

S.B.Patil College Of Science and Commerce

Sr. no. 110, Gate No 1, Ravet, Pune- 412101 www.sbpatilcollege.com, email-sbp.science@gmail.com

ce@gmail.com
College Index No : J.11.16.066



CAREER IN BIOLOGY



BY Mrs Anjum Mulla

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UDISE NO: 27252001412 College Index No : J.11.16.066



WHAT AFTER 10+2 MEDICAL

- 1. MEDICINE (M.B.B.S.)
- 2. DENTISTRY (B.D.S.)
- 3. AYURVEDA (B.A.M.S.)
- 4. HOMEOPATHY (B.H.M.S.)
- 5. NATUROPATHY (B.Y.N.S)
- 6. PHYSIOTHERAPY
- 7. MEDICAL LAB TECHNOLOGY
- 8. BIO -TECHNOLOGY
- 9. HOSPITAL MANAGEMENT
- 10. OCCUPATIONAL THERAPY
- 11. MEDICAL TRANSCRIPTION
- 12. MEDICAL REPRESENTATIVES
- 13. FORENSIC SCIENCE
- 14. RADIO-GRAPHY/THERAPY
- 15. NUCLEAR MEDICINE
- 16. MICROBIOLOGY

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MEDICINE(M.B.B.S.)

BACHELOR OF MEDICINE BACHELOR OF SURGERY (MBBS)

DURATION: 6 YEARS.

(One year of internship)

10+2 (physics, chemistry and ELIGIBILITY

biology)

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ENTRY AND SELECTION

Candidates with a science background (biology/botany/zoology compulsory) can appear for the various entrance exams conducted at the central and state levels.

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All India Medical Entrance Exams

NATIONAL ELIGIBILITY CUM ENTRANCE TEST (UG) 2020 (NEET (UG) - 2020) will be conducted by National Testing Agency (NTA) for admission to MBBS/BDS/BHMS/BAMS/BUMS Courses



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Armed Forces Medical College (AFMC)

 The admissions in the AFMC College will be offered through NEET 2020 score. The Armed Force Medical College will not conduct any separate entrance examination for providing the admissions. Eligible candidates can apply through **NEET** 2020 entrance exam..

Total Seats through NEET 532

Pimpri Chinchwad Education Trust's

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College Index No : J.11.16.066

76,928



MEDICAL INSTITUTES IN India

Type of Colleges	MBBS	
	Total Colleges	Total Seats
Government Colleges	272	41,388
Private Colleges including Deemed Universities	260	35,540

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College Index No : J.11.16.066



MEDICAL INSTITUTES IN MAHARASHTRA 2021

The addition will take the total seat count to 6,700 in government and private medical colleges, and the total seats in the state to 8,900, bringing in good news for MBBS aspirants. The number of MBBS seats in the state has gone up by close to 30% so far in the last two years

> MBBS Seats Maharashtra





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List of colleges in Maharashtra

 https://medicine.careers360.com/articles/ mbbs-seats-in-maharashtra#MBBS-seatsin-Maharashtra-2020

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EMPLOYMENT

- Hospitals (private and government-owned; general, specialty and multi specialty)
- Clinics
- Primary Health centres
- Industrial sector
- Voluntary organizations which provide medical care
- Research bodies
- Armed forces
- Educational institutions
- Private practice is also an option.

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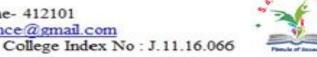
DENTISTRY (B.D.S.)

- The job of a dentist is to provide surgical, medical and other forms of treatment for oral and dental disorders and diseases.
- A dentist also helps the patient to maintain a healthy mouth and fine teeth.
- The dentist examines the mouth and teeth, then prepares and executes the treatment.



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COURSE INFORMATION

BACHELOR IN DENTAL SURGERY

DURATION

4-YEARS.

(One year of residency).

ELIGIBILITY

10+2 (Physics, chemistry and biology.)



