In the name of Allah, 
The Most Beneficent, 
The Most Merciful
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Principal’s Message

On the door step of the city of colleges, Lahore, University college of Engineering, Sciences & Technology (UCEST) welcomes you warmly. Being the part of fast growing Lahore Leads University, we are purely an engineering institution, committed to educate our dynamic youth in the fields of engineering and technologies. This institution offers the latest curriculum aligned with HEC’s recommendations and under the guidelines of Pakistan Engineering Council (PEC). Our programs are approved by the PEC through its formal approval process. To meet the academic challenges, the latest equipments are made available in state of the art labs.

Our highly qualified teachers, with both local and international qualifications, are dedicated professionals, who are always ready to go extra mile to ensure that all the students are offered the opportunity to fulfill their potential -- both in and outside the classroom. At UCEST, education means much more than just good grades. We are justifiably proud of our performance and enjoy the luxury of trust of our students. We consistently, inculcate good human traits in the character of our students and prepare them to master every type of challenge in serving our country. We are acutely aware of our obligation to train our youth to take up their responsibilities in the real life as honest, confident, environment friendly, caring and responsible professionals.

At our 3 acre purpose built campus, we have provided standard facilities to nourish healthy minds and physique of students. For that purpose, badminton, table tennis courts and athletics facilities are provided in the campus as well, lush green lawns and play grounds. Good institutions are built on the effort of good people, and I am honored to admit that our teachers and students are among the very best in Pakistan. Why not, share some of our precious time with us by visiting our teaching and learning facilities. We would be delighted to welcome you.

Vice Chancellor’s Message

I am determined, through my scholastic and premeditated approach and visualization, to enhance quality erudition and research in terms of reputation and merit. In this regard, I perceive quality and discipline as two indispensable mainstays, in order to raise this celebrated edifice. Hence, my focus remains, in particular, on quality assurance and codes of discipline both in academic and extra-curricular perspectives in view of contemporary and prospective nationwide and international challenges. Through engagement with its potential students, the university endeavors to deliver world-class innovation to support the development of a vigorous and dynamic nation. I aspire that our university will be a global leader in each of its spheres of achievements.

Aiming at further advancement of higher education cadre at Lahore Leads University, I have strong belief in the prospective potential students, aspiring that this aptitude and potential is duly recognized and rewarded so that Lahore Leads University may be led to a distinguished place of excellence among local and international academic institutions through enhanced allegiance, reassurance and pertinent efforts of students, staff and management.

I always assume students as a valuable asset of the university and nation and feel proud of welcoming and urging them to become part of the higher education landscape by joining this outstanding and stimulating institution.

I assure you all that with the support and engagement of all of you, we will achieve our vision of academic excellence, innovation, integrity, equity and social justice, and will be able to make a significant and enduring contribution to the economic affluence and societal cohesion of the nation in particular, and humanity across the globe in general.
Lahore is the capital of Punjab and the second largest city in the country. It is the largest native Punjabi-populated city in the world and an important historical centre of the country. With a rich history dating back over a millennium, Lahore is a main cultural centre of Punjab and Pakistan. One of the most densely populated cities in the world, Lahore remains an economic, political, transportation, entertainment, and educational hub. It is referred to as the “City of Gardens” due to the historic presence of gardens in and around the city dating back to the Mughal period. The other famous name of Lahore is “City of Colleges” as it has more number of educational institutions than any other Pakistani city.

Lahore Leads University

The Lahore Leads University is run by the Leads Educators Welfare trust which is a not for profit organization to serve the Pakistani Community and upgrade the country in the fields of education, engineering, sciences and technology. The university is chartered by Provincial Assembly of the Punjab vide Notification, No. PAP.Legis-2(S4)/2010/321 dated 22 January, 2011. The programs offered at University are recognized by Higher Education Commission (HEC), Pakistan.

Lahore Leads University has been set up with a view to provide instruction and training in certain fields of higher education keeping in view the modern and latest trends at the international level. The vision of the university is to generate and transmit knowledge through a pleasant sounding blend of old and contemporary wisdom, and to serve the society by developing in students the heightened intellectual research and industrial sensitivities.

We invite you to join us and become competent professional. Your experience at Leads will widen your horizons, train you to use your minds to explore the best of modern techniques for development of yourself and the best of our country. We will train you to think and generate ideas which will expand your knowledge horizons.

ISO 9001 Certified University

Lahore Leads University is certified by ISO 9001 (American Global Standard) award on November 24, 2014. The certificate was awarded in a formal ceremony held at PC Hotel, by Mr. Zachary V Harkenrider (US Consul General).
UCEST

University College of Engineering, Sciences & Technology

The University College of Engineering, Sciences and Technology (UCEST) being the part of Engineering Faculty of Lahore Leads University, is a Constituent College, which was established in 2011 to promote engineering knowledge and scientific innovation among its students. The programs offered at UCEST, BSc Electrical Engineering, BSc Civil Engineering and BSc Mechanical Engineering are approved by PEC-Pakistan Engineering Council.

The approval of BSc Civil and Electrical Engineering was granted by PEC vide its Notification No. PEC /EA&QEC/UCEST-LEADS (ZERO)CL_61/2011 Dated 13th July 2011, whereas the approval of Mechanical Engineering program was given by the PEC through its Notification No: PEC/AD/CL-68/Leads-L/2014 Dated 15-04-2014

UCEST

A Brief Profile

The University has developed its purpose built Engineering Campus on 3 acre area in the West Wood Colony, Thokar Niaz Baig Lahore. It has cutting edge facilities of Civil, Electrical and Mechanical Engineering labs which are equipped with modern infrastructure to provide engineering students an opportunity for hands on experience.

Class rooms are spacious, well ventilated and installed with multimedia. Campus is fully networked through Wi-Fi and internet broadband facility. Every department has a dedicated Computer lab available for seeking information, technical research and projects.

VISION & MISSION

We aim to build Pakistan as a shining and prosperous welfare state among nations of the world by educating and training our young generation in the areas of Engineering and Technology with latest knowledge and techniques.

Our mission is to enhance the standard of living and to build the future of Pakistan on strong footings by:

- Continually engaging in pursuit of excellence
- Continually investing in our people through education and training
- Offering the best services to our students
- Establishing ourselves as leader in the fields of engineering and technology
- Contributing towards the welfare of the community

COMMITMENT:

We are living in an era, where the information is multiplying every moment. We can only keep up our pace with these rapid changes by using best practices in the fields of engineering and technology.

Imagine what would happen in the future where information may be doubling with skyrocketing speed and we will be the part of that fast community, not as an ordinary person but a future competent engineer to clutch the fast moving hands of time.

Here at UCEST you are invited to be part of this alma-mater and accept the challenge to be a part of the future Hi-Tech community.
Currently the undergraduate Programs offered at UCEST are in three main disciplines of which are approved by Pakistan Engineering Council (PEC).

UCEST offers Graduate Programs in Civil, Electrical and Mechanical Engineering with various specializations.

Graduate Programs of M.S. Environmental Management and M.S. Engineering Management are also offered.

In addition to this, BS-Tech (Hons) degrees in Technologies of Electrical, Civil and Mechanical are also offered.

Study at UCEST

The University College of Engineering, Sciences and Technology (UCEST) offers admissions in all the disciplines of Engineering in Fall Semester of every year.

The UCEST enrolled its 1st batch of students for Civil and Electrical Engineering in Fall 2011 and its first batch for Mechanical Engineering in Fall 2013.

We take the pride to have the best faculty with fully furnished labs and welcome the new students to enroll at this institution for 5th batch in Fall 2015 for Civil and Electrical Engineering and 3rd batch for Mechanical Engineering.
Making the move to University for higher education will change your life, you will develop the skills and knowledge on which you will build a career, learn not only about your chosen subject but also about yourself and forge friendships that will last for a lifetime.

The future is predicted to be of super technology and only trained professionals will be able to harness it. We believe in providing the best education to our new generation to explore the knowledge frontiers.

The focus of UCEST is to provide an equal opportunity to learn the best of engineering education at an affordable fee, under the guidance of qualified professionals and experienced faculty with state of the art facilities and laboratories.

The UCEST is built on strong foundations, we hope our students will thrive, flourish, and strive to achieve their aims and become shining stars of our society.

At UCEST, we have a faculty, who are dedicated and have expertise in teaching undergraduate and graduate engineering students. They are highly qualified and devoted to teaching profession and have enviable ability, able to reach to the thoughts of the students and mold them to generate technically trained youths which will surely bring accolade for our society.
Admission Procedure

How to Apply

Visit Campus & Apply:
Applicants are required to get the admission form and prospectus from the UCEST Admission Office, duly fill it, and attach all the required documents mentioned on the form and submit it to the admission officer.

