



Pravara Institute of Medical Sciences

(Deemed to be University)



Established under section 3 of UGC Act. 1956 vide Notification No. 9-11/2000 U.3 of the Govt. of India

(Reaccredited by NAAC 'A' Grade with CGPA of 3.17 in four point scale)

www.pravara.com

Loni Bk., Tal- Rahata, Dist. Ahmednagar, Maharashtra, Pin-413736.

Centre for **Biotechn**ology

Prospectus & Application Form

for Admission to

**B. Sc + M. Sc (Integrated) Medical Biotechnology &
M. Sc (Independent) Medical Biotechnology**

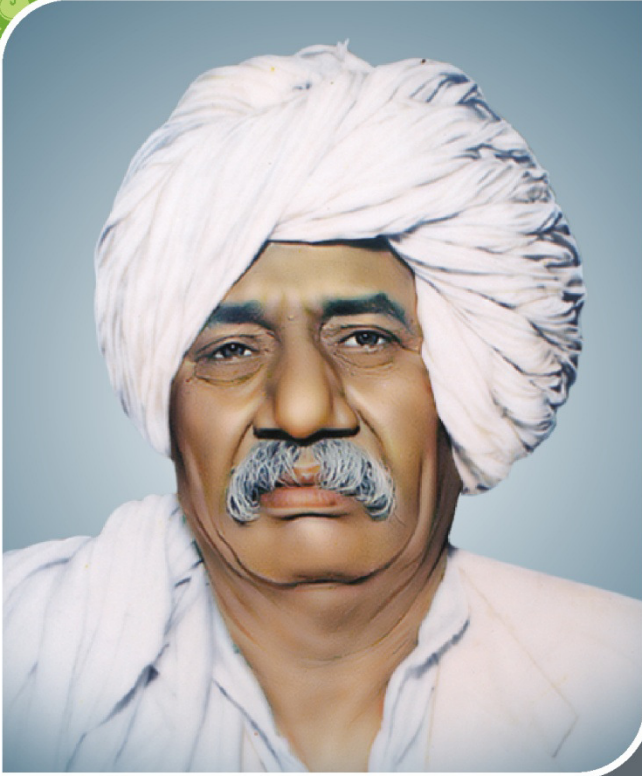
“Health Sciences & Research Driven Curriculum”

Prospectus



General Laboratory

Founder Fathers



Dr. Vitthalrao Vikhe Patil
Padmashri Awardee
(1901-1980)



Dr. Balasaheb Vikhe Patil
Padma Bhushan - Awardee
(1932-2016)



Pravara Institute of Medical Sciences (Deemed to be University)



Dr. Vijay Kelkar
Hon'ble Chancellor

Dr. Rajendra Vikhe Patil
Hon'ble CEO & Pro Chancellor, PMT/ PIMS-DU

Dr. Y. M. Jayaraj
Hon'ble Vice Chancellor

Dr. S.R. Walunj
Registrar

Mr. B.D. Naik
Controller of Examination

Mr. Vivek Karhadkar
Finance Officer

Centre for Biotechnology Faculty List

Dr. Suresh P. Kamble, Ph.D.
Incharge Director

Dr. Sonali Das, Ph.D.
Assistant Professor

Dr. Rahuldev Malage, Ph.D.
Assistant Professor

Mr. Ganesh Vikhe, M.Sc.
Assistant Professor

Ms. Jyoti Kulkarni, M.Sc.
Microbiologist



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About the University & Institute

Pravara Medical Trust

Pravara Medical Trust (PMT) is a not-for-profit oriented; non-governmental, charitable organization founded in 1972 by the local peasants lead by Padmashree Dr. Vitthalrao Vikhe Patil, as part of an Integrated Rural Development Model in remote rural area of Ahmednagar district of Maharashtra, India. The Model was acclaimed by the President of India, Dr. APJ Abdul Kalam as “Loni PURA Model”. PMT is pioneer in actively translating all the public health principles and concepts through promoting a “Comprehensive Rural Health Model (CRHM)” for the last 40 years in rural, drought-prone, and tribal areas of Maharashtra, India with a mission to “serve the rural poor & marginalized sections of society”. The PMT's Vision is to improve the productivity of the people, especially rural & vulnerable sections of the society, through better health and increased „quality of life” by making health systems more effective and responsive to the needs & aspirations of the people.

