

Science Faculty - Under Graduate (UG)

Science teaching was introduced in the college more than 100 years ago. Independent science departments were progressively established to cater to the demands from stakeholders. Presently, the science faculty is a blend of basic and applied science.

Degree Courses at UG Level

B. Sc. (Professional Courses)

- | | |
|----------------------|-------------------|
| 1 Animation * | 2 Biotechnology * |
| 3 Computer Science * | |

B.Sc. (General Science)

- | | |
|----------------------|-------------------------|
| 1 Botany | 2 Chemistry |
| 3 Electronic Science | 4 Environment Science * |
| 5 Geology | 6 Mathematics |
| 7 Microbiology | 8 Physics |
| 9 Statistics | 10 Zoology |

*These courses are un-aided courses (Self Financed)

Vocational Courses at Undergraduate Level

- 1 Photography & Audio-Visual Production with Physics major
- 2 Electronic Equipment Maintenance with Electronic Science major
- 3 Vocational Biotechnology with Botany / Zoology / Chemistry major

Autonomous Certificate Courses of 1 year duration

- 1 Certificate course in Photography (part-time autonomous course conducted in evening)

Note: For all professional courses, the curriculum for F.Y.B.Sc. / S.Y.B.Sc. / T.Y.B.Sc. is different from general science courses.

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F.Y. B.Sc.

Rules regarding Choice of Subjects

A student shall offer a combination of FOUR subjects from the following, Vocational Biotechnology (VBT), Botany (B), Chemistry (C), Electronics (E), Geology (G), Mathematics (M), Photography (Ph), Electronic Equipment Maintenance (Em), Physics (P), Statistics (S), Zoology (Z), Microbiology (Mic.), Environmental Science (En sc.)

Each subject will have 2 theory courses and one practical course. Microbiology and Environmental Science are un-aided / self financed courses.

Intake Capacity

F.Y.B.Sc. (General Science) - Aided	: 600
F.Y.B.Sc. (Microbiology and Environmental Science) - Un-aided	: 120
F.Y.B.Sc. (Computer Science) - Un-aided	: 160
F.Y.B.Sc. (Biotechnology) - Un-aided	: 24
F.Y.B.Sc. (Animation) - Un-aided	: 160

Vocational courses namely -

- Vocational Photography*	: 30
- Vocational Electronic Equipment Maintenance*	: 30
- Vocational Biotechnology*	: 30
* : Un-aided courses	

The following combinations are available at F.Y.B.Sc.

Aided	: CPME	CPMG	CPMS	PMSE	PMSG	CBZG
Un-aided	: PCM Ph.	PME Ph.	PME Em.	CBZ BT	CBZ En Sc.	CBZ Mic

S.Y. B.Sc. (General Science)

A student shall offer a combination of **THREE subjects** out of the four taken in F.Y. B.Sc. In addition, the student will have to opt for **one language** course in English/Marathi/Hindi/Sanskrit.

The following combinations are available at S.Y. B.Sc.

PCM, PCG, CBG, PMG, PME, BZG, CGS, CMS, PPhE, PPhM, PPhC, CBZ, PMS PCS, PE.Em., CB Mic, CZ Mic, BZ Mic, ME Em., CZ EnSc, BZ EnSc

S.Y. B.Sc. students will have to take a **Compulsory Environmental Awareness** course as per the directives of the Hon'ble Supreme Court and as per Pune University directives. The fees for this course is Rs. 220/-

T.Y. B.Sc. (General Science)

Following subjects are available as specialization in B.Sc.

- | | | |
|------------------------|-------------|----------------------|
| 1 Botany | 2 Chemistry | 3 Electronic Science |
| 4 Environment Science* | 5 Geology | 6 Mathematics |
| 7 Microbiology* | 8 Physics | 9 Statistics |
| 10 Zoology | | |

*These courses are un-aided courses (Self Financed)

A students shall offer any one of the three subjects except the vocational subjects taken at S.Y. B.Sc.

Choice of subjects at T.Y. B.Sc.

Vocational subjects at T.Y. B.Sc. are linked with the following subjects.

- Biotechnology with Botany or Chemistry OR Zoology
- Electronic Equipment Maintenance with Electronic Science
- Photography with Physics

A particular combination of subjects at the F.Y./S.Y./T.Y. will be allowed if it fits within the Govt. rules of teaching work load and if it can be accommodated in the college time table. The college reserves its right to withdraw (or to add) any subject combination given above without any prior intimation.

