

FACULTY OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ARCHITECTURE

OVERVIEW

The ultimate goal is to produce the architects to meet the challenges of the fast growing society using modern technologies and systems in the field of architecture and enhance built and social environment. It is especially tailored for the women folk of the country to produce all-rounder individuals who can play a leading role in shaping up a progressive society.

The five year degree program in Architecture aims to foster critical thinking and develop the capability to significantly improve the built environment through active participation of its graduates in the profession of architecture in Pakistan and region. The discipline of Architecture is a technical combination of sciences, mathematical skills, creative arts and social manifestations. The interdisciplinary composition of studies has all the aspects of built, natural and social environments in preview. The predominant challenges of sustainability in built environment, urban expansions and consumption of energy resources largely depends upon effective architectural solutions. A comprehensive cadre is thus needed for profession of Architecture to fulfill growing requirements of society. A serious demand for highly trained architects has surfaced within the country in last decade. Lahore College for Women University has a long history of imparting quality education to the women folk of the country. Since the inception of the university a large number of new disciplines have been introduced. As a result, there has been a phenomenal increase in student enrollment. Professional degree of Bachelors in Architecture spanning over five years is offered at Lahore College for Women University. Architecture Department at LCWU although in a nascent stage, has well equipped laboratories facilitating and strengthening instruction in Computer Application, Model Making, Photography and Surveying. The Department serves as a center of excellence in the country with focus on studying the past present and future trends in the development of the built environment. The department thus also shoulders the responsibility of preserving our social values and cultural heritage apart from providing expertise to keep up with the demands of changing times.

B-Arch Degree Program

- Bachelor of Architecture (B. Arch)
- Five years duration (10 semesters)

RESEARCH PROJECTS: With the Approval of regular statutory bodies of LCWU, Lahore, three research groups listed below are formulated by Architecture Department, LCWU

- Sustainable Construction Management Research Group
- History and Conservation Research Group
- Urban Design and Integration Policies Research Group

NATIONAL & INTERNATIONAL COLLABORATIONS:

Regular seminars and workshops are arranged by Department of Architecture in collaboration with academic and industry partners. The following national level partners have been eminent in this regard:

- Directorate of Building & Research Station , C& W Govt. of Punjab
- Overseas Pakistani Commission , Govt. of Punjab
- Directorate of Archeology , Govt. of Punjab
- TEVTA Secretariat , Govt. of Punjab
- Punjab Disaster Management Authority , Govt. of Punjab

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- An international 3-day Conference & Workshop Session in collaboration with McWhorter School of Building Science, Alabama University, Auburn USA titled 2nd International Workshop on High Performance Energy Efficient Building Design & Construction with Prof Dr. Nobert Lechner as focal person held a very productive workshop at Lahore College for Women University in March 2016, as a collaborative effort of Architecture Department LCWU and Architectural Engineering Department, UET Lahore.
- Department of Architecture at LCWU has established Memorandum of Understanding with Disaster Risk Management Unit, PSBA, Manila, Philippines and Quezon City Government, Manila Philippines under the kind patronage of Vice Chancellor Dr. Bushra Mirza and Joy Belmonte, Mayor Quezon City.

ELIGIBILITY CRITERIA

- F.Sc (Pre- Engineering / A Levels Pre- Engineering)
- Intermediate with Physics, Mathematics and Computer Science
- Minimum 60% marks in Intermediate
- Equivalence of A levels / O levels for grades issued from IBCC must be attached.
- Kindly visit University website (www.lcwu.edu.pk) for further details / criteria.

LIST OF FACULTY

Ar. Yasmeen Abid Maan, COD, (MPCATP) (Associate MIAP)

Ph.D. (University of The Punjab) - on-going, M. Arch (University of the Punjab)

B. Arch (UET, Lahore)

Ar. Maliha Khalid, Asst. Professor, (MPCATP), M-Arch (University of the Punjab),

B. Arch (UET, Lahore)

Ar. Asia Jabeen, Asst. Professor (MPCATP), Ph.D. (Department of Architecture, UET,

Lahore) – On-going, M-Arch (UET, Lahore) B. Arch (UET, Lahore)

Ar. Beenish Usman, Lecturer, (MPCATP), M.S in Environmental Design (AIU)

B. Arch (UET, Lahore)

Ar. Nida Qanber Abbasi, Lecturer, (MPCATP) (MIAP), M-Arch (University of the Punjab), B. Arch (COMSATS, Lahore)