Pravara Institute of Medical Sciences – Deemed to be University

Pravara Institute of Medical Sciences (PIMS) – is established in 2003 (Notification No.9-11/2000 U.3 of the Govt. of India), as part of CRHM was promoted by PMT. PIMS- one of the rural medical universities in India, pioneered in socially meaningful and community oriented medical & allied health sciences education blended with state-of-art institutional training and service delivery. PIMS attained the status of Deemed University in 2003 under section 3 of UGC act 1956 of Govt. of India and Accredited by NAAC A Grade (CGPA 3.17).

The following are the “Centres of Excellence” functioning as constituent Colleges & Hospitals under one roof – the PIMS Deemed University.

1. Pravara Rural Hospital, Loni – 1976
2. Rural Medical College, Loni – 1984
3. Rural Dental College and Hospital, Loni – 1989
4. College of Physiotherapy & Rehabilitation Centre, Loni - 1997
5. College of Nursing, Loni – 2001
6. Centre for Biotechnology, Loni – 2001
7. Centre for Social Medicine, Loni – 2001
 - Centre for Tribal Health Research and Services – 2016
 - Community College & Vocational Training Centre (VTC) - 2017

The above constituent institutions of PIMS University, currently offers 6 Bachelor's Degrees (MBBS, BDS, B.P.T, B.Sc. (Nursing), P.B.B.Sc. (Nursing), B.Sc. (Medical Biotech), 41 Post Graduate degrees and diplomas (M.D/M.S), PG Degree in Dental faculty (MDS), M.P.T., M.Sc. (Nursing), Master of Public Health (MPH), M.Sc. (Medical Biotech), M.Sc. (Pre-clinical & Para - clinical) courses in Medical Faculty, Doctoral, diploma and certificate programs in medicine, dentistry, nursing, physiotherapy, medical biotechnology, public health and other para-medical sciences. PIMS-DU campus has been developed as a self sufficient township with all modern amenities for supporting 3500 students, staff/faculty and their families, to live, work and study, on a 115 acre lush green, environmental friendly, pollution free atmosphere in Loni.



Introduction

The Center for Biotechnology was established in the year 2001 to facilitate “**Health Sciences and Research Driven**” quality education and training in the field of Biotechnology. The academic programmes are framed to take up either a research career or get recruited in the healthcare/ pharma industry or hone the skills to become successful entrepreneur.



Medical Biotechnology is a specialized disciplines dealing with the understanding & use of living cells or any biomaterial and its derivatives in health and diseases. It has an interdisciplinary approach that combines the knowledge of fundamental sciences including cell biology, biochemistry, genetics and many others for its application in the advancement of medicine in terms of disease diagnosis and development of therapeutics, nutraceuticals etc. Therefore, it is considered to be the growing technology of the 21st century and has promising future to enhance the quality of life and environment.

The research and academic activities are strongly complimented by the Pravara Rural Hospital, Rural Medical College and Rural Dental College, which are constituent units under PIMS DU.

Salient Features

- ❖ The “**Research Driven**” curriculum includes theory, practical, seminars, journal club and project work, designed as per the latest advancement and technological developments in the field of Biotechnology.
- ❖ The programme imparts knowledge in applied biological sciences such as Biochemistry, Microbiology, Immunology, Molecular Biology, Genetic Engineering, Bioinformatics and Animal & Plant Tissue Culture.
- ❖ Undertaking minor research project & research papers presentation at the conferences is part of curriculum. Students are encouraged to undertake research projects & pursue independently under the guidance of trained faculty
- ❖ Field visit for exposure to healthcare settings to understand the health related issues and identify research areas.
- ❖ Emphasis on Applied Biotechnology to undertake interventional research relating to the problems of nutrition and livelihood.



