Shiksha Mandal's Bajaj College of Science, Wardha (Autonomous) Departmental Profile- Biotechnology

About The Department:

Department of Biotechnology was established in the year 2006 to run B.Sc. undergraduate course. Current intake capacity for the course is sixty students. We offer Biotechnology subject with Chemistry and any one option from Microbiology/Botany/Zoology. The Department has also run post graduation course during the year 2010-2014. The department has highly qualified, experienced and dedicated faculty with specialization in Molecular Biology, Plant Tissue Culture, Agricultural and Environmental Microbiology, Immunology and Bioinformatics. The aim of department is to foster knowledge in students pertaining to basic and advance in biotechnology field.

Bajaj College of Science, Wardha has been granted autonomous status from the academic year 2017-18. The curriculum under autonomy has been modified 20% by highly experienced subject experts in consultation with academicians, research scientists and industry personnel to meet the latest requirements of biotechnology industries. The faculty and the students of the department are involved in various co curricular and extracurricular activities. It is also inculcating entrepreneurial skills in biotechnology graduates who would fulfill the role of job providers rather than jobseekers.

The department has well-furnished laboratories with all equipment's to impart more hands on training to the students and to carry out their projects. It has both college central library and departmental library where reputed International and National editions of books are made available to the students and faculties.

Alumni of the department occupy good positions in various industries like Meril Diagnostic Pvt.Ltd., Glenmark Pharmceutical Ltd., Wipro Ltd, TCS, Eclerx services; Cap Gemini India Pvt Ltd. Graduating students normally find good fellowships in higher education and pursue their career in reputed institutes like NISER, Bhubaneswar and IIT-Roorkee.

\triangleright	Library	Total 40 Books in the Departmental Library
\succ	Internet facilities for staff	3 desktops for staff and students with internet facility
and students		
\triangleright	Students Laboratories	UG Lab 44" X 26"
		1 Plant Tissue Culture Laboratory

Highlights of the Department:

Courses/Programmes Offered:

Course		Specialization	Intake Capacity
UG	Bachelor of Science	Students may opt for Biotechnology in following combinations:1. Biotechnology, Zoology, Chemistry2. Biotechnology, Botany, Chemistry3. Biotechnology, Microbiology, Chemistry	60

Faculty Profile:

Session 2022-23	Name	Qualification	Designation	Teaching experience
	Dr. Mrs. Ulka Malode (Bidwai)	Microbiology		18 years
	Dr. Kunal A. Kale	M.Sc Biotechnology Ph.D.	Assistant Professor On Contractual Basis	6 years
	Ms. Komal S. Dhumane	M.Sc Microbiology	Assistant Professor On Contractual Basis	3 Years
	Ms. Pallavi B. Rode	M.Sc Microbiology	Assistant Professor On Contractual Basis	8.5 Months

Supporting Staff:

Session 2022-23	Name	Designation	Work Experience
	Mrs. Chanda P. Kumbhalkar	Laboratory Assistant	23 Years
	Shri. Kiran Badwaik	Laboratory Attendant	17.5 Years

Highlights of the Syllabus under Academic Autonomy:

- The syllabus ensures that the students graduating with Biotechnology as one of the subjects will have the academic standard required to pursue post-graduation in Biotechnology in India and abroad.
- 2. Students graduating with Biotechnology will acquire skills that will be of tremendous value to them especially if they choose a career in Research, Academics, or Industry.
- 3. The graduates with Biotechnology will be able to face any national competitive exams held for the graduates will be able to qualify examinations like JAM, CSIR-NET, SET, GATE etc.
- 4. Syllabus contains important topics like Microbiology, Enzymology, Cell Biology, Biochemistry, Molecular Biology, r-DNA Technology/ Genetic Engineering, Immunology, Virology, Fundamental of Biomolecules, Biophysical Technique, PCR (Polymerase Chain Reaction), Bioinformatics, Environmental Biotechnology, Industrial Biotechnology, Food Biotechnology, Tissues Culture, etc are included in UG and PG syllabi.
- 5. Along with the theory, skill-oriented experiments including some innovative projects will prepare the students to orient themselves to bridge the gap between science and technology.

Research:

Research Projects:

Name of the Project	Name of the Principal Investigator	Name of the Funding agency	Type (Government/ Non- Government)	Funds provided (INR in Rs)	Duration of the project
Isolation and characterization of exopolysaccharide producing lactobacilli from probiotics	Dr. U. A. Malode	UGC, WRO PUNE	Government	4.2	2014- 2016

Papers in journals:

Dr. Ulka. A. Malode (Bidwai)