Apply by post:
Applicants can also download the Admission Form from our website www.ucest.edu.pk, duly fill it, and attach the required documents along with a pay order/demand draft worth Rs. 1500/- in favor of UCEST and send it by courier to UCEST Admission Office. (In case of entry test of Lahore Leads University for BSc Engineering Program, a fee of Rs. 500/- is also to be submitted)

Apply Online:
Candidate may also apply online at www.ucest.edu.pk. Applicants are required to scan the required documents and submit it online. In order to apply, a fee of Rs. 500/- is to be deposited.

Admissions

University College of Engineering Sciences and Technology admits students with sound educational background and show ability to achieve success in engineering education. The applicants are required to qualify the Entry test of UCEST/NTS or UET along with FSc/A-Level/DAE or equivalent Certificate marks. The final merit is determined on the basis of marks in FSc/A-Level/DAE or any equivalent Certificate and score obtained in the Entry test conducted by UCEST/NTS/UEI. The pattern of the test conducted by UCEST is similar to the standard of Scholastic Aptitude Test (SAT).

Required Documents

At the time of submission of application for admission
1. F.Sc / A level /DAE or Equivalent certificate attested photo copy.
2. SSC (Matric)/O-Level or Equivalent Certificate
3. Copy of CNIC or form-B.
4. 4 Passport size color photographs.
5. Please don't attach Domicile, Character and Hope Certificate with admission form.

Eligibility (for Engineering Program)

- F.Sc / A Level or Equivalent Certificate with Physics, Chemistry and Mathematics.
- DAE-Diploma of Associate Engineer (Limited Seats as per guidelines of PEC)
- SSC (Matric)/O-Level or Equivalent Certificate
- Candidate must have minimum 65% marks in FSc/A level/DAE or equivalent to apply for admission.
- Entry test of UCEST/NTS/UEI is mandatory with minimum 50% passing marks.

Result Awaiting Students may also apply

Applicants who have appeared in the intermediate or equivalent level examinations mentioned for admission in a program and are awaiting for results can also take admission test and if qualified, shall be provisionally admitted against an undertaking that they shall pass their FSc/A level/Equivalent examination as per admission criteria of UCEST.

Only those students who provide complete documents/transcripts shall be eligible for registration. Every registered student, admitted on merit, shall take the full load of the courses specified for the semester.

Apply to UCEST

Application for admission shall be entertained only on the prescribed form, which is included in the UCEST prospectus. Applicant also can download admission form from the UCEST website and by filling properly send it through courier service to the admission office. Applications received through courier service shall be entertained only if they are followed by a pay order of prescribed fee in the favor of UCEST and should reach at college up to the last date announced for the admission.

Eligibility (for Engineering Program)

- F.Sc / A Level or Equivalent Certificate with Physics, Chemistry and Mathematics.
- DAE-Diploma of Associate Engineer (Limited Seats as per guidelines of PEC)
- SSC (Matric)/O-Level or Equivalent Certificate
- Candidate must have minimum 65% marks in FSc/A level/DAE or equivalent to apply for admission.
- Entry test of UCEST/NTS/UEI is mandatory with minimum 50% passing marks.

Required Documents

At the time of submission of application for admission
1. F.Sc / A level /DAE or Equivalent certificate attested photo copy.
2. SSC (Matric)/O level / equivalent certificate attested photo copy.
3. Copy of CNIC or form-B.
4. 4 Passport size color photographs.
5. Please don't attach Domicile, Character and Hope Certificate with admission form.

In case, an applicant does not have certified copies of the required documents, the same may be attested by the university Admission Officer by showing the original documents.

Note: Form must be signed by parent/guardian at designated space, forged sign OR fake documents in this regards result in cancellation of admission.
**Entry Test Guidance**

**Entry Test**
- Students seeking admission have to appear in the written entrance test, conducted by UCEST, the schedule of which will be advertised in the national newspapers.
- Students who have passed NTS test or admission test of University of Engineering & Technology, Lahore or other public sector engineering universities are exempted for UCEST entry test.
- Students who are awaiting for their F.Sc / A level / equivalent exam results can also participate in UCEST admission test and apply for admission.

**Subjects to be Studied**
Mathematics, Physics, Chemistry and English

**Subjects weightage for Entry Test**
Weightage for each subjects for the preparation of admission test are as follows:
- Mathematics 40%
- Physics 30%
- Chemistry 15%
- English 15%

**Selection**
- Submitted applications are examined for correctness of information with the criteria described in the advertisement
- Incomplete applications are rejected
- Candidate meeting the eligibility criteria shall be required to appear in the admission test of UCEST. (Students passed NTS or UET test are exempted).

Final Merit List will be prepared by assigning the proportions as given below:

<table>
<thead>
<tr>
<th>Entrance Test UCEST / NTS/ UET</th>
<th>30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>F.Sc / A-Level / DAE / Equivalent</td>
<td>70%</td>
</tr>
</tbody>
</table>

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**Scholarships & Financial Assistance**

**Merit Scholarship OR Dean’s Award**
Top one student of each faculty on the result of every semester with a minimum of 3.5 GPA OR above of the relevant year are awarded scholarship amounting to 10% of the tuition fee for one semester only.

**Excel Sports Scholarships**
Excel Sports Scholarship Program is dedicated to sporting elite at the college. College offers each athlete an individually tailored program to reach the highest possible level of performance and excellence.

**Female Students - Financial Assistance**
To promote Engineering & Technical Education in the Women Sector, a financial assistance amounting to 10% of the Tuition Fee shall be awarded to every Female Student admitted to UCEST.

**Special Financial Assistance**
A financial assistance amounting to 10% of the tuition fee shall also be awarded to the following categories of students:
1. Hafiz-e-Quran
2. Students from Baluchistan
3. Students from FATA, FANA, Gilgit and Baltistan.
4. Orphans

**Financial Assistance to Next of Kin**
A financial assistance is awarded to next real brother or sister studying in UCEST at the same time is 25% of the tuition fee. This award is valid till both of the kin remains under education in the Campus and performs satisfactorily to the university standards.

**Scholarship & Financial Assistance award policy**
Only one award is granted to a student at one time. No two or more scholarships or financial assistance are awarded simultaneously except merit scholarship.
Facilities

Library and Reading Hall
UCEST has a well-stocked library which helps students and faculty members to fulfill their research needs. The campus has also a big reading hall cum library with ample spacing to accommodate a large number of students.

Dedicated I.T. Labs
Every department has a dedicated I.T. infrastructure with seating capacity of 40 students to enhance the learning and research work of the students and faculty members.

Internet and Wifi Facilities
All I.T. labs are provided with broad band internet facilities. Wifi facility is also available on the campus. Other Facilities include:
1. Girls Common Room
2. Spacious Café de students
3. Ample parking facility
4. Air Conditioned Classrooms
5. Annual Sports Gala and Extra Curricular Activities
6. State of the art Labs with Latest Equipments
7. Hostel Facilities

Leads Entrepreneurship Centre (LEC)
Leads Entrepreneurship Centre envisages producing future entrepreneurs who are passionate to innovate and commercialize products or services for the problems of society ultimately enhancing quality of life, producing more jobs and uplifting economy of Pakistan. LEC aims to support UCEST students and faculty with basic entrepreneurial skills and mindset so that they can turn their creative ideas into business reality.

Main objectives of LEC is to
- Teach students basic concept of entrepreneurship in accordance with HEC recommendation.
- Facilitate them with laboratories and incubation space for their entrepreneurial activities.
- Arrange relevant entrepreneurial skill development lectures, workshops, seminars, conferences and arrange corporate tours for students.
- Organize annual entrepreneurial competition to creative an environment for generating business ideas for tech-students.

Industrial Linkages
Industrial linkages are established with various engineering organizations to facilitate students’ internships.
MoUs exists between RHC Consulting, Ghousia Engineering, IKON Construction, Professional Construction Services and EPESOL Engineering.

Continuing Professional Development (CPD) at UCEST

In compliance with Continuing Professional Development (CPD) bye-laws of Pakistan Engineering Council (PEC), at University College of Engineering, Sciences and Technology (UCEST), Lahore Leads University, we are organizing CPD trainings as Professional Engineering Body (PEB) under the emblem of Pakistan Engineering Council. This professional training aim is for professional engineers or engineering students who are working for the industry. For this purpose, university is organizing short courses, seminars, conferences, lectures and workshops in the field of engineering technology, management, entrepreneurship, accounting & finance for engineers.

Besides developing new skills and enhancing professional capacity, these trainings provide the opportunity to engineers and faculty members to earn credit points so that they can attend Engineering Practice Examination (EPE) or get and retain the PE (Professional Engineer) title by PEC. In addition, students can also claim these credit points as soon as they are registered with Pakistan Engineering Council.
Engineering industry in Pakistan is badly lacking to sustain capable, innovative and highly technical leaders. At UCEST we aim to bridge this gap and provide graduates who are industry ready to practically deliver the innovative solutions to the engineering industry.