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MAIN EMPLOYERS

Dentists are employed by,

- Hospitals
- Dental Clinics
- Private practice
- Educational Institutions
- Armed Forces

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AYURVEDA

- In Sanskrit, "Ayu" means "life" and Veda" means "knowledge".
- Hence, "ayurveda" means "knowledge of life" or "science of life". This ancient Indian form of medicine is about 3000 years old.
- The treatment in ayurveda is preventive rather than curative.
- It is based on the belief that all human beings are a combination of the Pancha Boothas or the five elements.

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COURSE INFORMATION

 B.A.M.S (Bachelor of Ayurvedic Medicine and Surgery).

DURATION: 5 year course

ELIGIBILITY: 10+2

(physics, chemistry and biology.)

 A person with any other background like arts, commerce cannot enter this course.

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College Index No : J.11.16.066



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HOMEOPATHY

- Homeopathy is a system of medicine which is practiced on the principle, that a drug and a disease which produce similar symptoms cancel each other out in some way thereby restoring the patients to health.
- The principle of 'Like can cure Like' forms the basis of Homeopathy. It is named after the Greek words, ' Homeo' meaning similar and 'Pathos' meaning suffering or treatment by the same.
- This system of healing was founded by a German doctor, Samuel Christian Hahnemann (1755) and is recognised as an effective means of treating diseases.
- Though this system was developed abroad, it has become an integral part of the Indian way of life.
- There are many institutes imparting Homeopathy courses in India.

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COURSE INFORMATION

- <u>COURSE</u>:BHMS (Bachelor of <u>Homeopathic Medicine</u> & Surgery)
- **ELIGIBILITY:** 10+2 (physics, chemistry, Biology and English with minimum 45 % marks.)
- DURATION: DEGREE→ five and half years, (including internship.)
 DIPLOMA→four year duration.
- MD → three years duration.
- <u>SELECTION</u>: All India Entrance Examination as for MBBS. (Details in <u>Entrance Details & Syllabus</u>).
- qualification required for entrance is 10+2 or equivalent with Science subjects.
- In the case of private <u>medical colleges</u> entrance examinations are conducted by the institutes individually.

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UDISE NO: 27252001412

EMPLOYMENT

- Government and private hospitals
- Clinics,
- Charitable institutions,
- Research institutes as researchers,
- Medical colleges
- Training institutes as teachers
- Private practice.



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UDISE NO: 27252001412 College Index No : J.11.16.066



BIOTECHNOLOGY

- Bio-Technology is a research oriented science, a combination of Biology and Technology.
- It covers a wide variety of subjects like Genetics,
- Biochemistry,
- Microbiology,
- Immunology,
- Virology,
- Chemistry
- Engineering
- Health and Medicine,
- Agriculture and Animal Husbandry,
- Cropping system and Crop Management
- Ecology, Cell Biology,
- Soil <u>science</u> and Soil Conservation,
- Bio-statistics, Plant Physiology,
- Seed Technology etc.



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UDISE NO: 27252001412

College Index N

College Index No : J.11.16.066



ELIGIBILITY

12, with physics, chemistry, mathematics.
 and biology at the intermediate level



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College Index No : J.11.16.066

Duration

- Three years duration for B.Sc course.
- Two years to complete the M.Sc. course.
- B.Tech. course is of four years duration and
- five year for integrated M.Tech.
 programme
 offered at IIT Delhi and Kharagpur.

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UDISE NO: 27252001412 College Index No : J.11.16.066



<u>COLLEGES</u>

- Guru Nanak Dev University -
- Course Name: B.Tech Biotechnology
- Address:
- Amritsar 143005
- Website: http://www.gnduonline.org/
- Email: enquiry@gnduadmin.com
- IIT –
- Description:
- IIT Kanpur- It offers a BTech degree program in Biological Sciences and BioEngineering
- Visit http://www.iitk.ac.in/
- **IIT Kharagpur** It offers a BTech degree program in Biotechnology and Biochemical Engineering.
- Visit http://www.iitkgp.ernet.in/
- IIT Chennai It offers a BTech degree in Biotechnology. Visit http://www.iitm.ac.in/
- IIT Guwahati It offers a BTech degree in Biotechnology. Visit http://www.iitg.ac.in/
- IIT Roorkee It offers a BTech degree in Biotechnology. Visit http://www.iitr.ac.in/
- Entrance Exam: JEE (Joint Entrance Examination)