- Bacteriological Analysis of Ice-cream Available in Amravati. U.A.Bidwai. and D.H.Tambekar Asian Jr. of Microbiol. Biotech. Env. Sc., Vol. 5, No. (4): 2003: 599-600.
- Assessment of Bacteriological Quality of Khoa Sold in Amravati. D.H.Tambekar.R.N.Mantri and U.A. Bidwai. Asian Jr. of Microbiol. Biotech.Env. Sc., vol.9, No. (3):2007:615-619.
- 3. Potential Rhizobium and Phosphate Solubilisers as a Biofertilisers from saline belt of Akola and Buldana district (India). D.H.Tambekar, S.R.Gulhane, U.A.Bidwai and S.D.Tambekar.Research Journal of Agriculture and Biological Sciences.2008, INSInet Publication.
- 4. Biodiversity of Phosphate Solubilizing Bacillus subtilis Isolated from Saline Tract of Vidarbha. D.H.Tambekar and U.A. Bidwai PKV Research Journal. Vol.30 No. 2 July, 2006. 181-184.
- 5. Effect of meteorological parameters on evaporation from small reservoir in Anand Sagar, Shegaon. S.G.Gawande,S.S.Gawande and U.A. Bidwai.PKV Research Journal. Vol.33 No. 1 July, 2009. 109-113.
- 6. Isolation and identification of bacteria causing urinary tract infections in pregnant women in Wardha and their drug susceptibility patterns in them. Poonam U. Sharma & amp; Ulka Bidwai. 2013 International Journal of Current Microbiology & amp; Applied Sciences 2319-7706.
- Production of Biosufactant from Strain isolated from oil spill soil in Deoli region,Wardha district. Malode, U. A. Satone,N.T, Ingale M.G. and Kombe,S.V. International Journal of Current Research in Life Sciences Volume 09,No.06 pp 3292-3296 June,2020.ISSN:23119- 9490.
- Studies on Biodegradation of Synthetic Polyethylene By Microorganisms Isolated from Waste Disposal Site at M.I.D.C area of Wardha City. U. A. Malode, O.A. Mahodaya, R.Kewate.Juni Khyat(UGC Care Group I listed Journal) Vol -10 Issue -6 No.15 June 2020 ISSN:2278-4632 Copyright c2020 authors
- 9. DNA Fingerprinting and Phylogenetic relationship of the Genus Chlorophtytum Ker-Gawl from India using AFLP. Kale,K.A., Malode, U.A.,

Pohekar, P.v., Lakhe, M.B. International Journal of Trend in Scientific Research and Development. Volume 05 Issue 03 March-april 2021.e ISSN:2456-6470.pp 871-877.

Dr. Kunal A. Kale

- 1. DNA Fingerprinting and Phylogenetic relationship of the Genus Chlorophtytum Ker-Gawl from India using AFLP. Kale, K.A., Malode, U.A., Pohekar,P.v.,Lakhe,M.B.International Journal of Trend in Scientific Research and Development.Volume 05 Issue 03 March-april 2021.e ISSN:2456-6470.pp 871-877.
- 2. Kunal A. Kale, Meena S Deogade DNA Bar code: New approach for authentication of medicinal plant, How to cite the article: joinsismed 2017, vol 4(4), pp 185- 187.
- 3. Meena Shamrao Deogade, Tarulata Pandya, Kethamakka Shivarama Prasad,Kunal Kale, Nilima Tankhiwale ."Antimicrobial Activity of Vitex Negundo Linn. (Nirgundi) Leaves Extract" J. res. tradit. medicine 12/4.
- 4. Meena Deogade, Tarulata Pandya, Nilima Tankhiwale, Prasad KSR, Kunal Kale. (2016)." Antibacterial activity of Krishna Tulasi (Ocimum tenuiflorum linn.)" Ayurpharm int j ayur alli sci., 5/11.
- 5. Harshal Kharkar, Kunal Kale, Prashant Thakare (2016) Molecular characterization of Pyricularia grisea isolates using AFLP-DNA fingerprinting. J pure and applied microbiology. Vol. 10(2), p. 1181-1188.
- 6. Kale K.A. and Thakare P.V, (2014)Rapid and simplified method for isolation of fresh leaves, herbarium, silica dried and tuber sample of medicinally important plant species found in Indian forest. IGERT, vol:3(3), 1490-1493,.
- 7. Kale K.A. and Thakare P.V., (2013)Genus Chlorophytum Ker Gawl: Medicinally important plant from ancient Indian literature (Ayurveda).IJAHM, 3:3, 1201-1211.
- 8. Thakare. P.V. and Kale K.A., (2014) A molecular phylogeny of Chlorophytum species using chloroplast trnLT and AFLP analysis. Biodiversity: The inventory value and benefits of life." (Advances in biotechnology and bioinformatics book series).

Ms. Komal S. Dhumane

1. Studies on Isolation and Characterization of Plant Growth Promoting EndophyticAzospirillum from Roots of Wheat Plant (Triticum aestivum) of Semiarid Soil of Wardha District, Maharashtra. S. S. Khandare, K. S. Dhumane, M.G. Ingale. JETIR (2019) 6 (6): 990-1000. (IF: 5.87).

Books/Book Chapters published:

Dr. Ulka. A. Malode (Bidwai)

1. DNA Bar Code: - New Approach for Conservation of Biodiversity.Kunal Kale, Pratiksha Pohekar,Ulka Malode-Bidwai.Chapter in 1 st volume of peered reviewed Edited Book 2021Innovative research trend in Science and Humanities. INSC Publishing House(IPH) Pushpagiri Complex, Beside SBI Chikkamagaluru Karnataka.

Dr. Kunal A. Kale

- Kunal Kale and Prashant Thakare Genus ChlorophytumKerGawl.: Ancient medicinal plant from Indian hills. (Book r) accepted in book "Medicinal and Aromatic plants-Exploration and utilization". (Estern Book house publication). SBN 10: <u>9383252154</u>/ISBN 13: <u>9789383252152</u>
- 2. DNA Bar Code: New Approach for Conservation of Biodiversity.Kunal Kale, PratikshaPohekar,Ulka Malode-Bidwai.Chapter in 1 st volume of peered reviewed Edited Book 2021Innovative research trend in Science and Humanities. INSC Publishing House(IPH) Pushpagiri Complex, Beside SBI Chikkamagaluru Karnataka.