For this purpose the bachelor’s degree in Electrical, Civil and Mechanical Engineering furnishes the students:

- In depth coverage of the principles of Engineering both in the laboratories and class rooms to develop skills and sharpen their minds.
- In addition to engineering knowledge, the students get advance knowledge of Mathematics, Physics and Computer Science, so that they become competent individuals in various fields.
- The aim is to develop well trained professionals who can handle the practical problems with confidence and meet the requirements of the local industry.
- Use their analytical ability to solve problems skillfully in any challenging environment.
- Students have facilities to computer labs and reference reading materials to solve their academic problems and project.
- Have the academic background to pursue postgraduate studies at the international level.
- Have Design & development training along with management and economics education to enable them to do business as an entrepreneur.
- Regular visits to relevant industries and sites.
Programs
Engineering & Technology

BSc
CIVIL ENGINEERING

BSc
ELECTRICAL ENGINEERING

BSc
MECHANICAL ENGINEERING

BS Tech (Hons)
PROGRAMS OF TECHNOLOGY
Department of Civil Engineering

In past years focus of civil engineers was on design and construction of facilities, such as buildings, bridges and highways, water treatment plants and environmental facilities and tunnels. Today’s civil engineers not only design new facilities but also analyze the effects of deterioration on infrastructure elements, consider system interdependencies and evaluate the life-cycle impacts while also considering environmental and economic sustainability within the context of ever changing society.

Civil engineers must be trained and are professionals who are equipped with in-depth knowledge of traditional, fundamental principles and new technologies to address the complex and interdisciplinary problems. The undergraduate program at UCEST provides necessary engineering background to serve the society.

The Department of Civil Engineering enjoys the association of highly competent academic professionals who are dedicated team members to develop well trained individuals who will have dexterity to handle the problems in the field with professional confidence. We have a faculty who are dedicated to excellence in undergraduate teaching and are well known in the engineering community.

The civil engineering program is designed to meet the criteria adopted by the higher education commission (HEC) of Pakistan and the Pakistan Engineering Council (PEC). While considering the local industry needs and international practices. A Departmental Curriculum Committee periodically updates and reviews the curriculum in order to keep them in line with the future needs.

Eligibility & Key Facts

Program: B.Sc. Civil Engineering.
Duration: 4 years (8 semesters)
Credit Hours: 136
Eligibility: The applicant must have minimum 60% marks in F.Sc./A level/DAE or equivalent.
Admission will be followed by entry test of UCEST/NTS or UET with 50% passing marks.

Result awaiting students may also apply.

Approval: The program is approved by PEC (Pakistan Engineering Council)
The Department of Civil Engineering enjoys the association of highly competent academic professionals who are dedicated team members to develop well trained individuals who have dexterity to handle the problems in the field with professional confidence. UCEST have a faculty who are dedicated to excellence in undergraduate teaching and are well known in the engineering community.

Faculty of Civil Engineering

P rof. Dr. K. H ehammad
Department Chair
PHD Structure, University of New South Wales, Sydney, Australia.

The Department of Civil Engineering enjoys the association of highly competent academic professionals who are dedicated team members to develop well trained individuals who have dexterity to handle the problems in the field with professional confidence. UCEST have a faculty who are dedicated to excellence in undergraduate teaching and are well known in the engineering community.

Civil Engineering Labs

At UCEST, excellent laboratory facilities are available which are equipped with latest instruments and paraphernalia. The students conduct lots of experiments and gain valuable hands on experience in the labs. The Labs provided in the civil Engineering are as mentioned:

- State of the art Civil Engineering Labs
- Computer Lab
- Engineering Mechanics Lab
- Strength of material Lab
- Engineering Drawing Lab
- Soil Mechanics
- Surveying Lab
- Material & Concrete Lab
- Fluid Mechanics & Hydraulics Lab
- Environmental Lab
- Engineering Material Lab
- Transportation Lab

More laboratories will be added and expanded according to an approved development plan recommended by advisory board of the department.
### Program Objectives & Outcomes

**Objectives**

1. To impart state-of-the-art knowledge to the students in the field of Civil Engineering and produce competent civil engineers who will play vital role in the national development.

2. To provide critical learning for a broad function in various areas of Civil Engineering, including structural, environmental, geotechnical, water resources, and transportation engineering and construction management.

3. To make them aware of the advancement of engineering knowledge in the developed countries so that they may keep themselves abreast with such developments.

4. To prepare them to effectively use their communication, leadership, and teamwork skills and deal responsibly with the ethical, professional, environmental, sustainability and social issues.

5. To prepare graduate engineers to be competitive in both national and international market by inculcating the engineering and managerial skills.

6. To create a recognition of the need to continue their professional development throughout their careers by participating in continuing professional development activities, reading technical literature, and attending professional meetings and seminars.

**Outcomes**

1. The Civil Engineering program provides the necessary technical skills in engineering design/analysis as well as mathematics and basic sciences consistent with Higher Education Commission (HEC) and Pakistan Engineering Council (PEC) accreditation standards and national technological needs.

2. A Civil Engineering graduate would be able to undertake planning, design, construction, operations and maintenance of urban and rural infrastructure by applying his/her knowledge in all stages of Civil Engineering and inter-disciplinary projects.

3. The Civil Engineering graduate will have the ability to use the techniques, skills, and modern engineering tools necessary for engineering practice to meet desired societal needs within realistic constraints.

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### Course Guideline

**BSc Civil Engineering**

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<th>Semester</th>
<th>Code</th>
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<td>Semester-1</td>
<td>CE103</td>
<td>Civil Engineering Materials</td>
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<td>CE205</td>
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**Total Credit Hours: 136**
Department of Electrical Engineering

Electrical engineering is the profession that applies various kinds of sound scientific knowledge, and problem-solving skills to the design, construction, operation, and maintenance of electrical and electronic products, equipment, services, and information systems. Electrical engineers find innovative ways to use electricity, information, computers, and electronics to make people’s lives better. This program offers a unique combination of independent student studies, exposure to various small projects developments in the field, and challenging coursework both within and beyond engineering. This combination is designed to prepare our students to excel both in engineering innovation and in life-long learning.

The goal of the curriculum of the electrical engineering undergraduate program is to prepare the engineers to avail a broad range of opportunities in educational fields, industrial, commercial and governmental organizations. This goal can be achieved through a curriculum designed in the light of recommendations of PEC/HEC by the board of studies to fulfill the following objectives:

1. The graduates will be technically competent.
2. The curriculum will be regularly revised to meet the requirements of the field of engineering in the dynamic changing world.
3. To prepare self-motivated and creative people who can succeed in environments where technical innovation is important.
4. The engineers will be able to work well in diverse and competitive career paths.

Eligibility & Key Facts

Program: B.Sc. Electrical Engineering.
Duration: 4 years (8 semesters)
Credit Hours: 135

Eligibility: The applicant must have minimum 60% marks in F.Sc./A level/DAE or equivalent.

Admission will be followed by entry test of UCEST/NTS or UET with 50% passing marks.

Result awaiting students may also apply.

Approval: The program is approved by PEC (Pakistan Engineering Council)
Faculty of Electrical Engineering

The Department of Electrical Engineering enjoys the association of highly competent academic professionals who are dedicated team members to develop well trained individuals who have dexterity to handle the problems in the field with professional confidence.

In UCEST we have a faculty who are dedicated to excellence in undergraduate teaching and provide guidance and support that students need from them.

Prof. Dr. M. unir Ahmad
Department Chair
PhD Electrical Engineering (Power), Cleveland State University, Ohio, USA
M.Sc. Electrical Engineering, Tuskegee University, Alabama, USA
Former Professor, Pensylvania State University, USA

Engr. Ali Noman
MSc.* Electrical Engg., UET, Lahore.
BSc. Electrical Engineering
Lecturer

Engr. M. Ismail Khan
MSc.* Electrical Engg., BSc. Electrical Engg., UET, Lahore.
M. Awais
Assistant Professor

Engr. Prof. Dr. Intsaar Ahmad
Advisor BoS
MSc, Power Engg., BSc Electrical Engg.

Engr. Prof. Dr. Intsaar Ahmad Advisor BoS
MSc, Power Engg., Asst. Professor

Department Chair
PhD Electrical Engineering (Power), Cleveland State University, Ohio, USA
M.Sc. Electrical Engineering, Tuskegee University, Alabama, USA
Former Professor, Pensylvania State University, USA

Power Engineering Lab
A well equipped power engineering lab is established to provide training and hands on experience in the following areas
1. Power Generation
2. Power Transmission
3. Power Protection
4. Power Distribution & Utilization

More laboratories will be added and expanded according to an approved development plan recommended by advisory board of the department.