Ar. Maryam Jamil, Lecturer, (MPCATP) (MIAP), M. Arch (UET, Lahore) B. Arch (UET, Lahore)

Ar. Khizra Shahzad, Lecturer, (MPCATP), B. Arch (LCWU, Lahore)

VISITING FACULTY:

Prof Dr. Shaukat Mahmood Gold Medal for Research in Islamic Calligraphy

Ex-HEC Professor, Professor in Fine Arts (Voluntarily Basis) & Coordinator, Research Centre for Ph.D Studies Formerly Professor and Holder of Al-Bukhari Chair at the International Islamic University, Kuala Lumpur, Malaysia Ph.D. Islamic Architecture (Edinburgh University) M.Sc.: Environmental and Architectural Conservation (Heriot-Watt University)

M.A.: Fine Arts (Gold Medalist), (Punjab University).

Ar. Asim Shah Professor (MPCATP) B. Arch (UET, Lahore)

Principal Architect at Arch Blue Consultants

Ar. Sana Aleem Lecturer (MPEC) M.Sc. in Architecture and Environmental Design (University of Westminster, UK) B.Sc. Architectural Engineering (UET, Lahore) Architect at Zamana Studios

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Ar. Sabir Iqbal Lecturer (MPCATP) M-Phil (Arch) (PU, Lahore), B. Arch (NCA, Lahore) Chief Architect at Maadhu Art Design and Architecture

Ar. Amna Bashir Lecturer (MPCATP)

M-Arch (UET, Lahore) on-going, B. Arch (LCWU, Lahore)

Ar. Mahnoor Asim Lecturer (MPCATP), M.Arch (UMT, Lahore) on-going, B. Arch (LCWU, Lahore) Chief Architect at Realm Design and Construction

Ar. Usman Kazmi, Lecturer (MPCATP) B. Arch (UET, Abbotabad) M.Arch (UET, Lahore)

Ar. Fareena Shahid, Lecturer, (MPCATP), B. Arch (LCWU, Lahore)

Architect at Designs Architects, Engineers Designers

HONORARY FACULTY

Prof Dr. Tabasum Raza, Associate Dean of Graduate School of Business (GSB)

Director of Disaster Risk Management Unit, GSB,

Philippines School of Business Administration (PSBA) - Manila, Philippines.

Prof Dr. Qamar Ul Islam, (Life Member-PCATP) Member of American Planning Association, APA Ambassador, Ex-Chairman, Department of City and Regional Planning (CRP), University of Engineering and Technology, Lahore

Prof Dr. Siddiq A Akbar, (Life Member-PCATP), Professor, Ex-Chairman University of Engineering and Technology, Lahore

Prof Dr. Nobert Lechner, Professor Emeritus in the College of Architecture, Design, and Construction at Auburn University. Alabama USA

NON TEACHING STAFF

Mr. M. Safeer, (Model Making Lab Supervisor)

Mr. Hamza Hussain, (Computer Lab Supervisor)

Contact Details

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DEPARTMENT OF CITY & REGIONAL PLANNING

The department offered the following programs:

- City & Regional Planning (BS, Regular)
- City & Regional Planning (BS Self-Supporting Evening Program)

OVERVIEW OF CITY AND REGIONAL PLANNING

City and Regional Planning (CRP) Department is first department of its kind in a Women University in Pakistan with broader objective of mainstreaming gender in development. The establishment of the CRP Department at LCWU was recommended by the National Curriculum Review Committee (NCRC) on City and Regional Planning in its meetings held at Higher Education Commission (HEC), Regional Office, Karachi. The recommendation to establish CRP department at LCWU was presented by Dr. M. Atiq ur Rahman which was endorsed by the representatives of Pakistan Council of Architecture and Town Planning (PCATP) in NCRC-CRP. As an outcome of the recommendation of NCRC-HEC, the Syndicate of LCWU approved the establishment of CRP Department in the year 2012. The department is accredited by Pakistan Council of Architects & Town Planners (PCATP) vide letter number NO.PCATP/LCWU-CRP-LHR/10/16 dated October 24, 2016. The department has produced 130 qualified Town Planners and aims to add around of 275 Town Planners by the year 2025 as a contribution to strengthen national human resource in the field of City and Regional Planning. Most of the graduates are doing jobs in public and private sector and many are pursuing higher studies in the field of City and Regional Planning in institutions such as NUST, PU, UET and abroad. The Department is in the process of establishing a new program of BS Disaster Management. Under this program, the department aims to produce qualified Disaster Managers having scope of job opportunities in Rescue 1122, National Disaster Management Authority (NDMA), Provincial Disaster Management Authority (PDMA) and other NGOs as well as private sector.