Facilities:

UG Laboratory:







UG Laboratory 44" X 26"



Instrumentation Area



Plant Tissue Culture Laboratory



Proper Disposal of Microbial Culture

Departmental Library:



Sophisticated Major Instruments:

SR. NO.	NAME OF THE INSTRUMENTS	QUANTITY
1.	Incubator	02
2.	Oven	01
3.	Microscope	03
4.	Gel Electrophoresis	01
5.	Micro centrifuge	02
6.	High Speed Homogenizer	01
7.	Chromatography Chamber	01
8.	Deep freezer	01
9.	Transilluminator	01
10.	Water Bath Shaker	01
11.	Cooling Centrifuge	01
12.	Rotor Head	01
13.	Orbital Shaking incubator	01
14.	Microscope Olympus	05
15.	Autoclave	02
16.	Electronics Top Pan Balance	01
17.	Angle Head	01

18.	Digital colorimeter	02
19.	Electronics Digital Potentiometer	01
20.	Digital Conductivity Meter	01
21.	Heating Mantle	01
22.	Vortexes	01
23.	Microwave Oven	01
24.	Microtome	01
25.	Vertical Electrophoresis Assembly	01
26.	Gel Rocker	01
27.	Vertical Laminar Air Flow	01
28.	Microscope Olympus	03
29.	Digital pH Meter	01
30.	Magnetic Stirrer	01
31.	Binocular Microscope	03
32.	Water Bath	01
33.	Binocular Microscope	01
34.	Weighing Balance	02
35.	Refrigerator Vertical 457 Lit.	01

Extracurricular Activities:

- Department of Biotechnology, Bajaj College of Science, Wardha, organized Online National Level Slogan Competition on "Corona Warriors" to commemorate "Independence Day 2020" on 15th August 2020. Winners of first, second and third prize are Miss. Megha B. Lakhe, Miss. Shivani R. Satone, Miss. Kajal Mendhe, However, Adv. Ajay U. Bhakt and Surekha Dubey got consolation prize.
- Miss. Bhargavi Deshpande from Dept. of Biotechnology participated in Online University Level Intercollegiate Speech Competition on Topic: Swami Vivekanand-Youth Inspiration on 16th April 2022 organized by Student Council of Randhirsingh Bhadoriya Mahavidyalaya, Umred.
- Students of Department of Biotechnology presented skit on "Application of Biotechnology field for betterment of Human Life" on the occasion of "76th Independence Day- Azadi Ka Amrit Mahotsav" on 15th August 2022. The objective of organizing this activity was to make junior college and first year students aware of the application of biotechnology in various fields for the betterment of human life and to motivated students for selection of biotechnology as a carrier option.

Co-curricular Activities:

Department of Biotechnology organized a Guest Lecture on "Entrepreneurship and Career Opportunities in Biotechnology" and "Waste Management Practices" by Dr. Ashish Polkade, Director, Vision Ecological Pvt. Ltd., Pune on 20th July 2019.

- Department of Biotechnology organized one day workshop on "Basic Techniques in Bioinformatics" for M.Sc. and B.Sc. students of Bajaj College of Science by Dr. Kunal A. Kale, faculty Department of Biotechnology on 13th August 2019.
- Department of Biotechnology organized "Biotechnology Open-Day" activity that was held on 28th September 2019, under the guidance of the Principal, Dr. Om Mahodaya and coordinator, Department of Biotechnology Dr. Ulka Malode and faculty Dr. Kunal Kale and Dr. Anchal Rathi take efforts for the success of the event. The main objective of this event was to spread the knowledge of biotechnology among junior college students.
- Dr. Kunal A. Kale, Assistant professor, Department of Biotechnology BSCW, was invited as a Guest Speaker for 2 days Workshop on "Drvya – 2019". The Workshop was focused on Identification and standardization of Medicinal Plants in researches of "Ayurveda" at Mahatma Gandhi Ayurveda Medical College, Hospital & Research Institute, Salod, Wardha on 20th and 21st December 2019.
- Department of Biotechnology has organized one day workshop on 5th March 2020. Dr. Kunal Kale faculty of Department of biotechnology gives hands on "Methodology and Application of Restriction Enzyme Based Technology". Total 22 students of PG Department of Botany benefited by this workshop.
- "Online Departmental Seminar Competition" on UG Biotechnology Curriculum of Sem III and Sem V on 5th September 2021, Total 24 students were participated in Seminar Competition from B.Sc. IIIrd and Vth semester. Participant's videos were evaluated by committee of jury. The members of jury committee were Dr. Y. S. Patil (Asst. Prof. Dept. of Microbiology, DM. Burungale Science and Arts College, Shegaon) and Dr. Pranita Gulhane (PG Department of Microbilogy, Shri. Shivaji Science College, Nagpur). Winners of first, second and third prizes were Aniket Vitalkar, Aishwarya Chandankhede and Angha Makode from BSc. Semester III and from B.Sc. Semester V winners were Shweta Magar, Krutika Panbude and Akshit Chamke. The objective of Competition was, to boost up students confidences and motivated students for participation in co-curricular and extracurricular activity.
- "How to Prepare effective e-Poster and Abstract" by Dr. Kunal A. Kale, on 25th October 2021 for B.Sc. IInd and IIIrd year Biotechnology students. Total 51 students participated (19 online and 32 offline). The objective of lecture was to increase the understanding of student regarding Designing of scientific poster and Scientific Poster presentation.
- Ten students of Dept. of Biotechnology successfully completed 15 days online certificate course and internship programme on "Computer Aided Drug and Vaccine Design" organized by Institute of Innovation Triuvannamalai, Tamilnadu, India held from 29th January to 12th February 2022.
- Department of Biotechnology, Bajaj College of Science, Wardha organized "Biotechnology Orientation Programme and Vaccine Awareness Poster Exhibition" to aware the students about Department of Biotechnology and enhance understanding regarding importance's of vaccination. This event was inaugurated on 29th August 2022

