. No.	Course Code	Course Title	Total Credit Hours (th+pr)	Marks		
					Th	Pr	Total
1	1	MTH 104	Pakistan Studies	2(2+0)	50	0	50
	2	ME 101	Applied Physics	2(2+0)	50	0	50
	3	MTH 106	Functional English	3(3+0)	100	0	100
	4	MTH 101	Applied Calculus	3(3+0)	100	0	100
	5	CS 100	Computer Fundamentals	3(2+1)	50	50	100
	6	ME 108	Workshop Practice	2(0+2)	0	50	50
<b>Total Credit Hours</b>				<b>15 (12-3)</b>		<b>Total Marks</b>	<b>450</b>
2	1	MTH 107	Communication Skills	3(2+1)	50	50	100
	2	MTH 211	Differential Equations	3(3+0)	100	0	100
	3	ME 102	Engineering Drawing & Graphics	3(2+1)	50	50	100
	4	ME 106	Engineering Materials	3(3+0)	100	0	100
	5	ME 107	Engineering Statics	3(2+1)	50	50	100
	6	MTH 105	Islamic Studies / Ethics	2(2+0)	50	0	50
<b>Total Credit Hours</b>				<b>17(14-3)</b>		<b>Total Marks</b>	<b>550</b>
3	1	MTH 203	Complex Variable & Transforms	3(3+0)	100	0	100
	2	ME 201	Engineering Dynamics	2(2+0)	50	0	50
	3	ES 104	Electronic Engineering	3(2+1)	50	50	100
	4	ME 208	Thermodynamics-I	2(2+0)	50	0	50
	5	ME 207	Mechanics of Materials-I	4(3+1)	100	50	150
	6	EL 106	Electrical Engineering	3(2+1)	50	50	100
<b>Total Credit Hours</b>				<b>17(14-3)</b>		<b>Total Marks</b>	<b>550</b>
4	1	MTH 204	Numerical Analysis Computer Applications	4(3+1)	100	50	150
	2	ME 209	Mechanics of Machines	3(2+1)	50	50	100
	3	ME 210	Fluid Mechanics-I	3(2+1)	50	50	100
	4	ME 211	Mechanics of Materials-II	3(3+0)	100	0	100
	5	ME 212	Thermodynamics-II	4(3+1)	100	50	150
<b>Total Credit Hours</b>				<b>17(13-4)</b>		<b>Total Marks</b>	<b>600</b>

5	1	MTH 301	Statistics & Probability	3(3+0)	100	0	100
	2	ME 315	Instrumentation & Control	3(2+1)	50	50	100
	3	ME 311	Fluid Mechanics-II	4(3+1)	100	50	150
	4	ME 312	Engineering Management & Economics	2(2+0)	50	0	50
	5	ME 313	Renewable & Emerging Energy Technologies	2(2+0)	50	0	50
	6	ME 314	Machine Design & CAD-I	3(2+1)	50	50	100
	<b>Total Credit Hours</b>				<b>17(14-3)</b>		<b>Total Marks</b>
6	1	ME 317	Mechatronics	3(2+1)	50	50	100
	2	ME 316	Machine Design & CAD-II	4(3+1)	100	50	150
	3	ME 320	Heat & Mass Transfer	4(3+1)	100	50	150
	4	ME 318	Manufacturing Processes-I	3(2+1)	50	50	100
	5	ME 319	Total Quality Management	2(2+0)	50	0	50
	6	MTH209	Technical report writing & Presentation skills	2(2+0)	50	0	50
	<b>Total Credit Hours</b>				<b>18(14-4)</b>		<b>Total Marks</b>
7	1.	ME 411	Aerodynamics	4(3+1)	100	50	150
	2.	ME 410	Safety, Health & Environment	2(2+0)	50	0	50
	3.	ME 414	Manufacturing Processes-II	4(3+1)	100	50	150
	4.	ME 412	Mechanical Vibrations	4(3+1)	100	50	150
	5.	ME 417A	FYDP-I	3(0+3)	0	100	100
	<b>Total Credit Hours</b>				<b>17(11-6)</b>		<b>Total Marks</b>
8	1	ME 415	Heating Ventilation & Air-Conditioning Systems (HVAC)	4(3+1)	100	50	150
	2	ME 409	Power Plants	4(3+1)	100	50	150
	3	ME 408	Maintenance Engineering	2(2+0)	50	0	50
	4	ME413	Automobile Engineering	3(2+1)	50	50	100
	5	ME 417B	FYDP-II	3(0+3)	0	100	100
	<b>Total Credit Hours</b>				<b>16(10-6)</b>		<b>Total Marks</b>

## DEPARTMENT OF ELECTRONIC ENGINEERING

**Dr Toufique Ahmed Soomro**

**Chairman**



It is with great enthusiasm and honor that I welcome you to the Department of Electronic Engineering at the Faculty of Engineering and Technology, The University of Larkano. My journey in academia and research has been a fulfilling one, marked by a strong dedication to innovation, teaching, and impactful research. Currently, I hold the position of Associate Professor and Head of the Department of Electronic Engineering at Quaid-e-Awam University of Engineering, Science and Technology (QUEST), Pakistan. My previous roles include serving as an Assistant Professor and Manager Officer of Research, Innovation, and Commercialization at QUEST from 2019 to 2022. I have also had the privilege of working as a Research Assistant at the Discipline of Business Analytics at the University of Sydney Business School, Australia, and as a Researcher at the E-Health Research Group and Lecturer in the School of Computing & Mathematics at Charles Sturt University (CSU), Bathurst, Australia.

Throughout my career, I have embraced diverse roles and responsibilities that have enriched my professional and academic journey. From July 2017 to December 2017, I served as Lecturer in the School of Computing, Mathematics, and Engineering at CSU, Bathurst. Prior to this, I was a Lecturer in the Electronic Engineering Department at QUEST, Larkana, from July 2014 to July 2015, and again from January 2010 to December 2011. My early career also includes serving as a Lab Engineer at the Electronic Engineering Department of Hamdard University, Pakistan. I have been fortunate to expand my academic horizon through international experiences. Notably, I was a visiting Research Professor at the School of Automation, Guangdong University of Technology, China, in November 2019. My research interests are deeply rooted in AI, machine learning, data analytics, and healthcare applications. I believe that these fields hold transformative potential for the future of electronic engineering.

In addition to my research endeavors, I have successfully supervised numerous undergraduate and postgraduate research theses and co-supervised master's and PhD students. My participation in several grant applications over the years reflects my commitment to advancing research. I have been associated with esteemed research centers across

the globe, including CSU in Australia, the University of Sydney, UTP in Malaysia, Guangdong University of Technology in China, and Najran University in Saudi Arabia. My academic background includes a Master's degree from University Teknologi PETRONAS and a PhD from CSU, Australia. During my studies and professional engagements, I collaborated with interdisciplinary supervisory teams and participated in collaborative projects with other renowned universities and industrial partners. These collaborations have resulted in the publication of research articles in reputable venues.

As a dedicated academic and researcher, I have taken on various supervisory and managerial roles, guiding students through their semester and final-year projects. Additionally, I have contributed as a member of organizing committees for numerous national and international events. These experiences have equipped me with the skills and qualifications necessary to lead our department effectively. I am excited about the future of the Department of Electronic Engineering at The University of Larkano. Together, we will strive to achieve excellence in teaching, research, and innovation. I look forward to working with our talented students, esteemed faculty, and industry partners to foster a dynamic and collaborative environment that drives progress and makes a meaningful impact on society. You are welcome anytime to visit our department. I am confident that our collective efforts along with all stakeholders will continue to advance the field of electronic engineering and uphold the values of The University of Larkano.

## **2. INTRODUCTION TO ELECTRONIC ENGINEERING DEPARTMENT**

The Department of Electronic Engineering at The University of Larkano, one of the four pillars of the Faculty of Engineering and Technology, has been providing quality education to students of Inner Sindh since 2009. As a center of excellence in education and research, the department is dedicated to advancing the field of electronic engineering and contributing to national development.

Our mission is to cultivate a skilled workforce equipped to meet the challenges of the modern technological landscape. We strive to improve the quality of life by raising public awareness and promoting appropriate scientific and technological advancements. The department offers a comprehensive four-year (8 semesters) program leading to a bachelor's degree in electronic engineering, as well as an M.E. in Industrial Automation and Control.

Our faculty comprises highly qualified PhD members with diverse expertise and experience from various

international education systems. This diverse background enriches our students' learning experiences, enhancing their communication skills and inspiring them to pursue excellence in their professional careers. The programs are meticulously designed to reflect the latest trends in electronic engineering, incorporating practical hands-on laboratory training and other modern methods of professional development.

Graduates of our programs are well-prepared to secure internships in both public and private sector organizations. They are also eligible to pursue higher education and training opportunities in universities and industries around the globe, making them competitive candidates in the global job market.

The Department of Electronic Engineering at The University of Larkano is committed to fostering an environment of academic rigor and innovation, preparing our students to become leaders in the field of electronic engineering.

## VISION

To become a leading academic center of excellence in electronic engineering education, research, and innovation, focusing on practical training and lifelong learning. We aim to drive sustainable technological advancements and contribute to the socio-economic progress of society.

## MISSION

To produce exceptional professionals through high-quality education and innovation in electronic engineering, addressing industrial challenges locally and globally. Emphasizing ethical practices, sustainability, and social responsibility, the department is committed to continuously improving education with problem-based learning, technological innovation, and experiment-oriented research.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs) OF THE DEPARTMENT OF ELECTRONIC ENGINEERING

### **I. ES PEO1 2024**

Apply proficient engineering knowledge, analytical skills, and modern tools to effectively design and develop solutions for complex engineering problems, contributing to technological advancements and the socio-economic progress of society.

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### **II. ES PEO2 2024**

Exhibit strong communication skills and team spirit to address real challenges, enhancing the environment and promoting sustainability through collaborative efforts and innovative approaches.

### **III. ES PEO3 2024**

Demonstrate a lifelong commitment to ethical practices and social responsibility, while promoting and managing projects that offer sustainable solutions, aligning with the department's mission of fostering professionals dedicated to ethical conduct and societal betterment.



### 3. FACULTY

S.No	Faculty Name	Designation	Qualification	Remarks
1	<b>Dr. Toufique Ahmed Soomro</b>	Associate Professor	PhD (Australia) MS (Malaysia) B.E (MUET,Pakistan)	Working
2	<b>Dr. Khalil M. Zohaib</b>	Associate Professor	MS Leading PhD (South Kora) B.E (QUEST, Pakistan)	Working
3	<b>Dr. Saleem Raza Memon</b>	Assistant Professor	PhD (Germany) M.E (MUET Pak and Denmark) B.E (MUET,Pakistan)	Working
4	<b>Dr. Aneela Pathan</b>	Assistant Professor	PhD (MUET, Pakistan) M.E (N.E.D, Pakistan) B.E (MUET,Pakistan)	Working
5	<b>Dr. Ayaz Ahmed Soomro</b>	Assistant Professor	PhD (Australia) M.E (MUET, Pakistan) B.E (MUET,Pakistan)	Working
6	<b>Dr. Abdul Sattar Noonari</b>	Assistant Professor	PhD (Australia) M.E (MUET, Pakistan) B.E (MUET,Pakistan)	Working
7	<b>Dr. Ghulam Hussain Chandi</b>	Assistant Professor	MS Leading PhD (South Kora) B.E (MUET, Pakistan)	Working
8	<b>Dr. Umair Saeed Solangi</b>	Assistant Professor	PhD (France) MS (France) B.E (MUET,Pakistan)	Working
9	<b>Dr. Irfan Ali Tunio</b>	Assistant Professor	PhD (France) MS (France) B.E (MUET,Pakistan)	Working
10	<b>Engr. Ali Anwar Panhwar</b>	Lecturer	MS (Australia) B.E (GIK, Pakistan)	-----
11	<b>Engr. Muhammad Hanif Lashari</b>	Lecturer	M.E (MUET, Pakistan) B.E (MUET, Pakistan)	On Study Leave
12	<b>Engr. Fareesa Khan Sohu</b>	Lecturer	M.E (MUET, Pakistan) B.E (QUEST, Pakistan)	On Study Leave
13	<b>Engr. Ali Raza Radhan</b>	Lab. Engineer	M.E (QUEST, Pakistan) B.E (MUET, Pakistan)	Working
14	<b>Engr. Noman Alias Ghulamullah</b>	Lab. Engineer	M.E (MUET, Pakistan) B.E (MUET, Pakistan)	On Study Leave
15	<b>Engr. Shahzeb Ansari</b>	Lab. Engineer	M.E (N.E.D, Pakistan) B.E (MUET, Pakistan)	On Study Leave
16	<b>Engr. Arslan Ahmed Sohu</b>	Lab. Engineer	M.E (IBA, Pakistan) B.E (QUEST, Pakistan)	On Study Leave
17	<b>Engr. Syed Haseeb-u-Rehman</b>	Jr. Lab. Engineer	M.E (N.E.D, Pakistan) B.E (QUEST, Pakistan)	Working

#### 4. ELECTRONIC ENGINEERING DEPARTMENT LABORATORIES:

The Basic Electronics Laboratory in the Electronic Engineering Department at The University of Larkano is a state-of-the-art facility designed to provide students with hands-on experience in the fundamental concepts of electronics. Equipped with modern instruments such as oscilloscopes, signal generators, multimeters, and power supplies, the lab allows students to experiment with and analyze various electronic circuits and components. Through practical sessions, students gain a deeper understanding of semiconductor devices and their applications. The laboratory fosters a practical learning environment, enhancing the theoretical knowledge acquired in lectures and preparing students for advanced courses and real-world applications in electronic engineering. By engaging in hands-on experiments, students develop essential skills that bridge the gap between classroom learning and practical implementation, laying a solid foundation for their future careers in the field.



## B. DIGITAL SYSTEM LABORATORY:

The Digital System Laboratory in the Electronic Engineering Department at The University of Larkano is a cutting-edge facility dedicated to the study and experimentation of digital electronics and systems. This lab is equipped with advanced hardware and software tools, including FPGA development boards, logic analyzers, microcontroller kits, and digital oscilloscopes. Students engage in practical exercises covering topics such as digital logic design, microprocessor programming, embedded systems, and VHDL/Verilog coding. The lab provides an interactive learning environment where students can design, implement, and test digital circuits and systems, effectively bridging the gap between theoretical knowledge and practical application. This hands-on experience is crucial in preparing students for careers in modern electronics and digital system design, ensuring they are well-equipped with the skills needed to excel in the rapidly evolving field of digital engineering.



## C. INSTRUMENT AND CONTROL LABORATORY:

The Instrument and Control Laboratory in the Electronic Engineering Department at The University of Larkano is a specialized facility designed to provide students with practical experience in instrumentation and control systems. Equipped with advanced tools and equipment, including process control trainers, Programmable Logic Controllers (PLCs), transducers, sensors, and data acquisition systems, the lab offers students the opportunity to conduct experiments related to control theory, process control, and automation. Through hands-on experience with real-world industrial applications, students gain valuable insights into the integration of theoretical concepts with practical skills. The laboratory emphasizes designing, analyzing, and implementing control systems, fostering an experiential learning environment that bridges the gap between academic knowledge and practical expertise. This comprehensive approach prepares students for careers in automation, instrumentation, and control engineering, ensuring they are well-versed in modern techniques and technologies. By engaging in practical exercises and experiments, students develop the essential skills needed to excel in the dynamic field of control engineering.