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Career options after Biotechnology

- Business development manager
- Lab technician
- Research associate
- Engineer (Chemical, Electrical, **Environmental and Industrial)**
- Sales representative
- Marketing

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College Index No : J.11.16.066



BIOINFORMATICS

- Bioinformatics or computational biology is the use of information technology in the field of molecular biology,
- The application of computer technology to the management and analysis of biological data.
- Here computers are used to gather, store, analyze and merge biological data.

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UDISE NO: 27252001412 College Index No : J.11.16.066



UDISE NO: 2/252001412

Name of the Course Educational Qualification Required

- B.Tech in Bioinformatics Candidate should complete 10+2 with physics, chemistry, biology and English Master's
- Degree in Bioinformatics Candidate should complete their graduation in any of the following subjects such as B.Sc / B.Sc (Agriculture)/ BCS / BE / B.Tech / MBBS /B Pharm / BAMS / BHMS/BVSc.
- Diploma in Bioinformatics

Candidates having a post graduation in any of the following subjects such as M.Sc in Life Sciences, Physics, Chemistry, Mathematics, <u>Biotechnology</u>, Biophysics, Botany, Zoology, Biochemistry, Microbiology, Pharmacology, Computer Science or Equivalent),.

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27252001412 College Index No : J.11.16.066





Job Prospect

- Career areas
- Sequence assembly,
- Database design and maintenance, Sequence analysis,
- Proteomics (study of protein, particularly their structures and functions),
- Pharmacogenomics, Pharma-cology,
- Clinical pharmacologist,
- Informatics developer;
- Computational chemist,
- Bio-analytics and Analytics etc.

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College Index No : J.11.16.066



PHYSIOTHERAPY

- Physiotherapy alias <u>physical therapy</u>, one of the fastest-growing allied area of medicine, is the system of treatment of disease and <u>disability</u> using physical exercises.
- It is the most important rehabilitative service needed in a community and a vital therapeutic <u>supplement</u> of the medical profession, integral to the treatment of most patients.

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College Index No : J.11.16.066



Eligibility & Course Area

- COURSE OFFERED: B.Sc. degree in physiotherapy.
- ELIGIBILITY: 10+2 (physics, chemistry, biology and English.) 50%
- Age limit for the candidates is 17 years.
- **DURATION:** 4 years (last six months involves an internship period at a hospital)
- NOTE: Admission to institutes is through Common Entrance Test (CET)

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JDISE NO: 27252001412 College Index No : J.11.16.066



Job Prospects and Career Options

- Employment opportunities for physiotherapists are tremendous as it is a career where the demand exceeds supply.
- A physiotherapist could be employed in the
- rehabilitation departments,
- municipal corporations and
- private bodies.
- Their demand in medical institutions is increasing since physiotherapy plays an important role in the treatment of patients with muscular and cerebral problems.

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College Index No : J.11.16.066



- Like all other medical and paramedical professionals, physiotherapists can work in hospitals, orthopaedic departments, rehabilitation centres for the handicapped, schools for the mentally retarded and physically disabled children, health institutions and defense medical establishments.
- While those with adequate capital can establish private clinics of their own.
- The demand for physiotherapists in the country as well as abroad is immense. They are in great demand in USA, Canada and Australia.