in the UG Department of Biotechnology at the hands of Principal, Dr. Om Mahodava, Bajaj College of Science, Wardha under auspicious presence of Dr. P. V. Tekade, Head of Department Chemistry and Convener RICH Club, Bajaj College of Science, Wardha under able guidance of Convenor of the event Dr. Ulka Malode –Bidwai and Coordinator of the event Dr. Kunal A. Kale, Ms. Komal S. Dhumane and Ms. Kranti Bamnote.

- Department of Biotechnology, Bajaj College of Science, Wardha organized "Biotechnology Open Day" to aware the students regarding Biotechnology as a career option and enhance understanding regarding cutting-edge experiments and equipment handling. This event was inaugurated on 17th September 2022 in the UG Department of Biotechnology at the hands of Officiating Principal, Dr. P. V. Tekade, Bajaj College of Science, Wardha under auspicious presence of Shri. S. E. Nakhale, Vice- Principal, Junior College, Bajaj College of Science, Wardha under able guidance of Convenor of the event Dr. Ulka Malode –Bidwai and Co-ordinator of the event Dr. Kunal A. Kale and Miss Komal S. Dhumane. Students of Biotechnology Department demonstrated ELISA, Thin Layer Chromatography, Plant Tissue Culture, *etc.* In all, 200 students and faculties from junior and senior college were benefited by this "Biotechnology open day".
- Department of Microbiology and Biotechnology organized Model Competition on the occasion of Birth Anniversary of Dr. Har Gobind Khorana on 19th January 2023.
- State Level Student Seminar Competition, Scintillation' 23 on 24th February 2023 in the stream of Microbiology and Biotechnology Subject organized by Bajaj College of Science, Wardha.

Industry-Academic Interaction:

Department of Biotechnology has organized a "Educational Tour" under the guidance of Principal, Dr. Om Mahodaya and Coordinator, on 8th January 2020. Total 50 B.Sc. students along with Coordinator, Department of Biotechnology Dr. Ulka Malode and faculty, Dr. Kunal Kale and Dr. Anchal Rathi and non-teaching staff Shri. Kiran Badwaik and Mrs. Smita Gaikwad visited Forensic Science Laboratory, Institute of Science, Ankur Seeds, Nagpur. This Educational tour helps students to upgrade their knowledge in respective subject. This visit changes their perspective towards research, opportunities in the field of Biotechnology.

Social Outreach Programmes/ Workshops:

- Dr. Ulka A. Malode delivered a popular talk on "Importance of Swachata (Clean India, Green India), Current status of Plastic Usage among India" under the banner Cleanliness Drive to NSS Students held on 18th September 2019.
- The Department of Biotechnology, Bajaj College of Science, Wardha in association with Jankidevi Bajaj Gram Vikas Sanstha, Wardha, organised a "Hemoglobin Detection Camp for Rural Women at Khangoan Tal. Hinganghat, Dist. Wardha". This event was organised on the occasion of Mata Jankidevi Bajaj Jayanti on 7th January. This event was inaugurated on 8th January 2021 in ZP school at the hands of Mrs. Jyoti Ghote, Sarpanch, Khangoan, Gram Panchayat under auspicious presence of all the members of Gram Panchayat Khangoan, under able guidance of Convenor of the event Dr. Ulka Malode –

Bidwai and Faculty Dr. Kunal A. Kale, Miss Komal S. Dhumane and Miss. Khushboo O. Parimal. Total 52 women benefited in this camp. The objective of camp was to detect hemoglobin level in rural area women's and aware them regarding symptoms and preventive major during low hemoglobin level.

- The Department of Biotechnology, Bajaj College of Science, in association with Jankidevi Bajaj Gram Vikas Sanstha, Wardha, organised a "Hemoglobin Detection Camp for Rural Women at Khangoan Tal. Hinganghat, Dist. Wardha". This event was organised on the occasion of Mata Jankidevi Bajaj Jayanti on 7th January. This event was inaugurated on 20th January 2021 in ZP school under auspicious presence of all the members of Gram Panchayat Madani, under able guidance of Convenor of the event Dr. Ulka Malode –Bidwai and Faculty Dr. Kunal A. Kale, Miss Komal S. Dhumane and Miss. Khushboo O. Parimal Mrs. Mridula Patil, Assistant Project Officer, Miss. Bhageshri Ingle and villagers from Madani. Total 105 women benefited in this camp. The objective of camp was to detect hemoglobin level in rural area women's and aware them regarding symptoms and preventive major during low hemoglobin level.
- The Department of Biotechnology, Bajaj College of Science, in association with Jankidevi Bajaj Gram Vikas Sanstha, Wardha, organised a "Workshop for ZP Teacher on Basic Techniques in Biotechnology Field" to make the Zila Parished teachers aware of the application of cutting-edge experiments in Biotechnology. This event was inaugurated on September 22nd, 2022 in the UG Department of Biotechnology at the hands of the Officiating Principal, Dr. P. V. Tekade, Bajaj College of Science, Wardha in the auspicious presence of Dr. V. Wanmali, Ex-Vice Principal, Junior College, Bajaj College of Science, Wardha under the able guidance of the convenor of the event, Dr. Ulka Malode-Bidwai, and Co-ordinator of the event, Dr. Kunal A. Kale, Miss Komal S. Dhumane. Students of the Biotechnology Department demonstrated and explained the applications of ELISA, Thin Layer Chromatography, Plant Tissue Culture, *etc.* The faculties and students of the Department of Biotechnology, Bajaj College of Science, Wardha, strove hard for the success of the events.