Mission

To nourish and nurture the young, creative and innovative minds to develop high quality professionals in the field of biotechnology and health sciences leading to the significant contribution for the betterment of mankind and mother country

Vission

- ❖ To be a premier institute in terms of cutting edge research, providing state of art facilities and produce creative, competent scientist, researchers, technologist and entrepreneurs in the field of medical biotechnology.
- ❖ To be a centre of excellence in the field of medical biotechnology through imparting need based quality education and training in relevant areas of biological and health sciences
- ❖ To provide a common platform to students and other stakeholders with the diverse academic backgrounds and familiarize them to a new horizon of medical biotechnology through quality education, training, research, extension and outreach activity.
- ❖ To train the next generation medical biotechnologist to serve health care system of nation especially of rural population as well as inculcate values & ethics among all its stakeholders and ensure transfer of technology from laboratory to land.

Goals

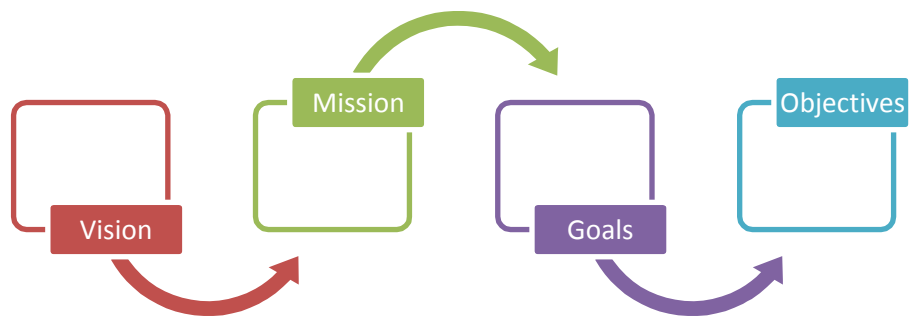
The Centre is desirous of becoming one of country's premieres Research and Academic institute in India. The primary focus is education and research with relevance to the practical world as a guiding principle. This Centre focuses on interdepartmental multidisciplinary programmes and enhancement of laboratory skills. The Centre, despite having strong research base, desires to extend beyond traditional boundaries. It seeks to be a pulsating temple of science from which intelligence, knowledge and wisdom disseminate.



Objectives

The Centre is established with following objectives:

- ❖ Integrate various research and other activities in Biotechnology with medical sciences
- ❖ Screen plants, microbes and other biological sources for bioactive molecules - in particular those useful as anti-cancer agents.
- ❖ Develop transgenic crops that can express human therapeutic molecules and resist stress like drought and soil salinity.
- ❖ Apply biotechnology for sustainable use of available bio - resource to solve the problems of nutrition and livelihood.





Hostel Facilities

Students - both boys and girls of PIMS Deemed to be University, who require hostel accommodation, will be provided with hostel facility which conforms to high standard quality of construction, security, entertainment etc located in the Loni Campus. The spacious, well ventilated rooms of Boy's, Girl's Hostels and International Centre are furnished with double/triple occupancy bed, reading table, chairs, electrical fittings (tube lights, fans etc), common intercom telephone, internet connectivity and common/individual attached bath rooms etc. The entire girl's hostels have round the clock security and attendant facilities. A dedicated University official serves as a Warden-Friend-Guide-Philosopher is available within the House during official hours for all the incumbents.



Programmes & Courses Offered



B. Sc + M. Sc (Integrated) Medical
Biotechnology



M. Sc (Independent) Medical
Biotechnology



Admission Process

B. Sc + M. Sc (Integrated) Medical Biotechnology:

Admission is based on the marks obtained in HSC (10+2) or equivalent examination from a recognized Board.

M. Sc (Independent) Medical Biotechnology:

Admission is based on the marks obtained in B.Sc. or equivalent examination from a recognized University.