INTERNATIONAL LINKAGES:

- Prof. Dr. Tatsuro Sakano-Lab, School of Environment and Society, Tokyo Institute of Technology (TITECH), Japan.
 - Prof. Dr. Hideharu Morishita-Lab, Department of Policy Studies, Aichi Gakuin University (AGU), Japan
 - Prof. Dr. Takeshi Komai-Lab, Department of Environmental Studies, Graduate School of Environmental Studies, Tohoku University, Sendai, Japan
 - Philippine School of Business Administration (PSBA), Manila, Philippines (Included in World Higher Education Database (WHED) and listed in United Nations Educational, Scientific and Cultural Organization's (UNESCO) and the International Association of Universities (IAU) i.e. IAU/UNESCO List)
 - School of Urban and Regional Planning (SURP), University of the Philippines
 - International Society of City and Regional Planners (ISoCaRP), Netherlands
 - Prof. Dr. Dietwald Gruenl, Chair of Landscape Ecology and Landscape Planning School of Spatial Planning, TU Dortmund University, Dortmund, Germany.
- The agreements of exchange with above institutions include the activities in academic areas of mutual interest, on the basis of equality and reciprocity especially:
- Exchange of faculty, students, researchers and other research and administrative staff
 - Collaborative research projects

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- Lectures and symposia/video conferencing
- Exchange of academic information and materials
- Other forms of academic cooperation.

Establishment of “Institute of Town Planning and Sustainable Development” at LCWU in future.

The Department has also initiated collaborative academic activities with the respective faculty/members of the following local and international institutions:

- National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan
- School of Spatial Planning, TU Dortmund University, Dortmund, Germany
- University of Western Sydney, Australia
- International Center for Literacy and Culture (ICLC), Tokyo
- Asian Institute of Technology (AIT), Bangkok, Thailand
- United Nations Development Program (UNDP), Islamabad
- Federal Ministry of Climate Change, Islamabad
- Institute of City and Regional Planning, Japan
- SHARP-SOLAR, Japan
- National Disaster Management Authority (NDMA), Islamabad
- Provincial Disaster Management Authority (NDMA), Punjab
- UK Emergency Response Team, UK
- Rescue 1122
- Japan International Cooperation Agency (JICA), Islamabad
- UNHABITAT, Islamabad

LEARNING OBJECTIVES OF CITY AND REGIONAL PLANNING (CRP)

Following are the major objectives of the City and Regional Planning department that will be implemented at LCWU in the light of NCRC-CRP-HEC approved curriculum:

Vision:

Contribute towards enhancing the quality of life and environment of diverse populations from varied human settlements through participatory, equitable and inclusive sustainable development

Mission:

- Impart knowledge and skills to produce empowered, creative, values driven and motivated City and Regional Planners capable of meeting the challenges of contemporary and future human settlements thereby adding to knowledge economy within local and global context.
- Develop ability to deal with the emerging planning problems and development issues at the urban and regional scales while considering ground realities.
- Inculcate skills of leadership, entrepreneurial creativity, cost benefit analysis, planning and spatial data analysis, equity, ethics, decision making, advocacy and public involvement.
- Equip the students with theoretical knowledge and field experience so that they can pursue career in planning and development sectors at national and international levels and promote sustainable development.

LEARNING OUTCOMES

The graduates of City and Regional Planning are associated with International Society of City and Regional Planners (ISoCaRP) for international exposure and professional practice at national and international level

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Our graduates have secure career path with maximum employment opportunities at local, provincial and federal level in different ministries and departments as well as in international development agencies and private sector. The department also assists to arrange foreign funded scholarships and international training opportunities for brilliant and talented students for higher education abroad.

BS CRP PROGRAM

ELIGIBILITY CRITERIA

- F.Sc.(Pre Engineering)/ICS/General Science(Statistics, Math and Economics)
- Admission is based on Open Merit and Eligibility Criteria is minimum of 60% marks. Department may conduct its own entry test/interview if required. Entry Test of UET is acceptable, but it is not a compulsory requirement.

