

**Beyond MBBS & BDS**

**Great Options in PCB (Biology  
Group) After Class 12**



*We track it. You crack it*

# Content

<b>1.</b>	<b>OPTIONS FOR PCB STUDENTS .....</b>	<b>5</b>
1.1	5 YEAR INTEG M.SC (BIOLOGY, CHEMISTRY, MATHEMATICS AND PHYSICS) .....	5
	<i>National Institute of Science Education &amp; Research and Univ of Mumbai.....</i>	<i>5</i>
1.2	B.TECH (BIOTECH / AGRI / DAIRY / FOOD), BSC (H) IN APPLIED SUBJECTS .....	6
	<i>Indian Council of Agricultural Research (ICAR).....</i>	<i>6</i>
1.3	INTEGRATED BS-MS IN BASIC SCIENCES (PCMB) .....	6
	<i>Indian Institutes of Sciences Education &amp; Research (IISERs).....</i>	<i>6</i>
1.4	BSC (RESEARCH) 4 YEAR / MSC (5 YEAR) .....	7
	<i>Indian Institute of Science, Bengaluru.....</i>	<i>7</i>
1.5	INTEG MSC IN SYSTEMS BIOLOGY / OPTOMETRY & VISION SCIENCES / HEALTH PSYCHOLOGY ..	8
	<i>University of Hyderabad.....</i>	<i>8</i>
1.6	INTEGRATED M.SC. BIOTECHNOLOGY / M.TECH. BIOTECHNOLOGY .....	8
	<i>Savitribhai Phule Pune University.....</i>	<i>8</i>
1.7	BSC IN BIOSCIENCES / BIOTECHNOLOGY.....	9
	<i>Jamia Millia Islamia.....</i>	<i>9</i>
1.8	INTEGRATED MSC IN BIOCHEMISTRY / BIOTECHNOLOGY / MICROBIOLOGY .....	10
	<i>Central University of Rajasthan (CURAJ).....</i>	<i>10</i>
1.9	B.TECH (BIOENGINEERING / BIOTECHNOLOGY) .....	10
	<i>VIT University .....</i>	<i>10</i>
1.10	BSC (BIOLOGY).....	11
	<i>Azim Premji University, Bengaluru.....</i>	<i>11</i>

# Reality Check

**Avg Cost of 2 Years in  
Class 11 & 12**

(including school fee, external tuition, coaching etc.)

**₹121,000**

**Opportunities Missed**

**85%**

# Time needed to recover cost of Medical Degree\*

# 18 Years !!

## \*Assumptions

- Considering MBBS & MD (PG) from private medical college
- Assuming the money was borrowed / loan
- Cost of MBBS program: ₹1,00,00,000 (1 crore)

Well, just an MBBS degree won't get you too far so you go for a PG

- Cost of PG (e.g. MD) : ₹1,50,00,000 (1.5 crore)
- Great! You now start practising with a salary of Rs. 80,000 per month (₹9,60,000 per year) in a decent hospital / medical college
- Assuming you spend 40% of your entire salary to pay back your education loan and that your annual income grows 30% each year, Number of years to recover ₹2,50,00,000 would be around 18

## 1.1 5 year Integ M.Sc (Biology, Chemistry, Mathematics and Physics)

### National Institute of Science Education & Research and Univ of Mumbai

*Niche course with high industry acceptance and career opportunities*



#### Eligibility

- (a) Securing a position in the NEST merit list.
- (b) Must have passed the XII standard board examination or equivalent in the science stream from any recognised Board in India.
- (c) Secure at least 60% in aggregate in the XII standard board examination. For SC/ST/PD students the requirement is 55%.

#### About

Both National Institute of Science Education and Research (NISER) Bhubaneswar and University of Mumbai - Department of Atomic Energy, Centre for Excellence in Basic Sciences (UM-DAE CEBS) are autonomous institutions established by Department of Atomic Energy (DAE), Government of India, in 2007. top performers at NISER and CEBS, securing overall grades above certain threshold at the end of the programme, are eligible to appear directly for the interview for admission to Bhabha Atomic Research Centre (BARC) training school.

The 5-year integrated MSc programme at NISER and CEBS offers a limited number of merit based INSPIRE (by the Department of Science and Technology, Govt. of India) scholarships of Rs.5,000/- per month and an additional ₹20,000/- per year for carrying out summer projects. For the students entered into the MSc programme through NEST-2016 the numbers of such scholarships were 60 for NISER and 25 for CEBS.