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Professional Courses

Computer Science

F.Y. B.Sc.

A student shall offer the following **FOUR subjects** : Computer Science, Electronics, Mathematics and Statistics. (Two theory papers and one practical in each of the subjects).

S.Y. B.Sc.

A student shall offer the following **FOUR subjects** : English, Computer Science, Electronics and Mathematics. (Two theory papers and one practical in each of the three subjects) and compulsory Environmental Awareness course.

T.Y. B.Sc.

A student shall offer Computer Science consisting of six theory papers and three practicals.

Animation

- F.Y. B.Sc.
- S.Y. B.Sc.
- T.Y. B.Sc.

Biotechnology

- F.Y. B.Sc. : A student shall offer 8 theory papers & 4 practicals
- S.Y. B.Sc. : A student shall offer 7 theory papers & 3 practicals
- T.Y. B.Sc. : A student shall offer 6 theory papers & 2 practicals

Voc. Degree

- B. Voc. (Media & Communication) : 50 Seats
- B. Voc. (Digital Art & Animation) : 50 Seats

In Entertainment Sector

Bachelor of Vocation

1. B. Voc. (Media & Communication)
2. B. Voc. (Digital Art & Animation)

It has been a long felt necessity to align higher education with the emerging needs of the economy so as to ensure that the graduates of higher education system have adequate knowledge and skills for employment and entrepreneurship. The higher education system has to incorporate the requirements of various industries in its curriculum, in an innovative and flexible manner while developing a holistic and well groomed graduate.

The University Grants Commission (UGC) has launched a scheme on skills development based higher education as part of college education, leading to Bachelor of Vocation (B.Voc.) Degree with multiple exits such as Diploma / Advanced Diploma under the NSQF (National Skill Qualifications Framework). The B.Voc. programme is focused on colleges providing undergraduate studies which would also incorporate specific job roles along with broad based general education.

Fergusson College, Pune has been identified by the UGC to provide this B.Voc. Degree in two specializations

1. B. Voc. (Media & Communication)
2. B. Voc. (Digital Art & Animation)

Award	Duration	Corresponding NSQF level	Eligibility
Diploma	1 year	5	10 + 2
Advanced Diploma	2 years	6	from any
B.Voc. Degree	3 years	7	stream

For details on these programmes, refer to college website : www.fergusson.edu Q'

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Admission and Eligibility

All admissions are made as per the rules and regulations of the Savitribai Phule Pune University.

Admissions and Eligibility

1. An application for admission to the College will have to be made on line by all students (including those who were in this college in the previous year). Application form is available at www.desociety.org
2. It should be noted that the payment of the fees by itself does not confirm admission to the college. The fees are treated as a deposit and will be refunded (with deduction as per the rules) if admission is not granted.
3. The admission is valid only if the student pays the prescribed fees on the day the authorities sign the admission form.
4. Students who wish to avail of the government concession for fees under the scheme for Economically Backward Class, should fill up the prescribed application form (within one week from the date of admission) and attach the relevant income certificate as per rules. The application forms are available in the college office.
5. A student applying for admission to F.Y. B.A. / F.Y. B.Sc. class after passing H.S.C. examination of Maharashtra State Board of Secondary and Higher Secondary Education will have to apply through the college to the Registrar, University of Pune, for the eligibility certificate.
6. The following documents are required for eligibility certificate
 - i) Original Transfer Certificate
 - ii) Attested xerox copy of the mark sheet
7. Students who pass the I.C.S.E. / C.B.S.C. or equivalent examination or coming from other states, will have to submit the following documents along with the eligibility application form (originals as well as attested xerox copies)
 - i) Migration certificate
 - ii) Transference certificate
 - iii) Statement of marks
 - iv) Attendance / Character certificate
 - v) Passing certificate
8. A student coming from any college affiliated to Savitribai Phule Pune University and applying for S.Y. B.A. / B.Sc. class can be directly admitted to this college, provided seats are available. He / She will have to apply to the previous college for a Transference / Migration certificate after joining the college. Students with backlog/s will be granted admission to the college.
9. A student coming from a University other than Savitribai Phule Pune University for S.Y. B.A. / T.Y. B.A. or S.Y. / T.Y. B.Sc. / M.Sc. will have to submit the certificates mentioned at No. 6 along with the duly filled eligibility application form to the college office.

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