FAST-NUCES SCIENCES AND HUMANITIES PROGRAMS

SECTION 1: DEAN'S MESSAGE AND OVERVIEW

Overview
The Faculty of Sciences and Humanities fosters a dynamic learning environment where curiosity thrives and innovation flourishes. It offers a comprehensive curriculum and experiential learning opportunities to equip students for careers in academia, industry, and beyond.

Faculty and Research
- Faculty members act as mentors, collaborators, and catalysts for academic success.
- Students have access to state-of-the-art facilities and cutting-edge research opportunities.
- The Department of Sciences and Humanities at the Lahore Campus produced the first-ever PhD in Mathematics and has produced 35 PhDs.
- The Lahore Campus also successfully launched the MPhil Applied Linguistics program, producing graduates specializing in Computational Linguistics.

Extracurricular Engagement
The faculty encourages active engagement in extracurricular activities, student organizations, and community initiatives to develop essential leadership, communication, and teamwork skills.

SECTION 2: MS ADMISSION DETAILS

Master of Science (Applied Linguistics)
- Admission Test: Applicant must select one option: FAST-NUCES Admission Test, GRE General, or NTS GAT-B General.
- Eligibility: Master Degree in English Language Teaching (ELT), Teaching English as a Second Language (TESL), English Literature (EL), or a related discipline after 16 years of education.
- Minimum Marks: Minimum 55% marks or CGPA of at least 2.00 on a scale of 4.00.
- Selection Criteria: 50% weightage for Admission Test marks and 50% weightage for past academic record.

Master of Science (Mathematics)
- Admission Test: Applicant must select one option: FAST-NUCES Admission Test, GRE General, or NTS GAT-B General.
- Eligibility: Degree in a relevant subject or a related discipline earned from a recognized University after 16 years of education.
- Minimum Marks: Minimum 55% marks or CGPA of at least 2.00 on a scale of 4.00.
- Selection Criteria: 50% weightage for Admission Test marks and 50% weightage for past academic record.

SECTION 3: MASTER OF SCIENCE (APPLIED LINGUISTICS)

Program Mission
- To meet the growing demand for qualified English teachers in colleges, universities, and language schools.
- To enable students to use linguistic analysis in practice, specifically in Computer Assisted Language Learning (CALL), Computational Linguistics (CL), ELT, and English for Specific Purposes (ESP).
- To integrate language and computing skills.

Career Opportunities
- Produce qualified teaching resources.
- Integrate Information and Communication Technologies (ICT) in the teaching of English Language.
- Develop collaborative e-learning resources for teaching.
- Encourage teachers to engage in advanced research in English language teaching and learning.

Award of Degree
- Passed courses totaling at least 30 credit hours, including all core courses.
- Obtained a CGPA of at least 2.50.

Study Plan Highlights
- Core courses include Computer Assisted Language Learning, Fundamentals of Language and Linguistics, and Computational Linguistics.
- The curriculum includes Specialist Modules, Electives, and Research Methodology.
- The degree concludes with a two-part Thesis.

Thesis Registration Rules
Registration in MS Thesis-I is allowed provided the student has:
- Earned at least 18 Credit Hours.
- Passed the Research Methodology course.
- CGPA is equal to or more than 2.50.

SECTION 4: MASTER OF SCIENCE (MATHEMATICS)

Program Mission
- To provide an excellent major for students whose career goals are teaching, entry into allied arenas, or pursuit of a higher research degree in mathematics.
- To enable students to develop quantitative and abstract reasoning using mathematics as an analytical tool.

Career Opportunities
- Integrate relevant knowledge across a range of pure and applied mathematics.
- Provide a background of mathematics for research and development.
- Learn novel mathematical concepts, methods, and tools for application in applied fields.
- Construct, analyze, and interpret mathematical models for real-life problems.
- Bridge the gap between mathematicians and financial/academic institutions.

Award of Degree
- Passed courses totaling at least 31 credit hours, including four core courses.
- Obtained a CGPA of at least 2.50.

Study Plan Highlights
- The first two semesters focus on Core Courses and Electives.
- The third semester includes Research Methodology and MS Thesis-I.
- The fourth semester includes MS Thesis-II.

Thesis and Research Options
- Registration in MS Thesis-I requires earning at least 15 Credit Hours, passing Research Methodology, and a CGPA of at least 2.50.
- A student has the option to pursue MS either by undertaking a 6 credit hour MS Thesis or by taking a 3 credit hour Research Survey plus one taught course.