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## 1.2 B.Tech (Biotech / Agri / Dairy / Food), BSc (H) in applied subjects

### Indian Council of Agricultural Research (ICAR)

*Sunrise sector with very high growth potential*



#### Eligibility

10+2 with minimum 50% marks having following subject wise combinations :

- (a) B.Tech Biotechnology & BSc (Hons) Community Science, Sericulture : PCB / PCM / PCMB
- (b) B.Tech Agri / Dairy Tech / Food Tech : PCM / PCMB
- (c) BSc (Hons) Agriculture : PCB / PCMB / PCM / Inter- Agriculture
- (d) BSc (Hons) Horticulture : PCB / PCMB / PCM / PCF / Inter- Agriculture
- (e) BFSc & BSc (Hons) Forestry : PCB / PCMB / Inter-Agriculture

#### About

An institute of national importance, the Indian Council of Agricultural Research (ICAR) is an apex body for coordinating, guiding and managing research and education in agriculture in the entire country under the aegis of DARE, Ministry of Agriculture. ICAR conducts All India Entrance Examination for Admission (AIEEA) to Bachelor degree programmes in agriculture and allied subjects, other than veterinary sciences, at Agricultural Universities on 15% of the University seats (except RLB CAU Jhansi, NDRI Karnal and Dr.RP CAU Pusa, Bihar. National Talent Scholarship (NTS) of Rs.2000/month are awarded based on the AIEEA-UG examination to all those candidates who take admission outside their state of domicile.

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## 1.3 Integrated BS-MS in basic sciences (PCMB)

### Indian Institutes of Sciences Education & Research (IISERs)

*Sunrise sector with very high growth potential*



#### Eligibility

Mode 1: Kishore Vaigyanik Protsahan Yojana (KVPY) channel: Candidates having a valid KVPY fellowship commencing from year of course commencement

Mode 2: Joint Entrance Examination - Advanced of Indian Institutes of Technology (JEE) channel

Mode 3: State and Central Boards Channel (SCB) channel (IISER Aptitude Test to be taken)

### About

To promote high quality scientific education, research and training, Ministry of Human Resource Development (MHRD), Government of India, has set up seven Indian Institutes of Science Education and Research (IISERs) at Berhampur, Bhopal, Kolkata, Mohali, Pune, Thiruvananthapuram and Tirupati. The IISERs offer wonderful opportunities for graduate and undergraduate students seeking fulfilling science-based careers. Students can learn the basic sciences through a detailed program and, in parallel, work on cutting-edge research alongside exceptional faculty members. Each IISER is an autonomous institution which awards the BS-MS degree.

This is a fully residential program. The first two years of the program consist of core courses in basic sciences, the third and fourth years are dedicated to specialization in chosen science subjects and the fifth year includes a research project. The training during the program enables students to pursue a career in academia, R&D institutes, and science based industries.

Scholarships : KVPY scholars admitted to IISERs will draw fellowship as per KVPY norms. In addition, a limited number of INSPIRE scholarships of ₹5000/- per month will be available for candidates admitted through JEE and SCB channels.

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## 1.4 BSc (Research) 4 Year / MSc (5 Year)

### Indian Institute of Science, Bengaluru

*Research oriented course, High industry acceptance, No. 1 Univ as per Gol's NIRF Ranking for last 2 years*



### Eligibility

10+2 with science subjects. Admission is made through [KVPY](#), [JEE-Mains](#), [JEE-Advanced](#) and [NEET-UG](#) merit list with specific cut-offs applicable in each case.

### About

The Indian Institute of Science was founded in 1909 as a result of the joint efforts of Jamsetji Nussarwanji Tata, the Government of India and the Maharaja of Mysore. Among the current faculty members, there are 51 Shanti Swarup

Bhatnagar Awardees, 74 INSA fellows, 97 IASc Fellows, 57 NASI fellows, 50 INAE fellows, and 56 J.C. Bose National Fellows, which is indicative of the high level of academic excellence of the Institute faculty.

In 2011, the Institute introduced the 4 Year B.Sc (Research) program. The students are exposed to research in the laboratories of the Institute. They can also choose to graduate with a dual degree (i.e., a Master of Science as well) by putting in a total of five years of study. The novelty of this programme lies in its interdisciplinary approach, strong flavour of engineering, exposure to disciplines in the humanities and social sciences, and a year-long research project.

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## 1.5 Integ MSc in Systems Biology / Optometry & Vision Sciences / Health Psychology

**University of Hyderabad**

*Applied courses with industry collaboration and good prospects*



### **Eligibility**

Minimum 60% marks at +2 level of education (Intermediate/CBSE/ICSE/HSC or equivalent) with Science subjects (Arts or Sciences for Health Psychology).

### **About**

The University of Hyderabad, a premier institution of postgraduate teaching and research in the country, was established in 1974 as a Central University, wholly funded by the University Grants Commission. Spread over 2000 acre, it runs 12 schools of study. The Schools of Mathematics and Statistics, Computer and Information Sciences, Chemistry, Economics, Management Studies, and Engineering Sciences & Technology are single discipline schools and the others are multi-department schools.