Recent Achievement of Students:

- 1. Miss. Ashwini Zade selected in RTM Nagpur University Basketball Team for Maharashtra State Krida Mahotsav (Ashwamedh) at Dapoli Dist. Ratnagiri
- 2. Miss. Dipali Mitkar Selected in RTM Nagpur University Baseball Team for All India Inter University Tournament at Rohatak.
- 3. Roshani Bhosale won 3rd Prize in inter cluster seminar competitions organized by Jankidevi Bajaj College of Science, Wardha on 18th August 2018.
- Mr. Anmol Sangitwar won Second Prize in Drawing competition on the occasion of "National Voter's Day" on 25th January 2019
- 5. Miss. Divya Kuratkar won 3rd Prize in poster Competition in International Conference on "Future Tech of Life Science" organized by S.K. Porwal College, Kamptee in association with Microbiologist Society of India on 14th and 15th February 2019.
- 6. Ms. Anam Sayyed has succesfully completed a project under the guidance of Dr. Sahil Akhtar CDRI, Luckhnow as a summer research fellow the Programme jointly

organised by IASc., Bangalore, INSA, New Delhi and NASI, Prayagraj during May to July 2019.

- 7. Ku. Achal Puri selected in Maharashtra State Team for National Ball Badminton Championship at Erode, Tamil Nadu on 11th to 15th August 2018.
- 8. Bhupendra Kangale selected in RTM Nagpur University Water Polo Team for Inter University Tournament at. Bangalore on 28th to 31th October 2018.
- Ku. Kalyani Badhiye selected in RTM Nagpur University Football Team for Inter University Tournament at. I.T.M. University, Gwalior on 29th November 2018 to 2nd January 2019.
- Ku. Kalyani Badhiye selected in RTM Nagpur University Ball Badminton Team for Inter University Tournament at. Krishna University, Vijayawada on 9th to 13th January 2019.
- 11. Ms. P. Kewate, Ms. A. Charode, Ms. S. Zade, Ms. N. Bhagat, Ms. N. Bhagat, Ms. K. Mendhe and ,Ms. P. Salwe won 3rd prize in the Rangoli competition on "Immunology", organized by "Microbiologist Society of India" on 16th September 2019.
- 12. Ms. Roshani Bhosale, Ms. Lakshmiparvati Gharpure and Ms.Firdos Nasrin Abu Salam Shaikh won 2nd prize in a poster competition organized by "Microbiologist Society of India", Department of Microbiology, Bajaj College of Sciences, Wardha, on 17th September 2019.
- 13. Miss. Divya Kuratkar won 3rd Prize in poster Competition in International Conference on "Future Tech of Life Science" organized at S.K. Porwal College, Kamptee in association with Microbiologist Society of India on 14th and 15th February 2020.
- 14. Laxmiparvati Gharpure has participated and got a Consolation prize in the E-Poster event a National virtual Contest entitled "How to be eco-friendly during Corona virus crisis: Going green in lockdown" organized by Biology Society on the occasion of "World Environment Day" on 05th June 2020.
- 15. Ku. Kalyani Badhiye Select in Rashtrasant Tukdoji Maharaj Nagpur University Netball Men Team. For Inter University Tournament at Annamalai University Andrapradesh on 13th to 16th February 2020.
- 16. Miss. Jhaveriya Qureshi selected in Rashtrasant Tukdoji Maharaj Nagpur University Sepak Takraw Women Team for Inter University Tournament at. Bareli MJP Rohilkhand University (17th to 19th February. 2020).
- 17. Vijaysingh Tomar Selected in Rashtrasant Tukdoji Maharaj Nagpur University Sepak Takaraw Women Team for Inter University Tournament at. Bareli MJP Rohilkhand University on 19th to 23rd February 2020.
- 18. Ms. Kajal Mendhe has won Third Prize in Online National Level Slogan Competition on "Corona Warriors" organized by Department of Biotechnology, Bajaj College of Science, Wardha, to commemorate "Independence Day 2020" on 15th August 2020.
- Mr. Atharva Bhingare won Second Prize in "Innovative Idea /Concept competition for student organized by research promotion cell, Bajaj College of Science, Wardha on 20th November 2021.
- 20. Mr. Laukik Thakre won First Prize in Online National Level Essay Writing Competition organized by Cultural Committee, Bajaj College of Science, Wardha on the occasion of "International Youth Day" on 12th January 2022.