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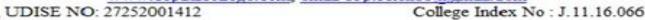


MEDICAL LAB TECHNOLOGY

- Medical Laboratory Technology also called Clinical laboratory science is an allied health profession which is concerned with the diagnosis, treatment and prevention of disease through the use of clinical laboratory tests.
- These tests help doctors to detect, diagnose and treat diseases.
- A Medical Laboratory Technologist (MLT) do these tests by analyzing body fluids, tissues, blood typing, microorganism screening, chemical analyses, cell counts of human.body etc.
- They play an important role in collecting the information's needed, sampling, testing, reporting and <u>documentation</u> of these investigations.
- They determine the presence, extent or absence of disease and provide data needed to evaluate the effectiveness of treatment.

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COURSE INFORMATION

- COURSE OFFERED:
- 1Bachelor of Medical Laboratory Technology (BMLT)
- 2. Diploma in Medical Laboratory Technology (DMLT)
- DURATION:1) 3 YEARS
 - 2) 2 YEARS
- Eligibility: 10+2 or equivalent with Science subjects

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JOB PROSPECTS

Oportunities are available in

- 1. molecular diagnostics,
- 2. molecular biotechnology companies
- 3. vitro fertilization laboratories
- 4. research labs.
- 5. clinical areas,
- 6. drug testing,
- 7. therapeutic drug monitoring and
- 8. biogenetics
- 9. medical technologists
- 10. product development,
- 11. marketing,
- 12. sales,
- 13. quality assurance,
- 14 environmental health and insurance

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College Index No : J.11.16.066



Medical Transcription

- Medical Transcription is one of the fastest growing fields in health care.
- Medical Transcriptionists are in demand in Western countries especially in the US where the entire healthcare industry is based on insurance and detailed medical records are needed for processing insurance claims.
- Medical transcription could be one of the speedy growing IT enabled service in India also, with the rapid change in the outlook in Indian healthcare and privatization of the insurance sector.

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COURSE INFORMATION

 COURSE OFFERED: Medical transcriptionist

 ELIGIBILITY: Graduation with English comprehension skill

DURATION: 2-3 YRS.

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College Index No : J.11.16.066



FORENSIC SCIENCE

- Forensic science is primarily concerned with the application of scientific principles for the investigation of crime.
- Using the very latest in technology, forensic scientists convert the clues collected from a crime scene into evidence admissible in a court of law.
- It is the use or application of science in courts or legal proceedings.
- This is a challenging and interesting field for those who have are inquisitive and loves

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College Index No : J.11.16.066



UDISE NO: 27252001412

ELIGIBILITY

- One should have to pursue first division in Physics, chemistry, zoology, botany, biochemistry, microbiology, B.pharm, BDS or applied science.
- To become a specialist who conducts postmortems on dead bodies to find out the cause of death, you must first secure an MBBS degree and then go for an MD in <u>Forensic Science</u>.
 All Indian Universities that offer MBBS courses also offer an MD in Forensic Science.

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JOB PROSPECTS

- They can find employment with law enforcement agencies, police, legal system and in the investigative services of the government and also private agencies. They can also work as teachers in institutes that conduct courses in this subject.
- Opportunities for forensic scientists exist in government organisations such as the Intelligence Bureau (IB), the Central Bureau of Investigation (CBI) and as investigative officers in the crime cells of state police forces.

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PHARMACY

- Pharmacy or Pharmacology is one of the main disciplines under Biomedical Science and the <u>pharmaceutical industry</u>. There are many disciplines within the Biomedical sciences.
- Pharmacy is related to <u>health sciences</u>.
- It is the profession responsible for the preparation, dispensing and appropriate use of medication and which provides services to achieve optimal therapeutic outcomes.
- A Pharmacists job is to prepare, mix, compound or dispense drugs and medicines, ointments, powder, pills, tablets and injections on the prescription of a medical practitioner, dentist or veterinarian.

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College Index No : J.11.16.066



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Eligibility & Course Area

COURSE OFFERED: Bachelor degree in pharmacy.

ELIGIBILITY: 10+2 (physics, chemistry, biology and English.) 50%

DURATION: 3 to 4 years

NOTE: Admission to institutes is through AIEEE

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NUTRITION AND DIETICS

 Dietetics is the science of managing food and nutrition to promote health. A relatively new profession, this field has gained importance with the realisation that inappropriate eating habits can lead to many major diseases and that quality of life depends on the quality of food we eat.