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## 1.6 Integrated M.Sc. Biotechnology / M.Tech. Biotechnology

**Savitribhai Phule Pune University**



Sunrise sector with very high growth potential



### Eligibility

10+2 level Science Stream Examination of any recognized board in India with min 60% marks

### About

This integrated course is offered by Savitribai Phule Pune University (also just known as Pune University), one of the premier Universities in India. Established in 1949, this State University is home to 46 academic departments, has about 307 recognized research institutes and 612 affiliated colleges. The Biotechnology program is offered by the Institute of Bioinformatics and Biotechnology (IBB). IBB was established in 2002 and is funded by the UGC.

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## 1.7 BSc in Biosciences / Biotechnology

### Jamia Millia Islamia

Sunrise sector with very high growth potential



### Eligibility

Senior Secondary School Certificate or an equivalent examination with not less than 50% marks in each science subjects i.e. Physics, Chemistry and Biology/ Mathematics

### About

Jamia Millia Islamia, established in 1920, is now a Central University (since 1988) with Minority Institution status since 2011. It has Natural Sciences, Social Sciences, Engineering & Technology, Education, Humanities & Languages, Architecture & Aesthetics, Fine Arts, Law and Dentistry Faculties. The university conducts Undergraduate, Postgraduate, M.Phil and Ph.D. as well as Diploma and Certificate courses.

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## 1.8 Integrated MSC in Biochemistry / Biotechnology / Microbiology

### Central University of Rajasthan (CURAJ)

*Applied courses with industry collaboration and good prospects*



#### Eligibility

10 + 2 in Science Stream or equivalent of any recognized board in India with Biology as one of the optional subjects having 50% marks or equivalent grade in aggregate

#### About

The Central University of Rajasthan (CURAJ) has been established by an Act of Parliament (Act No. 25 of 2009, The Gazette of India, No. 27, published on 20th March, 2009 as a new Central University, and is fully funded by the Government of India.

MoUs/ MoAs between CURAJ and foreign Universities/ Institutions :

- (a) University of Castilla-La Mancha (UCLM), Spain
- (b) Gorno-Altai State University (GASU), Russia
- (c) Monash University, Melbourne, Australia
- (d) California State University, San Bernardino, USA
- (e) Central Queensland University of Rockhampton in the State of Queensland (CQ University), Australia
- (f) Institute of Tropical Medicine, Antwerp, Belgium
- (g) Thuyloi University, Hanoi, Vietnam
- (h) UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN, México

CUCET (Central Universities Common Entrance Test) is conducted jointly by the ten Central Universities to obtain admission into the UG / Integrated Program / B.Voc., Post Graduate Program and the Research Program in these ten Central Universities.

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## 1.9 B.Tech (Bioengineering / Biotechnology)

### VIT University

*Sunrise sector, Well established university*



#### Eligibility

Should have secured an aggregate of 60% in Physics, Chemistry, and Mathematics / Biology in the qualifying examination (+2/Intermediate). The average marks obtained

in the subjects Physics, Chemistry and Mathematics or Biology (PCM / PCB) in +2 (or its equivalent) put together should be 50% for the SC/Stand candidates from J&K and North Eastern States of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura.

Also eligible for ECE with spl. in Biomedical Engineering, B.Tech. Computer Science and Engg (Spec.in Bioinformatics) but after joining, registering for Mathematics as bridge course is mandatory.

### About

VIT University was founded in 1984 as a self financing institution called the Vellore Engineering College. The Union Ministry of Human Resources Development conferred University status on Vellore Engineering College in 2001. In 2017, it started 2 new campuses in VIT Bhopal and VIT AP.

NIRF Rank : In 2017 and 2016, Vellore Institute of Technology has been ranked no. 13 in Engineering Colleges category (not in Universities) as per National Institutional Ranking Framework, Govt of India

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## 1.10 BSc (Biology)

### Azim Premji University, Bengaluru

*Unique major/minor combination concept like in western countries, Merit scholarships*



### Eligibility

10+2 or equivalent valid international qualification

### About

Azim Premji University is a Private university located in Bengaluru having 5 schools and centres : School of Education, School of Development, School of Policy & Governance, School of Liberal Studies, School of Continuing Education & Univ Resource Centre.

It offers 3 year, full-time, residential Bachelor of Science (B.Sc) degree in Biology (besides other subjects). Like in western universities, Azim Premji University, follows the credit score approach, wherein specializations are offered through a combination of Majors and Minors to build disciplinary knowledge and appreciate the subject.

Core courses in Biology : Introductory Biology: From Molecules to Ecosystems, Introduction to Biological Data and Programming, Molecular Biology & Biochemistry,

Evolution and Ecology, Introduction to Bio-statistics, Plants and their Interactions,  
Cell and Developmental Biology, Introduction to Genetics

Electives in Biology : Field Biology, Animal Behaviour, Neurobiology, Cancer,  
Advanced Bio- statistics

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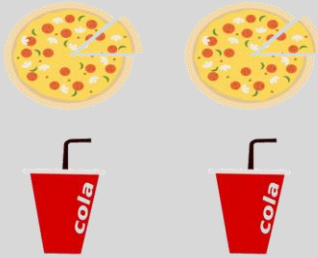
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