### D. COMMUNICATION LABORATORY:

The Communication Laboratory in the Electronic Engineering Department at The University of Larkano is a modern facility dedicated to the practical study of communication systems and technologies. Equipped with state-of-the-art equipment such as spectrum analyzers, signal generators, digital communication trainers, and transmitter and receiver kits, the lab offers students hands-on experience in analog and digital modulation techniques, signal processing, wireless communication, and data transmission. This laboratory environment bridges the gap between theoretical coursework and real-world applications, allowing students to design, simulate, and test communication systems. By providing comprehensive practical experience, the Communication Laboratory prepares students for advanced studies and careers in telecommunications, networking, and related fields.



### E. COMPUTER LABORATORY:

The Computer Laboratory in the Electronic Engineering Department at the University of Larkano is a state-of-the-art facility designed to support the practical aspects of computer engineering and programming. The lab is equipped with high-performance computers, advanced software development tools, and simulation platforms. Students have access to a wide range of software, including programming languages (C, C++, Python), circuit simulation tools (MATLAB, Simulink), and embedded system development environments. This laboratory provides an interactive environment for students to work on projects related to software development, computer architecture, microcontroller programming, and digital system design. By fostering hands-on learning, the Computer Laboratory enhances students' understanding of computational concepts and prepares them for careers in software engineering, embedded systems, and hardware design.



## COURSE SCHEME B.E ELECTRONIC ENGINEERING FROM BATCH 2024

### 1<sup>st</sup> Semester, 1<sup>st</sup> Year (FIRST SEMESTER)

S.#.	Course Code	Name of Subject	Credit Hour		Total Credit Hour	Marks		
			Theory	Practical		Th.	Pr.	Total
1.	MTH106	Functional English	3	0	3	100	0	100
2.	MTH101	Applied Calculus	3	0	3	100	00	100
3.	CS123	Introduction to Computers	2	1	3	50	50	100
4.	MTH108	Applied Physics	3	0	3	100	00	100
5.	MTH105	Islamic studies	2	0	2	50	00	50
6.	ES103	Electronic Workshop	0	1	1	0	50	50
<b>Total</b>			<b>13</b>	<b>2</b>	<b>15</b>	<b>400</b>	<b>100</b>	<b>500</b>

### 2<sup>nd</sup> Semester, 1<sup>st</sup> Year (SECOND SEMESTER)

S.#.	Course Code	Name of Subject	Credit Hour		Total Credit Hour	Marks		
			Theory	Practical		Th.	Pr.	Total
1.	MTH102	Linear Algebra and Analytical Geometry	3	0	3	100	00	100
2.	CS112	Computer Programming	2	1	3	100	00	100
3.	ES104	Basic Electronic	3	1	4	100	50	150
4.	ES105	Circuit Analysis	3	1	4	100	50	150
5.	MTH107	Communication Skills	2	0	2	50	00	50
6.	ES210	Computer Aided	0	1	1	00	50	50
<b>Total</b>			<b>13</b>	<b>4</b>	<b>17</b>	<b>450</b>	<b>150</b>	<b>600</b>
<b>First Year Credit Hours and Total Marks</b>			<b>26</b>	<b>6</b>	<b>32</b>	<b>850</b>	<b>250</b>	<b>1100</b>

**1<sup>st</sup> Semester, 2<sup>nd</sup> Year (THIRD SEMESTER)**

S.#.	Course Code	Name of Subject	Credit Hour		Total Credit Hour	Marks		
			Theory	Practical		Th.	Pr.	Total
1.	ES207	Electronic Circuit Design	3	1	4	100	50	150
2.	ES208	Digital Logic Design	3	1	4	100	50	150
3.	ES209	Instrumentation and Measurements	3	1	4	100	50	150
4.	MTH103	Differential Equations and Fourier Series	3	0	3	100	00	100
5.	MTH104	Pakistan Studies	2	0	2	50	00	50
<b>Total</b>			<b>14</b>	<b>3</b>	<b>17</b>	<b>450</b>	<b>150</b>	<b>600</b>

**2<sup>nd</sup> Semester, 2<sup>nd</sup> Year (FOURTH SEMESTER)**

S.#.	Course Code	Name of Subject	Credit Hour		Total Credit	Marks		
			Theory	Practical		Th.	Pr.	Total
1.	ES215	Embedded System Design	3	1	4	100	50	150
2.	ES212	Electromagnetic Field Theory	3	0	3	100	00	100
3.	ES213	Integrated Electronics	3	1	4	100	50	150
4.	EL206	Electrical Machines	3	1	4	100	50	150
5.	MTH201	Complex Variable sand Transforms	3	0	3	100	00	100
<b>Total</b>			<b>15</b>	<b>3</b>	<b>18</b>	<b>500</b>	<b>150</b>	<b>650</b>
<b>Second Year Credit Hours and Total Marks</b>			<b>29</b>	<b>6</b>	<b>35</b>	<b>950</b>	<b>300</b>	<b>1250</b>

**1<sup>st</sup> Semester, 3<sup>rd</sup> Year (FIFTH SEMESTER)**

S.#.	Course Code	Name of Subject	Credit Hour		Total Credit	Marks		
			Theory	Practical		Th.	Pr.	Total
1.	ES309	Signals and Systems	3	1	4	100	50	150
2.	MTH302	Economics and Engineering Management	2	0	2	50	00	50
3.	ES316	FPGA based System Design	3	1	4	100	50	150
4.	ES311	Wave Propagation and Antennas	3	1	4	100	50	150
5.	ES315	Probability, Random Signals, and Stochastic Processes	3	0	3	100	00	100
<b>Total</b>			<b>14</b>	<b>3</b>	<b>17</b>	<b>450</b>	<b>150</b>	<b>600</b>

**2<sup>nd</sup> Semester, 3<sup>rd</sup> Year (SIXTH SEMESTER)**

S.#.	Course Code	Name of Subject	Credit Hour		Total Credit Hour	Marks		
			Theory	Practical		Th.	Pr.	Total
1.	ES317	Electronic Communication Systems	3	1	4	100	50	150
2.	MTH204	Numerical Analysis with Computer Applications	3	1	4	100	50	150
3.	ES318	Digital Signal & Image Processing	3	1	4	100	50	150
4.	ES314	Control Systems	3	1	4	100	50	150
5.	MTH402	Professional and Social Ethics	2	0	2	50	00	50
<b>Total</b>			<b>14</b>	<b>4</b>	<b>18</b>	<b>450</b>	<b>200</b>	<b>650</b>
<b>Third Year Credit Hours and Total Marks</b>			<b>28</b>	<b>7</b>	<b>35</b>	<b>900</b>	<b>350</b>	<b>1250</b>

**1<sup>st</sup> Semester, Final Year (SEVENTH SEMESTER)**

S.#.	Course Code	Name of Subject	Credit Hour		Total Credit Hour	Marks		
			Theory	Practical		Th.	Pr.	Total
1.	ES408	Computer Communication and Networking	3	1	4	100	50	150
2.	ES416	Industrial Control Systems	3	1	4	100	50	150
3.	ES410	Power Electronics	3	1	4	100	50	150
4.	MTH403A	Entrepreneurship and	3	0	3	100	00	100
5.	ES414A	Leadership Thesis Project-1	0	3	3	0	100	100
<b>Total</b>			<b>12</b>	<b>6</b>	<b>18</b>	<b>400</b>	<b>250</b>	<b>650</b>

**2<sup>nd</sup> Semester, Final Year (EIGHTH SEMESTER)**

S.#.	Course Code	Name of Subject	Credit Hour		Total Credit Hour	Marks		
			Theory	Practical		Th.	Pr.	Total
1.	ES417	Robotics and Mechatronic Systems	3	0	3	100	00	100
2.	ES418	Optoelectronics	3	1	4	100	50	150
3.	ES415	Microwave Engineering	3	1	4	100	50	150
4.	CS125	Artificial Intelligence	2	0	2	50	00	50
5.	ES414B	Thesis Project-2	0	3	3	0	100	100
<b>Total</b>			<b>11</b>	<b>5</b>	<b>16</b>	<b>350</b>	<b>200</b>	<b>550</b>
<b>Final Year Credit Hours and Total Marks</b>			<b>23</b>	<b>11</b>	<b>34</b>	<b>750</b>	<b>450</b>	<b>1200</b>
<b>Grand Total Credit Hours and Marks</b>			<b>106</b>	<b>30</b>	<b>136</b>	<b>3450</b>	<b>1450</b>	<b>4900</b>



# DEPARTMENT OF BASIC SCIENCES AND RELATED STUDIES

## Dr. Mohsin Shaikh Chairman

Dr. Mohsin Shaikh is working as Associate Professor, Computer Science in faculty of Engineering and Technology at University of Larkano. He received his bachelors in Software Engineering in 2006 from Mehran University of Engineering and Technology. Dr. Mohsin acquired his Master's from Hanyang University South Korea in 2010 through prestigious scholar of Higher Education Commission of Pakistan. Later on, he was appointed as Assistant Professor at University of Larkano. Dr. Shaikh acquired his doctorate qualification through CAYSS scholarship of Chung-ang University, South Korea in 2017. Dr. Shaikh continued as faculty member of computer science department at University of Larkano.



## INTRODUCTION

The department offers the courses of Mathematics and Statistics with focus on engineering applications. It also offers courses in English, Islamic Studies and Pakistan Studies with reference to engineering applications.

## CHAIRMAN MESSAGE

In our department, we recognize the indispensable role that foundational sciences play in the field of engineering. We offer a comprehensive range of courses designed to equip our students with essential skills and knowledge that are directly applicable to their engineering studies and future careers. At the Department of Basic Science & Related Studies, we are committed to providing a solid academic foundation that supports specialized learning in the various engineering disciplines offered at the University of Larkano. Our goal is to cultivate well-rounded engineers who are not only technically proficient but also capable of thinking critically, communicating effectively, and acting ethically in their professional lives.

## FACULTY

SN	Name	Designation / Qualification
1	Dr. Mohsin Shaikh	Associate Professor/Chairman B.E (MUET), M.Sc (South Korea), Ph.D (South Korea)
2	Mr. Saeed Ahmed Rajput	Assistant Professor M.Phil (QU, Islamabad) Ph.D (Maths) in Progress
3	Mr. Khalil Jibran Abbasi	Assistant Professor M.Phil (Applied Linguistics) Ph.D (Applied Linguistics) in Progress
4	Engr Sajjad Ahmed Bhatti	Assistant Professor B.E (QUEST), M.E (MUET), Ph.D (Malaysia) in Progress
5	Mr. Akhtar Hussain Hullio	Assistant Professor M.Ohil Pak-Studies (SALU) Ph.D (Pak Studies) in Progress
6	Dr. Afaqe Ahmed Bhutto	Assistant Professor M. Sc. Maths (SALU) MS (Maths) NEDUET, Karachi Ph.D (MUET, Jamshoro)
7	Mr. Musawir Sikandar	Assistant Professor M.A (Univrsty of Sindh) Ph.D (University of Sindh) in Progress
8	Dr. Sanaullah Mastoi	Assistant Professor B.S Math (QUEST), M.Phil (QUEST) Ph.D (University of Malaya) Malaysia
9	Mr. Nabi Bux Kalhoro	Assistant Professor M.Sc (University of Sindh), M.Phil (QUEST) Ph.D (Maths) in Progress
10	Mr. Ali Baksh Mugheri	Assistant Professor B.Sc, M.Sc (SALU), M.Phil (SALU) (on Study Leave)

# FACULTY OF AGRICULTURE SCIENCE



## INTRODUCTION

The Faculty of Agriculture Science formerly known as Shaheed Zulfiqar Ali Bhutto Agricultural College (SZABAC) was a constituent college of Sindh Agriculture University, Tandojam, and has now been merged as the Faculty of Agriculture Science under The University of Larkano Act, 2023, Sindh Act No. XXXIV. Which is located in Taluka Bakrani about 17 kilometers away from Larkana near Hyder Jatoi Railway Station on Bakrani-Dokri Road via Mehrabpur. The city of Dokri is about 07 kilometers in the south and the ruins of famous historical city Moen-Jodaro is about 10 kilometers in South-West. This faculty initially started functioning in the buildings of Rice Research Institute Dokri during the year 1991 and then shifted to new campus in 1998. Here in education various disciplines of agriculture (Crop Production and Crop Protection). Agriculture plays a crucial role both in Pakistan and globally, serving as the backbone of economies and a vital source of sustenance.

### IMPORTANCE OF AGRICULTURE IN PAKISTAN AND THE WORLD:

- |                                 |                              |
|---------------------------------|------------------------------|
| 1. Cultural Significance        | 7. Food Supply               |
| 2. Economic Contribution        | 8. Industrial Inputs         |
| 3. Employment                   | 9. Rural Development         |
| 4. Environmental Sustainability | 10. Sustainable Development  |
| 5. Export Earnings              | 11. Technological Innovation |
| 6. Food Security                | 12. Trade and Global Markets |

Agriculture remains a vital sector both in Pakistan and around the world. Its importance extends beyond food production to encompass economic stability, employment, trade, and environmental sustainability. Investing in agriculture and adopting innovative and sustainable practices are essential for addressing global challenges such as food security, climate change, and economic development.

**FACULTY OFFERS A B. SC. (AGRI.) HONS. DEGREE PROGRAM (4 YEARS)  
IN THE FOLLOWING DISCIPLINES OF AGRICULTURE:**

**A. Crop Production**

1. Agronomy
2. Plant Breeding and Genetics
3. Horticulture
4. Soil Science

**B. Crop Protection**

1. Entomology
2. Plant Pathology
3. Plant Protection

**Prof. Dr. Sultan Maitlo Dean**

The Faculty of Agriculture sciences offers various courses of Agriculture for B.Sc. (Agri) Hon. Degree program.