Electrical Engineering Labs

At UCEST, excellent laboratory facilities are available which are equipped with latest instruments and paraphernalia. The students conduct lots of experiments and gain valuable hands on experience in the labs. The Labs provided in the Electrical Engineering are listed below:

State of the art Electrical Engineering Labs
Computer Lab
Electric Circuits Lab
Electronics Lab

Electrical Machines Lab
Power Engineering Lab
Communication systems Lab
Embedded Systems Lab

UG Research Lab
Automation and Control Lab
DLD Lab
Electrical Workshop & Physics Lab
Power Electronics Lab

In Progress

Engr. Ahmed Khalid
BSc Electrical Engineering
Lecturer

Engr. Ahsan Zafar
MSc. Power Engineering, QUEST.
BSc. Electrical Engineering
Lecturer

Engr. Shahid Zia
Ph.D. Scholar
MSc Power Engg., BSc Electrical Engg., Asst. Professor
### List of Electives

**Electrical Engineering**

1. Instrumentation & Measurements (Br. Core I)
2. Power Distribution & Utilization (Br. Core I)
3. Advanced Electrical Machines
4. Power System Analysis
5. Power Generation
6. Electrical Power Transmission
7. Power Electronics
8. Power System Protection
9. Power System Stability & Control
10. Advanced Electrical Machine Design
11. High Voltage Engineering
12. Renewable Energy Systems
13. Digital Signal Processing
14. Digital Control Systems
15. Analog and Digital Communication Systems
16. Integrated Electronic Circuits
17. PLC and Industrial Drives

**Elective Electronic Engineering**

1. Instrumentation & Measurements (Br. Core I)
2. Electronic Circuit Design (Breadth Core II)
3. Power Electronics
4. Opto-Electronics
5. VLSI Design
6. Industrial Electronics
7. Digital Electronics
8. Introduction to Nano Technology
9. Digital Signal Processing
10. Computer Communication Networks
11. Wave Propagation and Antenna
12. Digital Image Processing
13. Mobile and Wireless Communication
14. Solid State Devices
15. Digital Control Systems

### Course Guideline

**BSc Electrical Engineering**

#### Semester-1

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**Total Credit Hours: 136**
**Department of Mechanical Engineering**

Mechanical engineering is a discipline of engineering that applies the principle of physics and materials science for analysis, design, manufacturing and maintenance of mechanical systems. It includes the production and usage of heat and mechanical power for design, production and operation of machines and tools.

Mechanical engineering requires an understanding of core concepts including mechanics, kinematics, thermodynamics, structural analysis and theory of automation. Mechanical engineers use all these core principles along with tools like computer aided engineering and production management to design and analyze manufacturing plants, industrial equipment and machinery, heating and cooling systems, transport systems, aircraft, robotics and others.

The course designed for mechanical engineering is based on practical work, problem solving activity and work assignments. Through internship students are trained in industries which develop their practical confidence that is the demand of so many employers.

The mechanical engineering program is designed to meet the criteria adopted by the higher education commission of Pakistan (HEC) and the Pakistan Engineering Council (PEC). Subject curriculum remains in review by the university’s board of studies.

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**Eligibility & Key Facts**

**Program:**
B.Sc. Mechanical Engineering.

**Duration:**
4 years (8 semesters)

**Credit Hours:** 136

**Eligibility:**
The applicant must have minimum 60% marks in F.Sc./A level/DAE or equivalent.

Admission will be followed by entry test of UCEST/NTS or UET with 50% passing marks.

**Result awaiting students may also apply.**

**Approval:**
The program is approved by PEC (Pakistan Engineering Council)
**Faculty of Mechanical Engineering**

The Department of Mechanical Engineering enjoys the association of highly competent academic professionals who are dedicated team members to develop well trained individuals who have desirability to handle the problems in the field with professional confidence.

In UCEST we have a faculty who are dedicated to excellence in undergraduate teaching and provide guidance and support that students need from them.

---

**Mechanical Engineering Labs**

UCEST aims at developing modern and state of the art labs for Department of Mechanical Engineering. Some of the labs are functional and fully developed while the other labs are being developed. Few of the labs established are as mentioned:

- Engineering Drawing Lab
- Computer Lab
- Applied Mechanics Lab
- Strength of Material Lab
- Fluid Mechanics Lab
- Mechanical Workshop
- Machine Shop
- Thermo Lab

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**Course Guideline**

**BSc Mechanical Engineering**

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**Total Credit Hours: 136**
Faculty of Natural Sciences & Humanities (Allied Faculty)

Prof. Dr. Nazir Ahmad  
Department Chair  
PhD Mathematics, UET Lahore.

Prof. Hafiz M. Ayub  
M.A. Islamiat  
M.A. Arabic  
M. Phil K.S.A  
Professor

Prof. Fazal Ahmad  
MSc Earth Sciences  
Assistant Professor

Dr. Ayesha Shabbir  
PhD Mathematics  
SMS GCU, Lahore  
Assistant Professor

Dr. Sumiya Nasir  
PhD Mathematics  
SMS GCU, Lahore  
Assistant Professor

Mr. M. Arshad  
MSc Mathematics  
MS GIS  
Assistant Professor

Mr. Shahid Naseem  
PhD Scholar  
Computer Science  
Assistant Professor

Mr. Muhammad Adnan  
BSc. Computer Networking  
University of West Scotland UK  
Lecturer
Department of Technologies

Technological capability development across all sectors of the economy is vital for industrial development. It is imperative to indicate that the traditional heavy industries have not only developed leading technological capabilities in their fields but also created opportunities for lateral migration to small industries. It is a proven fact that for developing economies, technological advancement has less to do pushing back technological frontiers than with the assimilation and adaptation of technologies.

It is the need of time to promote high-technology and "knowledge-intensive" industries for the national development and growth. The institution training the human resources have to focus sincerely on the aspect of preparing graduates who cannot only well understand modern scientific techniques but are also fully equipped with the tools to implement complex engineering designs with full confidence. With this back drop in preview, UCEST has designed the courses leading to various bachelor degree in technologies in three extensive study program.

The UCEST is currently offering three BS Tech (Hons) programs in technologies at its campus

1. BS-Tech (Hons.) Civil Technology
2. BS-Tech (Hons.) Electrical Technology
3. BS-Tech (Hons.) Mechanical Technology

Eligibility & Key Facts

Programs Offered:
- BS-Tech (Hons.) Civil Technology
- BS-Tech (Hons.) Electrical Technology
- BS-Tech (Hons.) Mechanical Technology

Duration: 4 years (8 semesters)

Eligibility:
The applicant must have minimum 45% marks in DAE/ F.Sc./A level or equivalent. Entry Test of UCEST or NTS is required.

Result awaiting students may also apply.

Courses taught at UCEST are designed according to HEC’s approved curriculum.
### Program: BS Tech (Hon.) Civil Technology

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### Program: BS Tech (Hon.) Electrical Technology

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Total Credit Hours: 132
Program:  
BS Tech (Hon.) Mechanical Technology

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<td>3 0</td>
</tr>
<tr>
<td>3 Computer Applications</td>
<td>2 1</td>
</tr>
<tr>
<td>4 Engineering Drawing-I</td>
<td>1 2</td>
</tr>
<tr>
<td>5 Applied Math-I</td>
<td>3 0</td>
</tr>
<tr>
<td>6 Communication Skills</td>
<td>3 0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester-3</th>
<th>Semester-4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sr. Subject</strong></td>
<td><strong>CrHr T L</strong></td>
</tr>
<tr>
<td>1 Electrical Technology</td>
<td>2 1</td>
</tr>
<tr>
<td>2 Mechanics of Materials</td>
<td>2 1</td>
</tr>
<tr>
<td>3 Computer Aided Drafting</td>
<td>1 2</td>
</tr>
<tr>
<td>4 Industrial Materials</td>
<td>2 0</td>
</tr>
<tr>
<td>5 Computer Programming</td>
<td>2 1</td>
</tr>
<tr>
<td>6 Technical Report Writing</td>
<td>3 0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester-5</th>
<th>Semester-6</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sr. Subject</strong></td>
<td><strong>CrHr T L</strong></td>
</tr>
<tr>
<td>1 Mechanics of Machines</td>
<td>3 1</td>
</tr>
<tr>
<td>2 Industrial Economics</td>
<td>3 0</td>
</tr>
<tr>
<td>3 Machine Design-II</td>
<td>2 1</td>
</tr>
<tr>
<td>4 Thermodynamics-II</td>
<td>2 1</td>
</tr>
<tr>
<td>5 Industrial Management</td>
<td>2 0</td>
</tr>
<tr>
<td>6 Hydraulic Machinery</td>
<td>2 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester-7</th>
<th>Semester-8</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sr. Subject</strong></td>
<td><strong>CrHr T L</strong></td>
</tr>
<tr>
<td>1 Mechanical Vibration</td>
<td>3 1</td>
</tr>
<tr>
<td>2 Production Automation</td>
<td>2 1</td>
</tr>
<tr>
<td>3 Health, Safety &amp; Risk Assessment</td>
<td>3 0</td>
</tr>
<tr>
<td>4 Project</td>
<td>0 4</td>
</tr>
</tbody>
</table>

**Total Credit Hours: 132**
Academic Calendar

Academic year at UCEST comprises of two regular semesters i.e. fall, spring and a summer semester. Regular semesters are of 18 weeks each, out of which sixteen weeks are reserved for teaching & regular classes and two weeks for mid and final examinations.