- 21. Miss. Rimzim Ravindra Karode, won First Prize in Online National Level Solo Dance Competition organized by Cultural Committee, Bajaj College of Science, Wardha to commemorate, 73rd Republic Day "Azadi ka Amrit Mahotsav on 26thJanuary 2022.
- 22. On the occasion of National Science Day 2022 on 2nd March 2022 Department of Microbiology and Computer Science of Dharampeth M.P. Deo Memorial Science College, Nagpur organized video making competition on 2nd March 2022. Sanika Golait got 2nd prize for "Radioactive Waste Management " and Aniket Vitalkar got consolation prize for "Strategies for Sustainable Agriculture Waste" that they get felicitated by Principal Dr. Om Mahodaya. Theme of the competition was "Integrated approach in Science and Technology for sustainable future". For this competition eight students were participated under the able guidance of Co-ordinator Dr. U A. Malode and Dr. K A. Kale from Department of Biotechnology, Bajaj College of Science, Wardha.
- 23. Ms. Kiran Tajane participated and won Third Prize in "Rangoli Competition" organized by Cultural Committee, Bajaj College of Science, Wardha to commemorate 76th Independence Day- "Azadi ka Amrit Mahotsav on 15th August 2022.
- 24. Ms. Nubesha Pathan won Second Prize in "Online Poster Competition" under Microbiology Week "MICROMANIA" organized by Department of Microbiology in association with Research Innovation Curriculum Hour (RICH) Club, Bajaj College of Science, Wardha on 23rd August 2022.
- 25. Ms. Khushboo Nimje and Ms. Dipali Awachat won First Prize and Pradunya Kumbhare won Second Prize in "Quiz Competition: The Right Guess (UG)" under Microbiology Week "MICROMANIA" organized by Department of Microbiology in association with Research Innovation Curriculum Hour (RICH) Club, Bajaj College of Science, Wardha on 24th August 2022.
- 26. Ms. Khushi Deogade, Ms. Siddhi Borikar, Ms. Sakshi Warwatkar and Ms. Thritee Bhagat won First Prize in "Fermented Food Competition and Expo" under Microbiology Week "MICROMANIA" organized by Department of Microbiology in association with Research Innovation Curriculum Hour (RICH) Club, Bajaj College of Science, Wardha on 25th August 2022.
- 27. Ms. Sampada P. Udepurkar qualified inter college final screening test of Rainbow 2022 and won Second Prize in "Classical Dance Competition" organized by Student Development Cell, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur on 27th to 28th September 2022 at Yashwant Mahavidyalaya, Wardha.
- 28. Ms. Khushi Deogade won 1st Prize and Mr. Atharva Bhingare won 2nd Prize in Model Competition on occasion of Birth Anniversary of Dr. Har Gobind Khorana organized by Department of Microbiology and Biotechnology, Bajaj College of Science, Wardha on 19th January 2023. For this competition total 8 students were participated from Department of Biotechnology, Bajaj College of Science, Wardha.
- 29. Mr. Aniket Vitalkar, Ms. Simran Thool and Ms. Khushi Deogade Participated in District and University Level Selection Trial of Avishkar Research Convention 2022-23 organized by Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur on 16th to 17th December 2022 at Dadasaheb Balpande College of Pharmacy, Dham Mandir, Besa, Nagpur.

- 30. Ms. Khushi Deogade won Consolation Prize in Poster Presentation in National Conference on Biotechnology for Better Tomorrow at Tayawade College, Koradi, Nagpur on 22nd to 24th January 2023.
- 31. Ms. Aaliya Sayyad won 2nd Prize and Ms. Sakshi Nimje won 3rd Prize in Mehendi Competition, Ms. Rimzim Karode won 3rd Prize in Art Exhibition, Ms. Sampada Udepurkar won Consolation Prize in Dance Competition, Ms. Bhargavi Deshpande won 2nd Prize in Carrom and Ms. Aishwarya Chandankhede won 3rd Prize in Carrom, Mr. Ayush Bajpayee won 3rd Prize in Badminton, Mr. Aditya Kewate won 2nd Prize in Carrom, Mr. Ayush Bajpayee and Mr. Aditya Kewate won 2nd Prize in Volleyball (Boys Team), Mr. Aditya Kewate won 2nd Prize in Cricket (Boys Team), Mr. Shishir Gongade, Mr. Ayush Bajpayee and Mr. Kartik Sontakke won 1st Prize in Volleyball (Boys Team), Ms. Khushboo Nimje and Ms. Vaishnavi Chaware won 1st Prize in Volleyball (Girls Team), Ms. Sakshi Thakre won 3rd Prize in Volleyball (Girls Team) on Youth Fest 2023 (Yugam 2023) organized by Bajaj College of Science, Wardha (Autonomous) on 23rd to 25th January 2023.
- 32. Ms. Siddhi Borikar won 2nd Prize in State Level Golden Jubilee Research and Innovation Festival, Shodhotsav- 2023 for Level III in Category of Commerce and Management organized by Brijlal Biyani Science College, Amravati on 16th February 2023. For this competition total 3 students were participated from Department of Biotechnology, Bajaj College of Science, Wardha.
- 33. Ms. Khushi Deogade won 2nd Consolation prize in State Level Student Seminar Competition, Scintillation' 23 in stream Microbiology and Biotechnology at Bajaj College of Science, Wardha on 24th February 2023.
- 34. Ms. Sanika Ingole won 1st Prize and Ms. Simran Thool won Consolation Prize in Y20 District Level Poster Competition on Future of Work: Industry 4.0, Innovation and 21st Century Skills organized by Bajaj College of Science, Wardha on 27th February 2023. For this competition total 8 students were participated from the Department.
- 35. Ms. Sanika Ingole represents Wardha Dist. for Youth-20 Consultation on Theme Peacebuilding and Reconciliation- Ushering in an era of on war: The Philosophy of Vasudhaiva Kuttumbakam at Symbiosis International University Campus Lavale, Pune on 10th to 11th March 2023.