COURSES OFFERED FOR GRADUATE		
CODE	TITLE OF COURSE	C.HRS.
<b>B.Sc(Agri) Hons Part-I 1<sup>st</sup> SEMESTER</b>		
SS-301	Introduction to Soil Science	3(2+1)
AGR-301	Basic Agriculture	3(2+1)
AEE-301	Introduction to Argil. Education Extension	3(2+1)
ENG-301	English Text, Grammar and Composition	3(3+0)
ENT-301	Introductory Entomology	3(2+1)
IS/ETH-301	Islamic studies or Ethics (optional for Non-Muslim Students)	2(2+0)
MATH / BIOL-301	Functional Mathematics -I /Introduction to Biology	(2+0) / (1+1)
<b>B.Sc(Agri) Hons Part- I 2<sup>nd</sup> SEMESTER</b>		
AGR.-302	Field Crop Production-I	3(2+1)
AGEC-302	Introduction to Economics & Agricultural. Economic	3(3+0)
PBG-302	Introductory Genetics	3(2+1)
HORT-302	Introductory Horticulture	3(2+1)
PP-302	Introduction to Plant Pathogens	3(2+1)
PS-302	Pakistan Studies	2(2+0)
MATH-302/ BIOL-302	Math-II /Introduction to Zoology	3(3+0)
BT-302	Introductory Biotechnology	2(1+1)

<b>B.Sc(Agri) Hons Part- II 3<sup>rd</sup> SEMESTER</b>		
PBG-401	Introductory Plant Breeding	3(2+1)
PPT-401	Introduction to Pest Management	3(2+1)
HORT-401	Horticultural Crop Production	3(2+1)
BC P-401	Introduction to Biochemistry	3(2+1)
FST-401	Introductory Food Science & Technology	3(2+1)
AHV-401	Introductory Animal Husbandry	2(1+1)
<b>B.Sc(Agri) Hons Part- II 4<sup>th</sup> SEMESTER</b>		
AGR-402	Field Crop Production-II	3(2+1)
ENT-402	Applied Entomology	3(2+1)
AEE-402	Agric. Extension & Teaching Methods	3(2+1)
ITC-402	Computer Application	2(1+1)
FPM-402	Farm Mechanization	2(1+1)
SS-402	General Soil Science	3(2+1)
CP-402	Introductory Crop Physiology	2(1+1)

## DEGREE PROGRAM

All Seven departments offer a four-year bachelor's degree program. These departments offer semesters (four year) course work with specialization in major disciplines through following departments:

- Department of Agronomy
- Department of Soil Science
- Department of Horticulture
- Department of Plant Breeding and Genetics
- Department of Entomology
- Department of Plant Protection
- Department of Plant Pathology

# DEPARTMENT OF AGRONOMY

## Dr Javed Shabir Dar Chairman



### MESSAGE FROM CHAIRMAN

We aim to provide leadership in agronomic education through quality education, research and outreach practices which can compete with the challenges in the agricultural domain. The Department of Agronomy provides the students with a professional development in the field of agriculture and strives to equip students with the tools to serve communities as a whole through agriculture. Established with the goal of enhancing agricultural productivity, sustainability, and food security, the department has become a leading center for agronomic research, education, and outreach in Pakistan.

Our programs delve deep into the fascinating world of agronomy, from exploring the particulars of plant growth and development to the latest advancements in sustainable agricultural practices. Our aim is to equip graduates with the expertise and skills necessary to address the challenges and opportunities facing advanced agriculture.

Whether your aspirations lie in groundbreaking research, innovative agricultural practices, or contributing to the agricultural industry, the Department of Agronomy at The University of Larkano is your gateway to a fulfilling career. We invite you to join us in exploring, studying, and contributing to a sustainable future for agriculture.

### VISION

To attain distinction in agronomic education with focus on problem oriented research related to sustainable crop production and soil management for the development of farming community.

### MISSION

To promote advance and sustainable knowledge through innovative research and education to overcome the global food security.

### ACADEMIC STAFF

ACADEMIC STAFF		
Dr Javed Shabir Dar	PhD (UAF)	Associate Professor (Chairman)
Dr Zulfiqar Ali Abbasi	PhD (SAU)	Assistant Professor
Mrs Musrat Begum Abro	M.Sc. (Agri.) Hons	Assistant Professor
Dr Muhammad Mahmood-u-Rehman jamro	PhD (SAU)	Assistant Professor

<b>COURSE OFFERED FOR GRADUATE</b>		
<b>CODE</b>	<b>TITLE OF COURSE</b>	<b>C.HRS.</b>
<b>B.Sc(Agri) Hons Part- III      5<sup>th</sup> Semester</b>		
AGR-501	Arid & Rain-fed Agriculture	3(2+1)
AGR-503	Agro-Technology of Major Crops	3(2+1)
AGR-505	Field Crop Physiology	3(2+1)
AGR-507	Introduction to Crop Modeling	3(2+1)
AGR-509	Seed Production Technology	3(2+1)
STAT -511	Elementary Statistics	3(2+1)
<b>B.Sc(Agri) Hons Part- III      6<sup>th</sup> Semester</b>		
AGR-502	Farm Record Maintenance	3(2+1)
AGR-504	Principles of Weed Science	3(2+1)
AGR-506	Plant Nutrients and Growth Regulators	3(2+1)
AGR-508	Medicinal and Special Crops	3(2+1)
CP-510	General Biochemistry	3(2+1)
<b>B.Sc(Agri) Hons Part- IV      7<sup>th</sup> Semester</b>		
AGR-601	Research and Scientific Writing	3(2+1)
AGR-603	Irrigation Agronomy	3(2+1)
AGR-605	Forage and Fodder Production	3(2+1)
AGR-607	Production Technology of Condiments & Spices	3(2+1)
SUPT-611	Environment and Crop Production	3(2+1)
<b>B.Sc(Agri) Hons Part- IV      8<sup>th</sup> Semester</b>		
AGR-602	Agro Ecology	<b>2(2+0)</b>
AGR-604	Conservation Agronomy	3(2+1)
AGR-606	Organic Farming	3(2+1)
AGR-610	Internship / Report Writing	4(0+4)



# DEPARTMENT OF SOIL SCIENCE

**Mr Abdul Hameed Memon**  
**Incharge Chairman**

## MESSAGE FROM CHAIRMAN

Soil and water are the foundations of the ecosystems and vital resources in urban, rural agricultural and natural landscapes. The department of soil sciences provides highly visible leadership in teaching, research and extension / outreach programs related to improving the productivity of agriculture with environmentally sound management practices, improving soil and water quality and protection and conservation of natural resources. Our department is one of the few in the nation that offers comprehensive research and educational programs involving terrestrial, wetlands and aquatic ecosystems. In addition to traditional on-campus educational programs, we use innovative e-technologies to offer educational programs to place bound students. Our graduates are highly competitive in the job market and are thus well placed at universities state and federal agencies and private industry.

## VISION

Develop an excellent, High class department to produce Soil Scientist who have cutting edge scientific skills and expertise in both agricultural and non agricultural concern.

## MISSION

Develop knowledge of basic soil science and the interrelationships with plant nutrition and environmental quality to apply this knowledge to advance resource efficient and environmentally sound soil, plant, and environmental management technologies and Produce young soil science professionals equipped with research and market oriented approaches.

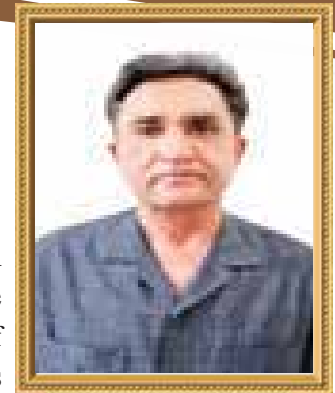


ACADEMIC STAFF		
Abdul Hameed Memon	M.Sc. (Agri) Hons	Assistant Professor & Incharge Chairman
Waqar Ahmed Pahore	M.Sc. (Agri) Hons	Lecturer

<b>COURSES OFFERED</b>		
<b>CODE</b>	<b>TITLE OF COURSE</b>	<b>C.HRS.</b>
<b>B.Sc(Agri) Hons Part- III      5<sup>th</sup> Semester</b>		
SS-501	Physical Properties of Soil	3(2+1)
SS-503	Chemical Properties of Soil	3(2+1)
SS-505	Soil Fertility and Fertilizer Use	3(2+1)
SS-507	Instrumentation & Laboratory Techniques	3(2+1)
SS-509	Soil Genesis & Morphology	3(2+1)
STAT-511	Elementary Statistics	3(2+1)
<b>B.Sc(Agri) Hons Part- III      6<sup>th</sup> Semester</b>		
SS-502	Salt Affected Soils and Water Quality	3(2+1)
SS-504	Soil Survey and Land Evaluation	3(2+1)
SS-506	Soil and Water Conservation	3(2+1)
SS-508	Soil-Water- Plant Relationship	3(2+1)
CP-510	General Biochemistry	3(2+1)
<b>B.Sc(Agri) Hons Part- IV      7<sup>th</sup> Semester</b>		
SS-601	Soil Microbiology	3(2+1)
SS-603	Environmental Pollution and Management	3(2+1)
SS-605	Trace Elements in Agriculture	3(2+1)
SS-607	Carbon Sequestration in Soil	3(2+1)
SUPT-611	Integrated Plant Nutrition Management (Supporting course)	3(2+1)
<b>B.Sc(Agri) Hons Part- IV      8<sup>th</sup> Semester</b>		
SS-602	Research Project and Scientific Writing	<b>2(2+0)</b>
SS-604	Land Degradation and Management	3(2+1)
SS-606	Municipal and Agro Waste Management	3(2+1)
SS-610	Internship / Report Writing	4(0+4)

# DEPARTMENT OF HORTICULTURE

**Ghulam Nabi Sohu**  
**Incharge Chairman**



## MESSAGE FROM CHAIRMAN

The B.Sc. (Agriculture) Honours degree in the Department of Horticulture is an undergraduate programme designed to provide students with comprehensive knowledge and skills in the field of Horticulture. This program focuses on the science and art of cultivating fruits, vegetables, flowers, and ornamental plants, encompassing aspects of plant breeding, genetics, physiology, production techniques, pest management, and sustainable practices. Students will gain hands-on experience through practical training, laboratory work, and field visits, preparing them for diverse careers in the agricultural industry, research, and academia. The curriculum is designed to address current challenges in Horticulture, promote innovation, and support the development of sustainable agricultural practices.

Graduates of this program will be equipped to contribute to the advancement of Horticulture and meet the growing demands for high-quality produce in local and global markets.

## VISION

Horticulture department is providing advisory services to the fruit, vegetable and flower growers to solve their problems. The vision is to become a well reputed Centre of study and research in the field of horticulture. Our intention is to focus on quality education, conduct research on various aspects of fruit, vegetables, flower and ornamental plants. Perform short term trainings on nursery production and popularize high yielding varieties with export potential.

## MISSION

Our intention is to focus on quality education, conduct research on various aspects of fruit, vegetables, flower and ornamental plants. Perform short term trainings on nursery production and popularize high yielding varieties with export potential.

ACADEMIC STAFF		
Ghulam Nabi Sohu	M.Sc. (Agri) Hons	Assistant Professor & Incharge Chairman
Saeed Ahmed Buriro	M.Sc. (Agri) Hons	Assistant Professor

<b>COURSES OFFERED</b>		
<b>CODE</b>	<b>TITLE OF COURSE</b>	<b>C.HRS.</b>
<b>B.Sc(Agri) Hons Part- III 5<sup>th</sup> Semester</b>		
HORT-501	Principles of Fruit Production	3(2+1)
HORT-503	Principles of Vegetable Production	3(2+1)
HORT-505	Principles of Ornamental Crop Production	3(2+1)
HORT-507	Propagation & Nursery Management	3(2+1)
HORT-509	In Vitro Propagation	3(2+1)
STAT -511	Elementary Statistics	3(2+1)
<b>B.Sc(Agri) Hons Part- III 6<sup>th</sup> Semester</b>		
HORT-502	Temperate Fruits	3(2+1)
HORT-504	Winter Vegetables	3(2+1)
HORT-506	Landscape Horticulture	3(2+1)
HORT-508	Post Harvest Horticulture	3(2+1)
CP-510	General Biochemistry	3(2+1)
<b>B.Sc(Agri) Hons Part- IV 7<sup>th</sup> Semester</b>		
HORT-601	Research Methods in Horticulture	3(2+1)
HORT-603	Tropical and Sub-tropical Fruits	3(2+1)
HORT-605	Commercial Flower Production	3(2+1)
HORT-607	Summer Vegetables	3(2+1)
SUPT-611	Solaneous Crops (Supporting course)	3(2+1)
<b>B.Sc(Agri) Hons Part- IV 8<sup>th</sup> Semester</b>		
HORT-602	Business Management in Horticulture	<b>2(2+0)</b>
HORT-604	Protected Horticulture	3(2+1)
HORT-606	Vegetable and Flower Seed Production	3(2+1)
HORT-610	Internship and Report Writing	4(0+4)

# DEPARTMENT OF PLANT BREEDING & GENETICS

**Nazeer Ali Panhwar**  
**Incharge Chairman**



## MESSAGE FROM CHAIRMAN

Pakistan is Agriculture country. Agriculture provides food and shelter to people. About 60% population resides in rural areas; where they depend directly or indirectly on agriculture for their livelihood. Sindh is and has been remained fertile due to River Indus and Great Plains, fertile for agriculture, where more average yield of crops produced, compared to other provinces. Plant Breeding has been remained important area of agricultural studies. Plant Breeding provides ways to improve crop production by superior cultivars. Today's high yielding, early maturing and stress tolerant crop varieties is the result of continuous struggles of Plant Breeders. This Department provides specialization to undergraduates and enabled them to work in vast areas of agricultural Institutes of Sindh as well as Pakistan, Banking and graduates have more chance to work in National seed companies and Multinational companies. International organizations engaged our graduates, they serve nation. The department of Plant Breeding at Faculty of Agriculture is engaged to transfer knowledge of changing heredity of crop plants, hybrid seed technology, improvement of quality and quantity of crop varieties, and evolution of new crop cultivars. Students acquaint themselves with this knowledge and utilize market orientation.

## VISION

The department provision of innovative multilateral plant breeding and genetics education, Research orientation to address global challenges and contribution to the sustainable agriculture.

## MISSION

Department of plant breeding and genetics is inspiring teaching to produce leading graduates for success in challenges to agriculture and applied research in connection with national and global impact.

ACADEMIC STAFF		
Nazeer Ali Panhwar	M.Sc. (Agri) Hons	Assistant Professor & Incharge Chairman
Abdul Razaque Mangi	M.Sc. (Agri) Hons	Assistant Professor

<b>COURSES OFFERED</b>		
<b>CODE</b>	<b>TITLE OF COURSE</b>	<b>C.HRS.</b>
<b>B.Sc(Agri) Hons Part- III 5<sup>th</sup> Semester</b>		
HORT-501	Principles of Fruit Production	3(2+1)
HORT-503	Principles of Vegetable Production	3(2+1)
HORT-505	Principles of Ornamental Crop Production	3(2+1)
HORT-507	Propagation & Nursery Management	3(2+1)
HORT-509	In Vitro Propagation	3(2+1)
STAT -511	Elementary Statistics	3(2+1)
<b>B.Sc(Agri) Hons Part- III 6<sup>th</sup> Semester</b>		
HORT-502	Temperate Fruits	3(2+1)
HORT-504	Winter Vegetables	3(2+1)
HORT-506	Landscape Horticulture	3(2+1)
HORT-508	Post Harvest Horticulture	3(2+1)
CP-510	General Biochemistry	3(2+1)
<b>B.Sc(Agri) Hons Part- IV 7<sup>th</sup> Semester</b>		
HORT-601	Research Methods in Horticulture	3(2+1)
HORT-603	Tropical and Sub-tropical Fruits	3(2+1)
HORT-605	Commercial Flower Production	3(2+1)
HORT-607	Summer Vegetables	3(2+1)
SUPT-611	Solanaceous Crops (Supporting course)	3(2+1)
<b>B.Sc(Agri) Hons Part- IV 8<sup>th</sup> Semester</b>		
HORT-602	Business Management in Horticulture	<b>2(2+0)</b>
HORT-604	Protected Horticulture	3(2+1)
HORT-606	Vegetable and Flower Seed Production	3(2+1)
HORT-610	Internship and Report Writing	4(0+4)

# DEPARTMENT OF ENTOMOLOGY

**Dr Shah Nawaz Khuhro**  
**Chairman**



## MESSAGE FROM CHAIRMAN

The B.Sc. in Agriculture Honours degree with a specialization in Entomology is a comprehensive program designed to provide students with an in-depth understanding of agricultural sciences and the study of insects. This degree equips students with the knowledge and skills necessary to address challenges in crop protection, pest management, and sustainable agriculture practices.