The summer semester is a concentrated period of study comprising eight weeks arranged for the students to overcome their deficiencies and one week for final examinations. The schedule of the semester for academic year 2015-16 is as follows:

**Fall 2015**
Commencement of Regular Classes: Monday, 14th September 2015
Mid Term Examination: Monday, 16th November 2015
Final Term Examination: Monday, 18th January 2016

**Spring 2016**
Commencement of Regular Classes: Monday, 01st February 2016
Mid Term Examination: Monday, 28th March 2016
Final Term Examination: Monday, 30th May 2016
Summer Break (for regular students): 06th June - 10th September 2016

**Summer 2016**
Commencement of Classes: Monday, 20th June 2016
Final Term Examination: Monday, 29th August 2016

Students Evaluation
Students are evaluated as per following:

- Quizzes
- Class tests
- Home assignments
- Case studies
- Mid-semester Exam
- Final Semester Exam
- projects
- Viva voce
- Presentations

Fee Structure

**Fee Structure Engineering Program**

<table>
<thead>
<tr>
<th>Fee Type</th>
<th>Fee (INR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Fee per Semester</td>
<td>90,750/-</td>
</tr>
<tr>
<td>Examination Fee per Semester</td>
<td>5000/-</td>
</tr>
<tr>
<td>Registration Fee Payable only Once</td>
<td>25,000/-</td>
</tr>
<tr>
<td>(at the time of admission)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Engineering Program fee</strong></td>
<td>7,91,000/-</td>
</tr>
</tbody>
</table>

Fee structure is same for Civil, Electrical & Mechanical Engineering Programs

**Fee Structure BS-Tech (Hons) Program**

<table>
<thead>
<tr>
<th>Fee Type</th>
<th>Fee (INR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Fee per Semester</td>
<td>37,000/-</td>
</tr>
<tr>
<td>Examination Fee per Semester</td>
<td>3000/-</td>
</tr>
<tr>
<td>Registration Fee Payable only Once</td>
<td>20,000/-</td>
</tr>
<tr>
<td>(at the time of admission)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Technology Program fee</strong></td>
<td>2,96,000/-</td>
</tr>
</tbody>
</table>

Fee structure is same for Civil, Electrical & Mechanical Technology Programs

Payment of Due:
1. After admission students are required to pay first semester dues along with registration and other dues in full.
2. The fee shall be paid on the dates as notified from time to time.
3. In case of late submission of dues, fine will be imposed as per University policy.
4. Student will be automatically deregistered if he/she fails to clear the dues within two weeks after the notified date.
5. Fee structure may change from time to time depending upon the circumstances.
6. A fee concession of 10% shall be applicable if full fee (of 8 semesters) paid in advance. (In that case no further fee enhancement is also guaranteed.)
The university expects students to maintain well-behaved discipline and smooth conduct while in the campus. They must observe the rules and regulations in the university to allow everyone doing their academic and other activities without any interference and obstacles. For that matter, the students are required to maintain good behavior, fair attitude, and well-mannered dress code. The students must observe the following disciplinary rules and regulations:

1) Student’s guests are not allowed in the campus. In an extreme situation, they are only allowed by the administration on a special permission. They, however, are restrained to visit the library, computer labs, class rooms or any other labs in the campus.

2) Students ID cards are mandatory to be worn on the necks while in the campus.

3) Smoking is essentially prohibited in the campus.

4) Gender mix up is allowed only within the accepted social, cultural, and religious norms. Zero tolerance will be shown by the management on undue intimacy and unacceptable proximity, openly or in isolation.

5) No gender harassment is tolerated. Any student/person involved in this or similar practice will be strictly dealt with including immediate expulsion from the university.

6) No littering or trash be spread here and there and the bins placed at designated places in the campus should be used for this purpose. Slogan ‘BIN YOUR LITTER & KEEP THE CAMPUS CLEAN’ shall be strictly observed.

7) Students are advised to refrain from damaging the campus, its infrastructure or lab equipment including the furniture/fixtures etc. They must not write or carve anything on walls, furniture or equipment. They also must refrain from writing any abusive language anywhere in and around the campus against anyone.

8) No politics or grouping shall be allowed especially for voicing so-called students rights. They must contact the management individually in case of any social or personal assistance/help.

9) No harsh or threatening attitude/language is allowed against fellow students, faculty, administrative and support staff or the university as an institution is allowed at any cost. Any similar complaint shall be strictly dealt with urgent notice and strict disciplinary proceedings may be initiated against the offender.

10) Mobile phones or similar gadgets shall not be allowed in class rooms, examination halls, labs, library or other similar academic excursions. Violation of this rule may result in a heavy penalty or confiscation of the gadget.

11) Students must refrain from Cheating, Lying, stealing, plagiarism, fighting, threatening or gender harassment in and around the campus.

Dress Code

The students and staff of the university are required to dress neatly keeping the social and cultural values intact. The dress should not be inscribed with images or writing at all. No tights, sleeveless shirts, see-through dresses or shorts are allowed. Dress Code violation may result in confiscation of admission rights in the campus.

Male

Formal pants, jeans or khakis on weekdays. Shalwar Qameez is allowed only on Fridays. Patchy, tattered and shabby-looking jeans are not allowed. Leather shoes and joggers are allowed, however loose chappals are not allowed.

Female

Shalwar Qameez with Dupatta or Scarf. Trousers and long shirts with dupatta or scarf is also allowed.
**Semester Rules & Regulations**

**1.0 Introduction:**

The following regulations and rules govern the semester system of teaching and examination for the undergraduate degree programs awarded by UCEST Lahore Leads University. The undergraduate degree offered at the university under semester system is awarded as Bachelor of Science (BSc) in Engineering or Technology disciplines. The medium of instructions and examinations shall be English for all subjects except Islamic studies and Pak studies for which the medium of instructions and examinations shall be either Urdu or English.

**2.0 Total Credit Hours in Program & Degree Duration.**

2.1. Credit hours required for the award of the degree shall be 130-138 with minimum duration of four academic years (8 semesters) and maximum duration not more than seven years.

2.2. The university shall invite applications for admission to various academic programs on prescribed form through any appropriate medium of advertisement.

2.3. Applicants are required to get the admission form and submit it within the given time frame, complete in all respects along with the documents and fulfill the following criteria:

i. Attested copies of SSC / O level or equivalent certificates/award.

ii. Attested copies of FSc., / A level or Equivalent Certificate with Physics, Chemistry and Mathematics.

iii. Copy of CNIC or form B (if CNIC is not issued).

iv. For Engineering Program candidate must have minimum 60% marks in FSc / A level / DAE or equivalent marks to apply for admission.

v. For BS Tech program 45% marks are required in DAE/FSc/equivalent to apply for admission.

vi. Entry test UCEST conducted by Lahore Leads University/ NTS / UET is mandatory.

vii. Final merit will be prepared by assigning the proportions as mentioned below;

   - Entrance test UCEST / NTS / UET 30%
   - FSc/ A Level / DAE / Equivalent 70%

viii. Every application shall be accompanied by an undertaking signed by the applicant and endorsed by his / her father / guardian stating that he / she shall abide by the rules and regulations of the UCEST and instructions from time to time.

ix. Every application shall be accompanied by an undertaking signed by the applicant and endorsed by his / her father / guardian stating that he / she shall abide by the rules and regulations of the UCEST and instructions from time to time.


3.1. Admission is open to all eligible candidates without discrimination on the basis of caste, creed, gender, and place of origin or domicile from all over Pakistan. Foreign students seeking admission shall be required to submit their equivalent certificate/award to the admission office.

3.2. The university shall invite applications for admission to various academic programs on prescribed form through any appropriate medium of advertisement.

3.3. Applicants are required to get the admission form and submit it within the given time frame, complete in all respects along with the documents and fulfill the following criteria:

i. Attested copies of SSC, / O level or equivalent certificates/award.

ii. Attested copies of FSc, / A level or Equivalent Certificate with Physics, Chemistry and Mathematics.

iii. Copy of CNIC or form B (if CNIC is not issued).

iv. For Engineering Program candidate must have minimum 60% marks in FSc / A Level / DAE / Equivalent marks to apply for admission.

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viii. Every application shall be accompanied by an undertaking signed by the applicant and endorsed by his / her father / guardian stating that he / she shall abide by the rules and regulations of the UCEST and instructions from time to time.

ix. Every application shall be accompanied by an undertaking signed by the applicant and endorsed by his / her father / guardian stating that he / she shall abide by the rules and regulations of the UCEST and instructions from time to time.

3.4. All the candidates shall be required to bring the relevant original documents for verification at the time of commencement of classes.

3.5. Candidates selected for admission must finalize the admission requirements within the notified period.

3.6. Equivalence of academic qualifications by the concerned board, inter-board committee of chairman (IBCC), shall only be acceptable in case of any qualification other than FSc or DAE.

