

1.2.3 Faculty of Science & Technology

Bhagwan Mahavir College of Basic and Applied sciences

Dean: Dr. Piyush Desai

Courses Offered:

Bachelor of Science

Master of Science

Integrated Master of Science

Post Graduate Diploma

PhD

About Departments / College:

Bhagwan Mahavir College of Basic and Applied Sciences runs following courses viz., M.Sc. Integrated Biotechnology, B.Sc. Chemistry, B.Sc. Microbiology, B.Sc Mathematics M.Sc. Organic Chemistry, M.Sc. Botany, M.Sc. mathematics, P.G.D.M.L.T. and PhD. Bhagwan Mahavir College of Basic and Applied Sciences has got the experts in each field and they are here not only to teach the subjects, but also to explore students with their innovative ideas and to make the changes in life of individuals with their knowledge being put into action. We shape new scientist by providing hands on training and focused study concept.

The aim of any educational institute is the total personality development of the student. The total personality development includes development of cognitive, affective, and psychomotor aspects. Because of this the innate and induced characteristics should be developed through some process which we call education. Hence, we believe that the procedure of education is only providing situations to the students in which they reset their head, heart, and body in melody with the goals. The sprawling college campus at posh area of Bharthana is spread over an area of over 20 Acres which includes 12+ building for different courses acres of open space for garden and sports facilities. The teaching - learning process is facilitated in 15 classrooms, 9 specialized laboratories for physics, chemistry, botany, zoology, microbiology, biotechnology and PGDMLT separately, huge computer room with high-speed Internet connectivity, a seminar room, conference room, an auditorium and a fully automated library. The college also provides hostel facilities for the student from rural area and who belongs to different states. Common facilities include Library with adequate numbers of books & journal

for each subject, Separate hostel facility for boys & girls, Computer laboratory with adequate numbers of computers with internet connectivity and Sports facilities etc. BMCBAS Auditorium has a seating capacity of 200. It is fully air-conditioned and its light and sound system is currently being revamped. The Auditorium hosts various academic and cultural events of the college. It also encourages well-known cultural groups to hold their programs for the benefit of the students and community. Laboratory facilities in Biotechnology department includes: Microbial Biotechnology Laboratory equipped with Centrifuge(s), Autoclave, Incubator, Platform Shaker, Microscopes etc. Plant Tissue Culture Laboratory with all modern equipment's to provide training to the students as per the requirement of industrial standards. Animal Cell Culture Laboratory equipped with Laminar Hood, CO₂ incubator, Binocular microscopes & phase contrast microscope. Molecular Biology Laboratory equipped sophisticated instruments like Gel Doc system, Thermal cycler (PCR), Horizontal & vertical electrophoresis unit etc. General Biotechnology Laboratory microscopes and specimens and charts as required for current semester. Laboratory facilities in Chemistry department includes: B.Sc. Chemistry Laboratory-I well established lab with capacity of 60 students, equipped with chemicals and glassware's required for performing chemistry-based practical. B.Sc. Chemistry Laboratory-II well established lab with capacity of 40 students, equipped with chemicals and glassware's required for performing chemistry-based practical. M.Sc. Chemistry Laboratory well established lab with capacity of 40 students, equipped with chemicals and glassware's required for performing advanced chemistry-based practical's such as synthesis of novel compounds, analysis and screening of compounds etc. Physical Chemistry Laboratory well equipped with instruments like potentiometer, pH meter, Colorimeter, Conductivity meter etc. Physics Laboratory well equipped with all basic instruments and requirement as per current syllabus. Laboratory facilities in microbiology department includes: Microbiology Laboratory-I well-equipped laboratory with Microscopes, Digital Centrifuge, Laminar Air Flow, Electrophoresis units, Dark field & Phase Contrast Microscope, Autoclave, Incubators, Hot Air Oven, Platform Shaker etc. Microbiology Laboratory-II well-equipped laboratory with Microscopes, Digital Centrifuge, table top centrifuge, Cooling Centrifuge, Water bath, Electrophoresis units, Autoclave, Incubators with Shaker, Hot Air Oven, Filtration assembly, Vacuum pump etc. P.G.D.M.L.T. Laboratory well-equipped laboratory with Biochemistry Auto analyser, Microscopes, Digital Centrifuge, table top centrifuge, Water bath, Autoclave, Incubators, Micro pipettes etc. Instrumentation room having instruments like Vortex mixer, COD apparatus, Centrifuge, Electrophoresis unit, Trinocular microscope, Binocular Microscope, Cooling Centrifuge.

Student Details:

Level (UG/PG/PhD)	New Enrolment	Existing
B.Sc.	227	222
M.Sc.	479	471
PGDMLT	103	103
PhD	7	7

Publications

National	International	Book Chapter with ISBN No.
1	6	1.Study on Antioxidant Activities of Some Less Utilized Edible Fruits (Print ISBN: 978-93-91215-80-4, eBook ISBN: 978-93-91215-81-1) 2.Cyanobacteria: Sculptors and Saviour of the Earth (ISBN 978-93-91342-27-2)

Awards/ Recognitions received at the National and International level by Faculty and students

Sr. No.	Date of Award	Name	Designation	Title	Level
1	19 th July, 2020	Dr. Murtaza Hazoori	Asst Prof	First Best Paper in the Virtual International Multidisciplinary Conference	International
2	19 th July, 2020	Dr. Pooja Desai	Asst Prof	Third Best Paper in the Virtual International Multidisciplinary Conference	International
3	19 th July, 2020	Ms. Khyati Joshi	Student	First Best Paper in the Virtual International Multidisciplinary Conference	International
4	19 th July, 2020	Ms. Reena M Rohera	Student	Third Best Paper in the Virtual International Multidisciplinary Conference	International

Other Research Details:

Departmental projects funded by DST-FIST, UGC-SAP/CAS, DPE, DBT, ICSSR, AICTE, SSIP etc; Total grants received	Three SSIP projects: <ul style="list-style-type: none"> Title of project: production of chitinase through fermentation process. Title of project: Extraction of Alkaloid
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	based Antimicrobial from Piper Betle • Title of project: Phytohormone production using micro-organisms
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Library Details AY 2020-21:

No. of Books Available: **1297**

No. of Title available: **638**

Highlights

- Well-equipped laboratories are established for all running courses to provide hands on practical facility so as to generate complete development of youth.
- 2 book chapters and 6 papers published in Indian and International journals
- Numerous webinars attended by faculties and students.
- 12 webinars and many co-curricular activities were organized by college.
- 4 awards received by faculty and students for presenting best papers in international conferences
- 3 SSIP projects submitted and approved for grant.