The Department of Entomology focuses on the role of insects in agriculture, emphasizing both their beneficial and detrimental impacts on crop production. The curriculum combines theoretical knowledge with practical experience, covering topics such as insect physiology, taxonomy, ecology, and integrated pest management (IPM).

Students will gain hands-on experience through laboratory work, field studies, and research projects. They will learn to identify and manage insect pests, understand their behaviour and life cycles, and develop environmentally friendly pest control strategies. The program also highlights the importance of beneficial insects, such as pollinators and natural enemies of pests, in maintaining ecological balance.

Graduates of this program will be well-prepared for careers in agricultural research, pest management, extension services, and agribusiness. They will also be equipped to pursue advanced studies in Entomology and related fields, contributing to the advancement of sustainable agricultural practices and food security.

Overall, Agricultural Entomology provides a solid foundation for students to become experts in the field and to make significant contributions to the agricultural industry.

## VISION

The vision of the Entomology Department is to lead in the advancement of entomological sciences through innovative research, exceptional education, and dedicated service. We aim to address global challenges in agriculture, health, and the environment by studying insects and their interactions with humans, animals, and plants. Our commitment is to produce highly skilled entomologists who will contribute to sustainable pest management, biodiversity conservation, and the overall improvement of ecosystem health. Through our efforts, we aspire to enhance the quality of life and promote a sustainable future for all.

## MISSION

The mission of the Department of Entomology is to advance the science of entomology through innovative research, comprehensive education, and impactful outreach.

### Conduct Cutting-Edge Research

Investigate the biology, ecology, and management of insects to address critical challenges in agriculture, health, and the environment.

Educate Future Leaders: Provide high-quality education and training to undergraduate and graduate students, equipping them with the knowledge and skills needed to excel in diverse careers in entomology and related fields.

### Promote Sustainable Practices:

Develop and promote integrated pest management strategies and sustainable solutions to mitigate the impact of insects on crops, human health, and natural ecosystems.

### Engage with the Community:

Engage with farmers, industry professionals, policymakers, and the general public through extension programs and outreach activities to disseminate knowledge and foster a better understanding of entomology.

### Foster Collaboration:

Encourage interdisciplinary collaboration and partnerships at local, national, and international levels to address global entomological issues and contribute to the advancement of the field.

Our commitment to excellence in research, education, and service drives our efforts to make meaningful contributions to science and society.

ACADEMIC STAFF		
Dr Shah Nawaz Khuhro	PhD (SAU)	Associate Professor (Chairman)
Dr Ghulam Sarwer Solangi	PhD (SAU)	Associate Professor
Dr Abdul Hanan Buriro	PhD (New zealand)	Associate Professor
Dr Muhammad Haroon Hullio	PhD (SAU)	Assistant Professor
Dr Shahjahan Rajput	PhD (China)	Assistant Professor
Mrs Shabana Naz Mazari	M.Sc. (Agri) Hons	Lecturer



COURSES OFFERED		
CODE	TITLE OF COURSE	C.HRS.
<b>B.Sc(Agri) Hons Part- III      5<sup>th</sup> Semester</b>		
ENT-501	Insect Morphology	3(2-1)
ENT-503	Principles of Insect Taxonomy	3(2-1)
ENT-505	Insect Ecology	3(2-1)
ENT-507	Integrated Pest Management	3(2-1)
ENT-509	Insect Behavior	3(2-1)
STAT -511	Elementary Statistics	3(2+1)
<b>B.Sc(Agri) Hons Part- III      6<sup>th</sup> Semester</b>		
ENT-502	Insect Physiology	3(2-1)
ENT-504	Range and Forest Entomology	3(2-1)
ENT-506	Insect Classification and Biodiversity	3(2-1)
ENT-508	Insect pests of Household, Men & Animals	3(2-1)
CP-510	General Biochemistry	3(2+1)
<b>B.Sc(Agri) Hons Part- IV      7<sup>th</sup> Semester</b>		
ENT-601	Stored Product Pests and Their Management	3(2-1)
ENT-603	Plant Resistance to Insect Pests	3(2-1)
ENT-605	Insecticides and Their Application	3(2-1)
ENT-607	Agriculture and Environmental Pollution	3(2-1)
ENT-611	Insecticides and Public Health (Supporting course)	3(2-1)
<b>B.Sc(Agri) Hons Part- IV      8<sup>th</sup> Semester</b>		
ENT-602	Biological Control of Insect Pests	3(2-1)
ENT-604	Acarology	3(2-1)
ENT-606	Scientific Writing and Presentation	2(2-0)
ENT-610	Internship/ Research Project	4(0-4)

# DEPARTMENT OF PLANT PATHOLOGY

## Professor Dr Sultan Maitlo Chairman



### MESSAGE FROM CHAIRMAN

The B.Sc. (Agriculture) Honours degree in the Department of Plant Pathology is a specialized program designed to provide students with comprehensive knowledge and skills in the field of plant diseases and their management. This program covers various aspects of Plant Pathology, including the identification and diagnosis of plant diseases, understanding the biology and ecology of pathogens, and developing effective disease management strategies. Students will gain practical experience through laboratory work, field studies, and research projects, preparing them for careers in agriculture, research, and related industries. The curriculum integrates theoretical knowledge with hands-on training to equip graduates with the expertise needed to address current and emerging challenges in plant health and crop protection.

Aim of the department is to carry out research on different aspects for identification and integrated management of plant diseases. Department is providing modern scientific knowledge to students enrolled in graduate program, provide guide lines to farming community for proper treatment of diseased plant and workout know how about biological and other non-chemical control measures of plant diseases.

### VISION

The vision of Plant Pathology is to lead in the advancement of sciences through innovative research. Plant Pathology address global challenges in agriculture sector, health, and the environment by studying disease of plants. Our commitment is to produce highly skilled pathologists who will contribute to overall improvement of ecosystem.

### MISSION

The mission of the Department of Pathology is to advance the science of diseases through novel research, widespread education, and their impact on crops. Investigate the cop diseases, their management; address critical challenges in agriculture sector, and environment.

Plant Pathology Provide high-quality education and training to undergraduate and graduate students; provide them with the knowledge and skills needed to stand out in different careers in pathology and interrelated fields.

ACADEMIC STAFF		
Dr Sultan Maitlo	PhD (SAU)	Professor & Dean
Dr Ahmed Panhwar	PhD (SAU)	Lecturer
Dr Musawer Gadahi	PhD (China)	Lecturer (Adhoc)

COURSES OFFERED		
CODE	TITLE OF COURSE	C.HRS.
<b>B.Sc(Agri) Hons Part- III 5<sup>th</sup> Semester</b>		
PP-501	Introduction to Plant Viruses	3(2-1)
PP-503	Introduction to Plant Prokaryotes	3(2-1)
PP-505	Introductory Mycology	3(2-1)
PP-507	Introduction to Plant Parasitic Nematodes	3(2-1)
PP-509	Seed and Post Harvest Pathology	3(2-1)
STAT- 511	Elementary Statistics	3(2+1)
<b>B.Sc(Agri) Hons Part- III 6<sup>th</sup> Semester</b>		
PP-502	Diseases of Field Crops	3(2-1)
PP-504	Diseases of Vegetables Crops	3(2-1)
PP-506	Plant Resistance to Diseases	3(2-1)
PP-508	Soil Borne Plant Pathogens	3(2-1)
CP-510	General Biochemistry	3(2+1)
<b>B.Sc(Agri) Hons Part- IV 7<sup>th</sup> Semester</b>		
PP-601	Diseases of Fruits and Ornamentals	3(2-1)
PP-603	Beneficial Microorganisms for Sustainable Agriculture	3(2-1)
PP-605	Plant Disease Epidemiology	3(2-1)
PP-607	Introductory Molecular Plant Pathology	3(2-1)
PP-611	Beneficial Microorganisms for Sustainable Agriculture (Supporting course)	3(2-1)
<b>B.Sc(Agri) Hons Part- IV 8<sup>th</sup> Semester</b>		
PP-602	Pesticides Their Action and Application	3(2-1)
PP-604	Methods and Techniques in Plant Pathology	3(2-1)
PP-606	A biotic Diseases of Plants	2(2-0)
PP-610	Internship / Research Project	4(0-4)

# DEPARTMENT OF PLANT PROTECTION

**Nusrat Hussain Abbasi**  
**Assistant Professor (Incharge Chairman)**



## MESSAGE FROM CHAIRMAN

Plant Protection is the science and practice of managing plant diseases, weeds and other pests that damage agricultural crops and forestry. Our aim is to provide a friendly working environment to faculty and students for quality teaching and research in the field of Plant Protection. Our team is highly skilled, professional and conducts research in the larger domain of Plant Protection and related subjects. Plant Protection has been remained important area of agricultural studies because it protects crop plants may be damaged by insects, birds, rodents, bacteria, etc. in the field as well in the stored places. This Department provides specialization to undergraduates and enabled them to work in vast areas of agricultural Institutes of Sindh as well as Pakistan, Banking and graduates have more chance to work in National and Multinational pesticide companies.

## VISION

To Identifying harmful and useful insects, micro-organisms in agriculture field and biological control of pests to conserve the environment, soil. In addition to practical training in plant protection, each student is expected to develop a working knowledge of ecology and expertise in the production of crops.

## MISSION

It is one of the important disciplines of agriculture and combines various aspects of Entomology, Plant Pathology and weed sciences. The major intentions of the department are to discover new techniques and demonstrate new principal of Crop Protection and improve the crop management so that local agriculture become socially viable, profitable for the farmers and competitive on over all markets.

ACADEMIC STAFF		
Nusrat Hussain Abbasi	M.Sc. (Agri) Hons	Assistant Professor & Incharge Chairman
DrTufail Ahmed Wagan	PhD (China)	Assistant Professor

COURSES OFFERED		
CODE	TITLE OF COURSE	C.HRS.
<b>B.Sc(Agri) Hons Part- III 5<sup>th</sup> Semester</b>		
PPT-501	Introduction to Pest Management	3(2-1)
PPT-503	Pests of Field Crops	3(2-1)
PPT-505	Plant Nematology	3(2-1)
PPT-507	Pest Ecology	3(2-1)
PPT-509	Introductory Acarology	3(2-1)
STAT- 511	Elementary Statistics	3(2+1)
<b>B.Sc(Agri) Hons Part- III 6<sup>th</sup> Semester</b>		
PPT-502	Post-Harvest Pest Management	3(2-1)
PPT-504	Pests of Fruits, Vegetables &Ornamentals	3(2-1)
PPT-506	Principles of Plant Disease Management	3(2-1)
PPT-508	Pesticides & their Application Techniques	3(2-1)
CP-510	General Biochemistry	3(2+1)
<b>B.Sc(Agri) Hons Part- IV 7<sup>th</sup> Semester</b>		
PPT-601	Pest Scouting and Forecasting	3(2-1)
PPT-603	Biological Control	3(2-1)
PPT-605	Vertebrate Pest and their Management	3(2-1)
PPT-607	Pollinators and Plant Protection	3(2-1)
PPT-611	Field IPM (Supporting course)	3(2-1)
<b>B.Sc(Agri) Hons Part- IV 8<sup>th</sup> Semester</b>		
PPT-602	Urban Pest Management	3(2-1)
PPT-604	Range and Forest Pest Management	3(2-1)
PPT-606	Plant Bio security and Bio safety	2(2-0)
PPT-610	Internship/Research Project	4(0-4)

## Supporting Course of Social Sciences

Social science offering compulsory and supporting course to others major disciplines, through following sections:

1. English.
2. Islamiyat & Pakistan Studies.
3. Statistics.
4. Agricultural Economics.
5. Agricultural Education Extension
6. Plant Physiology & Biochemistry

ACADEMIC STAFF		
Nisar Ahmed Pahore	M.Sc. (Agri) Hons	Assistant Professor
Ghulam Qadir Chandio	M.Sc. (Statistics)	Assistant Professor
Muhammad Ali Sangi	M.Phil	Assistant Professor



# FACULTY OF SOCIAL SCIENCES & HUMANITIES



# DEPARTMENT OF BUSINESS ADMINISTRATION

## Ghulam Mustafa Shaikh Chairman

### MESSAGE

I am absolutely delighted to extend my warm greetings to you all for choosing degree in Business Administration in the University of Larkano for higher studies. I am pleased to introduce you to the Department of Business Administration (DoBA), where we offer a comprehensive range of degree programs designed to equip you with the innovative skills, in-depth knowledge, transformative learning, and practical exposure necessary to excel in the dynamic field of business.

Our Bachelor of Business Administration (BBA) is a four-year, 08-Semester degree program offered in the morning shift, providing a strong foundation in various business disciplines. For those looking to advance their education and career, we also offer a Master of Business Administration (MBA) program, a two-year, spread over four semesters, offered in the evening shift to accommodate working professionals. We pride ourselves on offering specializations in Finance, Marketing, Human Resource Management (HRM), Entrepreneurship, Accounting, Management, and Banking. These specializations are tailored to meet the current demands of the industry and provide you with a competitive edge in your professional journey. Our department boasts a qualified faculty with extensive experience in both teaching and research. Their dedication to excellence ensures that you receive a quality education that is both rigorous and relevant.

As a Chairman of the department student's comfort, providing quality education, security and merit in the department have always remained my top priority. Don't forget, it's your golden time to explore yourself and we help you to make your future bright. I wish you all the best for your bright future and Allah Saieen Bless you all.





## FACULTY

1	<b>Mr. Ghulam Mustafa Shaikh</b> PhD*. Finance, IBA, SALU MS-Finance Gold Medalist, SIBAU	Chairman & Assistant Professor
2	<b>Dr. Ayaz Ali Maitlo</b> PhD. Entrepreneurial-Finance MBA, Academic Gold Medalist SZABIST	Assistant Professor
3	<b>Ms. Indra Mughal</b> PhD*. HRM, IBA SALU	Lecturer (Contract)
4	<b>Ms. Shagufta Saleem Shaikh</b> PhD Candidate, IBA	Lecturer (Contract)
5	<b>Mr. Ali Mustafa Abro</b> PhD*. HRM, IBA SALU	Lecturer (Contract)

## INTRODUCTION

The Department of Business Administration has been functioning since 2013. It offers Bachelor's as well as Master's degrees to various aspirants of the Larkana and its adjacent cities. The BBA degree program is comprised of four years, 08-semester, offered in the morning shift whereas for higher studies the department has two different MBA degree programs; one for candidates with a non-business degree background and who wish to elevate their careers, we offer an MBA 02-year four-semester degree in the evening and other for Business background students who have completed their BBA-four years degree the department offer MBA 02 years with four-semester degree in the evening shift. Since 2013, our eight batches successfully completed their BBA degree and 09 batches completed their MBA Degrees with flying colors. Mainly the department offers both degrees with specialization in Management, Finance, HRM, Marketing, Entrepreneurship, Accounting, and Banking but not limited to these. The department has qualified faculty with versatile experience in teaching and research. With the conducive and collaborative environment of the department specifically research domain, our students as well as faculty members have presented various papers at International Research Conferences and more than 50 papers have been published in HEC-recognized research journals. The business department has organized various International Summits and Seminars, National Guest Speaker Sessions, Workshops, Sports weeks, welcome & farewell parties, and numerous marketing & entrepreneurial-based events.