Eligibility Criteria

B. Sc + M. Sc (Integrated) Medical Biotechnology:

Candidate fulfilling the following criteria shall be eligible

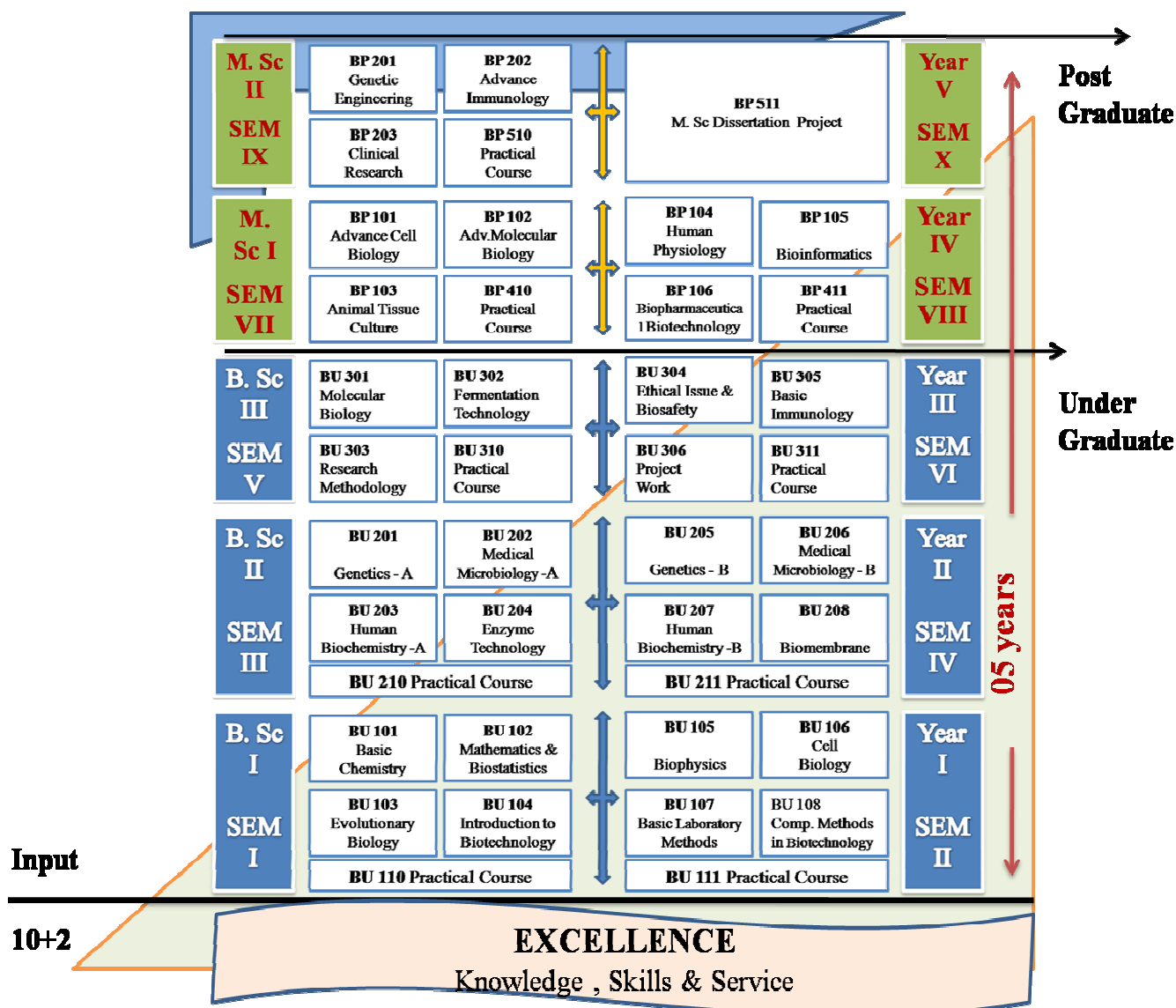
- A. Candidate should have passed HSC (10+2) or equivalent examination from a recognized Board with English; securing minimum 40% marks. In aggregate of the subjects namely Physics, Chemistry, Biology /Mathematics. The Backward class candidates must attach a copy of the Cast Certificate along with the application form.
- B. A candidate must be Indian National, the Nationality Certificate issued by the District Magistrate/ Additional District Magistrate/ Chief Metropolitan or a valid passport shall constitute the proof of Nationality.
- C. The Candidates must be 17 years of age.