3.7. Within 15 days of completion of admission, the concerned department shall send profiles of all the newly admitted students to the Controller of Examination office. The profile shall include registration number, name of student, father’s name, date of birth, examinations passed with year mentioned, roll number, marks obtained, division and board of examination with date of the deposit slip.

3.8. All admissions shall remain Provisional till verification of all the documents of newly admitted students by the Student Section. If any student is found guilty of submission of fake documents, his admission shall be cancelled immediately without any notice at any stage, the institution shall have the right to take appropriate legal action against such student.

4.0 Theory subject evaluation and contacts hours.

4.1. For theory subjects, there shall be a midterm examination of one and half hour duration and a final examination of at least two hour duration. The evaluation shall be made on a scale of 100. The examination shall carry 30% weight for midterm and 40% weight for final term. Additional assessment instruments such as quizzes, assignment, presentations, seminars, group discussions, field study reports etc., as specified in the syllabus or as determined by the subject teacher, shall carry the remaining 30% weight of the subject.

4.2. Student joining late during the first semester due to unavoidable delays shall be provided an opportunity to make up for the missed assessment instrument by the concerned teacher.

4.3. For one credit hour of theory subject a duration of one contact hour per week is assigned.

5.0 Lab Work Evaluation and Contact hour.

In laboratory work / practical, each experiment, project, assignment, design or drawing etc. shall be determined by the concerned teacher in computing the cumulative performance on a scale of 100, of all assessment instruments completed during the regular semester or summer semester.

For one credit hour of lab or practical work, three contact hours per week are assigned.

6.0 Award of letter Grades and Degree.

6.1 The teacher shall award letter grades to the student on absolute scale basis.
Semester Rules & Regulations

6.2 A student shall be awarded a letter grade F, if he fails to achieve a minimum marks threshold linked to content mastery of the subject, a GPA of 0.0 is awarded in such case.

6.3 "A" is being the highest passing grade and "D" is being the lowest passing grade.

6.4 Only those students are eligible for award of degree who have a minimum CGPA of 2.0 after the completion of 8 semesters with no outstanding subjects to pass and have done compulsory internship and project work.

6.5 The letter grades and their corresponding grade points average (GPA) are mentioned in the table below:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Credit Point</th>
<th>Percentage</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
<td>90 – 100</td>
<td>Exceptionally outstanding</td>
</tr>
<tr>
<td>A+</td>
<td>4.7</td>
<td>90 – 94</td>
<td>Outstanding</td>
</tr>
<tr>
<td>A-</td>
<td>4.3</td>
<td>82 – 89</td>
<td>Excellent</td>
</tr>
<tr>
<td>B+</td>
<td>3.7</td>
<td>75 – 79</td>
<td>Very good</td>
</tr>
<tr>
<td>B</td>
<td>3.3</td>
<td>68 – 74</td>
<td>Good</td>
</tr>
<tr>
<td>C+</td>
<td>2.7</td>
<td>61 – 67</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>C</td>
<td>2.3</td>
<td>54 – 60</td>
<td>Pass</td>
</tr>
<tr>
<td>D</td>
<td>2.0</td>
<td>45 – 53</td>
<td>Low Pass</td>
</tr>
<tr>
<td>D+</td>
<td>2.3</td>
<td>54 – 60</td>
<td>Low Pass</td>
</tr>
<tr>
<td>W</td>
<td></td>
<td></td>
<td>Officially Withdrawn Course</td>
</tr>
<tr>
<td>R</td>
<td></td>
<td></td>
<td>Administrative Action for withdrawal</td>
</tr>
</tbody>
</table>

"Letter Grade, 'I' interprets incomplete grade.
'W' interprets subject formally withdrawn by the students
"AW" Administrative Action for withdrawal.
"OW" Officially Withdrawn Course.
'T' Transferred Credit (as approved by the Equivalence Committee)
'R' This suffix shows that a subject has been repeated.
'F' Failing grade below 50% marks.

6.6 Subjects repeated to improve grades, excluding "W" or "AW" grades, will be shown on the transcript with a suffix "R".

7.0 Award of "W" "AW" and "I" Grades Withdrawal, Award of "W":

7.1. The students must take the entire course load in the first and second semester.

7.2. Students are not allowed to withdraw from any course in the first two semesters.

7.3 A written request up to one week before the final term exam must be submitted to the Student Section allowed by the Department Chair for withdrawal from any course (i.e. by the end of 15th week) The approval is necessary however "W" will appear on the transcript instead of "R" and shall not be treated as failing (F) grade. The fee paid for such courses will neither be refunded nor carried over to the next semester.

8.0. Result Computation Scheme:

A) Semester GPA

"Semester Grade Point Average" means the summation of grade points of all semester credit courses divided by the total number of credit hour taken by the student in that particular semester, i.e.

\[
\text{GPA}_{\text{semester}} = \frac{\sum (P \times N)}{\sum N} 
\]

Where P presents a grade point assigned to a letter grade scored by the student in a course and N represents the number of credit hours associated with the course.

B) Cumulative Grade Point Average (CGPA)

"Cumulative Grade Point Average (CGPA)" means the summation of grade points of all credit course divided by the total number of credit hours taken by a student, i.e.

\[
\text{CGPA} = \frac{\sum (P \times N)}{\sum N} 
\]

Where P presents a grade point assigned to a letter grade scored by the student in a course and N represents the number of credit hours associated with the course. The sum of total courses/subjects covered in all semester's up to the semester for which CGPA is to be computed is taken.

Example of GPA Computation: If five subjects are taught in a particular semester then the GPA can be calculated as follows:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Subject</th>
<th>Credit Hr</th>
<th>Letter Grade</th>
<th>Numerical value of Grade score by student</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>English</td>
<td>4</td>
<td>A</td>
<td>15</td>
</tr>
<tr>
<td>2</td>
<td>Computer Fundamentals</td>
<td>3</td>
<td>B</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>Mathematics</td>
<td>3</td>
<td>C</td>
<td>9</td>
</tr>
<tr>
<td>4</td>
<td>Engineering Drawing</td>
<td>3</td>
<td>D</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>Engineering Mechanics</td>
<td>3</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

\[
\text{GPA} = \frac{56.5}{17} = 3.32 \text{ GPA} 
\]

Semester Rules & Regulations

7.4 Withdrawn subjects shall not be used in computation of GPA in the transcript.

7.5 Administrative action for Withdrawal, Award of "AW":

A student registered in a subject may not be permitted to continue due to shortage of attendance or other disciplinary action. Such students shall be awarded a "AW" (Administrative action for Withdrawal) grade. It shall appear in the transcript as such, and shall not be used in computation of GPA. Subjects repeated after administrative action for withdrawal shall not be suffixed with a letter "R".

7.6 Incomplete Grade "I":

Students registered in subjects, like theses or projects, etc., spread over more than one semester shall be awarded "I" (Incomplete) grade until the completion of the subject. This grade shall appear in the transcript as such, and will not be treated as "F" grade.
Semester Rules & Regulations

9.0 Repetition of Subjects:
9.1 There will be no makeup examination; if a student fails he will have to repeat the course.
9.2 The student must earn a passing letter grade in failing, withdrawn and deficient (in case of migrated students) subjects. Students are permitted to improve grades of passed subjects with grades below "C" or 2.0.
9.3 A student shall not be allowed to repeat a course in which he/she have got grades 2.0 or above it.
9.4 If a student repeats a course, the old grade will be replaced with the new grade; however, such course will be reflected as repeat course on the final transcript and suffix "R" will be placed.
9.5 Theory subjects and Lab work may be repeated in regular session with junior class or during summer semester.

10.0 Regular and Summer Semester Registration, Duration:
10.1 A summer semester is a concentrated period of study comprising 8 weeks arranged for the students to overcome their deficiencies.
10.2 A regular student may be allowed to register concurrently as a repeater candidate, with junior classes, for grade improvement during regular semesters with the permission of the concerned Chair.
10.3 A student shall take up a maximum of 18 credit hours in a regular semester.
10.4 Students who have completed their course work of 8th semester may register with junior classes in at most 18 credit hours in any of the concurrently running regular semesters.
10.5 A student may register up to a maximum of nine credit hours during the summer semester only with the permission of Concerned Chair.
10.6 In summer semester minimum five or any number of students as determined by the Department Chair shall be required to offer a course.
10.7 Only selected courses shall be offered during the summer semester (if feasible) recommended by the Department Chair.
10.8 During Regular semester, a student as a Repeater with regular junior classes shall sit in the quizzes, midterm, and final examination of theory paper subject or fulfill all the specified requirements of a practical / lab session.
10.9 It is the responsibility of the Repeater student to find time to complete the required assessment instruments and to resolve scheduling conflicts. The department shall not make any special scheduling arrangements for this purpose nor shall it permit holding of special examinations for Repeater students.
10.10 The student shall not be given any attendance relaxation in his regular classes while he is registered as a sit-in Repeater with the regular junior classes.
10.11 In case of repetition of a subject, the new grade earned shall replace the previous grade.