## VISION

To be a global leader in business education and research, fostering innovative, ethical, and socially responsible leaders who drive sustainable growth and create a positive impact in the global economy.

## MISSION

The mission of the Department of Business Administration is to equip students with in-depth knowledge, communication proficiency and practical skills in multiple domains of specialization. We are dedicated to creating a dynamic, inclusive learning environment that promotes innovation, ethical behavior, and critical thinking. Our aim is to develop future business leaders who can thrive in a global marketplace and make positive contributions to society through responsible and sustainable business practices.

**COURSE SCHEME OF BACHELOR'S OF BUSINESS ADMINISTRATION (BBA) FOUR YEARS DEGREE:  
THE BBA DEGREE PROGRAM (132 CHRS) IS COMPRISED OF FOUR YEARS, 08-SEMESTER,  
OFFERED IN THE MORNING SHIFT.**

**THE COURSE IS DESIGNED BASED UPON HEC, UNDER GRADUATE POLICY 2023:**

First Year	Second Year	Third Year	Fourth Year
<b>Semester-I</b>	<b>Semester-I</b>	<b>Semester-I</b>	<b>Semester-I</b>
1- Functional English	1. Financial Accounting-II	1. Managerial Economics	1. Production & Operations Management
2- Principles of Microeconomics	2. Principles of Marketing	2. Pakistan Economy	2. Business Methods for Research
3- Islamic Studies/Ethics	3. Quantitative Reasoning-II	3. Inferential Statistics	3. Business Analysis & Forecasting
4- Applications of Information and Communication Technologies	4. Environmental Science	4. Financial Management	4. Elective-I
5- Business Mathematics and Applications	5. Introduction to Sociology	5. Auditing	5. Elective-II
6- Ideology and Constitution of Pakistan	6. Effective Business Communication	6. Business Laws & Taxation	
<b>Semester-II</b>	<b>Semester-II</b>	<b>Semester-II</b>	<b>Semester-II</b>
1- Expository Writing	1. Money & Banking	1. Cost & Mgt. Accounting	1. Quantitative Tools for Managers
2- Macro Economics	2. Entrepreneurship	2. Financial Markets & Institutions	2. Strategic Management
3- Financial Accounting	3. Organizational Behaviour	3. Business Ethics	3. Capstone Project
4- Principles of Management	4. Principles of Business Finance	4. HRM	4. Elective-III
5- Quantitative Reasoning I	5. Civic and Community Engagement	5. Management Information System	5. Elective-IV
6- Introduction to Philosophy	6. Marketing Management	6. Business Internship*	

## COURSE ELECTIVES

<p><b>FINANCE</b></p> <ul style="list-style-type: none"> <li>Capital Market Analysis</li> <li>International Financial Management</li> <li>Corporate Finance</li> <li>Islamic Banking and Finance</li> <li>Basics of Financial Modelling</li> <li>Financial Econometrics</li> <li>Financial Reporting and Analysis</li> <li>Financial Derivates</li> <li>Financial Technology</li> <li>Sustainable Finance</li> <li>Financial Risk Management</li> <li>Security Analysis/ Behavioural Finance</li> <li>Financial Econometrics</li> </ul>	<p><b>ENTREPRENEURSHIP</b></p> <ul style="list-style-type: none"> <li>Entrepreneurial Marketing</li> <li>Entrepreneurial Management</li> <li>Entrepreneurial Finance</li> <li>Corporate Entrepreneurship</li> <li>Social Entrepreneurial Management</li> <li>Developing Entrepreneurial</li> <li>Opportunities Creativity &amp; Innovation</li> <li>Business Law &amp; Entrepreneurship</li> <li>Sales Strategy in Entrepreneurial</li> <li>Venture Sustainable Entrepreneurial</li> <li>Strategies</li> </ul>	<p><b>MARKETING</b></p> <ul style="list-style-type: none"> <li>Consumer Behavior</li> <li>Brand Management</li> <li>Integrated Marketing</li> <li>Communication Sales Management</li> <li>Retail Management</li> <li>New Product Development</li> <li>Marketing Analytics and Decision</li> <li>Data Visualization and</li> <li>Communication Services Marketing</li> <li>Marketing for Entrepreneurs</li> <li>Digital Marketing</li> <li>Social Media Marketing</li> </ul>
<p><b>HUMAN RESOURCE MANAGEMENT</b></p> <ul style="list-style-type: none"> <li>Human Resource Development</li> <li>Recruitment and Selection</li> <li>Performance and Compensation</li> <li>Management Employee Training and</li> <li>Development Labor laws in Pakistan</li> <li>Leadership and Team Management</li> <li>Management of Industrial Relations</li> <li>Negotiation and Conflict Management</li> </ul>	<p><b>ACCOUNTING</b></p> <ul style="list-style-type: none"> <li>Bookkeeping Basics</li> <li>Excel for Accountants</li> <li>Company Law International Accounting Standards and</li> <li>Practices Advanced Cost and Management</li> <li>Accounting Auditing Evaluation and Management Coding</li> </ul>	

### **MBA Degree Program for Business Graduates:**

It is premised on nurturing and fostering a business leadership mindset in students by providing a comprehensive theoretical knowledge and practical understanding of business as well as emerging interdisciplinary fields. The curriculum is structured to help students learn a set of skills required to identify business opportunities and critically evaluate associated present & future challenges, to integrate ethical, social & environmental responsibilities in decision-making, to work collaboratively, to communicate effectively, and to develop a global business perspective.

### **Course Scheme MBA Degree Program for Business Graduates:**

The MBA program comprised of 02 years; 04 Semesters with a total credit hours of 36 for those who passed BBA four-year degree. The scheme is designed upon HEC graduate policy 2023:

SNO	Course Title	SNO	Course Title
1	Strategic Management	1	Strategic Marketing
2	Strategic Finance	2	Qualitative Methods in Business Research
3	Business Elective I	3	Business Elective II

Business Internship (03 credit hours) in 2<sup>nd</sup> semester for a period of 6-8 weeks preferably during summer vacation.

SNO	Course Title	SNO	Course Title
1	Quantitative Methods in Business Research	1	Business Elective IV
2	Business Elective III	2	MBA Research Project II OR MBA Thesis II (03 CH)
3	MBA Research Project I OR MBA Thesis I (03 CH)	3	Comprehensive VIVA VOCE (NC)

**Course Scheme MBA Degree Program for Non-Business Graduates:**

The MBA program comprised of 02 years; 04 Semesters with a total credit hours of 69-72 for those who passed/ qualified 16 years of education such as BE, MBBS, BS, MA, MSc. Or any relevant degree:

Semester – I	Semester- II	Semester- II	Semester-IV
Management Theory and Practice	Financial Management	Entrepreneurship	Strategic Finance
Financial Accounting	Management Information System	Strategic Marketing Management	Business Intelligence and Analytics
Mathematics and Statistics for Business	Supply Chain Management	Business Elective I	Business Elective III
Business Economics	Cost and Management Accounting	Business Elective II	Business Elective IV
Business Communication	Organizational Behavior and Leadership	Research Project I OR Thesis I	Research Project II OR Thesis II
Principles and Practice of Marketing	Research Methods for Business	Business Internship	Comprehensive VIVA VOCE (NC)

# DEPARTMENT OF COMPUTER SCIENCE

**Dr Sajjad Ahmed Bhatti**  
CHAIRMAN



## MESSAGE

It is big pleasure for me to represent Computer Science Department that I have been serving for Department of Computer Science since 2014. Belonging to Larkana region, it is great time for me to deliver the knowledge of computer science field to Larkanians and others. From 2013 TO 2024 eight (08) batches have passed out, about five hundred belonging to Larkana region and its surroundings graduated, The graduating students of the plus candidates department are providing services in various walks of life like software houses, schools, colleges, universities, medicals, banking, government sectors and non-government sectors, we have been functioning to make computer scientists in (Artificial Intelligence, Web Engineering, Database Developing, Computer Architects, Computer Networking, Wireless Sensors Networks, Data Science, Information Securing, Python Programming, Software Project Development and Information Technology) fields. The courses we offer are updated and latest. Twice in a year, we organize seminars, workshops and software project exhibitions where experts share their knowledge to make aware about latest technologies, career counseling, software & hardware project developments and about research to strength students' knowledge.

## INTRODUCTION

The Department of Computer Science was established in March 2013 at Sindh University Campus Larkana under the Administration of University of Sindh Jamshoro, The Department began by offering BSCS (Bachelor of Science in Computer Science) 4 Years Program. This Department merged into University of Larkano on dated 4/9/2024 according to The University of Larkano Act 2023 (Sindh Act No. XXXIV of 2023) and fully administered / functional by The University of Larkano in the month of January 2024.

## VISION

- To produce highly qualified Computer Scientists
- To produce Computer Programmers & Software Engineers
- To produce Network Administrators & System Administrators and Database Administrators
- To produce Researchers with having deep knowledge and innovative ideas
- To produce Computer Experts who may work over designing and development of Expert Systems & Robotics

## MISSION

To provide high quality and state-of-the-art education and skills to the students of computer science along with technical, ethical, and leadership qualities, produced professionals and scientists may serve for nation and humanity effectively throughout the world.

## GOAL

As we all know that Computers have changed the world since its birth, computers are everywhere like at (homes, hotels, shops, offices, banks, schools, colleges, universities, companies, industries, factories, armies etc). The usages of Computers have made life easier than before. Taking advantage of computing facilities and keeping same objectives and goals for educating computing field to Larknians and others is the priority of Department of Computer Science.

## FACULTY

<p><b>Dr. Sajjad Bhatti</b> Assistant Professor (Computer Science) Chairman Ph.D (Malaysia)</p>	<p><b>Ms. Shazia Samoon</b> Lecturer (On Study Leave) M.Phil S.U 2020</p>
<p><b>Dr. Nadeem Ahmed Kanasro</b> Assistant Professor Ph.D (Computer Science) S.U 2022</p>	<p><b>Mr. Abdul Rasheed Chandio</b> Teaching Assistant M.Sc S.U 2016</p>
<p><b>Dr. Mohsin Shaikh</b> Associate Professor (Computer Science) (Shared faculty member) M.S (Computer Science) Hanyang University, South Korea Ph.D (Computer Science) Chung-ang University, South Korea</p>	<p><b>Ms. Saba Noonari</b> Teaching Assistant BS(SWE) S.U 2019</p>
<p><b>Mr. Asif Ali Jamali</b> Lecturer (On Study Leave) M.E (IT) 2018 Mehran University Jamshoro</p>	<p><b>Mr. Abdullah Niaz Shaikh</b> Teaching Assistant BS(CS) SUCL-SU 2020</p>
	<p><b>Mr. Mansoor Ahmed Mangi</b> Teaching Assistant BS(CS) SUCL-SU 2020</p>

## COMPUTER SCIENCE PROGRAM

### BS (CS) 4 Years Degree Program (8 Semesters) 136 CH

#### First Year (First Semester) 15 Credit Hours

S#	Course Code	Course Title	CH
1	CC-310	Programming Fundamentals	3
2	CC-311	Programming Fundamentals (Lab)	1
3	CSGE-304	Introduction to Information and Communication Technologies	2
4	CSGE-305	Introduction to Information and Communication Technologies (Lab)	1
5	CSGE-306	English Composition and Comprehension	3
6	PKST-300	Pakistan Studies	2
7	CSMS-382	Applied Physics	3
8	MDC-387	Pre-Calculus-I	3* NC

#### First Year (Second Semester) 19 Credit Hours

S#	Course Code	Course Title	CH
1	CSC-310	Digital Logic Design	3
2	CSC-311	Digital Logic Design (Lab)	1
3	CC-312	Object Oriented Programming	3
3	CC-313	Object Oriented Programming (Lab)	1
4	CSUE-390	University Elective – 1	3
5	CSGE-308	Communication and Presentation Skills	3
6	ISST-301	Islamic Studies (For Muslims)	2
	ETHS-301	Ethics (For Non-Muslims)	
7	CSMS-380	Calculus and Analytical Geometry	3
9	MDC-388	Pre-Calculus-II	3* NC

#### Second Year (Third Semester) 17 Credit Hours

S#	Course Code	Course Title	CH
1	CSC-430	Computer Organization and Assembly Language	3
2	CSC-431	Computer Organization and Assembly Language (Lab)	1
3	CC-314	Discrete Structure	3
4	CC-410	Data Structure and Algorithms	3
5	CC-411	Data Structure and Algorithms (Lab)	1
6	CC-412	Software Engineering	3
7	CSMS-480	Linear Algebra	3

**Second Year (Fourth Semester) 19 Credit Hours**

S#	Course Code	Course Title	CH
1	CSC-432	Theory of Automata	3
2	CC-414	Database System	3
3	CC-415	Database System (Lab)	1
4	CSS-450	CS Supporting – 1	3
5	CSS-451	CS Supporting – 2	3
6	CSMS-482	Probability and Statistics	3
7	CSUE-490	University Elective – 2	3

**Third Year (Fifth Semester) 16 Credit Hours**

S#	Course Code	Course Title	CH
1	CSC-530	Design and Analysis of Algorithm	3
2	CSC-532	Compiler Construction	3
3	CC-510	Computer Networks	3
4	CC-511	Computer Networks (Lab)	1
5	CSE-560	CS Elective – 1	3
6	CSUE-492	University Elective – 3	3

**Third Year (Sixth Semester) 19 Credit Hours**

S#	Course Code	Course Title	CH
1	CC-512	Operating System	3
2	CC-513	Operating System (Lab)	1
3	CC-514	Information Security	3
4	CSE-562	CS Elective – 2	3
5	CSE-564	CS Elective – 3	3
6	CSGE-504	Technical and Business Writing	3
7	CSS-550	CS Supporting – 3	3

**Fourth Year (Seventh Semester) 16 Credit Hours**

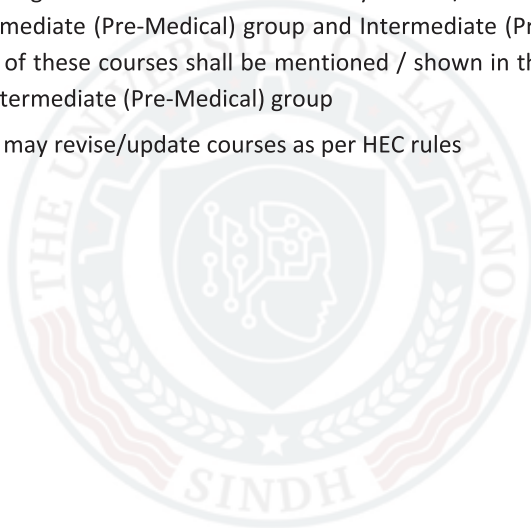
S#	Course Code	Course Title	CH
1	CSC-630	Artificial Intelligence	3
2	CSC-631	Artificial Intelligence (Lab)	1
3	CSE-660`	CS Elective – 4	3
4	CSE-662	CS Elective – 5	3
5	CSGE-604	Professional Practices	3
6	CC-611	Final Year Project – 1	3



## Fourth Year (Eighth Semester) 15 Credit Hours

S#	Course Code	Course Title	CH
1	CSC-632	Parallel and Distributed Computing	3
2	CSE-664	CS Elective – 6	3
3	CSE-662	CS Elective – 7	3
4	CSUE-690	University Elective – 4	3
5	CC-613	Final Year Project – 2	3

- Extra 6 credit hours of Pre-Calculus I and Pre-Calculus II courses are only for students of Intermediate (Pre-Medical) group. The grade of these courses shall only be Pass/Fail to enable equivalent CGPA for both students of Intermediate (Pre-Medical) group and Intermediate (Pre-Engineering) in the same batch. Also, the grade of these courses shall be mentioned / shown in the BS (CS) transcript / mark sheet of students of Intermediate (Pre-Medical) group
- BoS (Board of Studies) may revise/update courses as per HEC rules



## DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE, (DELL)

### Khalil Jibran Abbasi

#### CHAIRMAN

Welcome to the Department of English Language and Literature (DELL) at the University of Larkano (TUoL)!