Duration: 5 years (3 years for B. Sc + 2 years for M. Sc)



Course Structure

“Health Sciences & Research Driven Curriculum”



B. Sc + M. Sc (Integrated) Medical Biotechnology

Flow Diagram

Note: After completion of three years, B. Sc Biotechnology degree will be awarded. If student wishes to continue he/she is automatically admitted to M. Sc Medical Biotechnology course

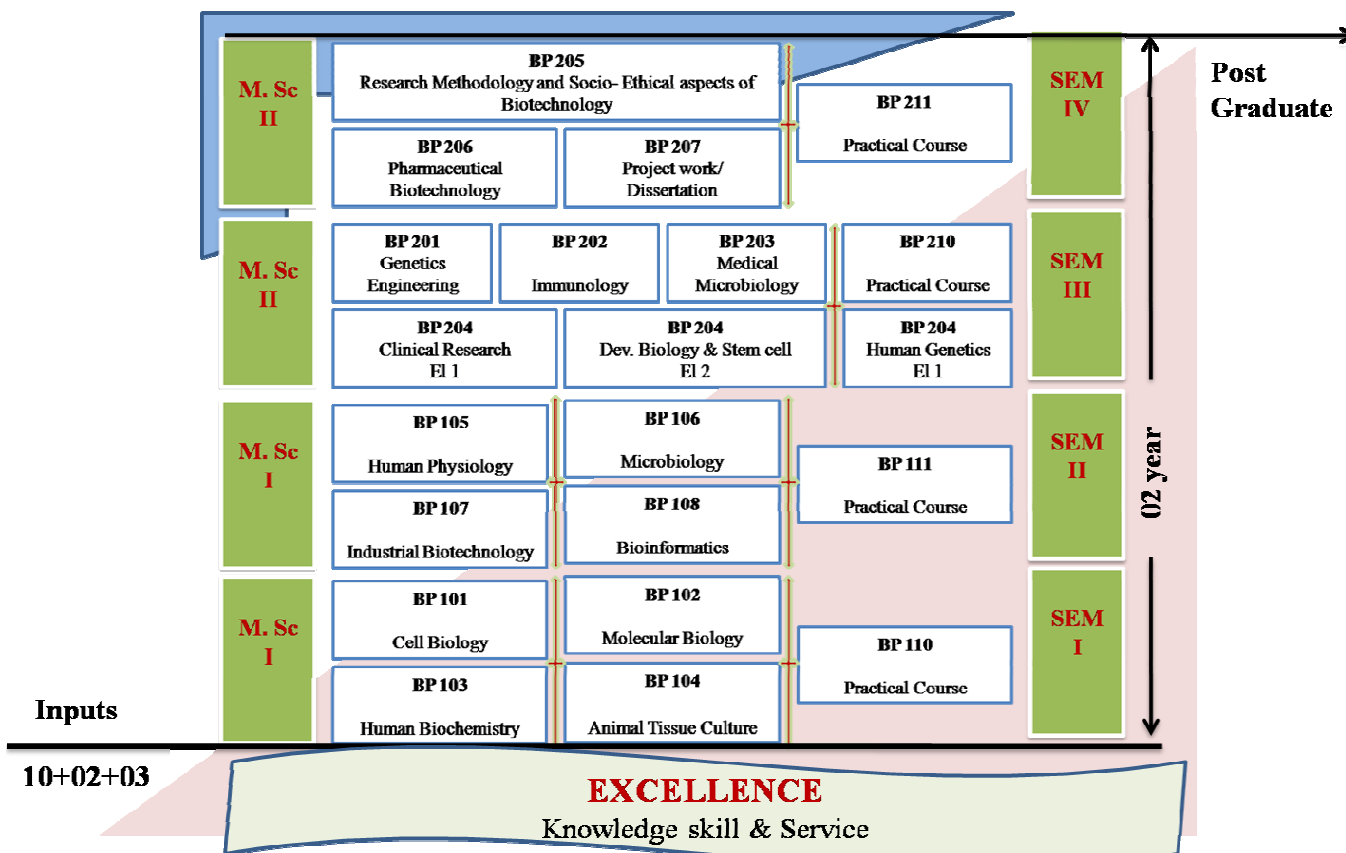


M. Sc (Independent) Medical Biotechnology:

Candidate fulfilling the following criteria shall be eligible

- A. Candidates must have passed any of the following qualifying examination from recognized Indian university with minimum 50% marks (40% for the candidates belonging to SC/ST/OBC)
 - i. Bachelor degree in any stream of Science with Biotechnology/ Microbiology/ Biochemistry/ Life Sciences (Botany/Zoology)/ Chemistry.
 - ii. BAMS/ B. Pharm/ BHMS/BUMS
 - iii. B.Sc. Agri Biotechnology
 - iv. MBBS, BDS, Bachelor's degree in Veterinary and Fishery Sciences
- B. Candidate shall be medically fit.