Recent Achievements of Faculty:

- 1. Coordinator of the Department Dr. U. A. Malode nominated as member of Board of Studies in Microbiology Subject, RTM Nagpur University, Nagpur.
- 2. Faculty of the Department Dr. Kunal A. Kale Received National Biotech Award 2023 for significant excellent, and outstanding contribution to the field of Biotechnology as a Bioentrepreneur on the occasion of National Conclave, 2023: Industry-Academia Meet for Student of Rural and Urban India on Bimake in India organized by Krishna Institute of Allied Sciences, KVV, Karad in collaboration with Microbiologist Society, India on 20th May 2023

Departmental Society:

Microbiology- Biotechnology Society:

The purpose of the formation of society by students is to provide platform for them to explore their ideas related with subject. The society organizes various activities like guest lectures, poster competition, wall magazine, educational tours etc. Students arrange guest lecturers of eminent personalities. This society helps to develop the leadership qualities among the student. Department of Microbiology in collaboration with Microbiologist Society, India, organized different activities for the students of UG and PG like National Level Poster competition, Scientific Rangoli competition, Essay Competition and "Fermented Food Exhibition/Competition. Students participated in all these activities and come up with flying colours. Prof. Incharge of this society is Dr. Ulka Malode.

Inauguration of Microbiology Biotechnology Society Student Unit for the session 2020-21 and guest lecture

The Microbiology Biotechnology Society Student Unit for the session 2020-21 has been inaugurated online on Saturday, 30th January 2021 at 10.30am. The programme was chaired by Dr. Om Mahodaya, Principal, Bajaj College of Science, Wardha. Dr. A. M. Deshmukh, President, Microbiologist Society, India (MSI) has addressed the students. The introductory speech was delivered by Dr. Mrs. S. S. Khandare, HOD, Department of Microbiology. She introduced the office bearers of the Microbiology Biotechnology Society Student Unit for the session 2020-21. On this Occasion Dr. Sanjeev Patankar, Ex Principal, SS Jaiswal College, Arjunimor, Dist. Gondia and President, MSI, Maharashtra and Goa region delivered a guest lecture on the topic "Nutritional Immunology & its Possible Role in COVID-19 Like Infections" Total 86 undergraduate and Postgraduate students along with Microbiology and Biotechnology faculty members were present for the programme. The vote of thanks was given by Dr. Ulka Malode-Bidwai, Coordinator, Biotechnology Department.

Inauguration of Microbiology Biotechnology Society Student Unit for the session 2021-22

Department of Biotechnology and Microbiology in association with Microbiologist Society of India (MSI) has Inaugurated "Microbiology Biotechnology Society students Unit" on 1st February 2022 by the hand of Dr. A.M. Deshmukh President Microbiology Society, India, in presences of Principal, Dr. Om Mahodaya, Dr. Sanjeev Patankar, President, Microbiologist Society, Maharashtra-Goa Region. Followed by guest lecture on "Next Generation Sequencing: A vital tool in disease diagnosis and pandemic management" by Dr. Rahul C. Bhoyar, Project Scientist, CSIR, institute of genomics and integrative Biology New Delhi. Total 95 students and faculties of departments benefited with this lecture.

Event Gallery:



Students of Department of Biotechnology presented skit on "Application of Biotechnology field for betterment of Human Life" on 15th August 2022



Guest Lecture on "Entrepreneurship and Career Opportunities in Biotechnology" and "Waste Management Practices" by Dr. Ashish Polkade on 20 July 2019.



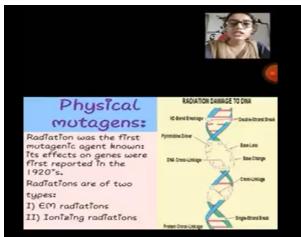
One day workshop on Basic Techniques in Bioinformatics by Dr. Kunal A. Kale, on 13th August 2019



Biotechnology Open-Day" on 28th September 2019



Dr. Kunal A. Kale invited as a Guest Speaker for 2 days Workshop on "Drvya"2019 at Mahatma Gandhi Ayurveda Medical College, Hospital & Research institute, Salod, Wardha on 20th and 21st Dec. 2019.



Online Departmental Seminar Competition on UG Biotechnology Curriculum of Sem III and Sem V on 5th September 2021



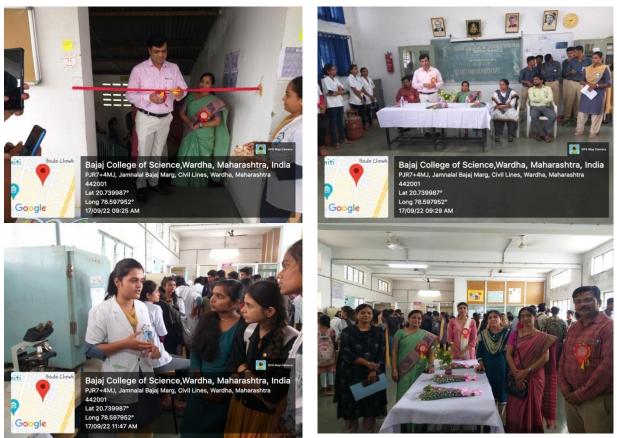
Department of Biotechnology, Bajaj College of Science Wardha Organised lecture on "How to Prepare effective e-Poster and Abstract" by Dr. Kunal A. Kale on 25th October 2021.



Institute of Innovation Triuvannamalai, Tamilnadu India organized 15 days certificate course and internship on "Computer Aided Drug and Vaccine Design"during 29th January to 12th February 2022.