Our department stands as a beacon of academic excellence, dedicated to the exploration and appreciation of the English language in all its dimensions. Whether you are a prospective student, a current member of our vibrant community, or an esteemed colleague, we invite you to explore the diverse opportunities that our department offers. At the Department of English Language and Literature, we are committed to nurturing a deep understanding of literature, linguistics, creative writing, and critical theory. Our young & emerging faculty members are distinguished scholars and passionate educators who are dedicated to inspiring intellectual curiosity and academic achievement among our students.

As a student in our department, you will have access to a rich array of courses and programs designed to cultivate your analytical skills, enhance your writing proficiency, and broaden your cultural perspectives. Our curriculum combines rigorous academic study with innovative approaches to teaching and learning, ensuring that you are well-equipped to succeed in your chosen career path.

Beyond the classroom, our department fosters a dynamic intellectual community where students can engage in lively discussions, collaborate on research projects, and participate in literary and cultural events. We encourage you to take advantage of our state-of-the-art facilities, including our specialized libraries and research centers, which provide invaluable resources for your academic endeavors.

Whether your interests lie in literary analysis, language acquisition, or creative expression, the Department of English Language and Literature (DELL) is here to support your academic and professional aspirations. We invite you to embark on a journey of discovery with us, where you will explore the richness of the English language and its profound impact on global culture.

Thank you for visiting our website. We look forward to welcoming you to our department and guiding you on your academic journey.



## INTRODUCTION:

The Department of English Language & Literature at Sindh University, Larkana Campus, was established in 2013, concurrent with the founding of the campus itself in Larkana. Initially, the department conducted its classes at the Govt. Commerce College building. In 2020, the campus relocated to the Parveen Aitsami building on PTS Road, Larkana, providing a more dedicated space for its academic activities.

Since its inception, the Department of English Language & Literature (DELL) has seen approximately 11 batches of students graduate. Over 1000 students have completed their degrees through this department at Sindh University, Larkana Campus. The department has been integral in fostering a scholarly environment and contributing to the academic and cultural landscape of the region.

Recently, the campus has been merged into the University of Larkano, Sindh, marking a new chapter in its institutional history. This merger aims to further enhance academic opportunities and administrative efficiencies while continuing to uphold the academic excellence of the Department of English Language & Literature (DELL).

## VISION

To celebrate intellectual diversity and academic harmony.

## MISSION

To help students see how language and literature are an effective tool to bring about a change that promotes peace, stability, diversity and harmony in a diverse society.

## OBJECTIVES

- Active involvement of students and faculty in most academic and extra academic activities.
- Arrange seminar at the Department, in which experts from a range of discipline will give talks to faculty and students.
- Reactivate English Literary Club and have students arrange a variety of programs on a given day.

## FACULTY

SN	Name	Designation / Qualification
1	<b>Abbasi, Mr. Khalil Jibran</b>	Assistant Professor and Chairman, MPhil (Applied Linguistics) PHD (Applied Linguistics) (Continue)
2	<b>Tunio, Mr. Wazir</b>	Teaching Assistant BS (English Linguistics), 2018, University of Sindh Jamshoro.
3	<b>Kalhor, Mr. Ali Zaman</b>	Teaching Assistant BS (English), 2020, Sindh University Campus, Larkano.
4	<b>Panwhar, Mr. Sohail Abbas</b>	Teaching Assistant BS (English Literature), 2022, University of Sindh.
5	<b>Abbasi , Ms. Inayat Fatima</b>	Teaching Assistant MA (English), 2019, Sindh University Campus, Larkano.
6	<b>Memon, Mr. Mohammad Yaseen</b>	Teaching Assistant BS (English), 2023, Sindh University Campus, Larkano.
7	<b>Chandio Anam</b>	Teaching Assistant BS English Applied linguistics, University of Sindh Jamshoro.
8	<b>Soomro Rukhsar</b>	Teaching Assistant BS English ( Literature) , The University of Sindh, Jamshoro
9	<b>Abro Sanober</b>	Teaching Assistant BS(English) Language and literature, University of Sindh Jamshoro

## BACHELOR OF STUDIES (BS) IN ENGLISH LANGUAGE AND LITERATURE (4 YEARS)

### Degree Description

The BS in English Language and Literature is a comprehensive 4-year program divided into 8 semesters, each lasting 6 months. This program provides students with a solid foundation in English literature, language, and critical analysis.

### Purpose of Degree

The purpose of the BS program is to develop students' proficiency in writing and communication, enhance their critical thinking and analytical abilities, and deepen their understanding of literary works and cultural contexts. It prepares students for advanced studies and various professional paths by equipping them with essential skills and knowledge.

### Future of the Degree

Graduates of the BS program are well-prepared to pursue further studies, such as a Master's degree in English, or enter the workforce in diverse fields. The degree serves as a stepping stone for academic and professional advancement.

## (BS 3RD YEAR) ENGLISH LANGUAGE & LITERATURE (2 YEARS) (will be initiated soon....)

### Degree Description

The BS (3rd Year) in English Language and Literature is a 2-year program consisting of 4 semesters. This advanced degree focuses on deepening students' expertise in literary analysis, research, and critical theory.

### Purpose of Degree

The BS (3rd Year) program aims to refine students' analytical and research skills, enhance their creative writing and expression abilities, and expand their understanding of linguistic and literary theories. It prepares graduates for specialized careers and academic pursuits in English literature and language.

### Future of the Degree

The BS (3rd Year) in English Language and Literature opens doors to higher-level professional opportunities and academic roles. Graduates can pursue doctoral studies, advanced research positions, or leadership roles in various industries.

## BENEFITS OF THE PROGRAMS

1. Enhanced writing and communication skills
2. Critical thinking and analytical abilities
3. Literary knowledge and cultural understanding
4. Improved vocabulary and language proficiency
5. Research and critical analysis skills
6. Creative writing and expression abilities
7. Understanding of linguistic and literary theories
8. Preparation for careers in writing, editing, teaching, and more
9. Development of strong analytical and problem-solving skills
10. Enhanced understanding of diverse perspectives and worldviews

The Department of English Language and Literature provides a comprehensive education that fosters a deep understanding of literature, language, and culture, preparing students for a wide range of career paths and academic pursuits.



## PROGRAMS OFFERED

### BS English (4 Years Program, 8 Semesters) - CH-133 (Morning)

#### FIRST YEAR

First Semester	Second Semester
ENGL -300 Functional English -I	ENGL -301 Functional English -II
ENGL -310 Academic Writing	ENGL -311 Language Skills
ENGL -312 Introduction to Literature	ENGL -313 Introduction to Linguistics
Islamic Studies	Pakistan Studies
Minor -I	Minor -I
Minor -II	Minor -II

#### SECOND YEAR

Third Semester	Fourth Semester
ENGL -400 English Compulsory -I	ENGL -401 English Compulsory -II
ENGL -410 English Poetry -I	ENGL -413 English Poetry -II
ENGL -412 Prosody and Literary Terms	ENGL -411 History of English Language
Sindhi Compulsory	Sindhi Compulsory -I
Minor -I	Minor -I
Minor -II	Minor -II

#### THIRD YEAR/BS (3RD YEAR)

Fifth Semester	Sixth Semester
ENGL -500 History of English Literature -I	ENGL -505 History of English Literature -II
ENGL -501 English Drama -I	ENGL -506 English Drama -II
ENGL -502 Literary Criticism -I	ENGL -507 Literary Criticism -II
ENGL -503 English Prose -II	ENGL -508 English Prose -II
ENGL -504 Introduction to Pakistani Literature in English	ENGL -509 English Language Teaching
Remedial English -I	Remedial English -II

#### FOURTH YEAR/BS (FINAL)

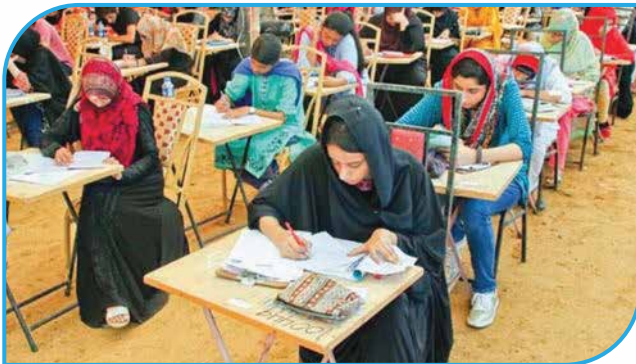
Seventh Semester	Eighth Semester
ENGL -600 Syllabus Design and Material Development	ENGL -605 Language Teaching Through Literature
ENGL -601 Fiction -I	ENGL -606 Fiction -II
ENGL -602 American Literature	ENGL -607 Literary Pedagogy and Practicum
ENGL -603 World Literature	ENGL -608 Post-Colonial Literature
ENGL -604 Research Methodology and Literary Theory	ENGL -609 Dissertation/Literary Stylistics
	ENGL -610 Viva Voce







## ADMISSION PROCEDURE/ RULES & REGULATIONS



## I. ADMISSION POLICY 2024

### APPLICATION PROCESS

Call for admissions shall be advertised in the prominent newspapers of national and regional repute as well as on the University Website University of Larkano.edu.pk/social media.

The candidates who intend to apply for admission to bachelor's degree programs for the academic year 2024-25 may fill online registration/admission form at <https://uolrk.edu.pk/undergraduate> by following given guidelines at University of Larkano website.

A valid email address and mobile number is mandatory to complete the registration process.

The candidates are required to deposit registration/admission processing fee through mobile banking app: in relevant account (0010122922170014 Allied Band Limited ) or by generating the online Challan of Rs. 3200/-(non-refundable) as registration/processing fee for merit/self-finance quota seats and Rs. 6000/- (non-refundable) for Merit & Sports Quota seats and pay at any nearest branch of ABL. Single payment of Rs.4000/-for competition against Sports Quota seats shall be considered for District Merit seats only.

The candidate must upload the scanned copies of all the required documents with a copy of paid bank Challan or receipt of mobile banking application as indicated above.

Candidates applying against seats reserved under self finance schemes shall need to tick (✓) these If self-finance option( )given in online registration form.

The candidate shall be required to send the printed copy of the registration/admission form along with four (04) recent passport size photographs, documents& paid bank challan of prescribed/required amount of fees through surface mail up to closing date to the Director Admissions (Undergraduate Programs), University of Larkano.

The eligibility of the candidate for admission should decide by the University after scrutinizing the documents provided by the candidates.

Pre-Admission Entry Test slip will be sent to all eligible candidates on their given email addresses for entrance in test center. The candidate must print the admit slip and bring the same on the day of pre-admission entry test along with original CNIC/B-Form.

*The appearance/passing in the pre-admission test does not mean the Candidate is eligible for admission.*

**The eligibility criteria for admission is given below, titled “Eligibility”.**

Since the registration/admission form is legal document, any wrong information provided there in or tempering it in any other way is illegal and may result in rejection of the form out rightly.

## II. RULES & REGULATIONS 2024

Following rules shall apply to candidates seeking admissions to the First Year for all degree programs at University of Larkano.

Admissions are made according to the policies and rules framed by the authorities of the University from time to time and reserve the right to revise change when deemed necessary without any notice.

It has zero tolerance for submission of fraudulent or forged documents or for mis representation of any kind by applicants. In case of provision of wrong or false information, the applicant shall held responsible, and the University, reserves the right to cancel the degree of such a candidate, at any stage, who succeeds in getting admission by submitting forged/false document(s) or making false entries or take any other action as deemed appropriate. Additionally, they may also be debarred for a period of three years for future admission and all payments made to the University shall be for feited in favor of the University.

### ELIGIBILITY

Minimum requirements of admission shall be Intermediate (Pre-Medical, Pre-Engineering, Pre- Computer/General Science, Commerce and FA/F.Sc.) in Annual Examination 2024 or earlier up to 2021 or an equivalent qualification with at least 50% marks. This condition applies to all merit, self-finance as well as reserved seats and specified quotas. However, the eligibility for B.E. degree program shall be 60% marks in Intermediate (Pre-Engineering). Rural/Urban quota shall strictly be observed for reserved seats of various districts of Sindh Province.

Candidates appearing/passing Intermediate (Pre-Medical, Pre-Engineering, Pre-Computer/General Science, Humanities, Commerce, Arts &FA/FSc)in the supplementary Examination2024 shall not be eligible; however, candidates passed their Intermediate Science in supplementary examinations during the years 2021, 2022and 2023 will be considered for admissions.

## Eligibility Criteria for UG Program

### Faculty of Engineering

- B.E. in Civil Engineering
- B.E. in Mechanical Engineering
- B.E. in Electrical Engineering
- B.E. in Electronic Engineering

### Eligibility

Intermediate  
Pre-Engineering/ Pre-Medical  
With 60% Marks

### Faculty of Agriculture Science

- B. Sc. Hons. In (Agriculture)
- Agronomy
  - Horticulture
  - Soil Science
  - Entomology
  - Plant Pathology
  - Plant Protection
  - Plant Breeding and Genetics

### Eligibility

Intermediate Pre-Engineering /  
Pre Medical With 50% Marks

### Faculty of Social Sciences & Humanities

- Bachelor of Business Administration (BBA)
- BS (English Language & Literature)
- BS (Computer Science)

### Eligibility

Pre-Engineering, Pre Medical,  
Computer Science, Commerce,  
Humanities, With 50% Marks.

Candidate applying for BE Program must possess at least 60% marks in XI (HSC-I) or equivalent in the Annual Examinations of '23, or HSC-II or equivalent earlier up to 2021 & min. 50 % Marks for BS/B.Sc.

Admission of Sindh-domiciled candidates in various undergraduate degree programs including BS degree programs shall be made according to district quota. The selection of candidates from district quota shall be 80% from rural and 20% from urban areas. Urban areas in each district/division will be confined to Municipalities / Corporations as determined by the revenue department and the rest of the areas will be considered rural. However, seats falling vacant either from rural or urban quota shall be filled within district/division.

Vacant seats from the quota of any one or more districts of a division shall be filled in from amongst the remaining candidates of the other districts of that division in order of their merit. In all cases, 70:30 ratio (rural 70%:urban 30%) shall be maintained. However, the seats still falling vacant (either urban or rural) shall be filled within division. Even after observing the above formulations, any seat falling vacant shall be filled on an overall merit basis at provincial level. In the case of marks being equal between two or more candidates, selection will be made based on marks obtained in pre-admission test.

In case of reserved quota for Defense Personnel, the selection of nominees of GHQ, Rawalpindi and Naval Headquarter, Islamabad shall be made at the ratio of 70:30 (70% for army/GHQ& 30% for Naval Headquarter).

**Note:** (Scholarships are available for female students in the Faculty of Agriculture) to encourage the female students in Agriculture Sector.