Duration: 4 years

Total Credit Hours: 133 (Th. 82 & Pr.51)

LIST OF FACULTY

Prof. Dr.M.Atiq ur Rahman (Head of Department) Professor

Ms. Attiya Haseeb Assistant Professor (on study leave)

Ms Siddiqa Amin Assistant Professor

Ms Maria Ali, Lecturer

Hafiza Saba Islam, Lecturer

Ms Faryal Khalid Lecturer

Ms Arwa Tariq Lecturer

Ms Iqra Ismail Lecturer

Ms Amna Shoaib Lecturer

Ms Atia Saleemi GIS Analyst

Ms Kashmala Tahir Teaching Assistant

LIST OF VISITING FACULTY

Prof. Dr. Shaker Mahmood Mayo (Chairman/ Professor, City and Regional Planning (CRP), UET, Lahore)

Prof. Dr. Ijaz Ahmad (Professor, City and Regional Planning (CRP), UET, Lahore)

Syed Nadeem Akhter Zaidi (Visiting Assistant Professor) Chief Town Planner
Lahore Development Authority (LDA) M.Sc. Urban Design, University of Hong Kong

Muhammad Nadeem (Visiting Assistant Professor) M.sc. Rural and Regional Development Planning, Asian Institute of Technology (AIT), Bangkok ,Thailand.

LIST OF FACULTY

Prof.A.Sattar Sikandar (Ex Dean, Faculty of Architecture and Town Planning, University of Engineering and Technology(UET),Lahore)

Sheikh Abdul Rasheed (Ex-DG, Lahore Development Authority (LDA),Lahore)

Prof. Dr. Qamar ul Islam (Ex-Chairman, CRP Department, UET, Lahore/ APA Planning Ambassador USA)

Plnr. Aslam Mughal (Ex-President, Institute of Planners, IPP, Pakistan)

Plnr. Waheed Ahmad Butt Ex-Chief Metropolitan Planner (CMP), Lahore Development Authority

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Plnr. Khalid Mahmood Sheikh Ex-Chief Town Planner, Lahore Development Authority (LDA), Lahore

Plnr. Mubashar Hussain Director NIDM, UNDP, Islamabad

Mr. Zia ul Haq Ex- Regional Director, Pakistan Council of Research on Water Resources (PCRWR), Govt. of Pakistan.

Brigadier (Retired) **Syed Fiaz Hussain Shah**, Senior Capacity Building Specialist (SCBS), National Institute of Disaster Management (NIDM), Islamabad.

Prof. Dr. Nasim H. Ansari Ex-Chairman, Department of City and Regional Planning (CRP), University of Engineering and Technology (UET), Lahore

Prof. Tariq Habib Malik Ex-Faculty, Department of City and Regional Planning (CRP), University of Engineering and Technology (UET), Lahore

LIST OF HONORARY (FOREIGN)

(Lectures through Video conferencing)

Prof. Dr. Tatsuro Sakano Tokyo Institute of Technology (TITECH), Japan

Prof. Dr. Hideharu Morishita Aichi Gakuin University (AGU), Japan

Prof. Dr. Takeshi Komai Tohoku University, Tohoku, Sendai, Japan

Prof. Dr. Chihiro Inoue Tohoku University, Tohoku, Sendai, Japan

Prof. Dr. Shigemochi Hirashima Professor Emeritus Meiji-Gakuin University, Japan;

Visiting Senior Advisor, Japan International Cooperation Agency (JICA).

Shoji Hasegawa Expert on Disaster Management at NDMA, Japan International Cooperation Agency (JICA), Islamabad

Dr. Tabassam Raza Associate Dean and Director of R&E, Planning and International Linkages (PIL) Philippine School of Business Administration (PSBA), Philippines

Mr. Ricardo R. Abreu Vice Dean, Undergraduate Studies Philippine School of Business Administration (PSBA), Philippines

Ms. Liwag Carmelita Rosario School of Urban and Regional Planning (SURP), The University of Philippines, Manila

Prof. Dr. Dietwald Gruehn Chair of Landscape Ecology and Landscape Planning, Adjunct Professor MSU (USA), CNU (Korea) School of Spatial Planning, TU Dortmund University, Dortmund Germany.