Biotechnology Orientation Programme and Vaccine Awareness Poster Exhibition on 29th August 2022



Biotechnology Open Day on 17th September 2022



Educational Tour on 8th January 2020



Dr. Ulka A. Malode delivered a popular talk on "Importance of Swachata (Clean India, Green India), Current status of Plastic Usage among India" on 18th September 2019



Hemoglobin Detection Camp for Rural Area women's at Khangoan Tal. Hinganghat on 8th January 2021



Hemoglobin Detection Camp for Rural Area Women's from Madani Tal. Seloo, Dist. Wardha on 20th January 2021



Workshop for ZP Teacher on Basic Techniques in Biotechnology Field on 22nd September 2022



Department of Microbiology and Biotechnology organized Model Competition on 19th January 2023.



State Level Student Seminar Competition, Scintillation' 23 on 24th February 2023 in the stream of Microbiology and Biotechnology Subject organized by Bajaj College of Science, Wardha



Roshani Bhosale won 3rd Prize in Inter Cluster Seminar Competitions on 18th August 2018



Ms. Diva Kuratkar won 3rd Prize in poster Competition in International Conference on "Future Tech of Life Science" 14th and 15th Feb 2020.



Mr. Anmol Sangitwar won Second Prize in Drawing competition on 25th January 2019



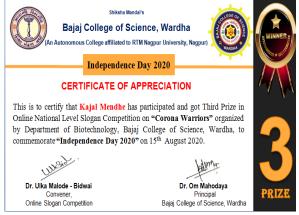
Miss Anam Sayyed has successfully completed a project under the guidance of Dr. Sahil Akhtar, CDRI, Luckhnow as a "Summer research fellow" on May-July 2019.



Ms. Laxmiparvati Gharpure and got Consolation prize in E-Poster event of National virtual Contest entitled "How to be eco-friendly during Corona virus crisis: Going green in lockdown" on 05th June2020.



Mr. Atharva Bhingare won Second Prize in "Innovative Idea/Concept Competition" on 20th November, 2021.



Ms. Kajal Mendhe has participated and got Third Prize in Online National Level Slogan Competition on "Corona Warriors" on 15th August 2020.



Mr. Laukik Thakre won First Prize in Online National Level Essay Writing Competition on 12th January 2022.



Miss. Rimzim Ravindra Karode, won First Prize in Online National Level Dance Competition 26th January 2022.



Sanika Golait won 2nd Prize and Aniket Vitalkar won Consolation Prize in Video Making Competition on 2nd March 2022



Ms. Kiran Tajane won Third Prize in "Rangoli Competition on 15th August 2022



Ms. Nubesha Pathan won Second Prize in "Online Poster Competition" on 23rd August 2022



Ms. Khushboo Nimje and Ms. Dipali Awachat won First Prize in "Quiz Competition: The Right Guess (UG)" on 24th August 2022.



Pradunya Kumbhare won Second Prize in "Quiz Competition: The Right Guess (UG)" on 24th August 2022.



Ms. Khushi Deogade, Ms. Siddhi Borikar, Ms. Sakshi Warwatkar and Ms. Thritee Bhagat won First Prize in "Fermented Food Competition and Expo" on 25th August 2022.



Ms. Sampada P. Udepurkar won Second Prize in "Classical Dance Competition" on 27th to 28th September 2022



Ms. Khushi Deogade won 1st Prize in Model Competition on 19th January 2023.



Mr. Atharva Bhingare won 2nd Prize in Model Competition on 19th January 2023.



Mr. Aniket Vitalkar, Ms. Simran Thool and Ms. Khushi Deogade Participated in District and University Level Selection Trial of Avishkar Research Convention 2022-23 organized by RTMNU, Nagpur on 16th to 17th December 2022



Ms. Khushi Deogade won Consolation Prize in Poster Presentation in National Conference on Biotechnology for Better Tomorrow on 22nd to 24th January 2023.



Ms. Aaliya Sayyad won 2nd Prize in Mehendi Competition- Yugam 2023 on 25th January 2023



Ms. Sampada Udepurkar won Consolation Prize in Dance Competition- Yugam 2023 on 25th January 2023



Ms. Bhargavi Deshpande won 2nd Prize in Carrom- Yugam 2023 on 25th January 2023



Ms. Aishwarya Chandankhede won 3rd Prize in Carrom - Yugam 2023 on 25th January 2023



Mr. Ayush Bajpayee won 3rd Prize in Badminton-Yugam 2023 on 25th January 2023



Ms. Rimzim Karode won 3rd Prize in Art Exhibition- Yugam 2023 on 25th January 2023



Ms. Siddhi Borikar won 2nd Prize in State Level Golden Jubilee Research and Innovation Festival, Shodhotsav- 2023 on 16th February 2023.



Ms. Khushi Deogade won 2nd Consolation prize in State Level Student Seminar Competition, Scintillation' 23 on 24th February 2023.



Ms. Sanika Ingole won 1st Prize in Y20 District Level Poster Competition on Future of Work: Industry 4.0, Innovation and 21st Century Skills on 27th February 2023.



Ms. Simran Thool won Consolation Prize in Y20 District Level Poster Competition on Future of Work: Industry 4.0, Innovation and 21st Century Skills on 27th February 2023.



Ms. Sanika Ingole represents Wardha Dist. for Youth-20 Consultation at Symbiosis International University Campus Lavale, Pune on 10th to 11th March 2023.



Department of Microbiology and Biotechnology in collaboration with Microbiologists Society India Organized Microbiology-Biotechnology Society Student Unit Inauguration and Guest Lecture on "Next-generation Sequencing: A vital tool in Disease Diagnosis and Pandemic Management" on 1st February 2022.