Real sons / daughters / brothers / sisters & Spouses of regular employees of University of Larkano, shall be eligible to compete for the reserved seats, provided that their parents should have 2 years of continuous regular service in the University (in-service, retired or expired). However, preference shall be given to sons / daughters. The 50% exemption from payment of fees shall only be allowed for Real Sons / Daughters / Brothers / Sisters & Spouses of regular employees of University of Larkano, who will compete and select on District/other merit quota seats.

The selection of candidates on sports quota shall be recommended for admission by the Selection Committee to be constituted by the Vice Chancellor. However, the seats are reserved only for candidates domiciled of various districts of Sindh Province. The candidates who have applied for admission and admitted under self-finance scheme shall not be considered to compete for admission against sports quota seats.

In case the selection of candidates is made in the faculty other than the first choice of candidate(s) as per earlier selection list, they shall have to seek registration by paying prescribed amount of fee, if they want to be considered against waiting list and if they are interested to seek admission in discipline higher up in preference order, failing which they shall lose their right of admission and they shall not be considered for admission for the next selection list(s) even though they possess higher score of marks. Candidate(s) desire to retain the discipline/faculty where he/she has been selected earlier, he/she may do so by submitting hand written application n with fees of Rs.200/-to

be deposited in the university account through bank Challan within 07 (seven) days from the date of announcement of list positively to the Director, Admissions (Undergraduate). If he/she failed to submit discipline /faculty retention application along with paid Challan of Rs. 200/- within stipulated time period in the office of the Director Admissions (Undergraduate) and later he wants to retain his/her earlier selection, he/she shall pay penalty of Rs. 5000/- through bank Challan for retention of his/her earlier selection subject to availability of seat(s).

Full (100%) Fee Refund	Upto 7 <sup>th</sup> day of commencement of classes	Up to 15 <sup>th</sup> day of commencement of classes
Half (50%) Fee Refund	From 8 <sup>th</sup> –15 <sup>th</sup> day of commencement of classes	From 16 <sup>th</sup> – 30 <sup>th</sup> day of commencement of classes
No Fee (0%) Refund	From 16 <sup>th</sup> day of commencement of classes	From 31 <sup>st</sup> day of commencement of classes

There shall be no refund of self-finance fees after the admission process is over. However, if the candidate gets admission earlier under the self-finance scheme but later ,he/she is considered/allowed admission on merit, he / she shall be entitled to get self-finance fee as well as extra / excess amount of registration fees refunded. All the candidates must produce marks certificates of S.S.C., H.S.C., Domicile, PRC, and other required documents in original at the time of admission/registration which will be returned after necessary verification except intermediate marks certificate.

## PRE-ADMISSION TEST

In accordance with the policies adopted by the Federal as well as Provincial Governments, all the eligible candidates applying under all categories except nominees of Armed Forces / Overseas / Foreigners, shall compulsorily have to appear in a University Pre-admission Test.

The Candidates having secured less than 33% marks in pre-admission test, shall not be eligible for admission at the University.

Test shall be conducted in from concerned subjects, with subject-wise weightage, number of questions and marks as shown below:

## TEST PATTERN

Pre-Engineering and Pre-Medical students take the TUOL pre-entry test in the following subjects. Based on their merit, they have the option to choose any department from the Faculty of Engineering Science and Technology, the Faculty of Agricultural Science, or the Faculty of Social Sciences and Humanities.

Subject	No. of Questions	Marks
Physics	25	25
Chemistry	25	25
Biology/Maths	25	25
English	25	25
Total	100	100

Arts or General group students take the TUOL pre-entry test in the following subjects. Based on their merit, they have the option to choose any department from only the Faculty of Social Sciences and Humanities.

### FACULTY OF SOCIAL SCIENCES & HUMANITIES (GENERAL TEST)

Subject	No. of Questions	Marks
English	30	30
Gen. Knowledge (PS-SS & Current Affairs)	20	20
Everyday Science	20	20
Islamiat	10	10
Arithmetics (Maths)	10	10
Computer (Basic)	10	10
Total	100	100

The Final merit list of the candidates for each district/category shall be prepared by calculating their overall merit, based on the marks obtained in each of the following examinations; multiplying them with the respective weightage and adding the result calculate the “Composite Percentage Number” as Described below.

Examination	MULTIPLYING WEIGHTAGE
a) Matriculation	0.1
b) Intermediate	0.3
c) Pre-Admission Test	0.6

One percent (01%) of the aggregate marks for each year shall be deducted from the total marks of Intermediate Science/ equivalent examination if the examination was passed before 2024.

### **IDENTITY CARD**

The students, after allowing admission at the University/, will be issued identity cards. It is necessary for the students to keep their valid identity cards with them while attending the classes, traveling in the point buses and/or staying at the campus.

### **RE- ADMISSION**

Those students who remained absent from their classes or examinations for any reasons, will be considered for re-admission in the appropriate semester where they left their study program, with the appropriate batch subject to application of other relevant rules ,provided the application for re-admission shall be routed through the Dean/ Coordinator.



## FEE STRUCTURE

### FACULTY OF ENGINEERING - FEE STRUCTURE FOR BACHELOR (B.E) DEGREE PROGRAM (MERIT) 2024 (SEMESTER WISE)

S#	CLASS	Admission Fee	Caution Money	Marks Certificate Verification Fee (Once)	Enrolment Fee	Sports fee	Extra- Curricular Activities Fee	Student Identity Card	Study Tour Fee	UDP	Library	Laboratory/Computer Lab Fee	Bus Fare	Tuition Fee	Examination Fee	Total (First Semester)	3 <sup>rd</sup> , 5 <sup>th</sup> & 7 <sup>th</sup> Semester	2 <sup>nd</sup> , 4 <sup>th</sup> , 6 <sup>th</sup> & 8 <sup>th</sup> Semester
1	B.E. (Civil-Electrical-Mechanical & Electronic)	17000	1000	1000	1000	1000	500	600	1500	1000	1000	2000	10000	18000	2000	57600	35500	34400

### FACULTY OF SOCIAL SCIENCES & HUMANITIES - FEE STRUCTURE FOR BACHELOR DEGREE PROGRAM (MERIT) 2024 (SEMESTER WISE)

2	Bachelor of Business Administration (BBA)	5500	500	1500	1000	200	500	600	1500	500	500	1200	6000	7500	1000	28000	25500	24500
3	BS (Computer Science)	7500	500	1500	1000	200	500	600	1500	500	500	1500	6000	7500	1000	30300	25800	24800
4	BS (English Language & Literature)	3500	500	1500	1000	200	300	600	1500	500	0	6000	6500	1000	23600	21300	20600	

### FACULTY OF AGRICULTURE SCIENCE- FEE STRUCTURE FOR BACHELOR DEGREE PROGRAM (MERIT) 2024 (SEMESTER WISE)

5	B.Sc. (Hons.) in Agriculture	4000	500	1500	1000	200	300	600	1500	500	500	400	6000	6500	1000	24500	20500	20000
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### AGRICULTURE FACULTY OF AGRICULTURE SCIENCE. 100% FEES WAVIER FOR GIRLS CANDIDATES SEEKING ADMISSION IN B.SC. (HONS.)

6	B. Sc. (Hons) Agriculture (Girl Candidates Only)	0.00	300	700	770	200	300	350	700	500	500	400	1000	0.00	700	6420	2240	2000
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#### ATTENTION PLEASE:

- For proceeding years, (next higher classes, fee will be charged semester wise within 2 weeks of start of each semester)

#### FOLLOWING FEE WILL BE CHARGED SEPARATELY:

- Enrollment Card fee & eligibility certificate fee – students passed requisite degree from any university of Sindh other than the university of Larkano. - Rs. 3000/-
- Enrollment Card fee & eligibility certificate fee – students passed requisite degree from any university of Pakistan other than Sindh Province. - Rs. 4000/-

#### Self Finance Fee (for Engineering)

Self Finance fee Rs. 600,000/-  
Self Finance fee (UDP) Rs. 100,0000/-

#### Self Finance Fee for (SOCIAL SCIENCES & HUMANITIES)

BBA & BS (English Language & Literature) Rs. 200,000/-  
BS English (3rd Year / MA Prev.) Rs. 250,000/-  
BS- Computer Science Rs. 3,00,000/-

## ALLOCATION OF SEATS DISTRICT WISE

# FACULTY OF ENGINEERING & TECHNOLOGY

S.No	Districts / Category	DEGREE PROGRAMS											
		Civil Engineering			Mechanical Engineering			Electrical Engineering			Electronic Engineering		
		R	U	Total	R	U	Total	R	U	Total	R	U	Total
1	Larkana	06	04	10	05	03	08	05	03	08	05	03	08
2	Kamber S. Kot	04	03	07	03	02	05	04	02	06	04	02	06
3	Shikarpur	02	02	04	03	02	04	03	02	04	03	02	04
4	Jacobabad	02	02	04	02	02	03	03	02	04	02	02	03
5	Kashmor KhandKot	01	01	02	02	01	03	01	01	02	01	01	02
6	Sukkur	01	01	02	02	01	03	02	01	03	02	01	03
07	Ghotki	01	01	02	02	02	03	02	02	03	02	02	03
08	Khairpur Mirs'	01	01	02	02	01	03	01	01	02	02	01	03
09	Hyderabad	01	-	01	01	-	01	01	-	01	01	-	01
10	Dadu	01	-	01	02	01	03	02	01	03	02	01	03
11	Matyari	01	-	01	01	-	01	01	-	01	01	-	01
12	Thatta	01	-	01	01	-	01	01	-	01	01	-	01
13	Tharparkar	01	-	01	01	-	01	01	-	01	01	-	01
14	Sanghar	01	-	01	01	-	01	01	-	01	01	-	01
15	S. Benazir Abad	01	01	02	02	01	03	02	01	03	02	01	03
16	N. Feroz	01	01	02	02	01	03	02	01	03	02	01	03
17	Karachi Division	-	01	01	-	01	01	-	01	01	-	01	01
<b>TOTAL (I)</b>		-	-	44	-	-	47	-	-	47	-	-	47
18	Employees Quota	-	-	02	-	-	02	-	-	02	-	-	02
19	Girls Quota	01	01	02	01	01	02	01	01	02	01	01	02
20	Self-Finance	09+01 (Diploma)			-	-	02	-	-	02	-	-	02
21	Sports Quota	-	-	01	-	-	01	-	-	01	-	-	01
22	Armed Forces Quota	-	-	01	-	-	01	-	-	01	-	-	01
23	Baluchistan Quota	-	-	-	-	-	01	-	-	01	-	-	01
24	KPK Quota	-	-	-	-	-	01	-	-	01	-	-	01
25	AJK Quota	-	-	-	-	-	01	-	-	01	-	-	01
<b>TOTAL (II)</b>		-	-	16	-	-	11	-	-	11	-	-	11
<b>Total (I) + Total (II)</b>		44+16=60			47+11+=58			47+11+=58			47+11+=58		

Note: There's a single seat of Diploma in the Departments of ME - EL & ES

• Candidates belonging to Azad Jamu Kashmir, nominated by the ministry of Education , Government of Pakistan Islamabad.	Total allotted seats = 03
• Candidates from KPK are nominated by the state and Frontier Region Division Government of Pakistan, Islamabad.	Total allotted seats = 03
• Sons and daughters of Armed Forces personnel nominated by The General Headquarter , Rawalpindi.	Total allotted seats = 04
• Candidates belonging to Balochistan Province, nominated by the ministry of Education, the Government of Balochistan.	Total allotted seats = 03

## ALLOCATION OF SEATS DISTRICT WISE

### FACULTY OF SOCIAL SCIENCES

S.No	Districts / Category	DEGREE PROGRAMS								
		BS (English Language & Literature)			Bachelor of Business Administration (BBA)			BS (Computer Science)		
		R	U	Total	R	U	Total	R	U	Total
1	Larkana	25	15	40	25	15	40	25	15	40
2	Kamber S. Kot	20	05	25	20	05	25	20	05	25
3	Shikarpur	06	04	10	06	04	10	06	04	10
4	Jacobabad	03	02	05	03	02	05	03	02	05
5	Kashmor Khand Kot	03	02	05	03	02	05	03	02	05
6	Sukkur	03	01	04	03	01	04	03	01	04
07	Ghotki	01	02	03	01	02	03	01	02	03
08	Khairpur Mirs'	05	02	07	05	02	07	05	02	07
09	Hyderabad	01	02	03	01	02	03	01	02	03
10	Dadu	05	02	07	05	02	07	05	02	07
11	Matyari	01	01	02	01	01	02	01	01	02
12	Thatta	01	01	02	01	01	02	01	01	02
13	Tharparkar	01	01	02	01	01	02	01	01	02
14	Sanghar	01	01	02	01	01	02	01	01	02
15	S. Benazir Abad	02	01	03	02	01	03	02	01	03
16	N. Feroz	02	01	03	02	01	03	02	01	03
17	Karachi Division	02	01	03	02	01	03	02	01	03
18	Employees Quota	-	-	02	-	-	02	-	-	02
19	Girls Quota	-	-	02	-	-	02	-	-	02
20	Self-Finance	-	-	10	-	-	10	-	-	10
21	Sports Quota	-	-	01	-	-	01	-	-	01
22	Armed Forces Quota	-	-	02	-	-	02	-	-	02
<b>TOTAL SEATS</b>				<b>143</b>			<b>143</b>			<b>143</b>

## FACULTY OF AGRICULTURE SCIENCE

S.No	Districts / Category	Degree Programs B.Sc. (Hons.) Agriculture		Total
		R	U	
01	Larkano	16	9	25
02	Kamber S.Kot	17	6	23
03	Shikarpur	17	6	23
04	Jacobabad	14	5	19
05	Kashmore Khandh Kot	12	5	17
06	Sukkur	6	4	10
07	Ghotki	14	5	19
08	Khairpur	6	4	10
09	Hyderabad	2	01	03
10	Jamshoro	01	-	01
11	Tando Allahyar	01	-	01
12	Tando M. Khan	01	-	01
13	Dadu	06	04	10
14	Matiali	01	-	01
15	Thatta	01	-	01
16	Badin	01	01	02
17	Sijawal	01	01	02
18	Tharparkar	01	01	02
19	Mirpur Khas	01	01	02
20	Umer Kot	01	-	01
21	Sanghar	02	01	03
22	S. Benazir Abad	04	03	07
23	N. Feroze	08	05	13
24	Karachi Division	05	-	05
25	Girls Quota	-	-	04
26	Employees Quota	-	-	05
27	Sports Quota	-	-	02
28	Self-Finance	-	-	05
29	Armed Forces Quota	-	-	03
<b>Total</b>		<b>139</b>	<b>63</b>	<b>221</b>

## GENERAL / SEMESTER RULES AND REGULATIONS

### 1.1 CREDIT HOUR DISTRIBUTION

A credit hour means teaching/learning a theory course for one hour each week throughout the semester.

The credit hours are denoted by two digits within brackets with a plus in between. The first digit represents the theory part while the second (right side) digit represents the practical. Table 1 gives the possible distribution of Theory and Practical Credit hours.

One credit hour in laboratory or practical work/project would require lab contact of three hours per week throughout the semester.

#### A. Bachelor of Engineering

A Bachelor of Engineering Degree Program usually includes theory courses, community work/thesis/research report/project and internship.