Dr. Shinji Tajima Ex-JICA Advisor (for Govt. of Pakistan), Executive Director, International Center of Literacy and Culture (ICLC), Tokyo, Japan

Prof. Dr. Mario R. Delos REYES Dean, School of Urban and Regional Planning, University of the Philippines

Dr. Awais Latif Paracha New South Wales University, Australia

Contact Detail

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DEPARTMENT OF COMPUTER SCIENCE

OVERVIEW

The history of the Department of Computer Science dates back to 1996 when it was started as a computer centre by the grant provided by Ministry of Social Work and Women Development. The Department started ICS classes in 1997 in addition to offering Short Courses and Diplomas. The Lab facilities were extended with the grant from Punjab Information Technology Board and started BCS classes in 1999. The Department started 4 year BSCS degree program in 2000 and expanded its facilities in 2001 with the funding provided by Higher Education Commission. MSCS degree program was introduced in 2002. The Department was shifted in its new building in 2005. The Department started PhD degree program in 2011. The Department expanded its infrastructure further with the construction of a new block funded by Ministry of Information Technology and Telecommunication in 2015 to offer students a nurturing innovative environment.

Currently, the Department is equipped with high speed internet of 400 MB bandwidth supported by fibre backbone, and video conferencing facility. There are a total of 07 Computer Labs. Departmental library has over 15000 books. Moreover, the Department has access to international journals and scholarly publications through HEC Digital Library.

LEARNING OBJECTIVES:

The Department strives to produce highly skilled professionals who apply specialist skills and knowledge to everyday workplace situations. Besides having highly developed technical abilities, they are expected to carry out research and to keep their knowledge continually up-to-date. Most importantly, they are required to have excellent communication skills.

OUTCOMES:

To set pace in the field of technology, the Department has designed several degree courses that provide balanced coverage of the various aspects of Computer Science. These programs are intended to produce graduates who have acquired:

- Depth and breadth of knowledge in computer science as evidenced by an understanding of computing systems and science coupled with the capacity to produce feasible and responsible solutions to complex computing problems.
- Literacy as evidenced by skills in writing, reading, speaking, and listening.
- Critical thinking as evidenced by skills in interpretation, analysis, evaluation, inference, argumentation, and reflection.
- Values as evidenced by the ability to make reasoned and ethical choices and to accept responsibility for them.
- Interpersonal skills as evidenced by leadership ability, appreciation for diversity, and the capacity to work effectively with others.
- Life-long learning skills as evidenced by the ability to adapt to innovation and change.

DEGREE PROGRAM OFFERED, PROGRAM DURATION, CREDIT HOURS,

- BS Computer Science (Regular/Self support evening program)
- MS Computer Science (Regular/Self support evening program)
- PhD Computer Science

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BS COMPUTER SCIENCE

The BS Computer Science is a four year Degree Program, comprising of 133 Credit Hours.

LEARNING OBJECTIVES:

Following are the learning objectives

- To produce quality graduates equipped with a wide breadth of knowledge
- To develop strong critical, analytical and logical thinking in the graduates
- To establish effective communication and interpersonal skills in the graduates

OUTCOMES: Following are expected outcomes

- The program will prepare such professional as to fulfill the need of industry
- The program will establish foundations for further learning and education
- The program will produce graduates with convincing capabilities

ELIGIBILITY CRITERIA FOR BS COMPUTER SCIENCE:

Intermediate or equivalent with Mathematics or Computer Science subject. Equivalence must be from IBCC.

MS COMPUTER SCIENCE

The MS Computer Science is a two year Degree Program, comprising of 31 Credit Hours.

LEARNING OBJECTIVES:

- To produce quality graduates equipped with a focused depth of a specialized domain of computing knowledge
- To develop a strong and critical reasoning necessary for research
- To establish effective communication and interpersonal skills in the graduates

OUTCOMES:

- The program will prepare such professional as to uplift the economic situation of the country
- The program will strengthen the foundations for further learning and research
- The program will produce graduates with convincing capabilities

ELIGIBILITY CRITERIA FOR MS COMPUTER SCIENCE:

BSCS (4 Years) or B. Sc. Computer Science (Hons.) (4 Years) or MCS or MIT or M. Sc. Computer Science or Equivalent. Equivalence must be from HEC.

PHD COMPUTER SCIENCE

The PhD Computer Science Degree Program comprises of 18 Credit Hours of Course Work, and Research Work.

