

## ADMISSION CRITERIA

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

### MS & PHD PROGRAMMES

- Academic Record
- Performance in Admission Test
- Application Review
- Submission of complete online application, application processing fee and supporting documents by the stipulated deadline
- Interview Performance (if needed/shortlisted)
- Letters of Recommendation
- Research Statement and Research Presentation (only for PhD applicants)

**Note:** This is the minimum criteria that applicants need to fulfill in order to be eligible to apply. Fulfilment of this criteria does not guarantee admission to LUMS.

Scan for more information on MS Physics



## PHD ADMISSION CRITERIA FOR FOREIGN NATIONALS

The following criteria applies to all foreign applicants:

- Academic Record
- Research Background
- Online Test and Interview (if shortlisted)
- Letters of Recommendation
- Application Review
- Submission of complete online application and supporting documents by the stipulated deadline

To study at LUMS, foreign nationals must follow requirements such as obtaining a visa and a no-objection certificate from Pakistani authorities. LUMS will assist in this process. Additionally, foreign nationals from developing countries can also apply through The World Academy of Sciences and UNESCO portal (<https://rb.gy/j83y7v>).

Scan for more information on PhD Physics



## SHAYAN NADEEM

MS PHYSICS '21

“Coming to LUMS to pursue this programme was undoubtedly the best decision I could have made. The Department of Physics at LUMS has an atmosphere conducive to learning, the faculty is very accommodating, and the student body is really helpful. I am incredibly grateful to all my professors, especially Dr. Tajdar Mufti, for their guidance and support. Under their guidance, I secured a PhD position at Baylor University, where I now hope to pursue my passion.”



## FINANCIAL SUPPORT

- Merit scholarships
- Partial tuition fee waivers for students pursuing MS in basic sciences
- LUMS interest-free loan that covers partial to full tuition fee expense (only for local applicants)
- External scholarships (support and eligibility for these scholarships vary depending on the donor)
- Options to work as Research or Teaching Assistants (subject to availability)
- Full funding of the PhD, which covers tuition, registration, admission fee and a monthly stipend for 4 years



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# MS & PHD PHYSICS

Syed Babar Ali School of Science and Engineering

LUMS/SBASSE/NW/LE/Physics/12-23/V1





وہی جہاں ہے تیرا جس کو تو کرے پیدا

علامہ اقبال

## WHY MS AND PHD PHYSICS AT LUMS?

### LUMS AND SBASSE FOSTER A DYNAMIC LEARNING ENVIRONMENT

There are excellent research groups at the Department of Physics that explore various aspects of theoretical physics such as cosmology, high energy phenomenology, lattice gauge theory, quantum computation, quantum dynamics, and quantum gravity. The Department houses:

- Laboratories in solid state physics, nanoscience, optics and photonics, radiation physics, and measurement and instrumentation
- Homegrown facilities in diverse areas of Physics, including synthesis of new materials, cryogenic and high temperature transport, electrical, thermal and magnetic property measurements, home-built atomic force microscopy and magnetic resonance devices
- A wide range of experimental facilities in optics like optical spectroscopy, optical and Kerr microscopy, sensitive imaging, light modulation, radiation detection, X-ray fluorescence, quantum optics, single photon detection, electrodeposition, electrospinning, sputter coating, and high speed electronic test and measurement equipment

## RESEARCH BY STUDENTS AND FACULTY

SBASSE faculty have produced around 300 articles, all published in international venues of prestigious ranking.

The Syed Babar Ali Research Awards (SBARA) recognise PhD students for the novelty of their research work, and the potential for lasting impact on their disciplines and the society.

## PROMINENT PLACEMENTS

Our graduates ascend to prominent roles—pursuing academics at world-renowned institutions, securing fully funded PhD positions, or driving innovation at leading organisations in the industry.



# SYED BABAR ALI

## SCHOOL OF SCIENCE AND ENGINEERING

Founded in 1985 as a not-for-profit, LUMS has pioneered innovative educational trends. The expanse of research and teaching at LUMS offers its community 'Learning without Borders' by breaking academic, geographic, and socio-economic barriers to enhance students' academic exposure and make education accessible to all.

Syed Babar Ali School of Science and Engineering (SBASSE) at LUMS is making significant strides in the experimentation of teaching and learning, and making impactful contributions to science and technology. The MS programmes at SBASSE are rigorous and designed to impart specialised professional and research-oriented training to students. All SBASSE departments offer two options to choose from: MS-by-Coursework or MS-by-Thesis. The School's PhD programmes prepare students to think scientifically and conduct high-quality research independently. Major milestones that must be achieved for the successful completion of the PhD degree include the Coursework, Comprehensive (Qualifying) Examination, Thesis Proposal Defense, at least one peer-reviewed journal article and PhD Thesis Defense.