11.0 Missed examination
11.1 A student who misses a quiz or assignment is awarded a zero marks in the respective examination
11.2 However in case of missing mid terms and final examination there is a provision for retake of examination only in case of illness of the student or severe accident or death in the immediate family or any situation beyond his/her control. (A written proof is required for the incidence).
11.3 The Academic Committee shall examine the request of the student for a retake of test.
11.4 Retake of the midterm exams, if approved, is either retaken or adjusted in proportion to the final exam as decided by the Academic Committee without any fine.
11.5 In case a student misses final examination and retake is allowed by the Academic Committee, it shall be held within one month of the date of regular examination, a fee of Rs: 1000 per course shall be payable before the retake examination is held.
11.6 A written request for the retake of any examination for midterm or final examination must be submitted within 10 days after the end of each examination. Applications received after this time frame shall not be considered in any way.

12.0 Evaluation System
12.1 All theory subjects and practical are assessed on 100% weight scale.
12.2 However as a guideline, the proportions of various components of assessment would be as mentioned. 
Quizzes, class participation, assignments, etc 30%
Midterm examination 30%
Final examination 40%
For 30% weight for quizzes, class participation or assignments etc, it is the discretion of the course instructor to decide on the weights of various components of assessment, examinations, quizzes, presentations, project etc.

13.0 Paper viewing:
13.1 For mid-term and final examinations of theory subjects, the teacher of a subject shall set the question paper of that subject, supervise its examination, mark the answer books and prepare the award list.
**Semester Rules & Regulations**

13.2 Every teacher of theory subjects shall return the marked quizzes, assignments, etc. to the students.
13.3 Mid-term and final examination scripts shall be marked and delivered to the students for viewing on some particular date fixed by the teacher.
13.4 After viewing paper to the students, the answer sheets/papers shall be deposited with the controller examination office.
13.5 If a student fails to view the paper on particular date fixed by the teacher and after the papers are deposited with the controller examination office, he/she shall have to pay some fee fixed by the Student Section to view the paper within 15 days after the interim award list is displayed.
13.6 There shall be no re-evaluation of answer books, only the re-totaling of marks will be allowed as per rules.
13.7 All evaluation in the semester system shall be internal. The concerned teachers in all respective courses shall evaluate the students.
13.8 The teacher shall display the earned score of presentations, quizzes, assignments, midterm, final term etc. within one week of the event.
13.9 Teacher concerned would mark the final examination scripts, prepare and display Comprehensive Award List within one week of the examination of the subject.

**14.0 Interim & Comprehensive Award List**

14.1 Interim Award List would show the percentage as well as weighted score of each stage of assessment instrument of that subject including the mid-term and final examinations in case of theory subjects.
14.2 One signed hard and soft copy of the list shall be submitted to the Department Chair and additional copies shall be displayed on the Notice Boards.
14.3 The student will be given at least two working days to point out any anomalies, errors, omissions etc. in the Interim list displayed.
14.4 The teachers shall give due consideration to any anomalies, errors, omissions etc. in the list pointed out by any student, and may correct the list. Any corrections made in the list by the concerned teacher shall be reported to the Department Chair.
14.5 Any further processing of the list shall be carried out only after it has been displayed on the Notice Boards for the mandatory period and decisions regarding all matters pointed out by students have been taken into account.
14.6 All awards reported at Department Chair then shall be submitted to the controller examination office.
14.7 A comprehensive award list showing all the results of the students shall be displayed by the Controller Examination Department.
14.8 The student will point out any anomalies and will be corrected by the concerned teacher with consent of the concerned Department Chair.
14.9 After one week no change shall be allowed in the award list and the result shall be finalized.

**Semester Rules & Regulations**

**9.0 Repetition of Subjects:**

15.0 Relegation & DISMISsAL FROM THE UNIVERSITY
15.1 All the students are required to take up full load of the courses in the first two semesters i.e. no subject shall be withdrawn in the first two semesters.
15.2 A student shall be relegated to the next junior class if he/she fail to maintain a minimum CGPA of 1.0 at the end of the first calendar year of his/her first enrollment at the UCEST. A calendar year shall include two consecutive semester’s i.e. 1st semester, 2nd semester and a summer semester (if feasible and offered). The student shall register in all subjects with the first year and suffix, “R” shall not be affixed with the subjects studied in the first year after relegation.
15.3 After Relegation, if the student again fails to maintain a minimum CGPA of 1.0 at the end of the calendar year then the name of the student shall be removed from the rolls permanently.
15.4 Student applying for relegation into the next junior class on their own accord, shall have to seek permission of the Head of the Institution and the recommendation of the concerned Department Chair. The letter grade earned by the student in the subjects, of the academic year being repeated, in which he/she has earned a grade “C” or above shall remain unchanged and such subjects shall not be repeated. However, subjects repeated shall be suffixed with “R”.

**16.0 Probation**

16.1 There will be no probation in the first two semesters.
16.2 After second semester, if a student earns a CGPA of less than 2.0 at the end of any semester then subsequently the student shall be issued a warning and shall be placed on “First Probation” for the next semester.
16.3 To maintain admission, the student must come out of the probation in the next semester by achieving a CGPA of 2.0 or more. In case the student does not achieve the CGPA of 2.0, then again the student shall go on the “Second Probation”. If the student, who was earlier on the First Probation does not come out in the “second probation” by achieving the minimum required CGPA of 2.0, may be detained or dropped from the rolls of UCEST.
16.4 A student who has been detained or dropped from the rolls after failing to achieve good grades for two consecutive probations, can appeal against detention or drop from the roll. In such case, the Department Chair has the discretion to recommend the case of the student to Head of the institution/Academic committee of the department to allow the student to continue his/her studies.
16.5 There shall be no probation in the last two semesters.

**17.0 Semester Freeze**

A student may be allowed to freeze the semester due to some unavoidable situations beyond his/her control. The semester freeze rules are as described:

(1) Freezing of only regular semester shall be allowed by the Registrar office on recommendation by the Department Chair, if so requested by a student prior to beginning of a semester.
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2. The student freezing a semester on any ground shall be required to pay the semester freezing fee for the freezing semester in order to maintain the Full Residency Status at Lahore Leads University and as well for any other additional semester(s) as may be required later to complete/earn the prescribed program credits.

3. No freezing during the semester shall be allowed except on valid medical grounds or for circumstances beyond control of a student (authentic documentary evidence is required to the satisfaction of the Registrar).

4. During the period of semester freezing all rights or privileges as a student of the concerned person shall remain suspended (including right to secure an academic document as otherwise permissible).

6. Freezing of studies in first and second semester is not allowed.

7. If the semester freeze is applied within two weeks at the start of the semester then no fee for freezing of the semester shall be charged and if the fee has been paid, the same dues shall be adjusted in the subsequent semester.

8. In case the student is not enrolled in the running semester and give application for semester freeze after two weeks till the end of that semester, then semester freeze fee of Rs. 5000/- shall be charged.

9. If a student who has not enrolled in the semester does not apply for semester freeze after two weeks, with that semester, then a semester freeze fee of Rs. 10,000 shall be charged per semester.

10. If a student does not register in three consecutive semesters or fails to apply semester freeze for three consecutive semesters (summer semesters are excluded), the student shall be automatically deregistered.

11. After enrolment in the semester and two weeks of commencement of classes a student can not apply for semester freeze, he/she shall pay full fee of the running semester.

12. If a student wants to rejoin the program after deregistration, he/she dropped.

18.0 Attendance Rule

18.1 LEAVE AND FINE FOR ABSENCE

a. LEAVE (even on medical grounds) shall not be counted toward ATTENDANCE IN CLASS. Even approved leave shall be considered / counted as an ABSENCE FROM CLASS. Students shall be still responsible for maintaining minimum attendance requirement in each course during a semester. Due to the fact that leave shall not change the actual attendance percentage, however it shall be requested and approved in order to avoid imposition of fine and / or to prevent the student from being suspended / dropped from the course / University rolls instantly.

b. A written application for leave shall be turned in to the office of the Department Chair. After approval by the Instructor (in case it is for three consecutive days) and with recommendation / otherwise remarks by the Instructor (in case it is for more than three days), shall be sent to the Department Chair for approval / further action. The Student Leave Form is available in the Office of Department Chair. Supportive documentation of the reason for absence shall be required.

c. Leave shall be requested in advance except for valid medical reasons or exceptional circumstances beyond control of an individual. However it shall be subject to approval by the Department Chair (if the leave period exceeds three days).

d. Leaves shall not be approved for the period covering the Mid-Semester (Mid Term) Examination or the End of Semester (Final) Examination. For a Medical Emergency (valid documentary evidence is required), the leaves shall be approved by the Academic Committee.

e. Any concession / compensation (for example, repeating of exam / test / quiz, class / lab / field work, etc.) of leave shall not be considered and/or given in the instructional or assessment exercises of the course work in any manner and/or on any ground whatsoever, except for valid medical emergency or urgent official engagement (authentic documentary evidence required) unless it is approved by the Department Chair.

f. Fine for Absence from a Class / Lab Session without Approved Leave:
   A fine for absence without duly approved leave shall be payable by the concerned student @ Rs. 100/- per Class Session.