LEARNING OBJECTIVES: Following are the learning objectives

- To produce quality researchers equipped with strong analytical capabilities

OUTCOMES:

The Program will prepare such researchers who will uplift the socio economic situation of the country

ELIGIBILITY CRITERIA

- Minimum CGPA 3.0 out of 4.0 in the semester system or 1st div in the annual system in MS/M-Phil/ or Equivalent degree in computer science.
- Equivalence must be from HEC

LIST OF FACULTY

Dr. Muhammad Abuzar Fahiem, PhD, Professor & Chairperson of Department

Dr. Sonia Gull, PhD, Associate Professor (Leave)

Dr. Muhammad Mohsin Nazir, PhD, Associate Professor

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Dr. Nadia Kanwal, PhD, Associate Professor (Leave)

Dr. Saima Farhan, PhD, Associate Professor

Dr. Huma Tauseef, PhD, Associate Professor

Ms. Mariam Nosheen, MS, Assistant Professor

Dr. Ayesha Iqbal, PhD, Assistant Professor

Ms. Maria Saleemi, PhD, Assistant Professor

Dr. Komal Bashir, PhD, Assistant Professor

Ms. Humaira Kauser, MS, Assistant Professor

Dr. Faria Kanwal, PhD, Assistant Professor

Dr. Maria Anjum, PhD, Assistant Professor

Dr. Fahima Tahir, PhD, Assistant Professor

Dr. Ayesha Afzaal, PhD, Assistant Professor

Dr. Fatima Anjum, PhD, Assistant Professor

Ms. Sidra Rafique, MS, Lecturer

Ms. Rabia Javed, MS, Lecturer (Leave)

Ms. Khansa Atif, MS, Lecturer

SUPPORT STAFF

Ms. Wajeeda Malik, MS, Computer Instructor

Ms. Ambreen Amna, MS, Computer Instructor

Ms. Attia Anis, MS, Computer Instructor

TECHNICAL STAFF

Mr. Syed Sibtain ul Hassan, Web Administrator

Mr. Taimur Salam, System Administrator

Dr. Usman Ahmad, Assistant Database Administrator

Ms. Syeda Saira Kazmi, Web Coordinator

Mr. Muhammad Javed Iqbal, Assistant Data Processor

Mr. Irfan Ghaffar, LAN Technician

Ms. Rabia Zahoor, Computer Lab Supervisor

Ms. Amna Alamgir, Computer Lab Supervisor

Ms. Affifa Gul, Computer Lab Supervisor

Mr. Muhammad Naeem, Computer Lab Supervisor

Mr. Muhammad Asim, Computer Lab Supervisor

Mr. Muhammad Athar, Computer Lab Supervisor

Mr. Irfan Zafar, Computer Lab Supervisor

Mr. Shakeel Zada, Computer Lab Supervisor

Ms. Qurat ul Ain, Computer Operator/ Data Entry Operator

Contact Details

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FACULTY OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ELECTRICAL ENGINEERING

OVERVIEW

Electrical Engineering Department is providing quality to produce highly qualified engineers who can address the challenges of the new century and excel at national and international level.

The department has successfully obtained accreditation from Pakistan Engineering Council (PEC) for the batches of 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011 and 2012 in Electronics Engineering and from 2011 onwards in Electrical Engineering and also ISO 9001:2000 certification in 2006.

Department of Electrical Engineering (DEE) at Lahore College for Women University has a current strength of about 200 students who are pursuing bachelor's degree in Electrical Engineering. Since 2013, MS Electrical Engineering has been started and running successfully.

MISSION OF PROGRAM

To be one of the leading programs of Electrical Engineering education, research and innovation that produces female graduates who are capable of taking leadership positions in broader aspects of Electrical Engineering and can exhibit excellence in academia, industry and technological, economic and social enrichment of community at large.

BS ELECTRICAL ENGINEERING PROGRAM OBJECTIVES

- To provide female students an independent atmosphere to excel in technical field.
- To produce graduates with the ability to evaluate and manage technical problems.
- To provide students with the advance knowledge which will be helpful in pursuing higher education
- To produce graduates with the expected standards of ethical and professional conduct.

OBE IMPLEMENTATION

The OBE implementation in DEE is complete process through which the attainment of program mission and program educational objectives (PEOs) is monitored through direct and indirect assessments. During the course of program, students are imparted with attributes through attainment of program learning outcomes (PLOs). The attainment of PLOs is monitored through both indirect and direct assessments. The monitoring of both PEOs and PLOs is carried out through their respective continual quality improvement (CQI) processes. A major part of the attainment of PLOs is obtained from coursework for which monitoring of attainment of course learning outcomes (CLOs) is necessary.

