



## Information About B.Sc. Blended Course

### 1. What is 'Blended B. Sc.'?

Keeping with the spirit of interdisciplinarity, the Blended mode of Science education aims to transcend the boundaries of subjects within the discipline. It aims to integrate various inputs from different subjects of science to produce a comprehensive vision and version of Science and its varied applications. In this sense the Blended mode of the B.Sc. goes beyond the traditional B. Sc. course which generally remains confined to the silos of their specific domains. The Blended mode first establishes the vital conceptual and practical links between various science subjects so that a specialization in one of them at a later stage is well informed and grounded.

### 2. B. Sc. Blended at SPPU:

The BSc (Blended) program on the campus of the Savitribai Phule Pune University offers specialization in Chemistry, Physics, Environmental Sciences and Earth Science. This will offer a solid bachelor-level grounding in science aligned to a transparent curriculum and clearly defined standard. One very important feature of this course is that the degree awarded for this course by Savitribai Phule Pune University will be quality assured by the University of Melbourne and will be considered similar to a University of Melbourne degree world-wide. This offers a great advantage to students who wish to pursue further education in Science from Universities abroad.

### 3. Course Structure:

The essential offering would be a three-year program at a level that would be accepted as suitable for entry into a University of Melbourne or any internationally reputed MSc program. Students would do all four disciplines in the first and second year, then specialize for a "major" in the third year. This would lead to a general but comprehensive major supported by the other disciplines.

A carefully designed curriculum that integrated subjects across disciplines would ensure that the content of all first- and second-year subjects was optimal for a transition to any

major (e.g. that the maths/stats was appropriate for biology, chemistry and physics – not just potential maths majors). Complex topics will be integrated across subjects as appropriate (e.g., aspects of chemistry could be integrated with biology to cover essential biochemical principles; bioinformatics could be woven into biology and maths). Key elements of different discipline subjects could be coordinated for maximum impact (e.g., fluid mechanics in physics could be coordinated with circulatory system in animals and water transport in plants).

Threshold learning outcomes and graduate attributes will be clearly articulated.

All students would essentially have the same cohort shared pathway, so reference could be made directly back to specific first and second year content (which would always be available for review and revision). The course will give students a comprehensive background in basic sciences and prepare them well for taking up higher studies in any discipline at reputed institutes in India, Australia and other countries.

#### **4. Benefit to Students:**

The structure of the B. Sc Blended course and its collaboration with University of Melbourne offers the following benefits to students:

- Integrated local and international educational experience
- Core international curriculum delivered in English, supported by the partner institution in the local language. Ability to engage and interact with other students within and between institutions and countries.
- High quality BSc that will satisfy numerous future pathways
- Further study in postgraduate science, Integrated PhD programs
- Workforce participation – well-prepared for industry-specific training

#### **5. Eligibility of the Course and Intake of Student:**

Students who have passed their Higher Secondary Certificate (HSC/Std. 12) examination from Science stream with Physics, Chemistry and Mathematics are eligible to apply. The B.Sc. Blended program is looking to admit students who are curious, analytical and eager to explore beyond the boundaries of specific subjects.

The course would admit a total 64 students per batch which will include 16 students per specialization of Physics, Chemistry, Environment Sciences and Earth Sciences. The

admission of the students is governed by the reservation and quota related rules and regulations instituted by Government of Maharashtra from time to time.

#### **6. Admission & Entrance Examination:**

The admission for the course will be based on an online Entrance Examination based on multiple choice questions. The exam comprises two sections. The first section of 20 marks is based on general knowledge and aptitude whereas the second section of 80 marks is based on questions drawn in from various subjects from Science.

The Online Entrance Exam for the course is scheduled in July. The exact schedule and venue of the examination will be declared on the admission portal of the University. The candidates should apply online. The online application form is available on the website of SPPU: <https://campus.unipune.ac.in/CCEP/Login.aspx>

Admissions to the course will be governed by the statutory provisions related to reservation and quota as mandated by the Government of Maharashtra.

**Syllabus of the Online Examination for B. Sc. Blended:** The Online Entrance Exam- 2019 for the B. Sc. Blended will be based on the syllabus of Physics, Chemistry and Mathematics at the H.S.C/ 12<sup>th</sup> Std exam.

#### **7. International Credibility**

- As Australia premier university, and a leading university in the world rankings
- Quality Assurance
- Curriculum design and development
- Assessment – centrally coordinated and moderated, with marking monitored for both standard and consistency
- Compliance
- Curriculum content and delivery
- Online environment and curriculum delivery platform
- Complete set of subjects for a B.Sc. in the major science disciplines (Maths/Stats, Physics, Biology and Chemistry), as well as foundation subjects.
- Essential content delivered online in a variety of formats (e.g., video lectures, video tutorials, readings). Fully documented manuals provided for Participating Institutions to run on-site tutorials and practical classes.

- Facilitate some student collaborative engagement (across Participating Institutions)
- Social media, Webinars, Google Hangouts

8. **Contact:**

For your queries please contact

Head,

Interdisciplinary School for Science

Savitribai Phule Pune University

Email- [ids-science@unipune.ac.in](mailto:ids-science@unipune.ac.in)

**OR**

Co-ordinator

B.Sc. Blended, SPPU

E-mail: [bscblended@unipune.ac.in](mailto:bscblended@unipune.ac.in)

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