18.2 Re-admission Fee due to suspension / drop on account of Absence without Duly Approved Leave after registration in a semester
   A student dropped from the rolls of the University on account of absence without duly approved leave after registration in a semester (in any program) shall be required to pay Rs. 5,000/- as Re-admission Fee together with due fine for the absence period.

18.3 Students shall not be allowed to appear in the final examination of a subject in which the attendance of the student is less than 75%, and the student shall be awarded ‘AW’ grade in that subject.

18.4 The Head of Department (Department Chair) and the teacher concerned are authorized to cancel the course enrollment of any student due to the shortage of attendance.

18.5 Students with poor attendance record will be issued written warning at any time during a semester. The Department Chair reserves the right to inform the student’s parents or guardian through a letter of possible consequences including dismissal from the particular course.

18.6 In case a student joins a course after it has started, he/she will have to make up the deficiencies for any quizzes, assignments and attendance requirement with the advice of class teacher.

18.7 In case there is a serious illness or an accident, the attendance may be relaxed up to 70% with the recommendation of Department Chair and approval of the Head of the Institution / Dean.
18.8 Cancellation of Admission:
If a student fails to attend any in-class exercise / activity during the first four weeks after the official commencement of the semester, his / her admission shall stand cancelled automatically without any notification, on a reported absence by the course instructor.

19.0 Departmental Examination & student grievance committee

19.1 A three member committee shall be constituted by the Head of the institute and headed by a senior faculty member to redress the grievances of the students.

19.2 Main function of the committee shall be:
1. To hear appeals arising from evaluation of papers.
2. Appeal to change of grades by a student.
3. To make arrangements for the conduct and supervision of examination.
4. To redress any grievance about any course instructor.
5. Timely preparation and announcement of results of midterm and final term examination.
6. To maintain uniformity of standards in the courses taught in the department by individual teachers.

20.0 Migration/transfer of credit of subjects

1. Students from other HEC approved universities and programs accredited by PEC, may apply for migration in the same programs, in accordance with UCEST Migration Rules.
2. Transfer of credit is decided at the time of admission and is determined on a course to course basis.
3. Students applying for transfer of courses must provide all previous academic records to the respective Department Chair’s office.
4. The transfer course must be similar in content with UCEST or must conform to the same competency level of a similar course taught at UCEST. Subjects that do not satisfy these conditions shall not be transferred nor given any credit.
5. No credit hours of a course are transferred if the grade is less than C.
6. The academic committee of the concerned department shall decide the transfer of credits.
7. The credits transferred are counted towards the degree requirements of the student. However, GPA of transferred credits shall not be counted towards the calculation of CGPA, and that only “Transferred” shall be written against those subject(s) in which transfer of credits was allowed. In addition, migrated students shall not be eligible for a merit position nor Honours degree.
8. Migrating student may be deficient in subjects as compared to the class which he has joined. Such a student shall repeat these subjects. In case, he is studying a particular subject for the first time, it will not be classified as repeated subject for the student.

21.0 Withdrawal from a Course:

1. The students must take the entire course load in the first and second semester.
2. Students are not allowed to withdraw from any course in the first two semesters.
3. A written request up to one week before final term exam (up to 15th week) must be submitted to Head student section for withdrawal from any course. The approval is necessary however “W” will appear on the transcript instead of “R”. The fee paid for such courses shall neither be refunded nor carried over to the next semester.

22.0 Time limit for Degree Completion:

Maximum time frame allowed for the completion of the degree is seven calendar years from the date of 1st enrollment. If the limit is exceeded without proper approval of Head of institution, the student shall be dropped from the program.

23.0 Conduct of Examination of theory Subjects under Semester Systems:

23.1 Question Papers
1. All question papers are set by the concerned teacher.
2. The paper setters ensure correctness; supervise the photocopying or duplicating of the papers.
3. Question papers are kept in the safe custody of the teacher till the start of the mid or final examination. He shall bear legal and moral responsibility for the safe custody and secrecy of the question papers.

23.2 Reference Material during Semester prior to class tests, midterm or final examination, the subject teacher shall announce text and reference books, notes or other material to the students.

23.3 Examination Schedule:
The Department chair shall publish the mid-term and final examination schedule at least two weeks before start of the examinations in accordance with the University Academic Calendar.

23.4 Conduct of Mid-Term and Final Examinations
The subject teacher shall be the Superintendent for the conduct of examination. The Department Chair shall depute teachers or staff as Deputy Superintendent and Invigilators for the conduct of examinations. The Superintendent shall ensure the following:-
1. That all answer books used in the examination are signed or intialed. The teacher may require the students to solve the paper on the answer books itself. No other answer books are to be used in these cases.
2. Answer books are issued to the invigilators 5 minutes before the commencement of the examination and retrieved at the end of the examination.
3. The absentee report, if any, is prepared and forwarded to the Department Chair’s office at the end of each examination.

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4. That no student is allowed to join the examination 30 minutes after its commencement.
5. That no student is allowed to submit the answer sheet and leave the examination room within 30 minutes of commencement of examination. Visits to toilets are carefully controlled.
6. That the question papers and answer books of a student detected using unfair means or assisting another candidate, are taken away and the matter is reported to the respective Department Chair. The superintendent records all available evidence to be used as written proof later on.
7. That the students write their registration numbers, name and class on the front cover of each additional answer sheet used. If more than one answer books are used, these are stapled together.

23.5 The subject teachers, being the Superintendent(s), shall supervise distribution of the question papers to the students according to the schedule published. In case of multiple Examination Centers, subject teachers (Superintendents) shall be available in or near the examination center during examination of their subject to clarify any query and to collect answer books after the examination.

23.6 Disposal of Answer Scripts:
Answer sheets of midterm and final examinations will be stored in the respective department or in the controller examination office for four calendar years after declaration of results of that semester. The sheets would be destroyed subsequently.

24.0 Fee Deposit Rule:
1. Fifty percent fee must be paid before the Midterm examination.
2. A student wanting to take up the final exam of semester must clear his/her full dues before examination otherwise examination slip/Admit Card shall not be issued to him/her.

25.0 Classroom Misconduct & General Misconduct
(1) All students are expected to arrive at classes on time and conduct themselves in an appropriate disciplinary manner during class, laboratory sessions, field experiences, and examination / assessment exercises. Faculty members shall set standards regarding appropriate classroom behaviour and have the authority to remove from their class any student whose behaviour is deemed inappropriate or disruptive. The instances of serious breach of discipline shall be reported (in writing) to the Department Chair who shall send the matter (together with his comments on a separate sheet of paper), through the Dean of the Faculty, to the Vice Chancellor. The Vice Chancellor shall instantly refer the matter to the Student Discipline Committee constituted vide THE LLU REGULATION No. 1 of 2012 for necessary action.
(2) Lahore Leads University expects its students to meet the highest ethical and academic standards. Academic standards prohibit:
   a. Concealing notes during examinations/tests/quizzes for cheating purpose.
   b. Collusions between students in examinations/tests/quizzes.
   c. Copying the work of another student either with or without that student's knowledge during an examination /test/quiz or during/outside of class for the purpose of an assigned task.
   d. Plagiarism: The definition for plagiarism includes copying of any kind without giving credit to the source of the information, i.e. representing another's work or ideas as one's own. For example, word-for-word copying from published material, "copy and paste" from the internet or other electronic sources, and paraphrasing new ideas without giving proper citation to the quoted or paraphrased work. In addition, self plagiarism is prohibited (a student using his/her previously written paper to meet the requirements for another course).
   e. Unauthorized cooperation on individually assigned work.
   f. Other acts of academic dishonesty, for example, electronic device for cheating purpose during an examination /test/quiz / practical examination / etc. and students will not bring mobile phone in the examination halls.
3. Students responsible for indulging in practices stated above or any other act of indiscipline on campus shall be severely punished in accordance with the policies and procedures laid out for the purpose.
4. The Student Discipline Committee, constituted vide THE LLU REGULATION No. 1 of 2012, shall proceed on these matters and necessary action(s) shall be undertaken in due course.

26.0 Requirements for the award of degrees / Official transcripts for Undergraduate Students
1. A student shall only get entitlement for the award of a degree / official transcript unless s/he gets regular registration in this University and fulfills other requirements.
2. A student must have a regular admission in an Undergraduate Program offered by this University, and shall be required to successfully complete the total credits required to achieve entitlement for the degree. Of them, at least a minimum of sixty (60) per cent credits shall be earned with Full Residency Status at Lahore Leads University.
Gallery

[Series of images showing various events and gatherings with numerous people, including formal presentations and group photographs]
Gallery

[Images of people in different settings]

Gallery

[Images of people in different settings]
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