TABLE: 1 PROGRAM LEARNING OBJECTIVES (PEO) OF DEE

PEO1	Professionals – Acquire learning concepts, techniques, skills and tools for analyzing and designing electrical engineering systems.
PEO2	Problem solvers –Enhancement of professional skills through formal education which enables

	problem solving at industrial level and a sharpened ability to successfully pursue graduate study and research.
PEO3	Team Players – An ability to work independently as well as collaboratively with others, and to have demonstrated leadership, accountability and initiative responsibility.
PEO4	Intellectuals - A commitment to ethics, social and environmental responsibility, lifelong learning attitude with efficiency and effectiveness.

TABLE: 2 PROGRAM LEARNING OUTCOMES (PLO) OF DEE

PLO1	Engineering Knowledge: An ability to apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
PLO2	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.
PLO3	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.
PLO4	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.
PLO5	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.
PLO6	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.
PLO7	Environment and Sustainability: An ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
PLO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
PLO9	Individual and Team Work: An ability to work effectively, as an individual or in a team, on multifaceted and /or multidisciplinary settings.
PLO10	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
PLO11	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.
PLO12	Lifelong Learning: An ability to recognize importance of, and pursue lifelong learning in the broader context of innovation and technological developments.

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ADMISSION WILL BE MADE ON OPEN MERIT (PUNJAB DOMICILE). RESERVED SEATS WILL BE INCLUDED AS PER UNIVERSITY CRITERIA.

ELIGIBILITY CRITERIA FOR BE

F.Sc (Pre-Engineering) / DAE (Electronics/Electrical) / B.Sc. (Math, Physics, Chemistry) with 60% are eligible to apply.

SELECTION CRITERIA:

	Merit aggregate
Entry Test Conducted by UET, Lahore 2020	30%
Matric Marks	25%
Intermediate Part-I Marks (for students of 2020 as well as for students of previous years)	45%

Note: UET Entry Test Result 2020 must be attached with the form submitted.

MS ELECTRICAL ENGINEERING

MS-EE is designed to prepare students for technically demanding research careers in industry as well as for higher degrees with specialization in areas such as wireless and broadband communication, signal processing, machine learning optical fiber communication, control systems, electromagnetic and integrated electronics.

MS-EE at Lahore College for Women University has been approved with same options according to HEC criteria mentioned as:

1. 30 Credit Hours Course Work
2. 24 Credit Hours Course Work + 6 Credit Hours Thesis

ELIGIBILITY CRITERIA OF MS-EE

- 16 years of education in Electrical/Electronic Engineering (securing a minimum of 60% marks / CGPA of 2.5/4.00)
- Candidate must have valid PEC registration number
- Admission will be made on open merit (Punjab domicile).
- Merit aggregate will be calculated using 75% for academics and 25% interview.

LIST OF FACULTY

Prof. Dr. Intesar Ahmed Professor, Dean, Faculty of Engineering and Technology PhD (Adelaide University, Australia), MSc (UNSW, Australia), BSc (UET, Lahore)

Dr. Sadia Murawwat Associate Professor PhD (BIT, China), MSc (AIT, Thailand), BSc (UET, Lahore)

Dr. Aqsa Shabbir Associate Professor PhD (Ghent University, Belgium & LMU Munich, Germany), MSc (UET, Lahore), BSc (UET, Lahore)

Mr. Sajjad Rabbani Assistant Professor MSc (UET, Lahore), BSc (UET, Taxilla)

Ms. Nausheen Bilal Assistant Professor MSc (UET, Lahore), BSc (UET, Lahore)

Dr. Taskeen Raza Assistant Professor (TTS) PhD (PIEAS, Islamabad, MSc (UET, Lahore), BSc (UET, Lahore)

Mr. Umar Rana Lecturer BSc (UOL, Lahore)

Ms. Ahlam Jameel Lecturer MSc (UCP, Lahore), BSc (UCP, Lahore)

Ms. Aisha Jilani Lecturer MS (LCWU), BE (LCWU)

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Ms. Ismat Hira Lecturer MSc (UET, Lahore), BE (LCWU)

Ms. Asima Kiran Lecturer MS (LUMS, Lahore), BSc (LCWU)

Ms. Fatima Qazi Lecturer MSc (UET, Lahore), IUB (LCWU)

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