



### ADMISSION CRITERIA

Admission is purely merit-based and rests solely on the following criteria:

- Academic record
- GRE or LUMS Graduate Admission Test performance\*
- Interview performance (if called)

\* For admission test details, visit <https://admission.lums.edu.pk/graduate-programmes>

### FINANCIAL SUPPORT

- Loan Options
- Merit Scholarships
- External Scholarships (if available)
- Teaching Assistantships (if available)
- 100% Scholarship for PhD Students
- Generous Tuition Fee Waiver for all MS Basic Sciences Students

\* For details, visit <https://financial-aid.lums.edu.pk>

# PHYSICS

MS AND PhD PROGRAMMES



LUMS

SYED BABAR ALI SCHOOL OF SCIENCE AND ENGINEERING  
(SBASSE)

### Lahore University of Management Sciences (LUMS)

Opposite Sector U, DHA, Lahore 54792, Pakistan

+92 42 111- 11- LUMS (5867) Ext. 2177 - 78  
+92 42 35896559  
admissions@lums.edu.pk  
www.lums.edu.pk



#MERITMATTERS

Create your own Future

# WHY PHYSICS?

Physics focuses on probing fundamental physical aspects of the Universe and underlying Mathematics, as well as novel applications in diverse areas including Nanoscience, Optics, Nanophotonics, Quantum Dynamics and Magnetic Materials. All of these are in the realm of the SBASSE Physics programme.

## DID YOU KNOW?



Our top ranked faculty is part of national committees providing leadership to the country's science related programmes



Strong faculty-student ratio, leading to robust mentorship and student-centred class interactions



Teaching and research support provided to other universities in Pakistan



Physics teaching laboratories successfully replicated at other universities in Pakistan

**PROGRAMMES OFFERED** MS | PhD

## RESEARCH OPPORTUNITIES

The Department encourages students to pursue independent research supervised by faculty members engaged in basic as well as Applied Physics.

Research is conducted in the following areas:

- Spin and Photon Physics
- Quantum Dynamics
- Plasmonics and Nanoengineered Materials
- Fundamental Theory
- Photonics and Nanophotonics
- Cosmology

## CAREER OPPORTUNITIES

- Graduates of Physics are readily accepted in programmes at the world's top institutes such as Massachusetts Institute of Technology, Harvard University and University of Oxford
- Graduates are employed by industry and academia in Pakistan and abroad

## FACILITIES

Laboratories in Solid State Physics, Nanoscience, Optics and Photonics, Radiation Physics, and Measurement and Instrumentation house mostly home-grown facilities in diverse areas of Physics including synthesis of new materials, cryogenic and high temperature transport, electrical, thermal and magnetic properties measurement, homebuilt atomic force microscopy and magnetic resonance devices, optical spectroscopy, optical and Kerr microscopy, sensitive imaging, light modulation, radiation detection, X-ray fluorescence, quantum optics, single photon detection, electrodeposition, electro spinning, sputter coating, and high speed electronic test and measurement equipment, to name a few.



*"I chose to study MS Physics at LUMS because it is the most prestigious University in Pakistan. I got the chance to be taught by the best faculty in Pakistan, and they showed me how I could compete with the world by contributing towards Science and Technology."*

**Sheraz Zahid**  
MS Physics 2015