- **Theory:** A theory course is 03 to 04 credit hours as per the requirement of the discipline.
- **Project:** Every student should write a project report/thesis/research report/project/ internship in the final year up to a maximum of 06 credit hours individually on a research topic approved by the Faculty.
- **Internship:** Students should be encouraged to do an internship in a relevant academic, research, or business organization relating to the discipline chosen for the specialization of a maximum of 3 credit hours offered in any upper division semester as per the requirement of discipline.

Table 1. Credit Hour Distribution

CREDIT HOUR	DISTRIBUTION IN THEORY AND PRACTICAL CREDIT HOUR
01	(0+1)
02	(2+0)/(0+2)
03	(3+0)/(2+1)/(0+3)
04	(3+1)/(0+4)

### 1.2 SEMESTERS AND COURSE LAYOUT

4-year undergraduate degree programs are composed of 130-140 Credit Hours, in which 130 represents the minimum and 140 represents the maximum credit hours required to be completed.

A. For Engineering programs: The courses for the Engineering & Computer Science programs will consist of a minimum 130 credit hours out of which a minimum of 85 credit hours of engineering and computer science courses and a minimum of 30 credit hours of non-engineering (mathematics, humanities and natural sciences) courses offered over a period of four years (8 semesters), subject to meeting the requirement of the respective Accreditation Councils.

**B. For Computer Science programs:** The courses for the Computer Science program will consist of a minimum 130 credit hours, out of which a minimum of 100 credit hours of Computing and Computer Science courses and a minimum of 30 credit hours of general and university courses, subject to meeting the requirement of the respective Accreditation Councils.

C. For Social & Basic Sciences programs: The courses for social and basic sciences disciplines will consist of 60-65% of the curriculum towards the discipline specific areas, and 35-40% minor/electives, subject to meeting the requirement of the respective Accreditation Councils.

### 1.3 FALL/SPRING SEMESTER

There will be two regular semesters (Fall and spring) in an academic year. Following is the breakup:  
Table 1. Activity Plan during Fall/Spring Semester

S.NO .	ACTIVITY	NO. OF WEEKS
I.	Teaching duration of the Fall Semester	16 Weeks
II.	Conduct of Mid Semester Exam	01 Week
III.	Preparation of final Fall Semester Exam	01 Week
IV.	Conduct of final Fall Semester Exam	02 Weeks
V.	Semester Break	01 Week
VI.	Teaching duration of Spring Semester	16 Weeks
VII	Conduct of Mid Semester Exam	01 Week
VIII.	Preparation of final Spring Semester Exam	01 Week
IX.	Conduct of final Spring Semester Exam	02 Weeks
X	Semester Break	01 Week
XI	Summer Break / Summer Semester	08 Weeks
XII	Winter Break	02 Weeks
	<b>Total</b>	<b>52 WEEKS</b>

## 1.4 ACADEMIC CALENDAR

The calendar will include the following information: to be adopted from the next academic year.

- I. Date of start of classes
- II. Conduct mid-semester
- III. Date of suspension of classes
- IV. Schedule of examination
- V. Display of sessional marks
- VI. Examination preparation up to
- VII. Conduct of final semester exam
- VIII. Announcement of results
- IX. Mark sheet / Transcript issues dates

The academic calendar will be prepared for the Fall Semester and Spring Semester of each academic year.

In case a university is closed due to unusual circumstances, then makeup classes may be arranged converting weekends, holidays, or evening classes to working days or evening classes to cover the lapsed period of the students.

## 1.5 ATTENDANCE

A minimum 75% attendance in a course is required to appear in the examination of that course. (Condonation may be limited to 70%).

## 1.6 EXAMINATION

In each semester, students may be required to appear in quizzes, tests, mid-semester, final semester examinations, presentations (individual/group), group discussions, and submit projects/assignments/lab reports, etc. These assessment marks (to be determined by the teacher concerned) may have different weights contributing towards the overall assessment in percent marks. This weightage may be determined on the basis of the table below:

Table 2. Marks Distribution for Theory Course of 100 Marks

S.NO.	NATURE OF EXAMINATION	WEIGHTAGE (100 MARK THEORY)
1	Quiz /Test	10
2	Mid Semester Examinations	20
3	Assignments/Presentations/ Practical	10
4	Final Examination	60

Table 3. Marks Distribution for Theory Course of 50 Marks

S.NO.	NATURE OF EXAMINATION	WEIGHTAGE (50 MARK THEORY)
1	Quiz /Test	5
2	Mid Semester Examinations	10
3	Assignments/Presentations/ Practical	5
4	Final Examination	30

Table 4. Marks Distribution for Practical of 100 Marks

S.NO.	NATURE OF EXAMINATION	WEIGHTAGE (100 MARKS PRACTICAL)
1	Lab Rubrics	30%
2	Mini project/Open Ended Lab	10 %
3	Semester Lab Exam	60% (30% objective test, 30% viva)

Table 5. Marks Distribution for Practical of 50 Marks

S.NO.	NATURE OF EXAMINATION	WEIGHTAGE (50 MARKS PRACTICAL)
1	Lab Rubrics	15%
2	Mini project/Open Ended Lab	5 %
3	Semester Lab Exam	30% (15% objective test, 15% viva)



## 1.7 CALCULATING G.P.A AND C.G.P.A

### A. Quality point (Q.P)

For the computation of the G.P.A the Q.P is first determined by multiplying the value of the grade earned with the credit hours of that course. For example, if the student obtained “A+” for a three credit hour course then quality points would be calculated as:  $Q. P = 4 \times 3 = 12$

### B. Grade Point Average (G.P.A)

This is a figure ranging preferably from 0.00 to 4.00 to be used to indicate the performance of a student in the semester concerned. This is calculated by adding the quality points of all the courses taken, divided by the total number of Credit hours offered

$$G. P. A = (\text{Course Credit Hours} \times \text{Grade Point Earned}) / \text{Total Semester Credit Hours}$$

### C. Cumulative Grade Point Average (C.G.PA)

The Cumulative Grade Point Average (C.G.P.A) is the expression describing the performance of a student in all semesters and is determined in the following way:

$$C. G. P = (\text{Course Credit Hours} \times \text{Grade Point Earned}) / \text{Total Semester Credit Hours Taken in All Semesters}$$

## 1.8 GRADE EQUIVALENT

### A. Engineering

Table 5. Grade Equivalent for Engineering Faculty

S.No.	Grade	Grade Point	Percentage of Marks for Theory/Practical/Project (Maximum Marks 100)	Percentage of Marks for Theory/Practical/Project (Maximum Marks 50)
I.	A+	4.00	$\geq 90\%$	$\geq 45\%$
II.	A	3.50	89%-81%	44%-40%
III.	B+	3.00	80%-73%	39%-36%
IV.	B	2.50	72%-65%	35%-32%
V.	C+	2.00	64%-60%	31%-30%
VI.	C	1.50	59%-55%	29%-27%
VII.	C-	1.00	54%-50%	26%-25%
VIII.	F	0	$\leq 49\%$	$\leq 24\%$

**B. Agriculture**

Table 6. Grade Equivalent for Agriculture Faculty

S.No.	Grade	Grade Point	Percentage of Marks for Theory/Practical/Project (Maximum Marks 100)
I.	A	4.00	$\geq 80.00$
II.	A <sup>-</sup>	3.67-3.99	73-79
III.	B <sup>+</sup>	3.33-3.66	66-72
IV.	B	3.00-3.32	60-65
V.	B <sup>-</sup>	2.67-2.99	56-59
VI.	C <sup>+</sup>	3.33-2.66	53-55
VII.	C	2.00-2.32	50-52
VIII.	C <sup>-</sup>	1.67-1.99	46-49
IX.	D <sup>+</sup>	1.33-1.66	43-45
X.	D	1.00-1.32	40-42
XI.	F	0.00	$\leq 39$

**c. Social Sciences**

Table 7. Grade Equivalent for Science Faculty

S.No.	Grade	Grade Point	Percentage of Marks for Theory/Practical/Project (Maximum Marks 100)
I.	A <sup>+</sup>	4.0	$\geq 85.00$
II.	A	3.6	80-84
III.	B <sup>+</sup>	3.2	75-79
IV.	B	2.8	70-74
V.	C <sup>+</sup>	2.4	65-69
VI.	C	2.0	60-64
VII.	D <sup>+</sup>	1.5	55-59
VIII.	D	1.0	50-54
IX.	F	0.00	$\leq 49$

# HOSTEL RESIDENTIAL ACCOMMODATION

The University of Larkano hostels have rich legacy of academic excellence and responsible community life. It is an affordable, homely and safe accommodation for almost 500 male and 100 female students. Almost all four, including three boys and one girls student's, hostels are spacious with well-furnished rooms to accommodate two to three students with internet facility. Every student is allotted a bed, a cupboard, a study table and a chair. The premises of male and female hostels are separate and the messing system and cleanliness of hostels supervised by male and female wardens respectively. The University is not bound to provide hostel accommodation to every student, even if he / she is entitled. However, accommodation is provided to the male and female students seeking admission only in undergraduate studies at various departments / institutes of the University subject to availability and according to the merit. The interested students can apply through a prescribed Admission Form available with the Office of the Provost Hostels, at the Admin block of the University. The seats in the hostels are allotted by allocating the district-wise quota proportional to seats allocated for admission in university. Further the district-wise seats are allotted to the students on first come first served basis. The seats allotment process is fully transparent. The University administration reserves the right to reject any application for allotment or cancel the allotment of any student at any stage without assigning any reason. Purified drinking water and hot / cold water is available around the clock. Separate canteens / messes with common dining halls are available in each hostel with around to 35 to 45 students sitting capacity and offer meals, tea, juice and soft drink at modest prices. The menu and quality of the food are regulated by the students mess committee. The common halls are well equipped with recreational facilities like large wall-mounted televisions / LCDs, table tennis, badminton. Most of the hostels have outdoors basketball courts and inter-hostels sports events and debate contests are organized regularly.



An ATM electronic banking service is nearby available around the clock. All the hostels' residents have been provided with transport facility from morning till 9:00 PM. All hostels offer lush green lawn for the students to sit and relax, beautiful natural surroundings, pollution free and safe & secured environment with 24 hours security surveillance. Security guards have been deployed on main entrances of male and female students' hostels round the clock to ensure the strict security. The CC Tv cameras are installed in all the hostels to monitor the activities of staff, visitors and residents of hostels by Provost Hostels. University hostels are built upon the principles of professionalism, caring and mutual respect to the students. During the stay in the hostels, they maintain high standards of professional ethical values and for development of personal relationship which provides the best grooming facilities to fulfill our mission. The residents of hostels have always demonstrated the ethos of dedication, sincerity and care for others. The hostel inculcates the characteristics like co-operation and respect for different cultures in the residents as they come from diverse cultures. As a part of extended family of the University fraternity, hostels add a dimension of vigor and commitment to the academic and extracurricular ambience of the institution. While providing an opportunity of campus living, University of Larkano hostels look forward residents to shoulder and maintain the best traditions of the University as a whole. All the students are required to abide by the rules and regulations governing residence and are encouraged to develop community life conducive to healthy growth of the social aspects of their personalities.

## FACILITIES

- Wifi Internet
- Electricity
- Ro filtered water for drinking
- Mess/Canteen
- Laundry services
- TV Hall
- Prayer room
- Indoor games
- Transport facility
- Ambulance services for emergency purpose
- First Aid Services
- Geyser Facilities In Winter Season
- Stand by Generator

# CENTRAL LIBRARY



## INTRODUCTION

The central library started the functioning in year 2010 entire area of this building is 5092 sft this library project titles as under construction. The modern library international standard @ Arija compus Larkano was awarded is 2010 by the then president of Pakistan Mr Asif Ali Zardari as the gift of for the students of campus larkana There are 15832 and 1181 titles are in current are stock these books are related to engineering technology which is being housed in various section of central library the university of Larkano library a good number of engineering and technology research journals and on current subscription local periodicals are also acquired for enhancing the knowledge of students in current affairs and every day science and technology all technical functions of central library catalogue, classification, circulation, accessioning etc are alternated and little of OPAC (online public access catalogue) 3M security system is installed to deducts the books without issue.

## REFERENCE SECTION

The reference section of central library is very rich. A copy of each new arrived book is placed in reference section for the reference purpose. A very large and beautiful reference hall provides his congenial atmosphere to users with fully air conditional. The reference book like ASTMs standards encyclopedia of science and technology encyclopedia of Britannica year books subject encyclopedia and Dictionaries are available to assist the students in their studied and research.

## BOOK-BANK SCHEME SECTION

There are 5500 total books are available in book-bank scheme section for the students these books are issued to students on nominal charge 5% rental fees of total price of a book has been charged every students can get issue the as books entire semester

## STUDENTS/ CIRCULATION SECTION

The circulation section is fully equipped with the latest books on all the existing disciplines of engineering. Every student can get issued 05 books for period of 3 month from this section.

## THESIS SECTION

There are more than 300 theses are available in this section are undergraduate students. The can get these thesis study In the reference section.

## ONLINE CATALOGUE (OPAC )

The central library has been fully automated on an open sources library Software (KOHA) The entire collection has been uploaded in library database.

## EBOOK REPOSITORY

The central library established an ebook repository where 20,700 ebooks are uploaded in pdf format. The collection in this repository comprises on all existing disciplines.



# TRANSPORT FACILITIES

The buses ply between the city centre, the hostels and the academic blocks for the commutation of both the staff as well as students. University buses ply between hostels, city center and campus during office hours and between hostels and city center during evening time.





# SPORTS FACILITIES



## OVERVIEW

The University of Larkana provides excellent sports facilities to its students because it believes that a unhealthy mind requires a healthy body.

There is common room annexed in each hostel which facilities for in door games, like, table tennis, ludo, and chess Additionalay, there is an ample space between two joint hostel where students can play Tape ball cricket volley ball , badminton and basketball.

A sports complex and multipurpose hall cricket ground for hard ball in under construction at aiya campus airport road. For girls students sports facilities are avaretable in their hostel like table tennis, badminton, cricket, chess, and ludo.

The University is regional, national and international as well as HEC sports event Directorate of sports also organise inter departmental of different games both boys and girls are internal mega event in university state time of year January.

Mega sports gate is played in to 12 different games of boys and girls The university supplies the environment And consumable to extent the budgets fund are available.

The qualified staff like Asst Director sports coach and offer staff gives training and also Directorate of sports issue sports material of team sports men's for playing games.



# CAMPUS LIFE





## STUDENTS' PROJECT



## GLIMPSES OF FIRST ACADEMIC COUNCIL MEETING 2024





**KARACHI (Aug 16):** Secretary Information Science & Technology Department Noor Ahmad Samoo, CEO Tech Valley Umar Farooq, and the vice-chancellor of the public sector university sign an MOU for allocating 1000 scholarships in Google Career Certificates. Sindh Chief Minister Syed Murad Ali Shah, Chief Secretary Asif Hyder Shah, Chairman HEC Prof. Tariq Rafi, and others witnessed the ceremony at CM House.



# PROSPECTUS TEAM



**KHALIL JIBRAN ABBASI**



**ENGR DR. SYED ABID ALI SHAH**



**WAZIR ALI TUNIO**



**M. YASEEN MEMON**



**DR. ZULFIQAR ABBASI**



## **THE UNIVERSITY OF LARKANO**

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 <https://uolrk.edu.pk/>