DUAL UNDERGRADUATE DEGREE IN SCIENCE AND EDUCATION

A unique programme that opens up multiple avenues for further study and work.

www.azimpremjiuniversity.edu.in/B.Sc.B.Ed
## THE PROGRAMME

**A dual undergraduate degree in science and education in a four year residential programme**

## WHAT DEGREES DO YOU GET?

A B.Sc.+B.Ed. in 4 years

- Our degree helps you develop deep and thorough disciplinary knowledge in science as well as a practical and professional degree in education.

- We emphasise active and participative learning. As part of your study time, you will participate in discussions, research projects and field visits and enjoy the vibrant culture of our campus life.

## YOU CAN APPLY IF

- You have previously completed Class 12 board exams in any Indian board or equivalent international certificate.

- You will complete your Class 12 by July 2019.

- You have a score of 50%.
  *(If you are above 19 years of age, send us a Statement of Purpose)*

## FINANCIAL AID

- We believe that nobody should be denied admissions because of financial constraints.

- We provide extensive need-based scholarships.
This undergraduate programme will expand your possibilities. You will be equipped to become both an excellent scientist and an outstanding science educator.

We make sure that you study both science and education in great depth and with keen rigour for a combined world of opportunities after the B.Sc. B.Ed. degree:

Study science and get hold of higher degrees for a career in academics.

Shape curricula for students of science.

Teach Science in Schools.

Becoming a teacher involves more than a lot of reading and theory. It needs a lot of focus and skill. We prepare you for the art of teaching.

We show you how to use what you learn in the classroom as a student when you become a teacher.

We support you through your early years as a teacher - whether you have problems dealing with students, or if you need to cope with the pressures of your work.

We connect you with our vast network of schools all over the country so you can find a place where you want to teach.
Join our vibrant university for a 4-year fully residential programme.

**PROGRAMME STRUCTURE**

You can choose majors for your B.Sc.:

- **Life Sciences**
  - Biology, Chemistry and Physics

- **Physical Sciences**
  - Physics, Mathematics and Chemistry

- **Mathematics**
  - (launching in 2019)

**Common Curriculum**

The entire undergraduate cohort comes together at the beginning of the year. We help you build all tools you will need for the next few years of study. We introduce you to different modes of thoughts and themes to help you think critically, read closely and write well. We emphasise creative expression with the arts, music and craft.

+ **Life Sciences or Physical Sciences or Mathematics**
  (as per your choice)

Our science programme helps you build a deep understanding of the natural world and how human endeavours to understand it have shaped the way in which we live. We believe in experiential learning. You will spend a lot of time with experiments and out in the field.

+ **Education**

Our programme will prepare you to understand a wide range of perspectives on education. With the Azim Premji Foundation and its vast network of schools, you will practice the craft of science education in different contexts.
<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>PHYSICAL SCIENCES</th>
<th>LIFE SCIENCES</th>
<th>MATHEMATICS</th>
</tr>
</thead>
</table>
| 1-2      | Introduction to Physics  
Pre-Calculus  
Mechanics  
Mathematics for Physics 1 | Introduction to Biology  
General Chemistry  
Quantitative Biology  
Physics for Biologists 1 | Introduction to Mathematical Thinking 1  
Calculus 1  
Introduction to Mathematical Thinking 2  
Programming 1 |
| 3-4      | Electromagnetism  
Mathematics for Physics 2  
Introduction to Mathematical Thinking  
Thermal Physics  
Waves  
Probability | Molecular Biology and Biochemistry  
Genetics  
Physics for Biologists 2  
Environmental Science  
Elective 1  
Physics for Biologists 3 | Linear Algebra  
Calculus 2  
Introduction to Physics  
Abstract Algebra  
Probability  
Programming 2 |
| 5-6      | Modern Physics  
Linear Algebra  
General Chemistry  
Inorganic Chemistry | Understanding Plants  
Evolution  
Lab and Field Techniques in Biology  
Organic Chemistry | Calculus 3  
Introduction to Biology / Economics  
General Chemistry  
Math Elective 1  
Nature and Methods of Mathematics |
| 7-8      | Apprenticeship  
Schooling in India  
Indian Language for Science Teaching / Reading in Mathematics Education  
Curriculum, Instruction and Assessment for Science Teaching  
Building Science Experiments  
Teaching Maths / Revisiting School Mathematics  
Arts & Crafts in Education  
Technology and Art in Maths Teaching  
History and Foundation of Mathematics | Electives |

Note: All course titles are indicative and are subject to revision in the actual programme.
OUR PHILOSOPHY

- Our community of faculty and mentors cares for each student and their needs.
- We help each of our students understand their hopes and capacity to nurture their dreams.
- We encourage you to think about the world we live in and India’s complex past and present.

EDUCATION FOR SOCIAL CHANGE

In early 2000, the Azim Premji Foundation began its work with elementary education in government schools all over India. After a decade of work in the field, we recognised an important concern. India needed talented and qualified individuals who could contribute to the field of education and allied areas. Azim Premji University was born out of this need.

We offer 4 postgraduate degrees: M. A. Education, M. A. Development, M. A. Public Policy & Governance and an LLM in Law and Development. We also offer undergraduate degrees in Social Science, Science, Humanities and a Dual degree in Science and Education.

We conduct several short courses for Professionals every year, in the field of education, development, policy and governance across the country.

Over a thousand of our graduates have gone on to create impactful work as agents of social change.

Apply: www.azimpremjiuniversity.edu.in/B.Sc.B.Ed

Visit azimpremjiuniversity.edu.in/admissions E-mail ugadmissions@apu.edu.in | Call 1800 843 2001