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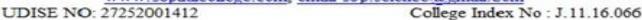


COURSE INFORMATION

- COURSE OFFERED: Bachelor course in Nutrition & Dietetics
- <u>ELIGIBILITY</u>: Higher Secondary
 Examination or Plus two (physics, chemistry, home science and biology.)
- **DURATION**: 3YRS.

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<u>NURSING</u>

- Nursing, a profession that recalls the name of Florence Nightingale is indeed one of the noblest professions in the world.
- It is the art of caring for sick people with the science of health care.
- It is a vital component of any form of medical care.
- The largest group of workers in the health sector are those in the nursing occupations as <u>nurses</u> and nursing assistants.

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UDISE NO: 27252001412

Eligibility & Course Area

COURSE OFFERED: Bachelor degree in pharmacy.

ELIGIBILITY: 10+2 (physics, chemistry, biology.) 50%

DURATION: 3 to 4 years



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UDISE NO: 27252001412

College Index No : J.11.16.066



Radio-Graphy/Therapy

Radiography is used to diagnose the ailment and diseases of the internal and hidden parts of the body using

- 1. X-ray,
- 2. Fluoroscopy,
- 3. Ultrasound (sonography),
- 4. CTscan (Computer Tomography),
- 5. MRI (Magnetic Resonance Imaging),
- 6. Angiography,
- 7. PET (Positron Emission Tomography) etc.

PET is a nuclear medicine medical imaging, a branch of medicine and medical imaging that uses unsealed radioactive substances in diagnosis and therapy, which produces a three dimensional image of the functional processes in the body.

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UDISE NO: 27252001412 College Index No : J.11.16.066



Eligibility & Course Area

 COURSE OFFERED: Bachelor degree in Radiography.

ELIGIBILITY: 10+2 (physics, chemistry, biology/maths) 50%

• <u>DURATION</u>: 3 to 4 years

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College Index No : J.11.16.066



Microbiology

- The study of microscopic organisms is called microbiology.
- Micro-organisms are very small organisms which are not visible through naked eye.
- These organisms include algae, bacteria, moulds, protozoa, yeasts and viruses.
- Sometimes they are even referred to as microbes and are studied under microscope, being very small in appearance.
- Micro-organisms are almost found everywhere and they constitute by far the largest group of living things existing on earth.
- Our existence, health, food, agriculture and even industrial development are very much dependent on them.
- If microbes were to become extinct, disaster would become inevitable and would be beyond imagination.
- Unknowingly, man has made use of micro-organism since prehistoric times, mostly in the production of food and drinks, such as leavening of bread, souring of milk and making of wine and beer etc.

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UDISE NO: 27252001412

College Index N





Nature of Work

 Microbiologists study and investigate micro-organisms and their relationships with man, animals and plants.



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Some of the sub-categories of microbiologists are as follows.

- 1. MEDICAL MICROBIOLOGISTS
- 2. AGRICULTURAL MICROBIOLOGISTS
- 3. INDUSTRIAL MICROBIOLOGISTS
- 4. MARINE MICROBIOLOGISTS
- 5. GENERAL MICROBIOLOGISTS

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Biological Scientists are employed in a variety of fields,

which include:

- Industries producing biological and allied products
- Govt. departments
- Food Industry
- Export houses
- Pharmaceutical Industry
- Veterinary Clinics
- Co-operatives
- Poultry and Diary Farming
- Fish Culture
- Agriculture and Allied Industries
- Rural Banks
- Milk Industry
- **Environmental Organizations**

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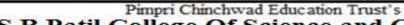
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COURSES IN BIOLOGY

- B.Sc Botany
 - **B.Sc Biochemistry**
 - **B.Sc Zoology**
 - **B.Sc Microbiology**
 - B.Sc Fishery science
 - **B.Sc Horticulture**



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