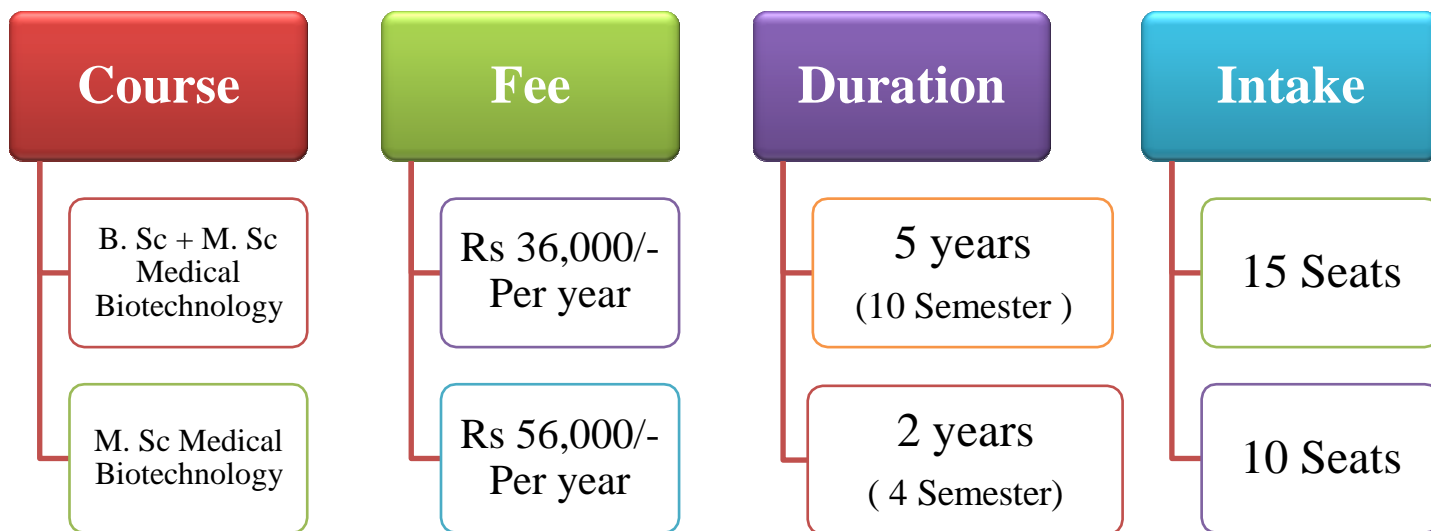
“Health Sciences & Research Driven Curriculum”



M. Sc (Independent) Medical Biotechnology Flow Diagram

The course is structured on Choice Base Credit System (CBCS) as per the UGC guidelines

- ❖ At beginning of first semester, student will be exposed to research methodology workshop.
- ❖ Students shall select topic for minor Research Project and the finding of which will be presented at the national / international conference.
- ❖ Students shall select the topic of dissertation of M. Sc Medical Biotechnology and seek ethical committee approval, at the end of first semester.



Mode of Payment

At the time of Admission, the candidate will have to bring a demand draft of entire Annual fees mentioned above in favour of “Pravara Institute of Medical Sciences, Loni”, drawn on bank as indicated below :

Drawn on Bank	Branch Code	Payable at
State Bank of India Loni Branch	6322	Loni-413736, Tal - Rahata, Dist- Ahmednagar, (MS)
Central Bank of India Pravara Medical Trust Loni Branch	3278	Loni-413736, Tal - Rahata, Dist- Ahmednagar, (MS)
Any Nationalized Bank		Pune, Service Branch



Application Form & Prospectus

B. Sc + M. Sc (Integrated) Medical Biotechnology:

Those who are interested to take admission into the aforementioned courses should obtain the Prospectus and Application form, which can be obtained through the following ways:

- 1) By sending a request letter to the Director, Centre for Biotechnology along with D.D. for Rs. 300 in favour of Pravara Institute of Medical Sciences- Deemed to be University.
- 2) By downloading from the website www.pravara.com and submitting the downloaded Application Form along with a D.D. for Rs. 300/-
- 3) From the Counter of Center for Biotechnology on cash payment of Rs. 300/- on working days from 9.00 am to 5.00 pm.
- 4) The Application Form should be attached with the Xerox copy of the following certificates:
 - i. SSC Passing Certificate
 - ii. SSC Mark sheet
 - iii. HSC Passing certificate
 - iv. HSC Mark sheet
 - v. Caste & Caste validity certificate (if applicable)
 - vi. Leaving certificate
 - vii. Migration Certificate
 - viii. Identity proof (Aadhar / Driving License / Pan card / Passport)



M. Sc (Independent) Medical Biotechnology:

Those who are interested to take admission into the aforementioned courses should obtain the Prospectus and Application form, which can be obtained through the following ways:

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- 4) The Application Form should be attached with the Photo copy of the following certificates:
 - i. SSC Passing Certificate
 - ii. SSC Mark sheet
 - iii. HSC Passing certificate
 - iv. HSC Mark sheet
 - v. Degree passing Certificate
 - vi. Caste & Caste validity certificate (if applicable)
 - vii. Leaving certificate
 - viii. Migration Certificate
 - ix. Identity proof (Aadhar / Driving License / Pan card / Passport)

Selection Procedure

Those satisfying the eligibility requirements will be included in the selection process. Selection for Admissions in the course will be done purely on merit basis i.e marks obtained at the qualifying examinations.



Formalities after Selection Procedure

Acceptance Letter

An acceptance letter should be obtained, signed and returned to the Director, Centre for Biotechnology, if admission is accepted. Verification of Original Documents of the following certificates will be carried out at the time of Admission:

1. Nationality Certificate / Domicile Certificate / Valid Passport
2. Leaving / Transfer Certificate
3. Migration Certificate
4. Medical Fitness Certificate
5. Gap Certificate (if applicable)
6. Six Passport Size colour Photographs

Procedure for Cancellation of Admission

A candidate who has confirmed his/her admission may cancel it by submitting an application to the Director, Centre for Biotechnology along with the following document

- i) Application for cancellation duly signed by the Candidate & Co-signed by parent/guardian
- ii) Original Admission Letter
- iii) Original Fees Receipts

Such requests will be considered as per the following rules:

Period of cancellation	Permissible Refund
Within Thirty days from date of admission	Entire amount of Annual Tuition Fees after deduction of processing fee of Rs. 1000/-
Within Forty five days from date of admission	Refund will be made after following deductions © Rs.1000/- processing fee © Deduction of monthly fee i.e. 10% of tuition fee
After forty five days of admission	No cancellation of admission, entire tuition fee has to be paid



- ❖ All Security deposits will be refunded in full in case of cancellation of admission,
- ❖ The permissible refund will be made after three months from date of application for cancellation. No Correspondence in this regard will be entertained during this period.

Cancellation in middle of the course

In the midway, if the student fails to continue the Course, for whatever reasons, student is liable to pay the remaining course fee for the full duration of course. On payment of remaining course fees, No Objection Certificate (NOC) and Original documents from the institute concerned shall be issued. The request application for cancellation of the course is to be submitted through the Director, Centre for Biotechnology to the Registrar, PIMS-Deemed to be University for approval.

Important Dates

Commencement of sale of Prospectus and Application form	02 nd Week of June
Last date of receipt of application form	03 rd Week of July
Admission of selected candidate	04 th Week of July
Commencement of course	04 th Week of July

For more information refer our website www.pravara.com
For further information kindly contact:

The Director

Center for Biotechnology

Pravara Institute of Medical Sciences (DU), Loni 413736

Tal- Rahata, Dist. Ahmednagar, Maharashtra

Phone : (02422) 271340/50

Email : biotechnology@pmtpims.org



Visit of International Guest & Research Labs





Centre for Biotechnology

Pravara Institute of Medical Sciences - Deemed to be University,

Loni 413736, Tal- Rahata, Dist. Ahmednagar, Maharashtra,

Phone: (02422) 271340/50

Fax: (02422) 273413

Email: biotechnology@pmpims.org, director.biotech@pmpims.org

