

Shiksha Mandal's
Bajaj College of Science, Wardha
(Autonomous)
Jamnalal Bajaj Marg, Civil Lines, Wardha (Maharashtra) 442001

**Report on Performance of the Institution
for the Academic Year 2022-23
By External Peer Team of IQAC**

Date of Visit : 15/05/2023

Submitted to



ज्ञान-विज्ञान विमुक्तये

**University Grants Commission (UGC) Bahadur Shah Zafar Marg,
New Delhi – 110002**

Shiksha Mandal's
Bajaj College of Science, Wardha
(Autonomous)

Jamnalal Bajaj Marg, Civil Lines, Wardha (Maharashtra) 442001

**IQAC-EXTERNAL PEER TEAM REPORT ON PERFORMANCE OF THE
INSTITUTION – ACADEMIC YEAR 2022-23**

Members of External Peer Team :

Dr. U. D. Gulhane Professor and Head, Department of Mechanical Engineering,
(Chairman) Bapurao Deshmukh College of Engineering, Sevagram, Wardha /
Director, Urvi Transformers, Wardha.

Dr. Dilip Gupta Director, Professor and Head, Department of Surgery, MGIMS,
(Member) Sewagram.

Date of Visit to the college : 15/05/2023

1.	Name of the College	:	Bajaj College of Science, Wardha
2.	Name of the Principal	:	Prof. P.V. Tekade
3.	Telephone / Fax / Email	:	Phone/Fax 07152-230515 Phone 07152-241696 Email : jbsciencewardha@yahoo.co.in
4.	Year of establishment	:	1962
5.	Whether private or government or University maintained	:	Private-Aided
6.	NAAC Accreditation	:	A Grade, CGPA 3.21 valid upto December 31, 2022. IIQA submitted on 22/12/2022 IIQA Approved on 15/02/2023 SSR submitted on 29/03/2023 DVV started – First clarification to be submitted by 9 th May 2023.
6.	Autonomous Status	:	UGC granted Autonomous status in the year 2017-18 valid upto April 30, 2023. Letter No. F.22-1/2017(AC) dated 06/04/2017. Application for Extension of Autonomy was submitted on 21/10/2022.
7.	Name of the Affiliating University	:	Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

8. Courses Offered :

UG – Bachelor of Science (B.Sc.)

Subjects / Group offered at UG level

Mathematics – Physics – Chemistry
Mathematics– Physics – Electronics
Mathematics –Physics – Computer Science
Mathematics –Electronics – Computer Science
Chemistry – Biotechnology – Botany
Chemistry – Biotechnology – Microbiology
Chemistry – Biotechnology –Zoology
Chemistry – Botany – Zoology
Chemistry – Microbiology – Botany
Chemistry – Microbiology – Zoology

PG – Master of Science (M.Sc.)

M.Sc. Botany
M.Sc. Chemistry
M.Sc. Microbiology
M.Sc. Zoology
M.Sc. Mathematics

Research (Ph.D.)

Ph.D. in Botany
Ph.D. in Chemistry
Ph.D. in Zoology
Ph.D. in Microbiology

Other short term courses run by college

Post Graduate Diploma in Clinical Research
Certificate Course in Statistical Analysis using R
Certificate Course in Herb and Herbal Products
Certificate course in Industrial Waste Water Management
Certificate Course in Clinical Laboratory Technology
Certificate Course in Nanoscience and Nanotechnology
Certificate Course in Vermicompost Technology
CPBFI – Certificate Program in Bannking, Finance and Insurance
Software based “Spoken tutorial program” which is being promoted by IIT, Mumbai
Computer Awareness Course
Communication English

9. Details of Teaching Staff

Category	Sanctioned			Total	Working			Total	Vacant			Total
	Prof.	Assoc. Prof.	Asstt. Prof.		Prof.	Assoc. Prof.	Asstt. Prof.		Prof.	Assoc. Prof.	Asstt. Prof.	
Aided	2	7	44	53	2	7	24	33	--	--	20	20
Non-aided	--	--	17	17	--	--	19	19	--	--	--	--
Others	--	--	--	--	--	--	--	--	--	--	--	--
Total	2	7	61	70	2	7	43	52	--	--	20	20

10. Details of Non-Teaching Staff

SN	Designation	Number
1	Superintendent	1
2	Head Clerk	1
3	Senior Clerk	1
4	Junior Clerk	2
5	Library Clerk	1
6	Laboratory Assistant	10
7	Laboratory Attendant	28
8	Library Attendant	3
9	Peon	3
10	Staff on Contract Basis	6
	Total	56

11. Students on Roll

S.No.	Course	Intake	Actual enrolment at present
1	B.Sc.	960	673
2	M.Sc. Botany	44	40
3	M.Sc. Chemistry	44	42
4	M.Sc. Microbiology	44	46
5	M.Sc. Zoology	44	38
6	M.Sc. Mathematics	44	33
7	Ph.D. in Botany	20	4
8	Ph.D. in Chemistry	20	3
9	Ph.D. in Zoology	20	
10	Ph.D. in Microbiology	20	--
11	Post Graduate Diploma in Clinical Research	25	--
12	Certificate Course in Statistical Analysis using R	30	15
13	Certificate Course in Herb and Herbal Products	30	22
14	Certificate course in Industrial Waste Water Management	50	54
15	Certificate Course in Clinical Laboratory Technology	20	20
16	Certificate Course in Nanoscience and Nanotechnology	15	11
17	Certificate Course in Vermicompost Technology	15	10
18	CPBFI – Certificate Program in Bannking, Finance and Insurance	40	39
19	Software based “Spoken tutorial program” which is being promoted by IIT, Mumbai	Students of B.Sc. II and M.Sc. II	491
20	Computer Awareness Course	All students of B.Sc. I	274
21	Communication English	All students of B.Sc. I	274

12. Results under Autonomy

RESULT SUMMER 2022 EXAMINATION

S.N.	Semester	Dist.	First Class	Second Class	Third Class	Appeared	Passed	Failed	% of Passing
1	B.Sc II	6	22	13	0	255	41	214	16.08
2	B.Sc IV	11	27	26	0	240	64	176	26.67
3	B.Sc. VI	15	63	52	0	250	130	120	52.00
4	M.S.c II (Botany)	0	0	0	0	24	0	24	0.00
5	M.S.c IV (Botany)	1	7	1	0	19	9	10	47.37
6	M.S.c II (Chemistry)	1	9	3	0	25	13	12	52.00
7	M.S.c IV (Chemistry)	1	13	2	0	23	16	7	69.57
8	M.S.c II (Microbiology)	2	7	3	0	26	12	14	46.15
9	M.S.c IV (Microbiology)	2	14	1	0	26	17	9	65.38
10	M.S.c II (Zoology)	0	2	1	0	21	3	18	14.29
11	M.S.c IV (Zoology)	2	13	2	0	22	17	5	77.27
12	M.S.c II (Matematics)	0	3	6	1	25	10	15	40.00
13	M.Sc. IV (Mathematics)	0	5	10	3	26	18	8	69.23

RESULT WINTER 2022 EXAMINATION

S.N.	Semester	Dist.	First Class	Second Class	Third Class	Appeared	Passed	Failed	% of Passing
1	B.Sc I	8	32	26	0	226	66	160	29.20
2	B.Sc III	4	27	28	0	224	59	161	26.34
3	B.Sc V	16	45	33	0	234	94	132	40.17
4	M.S.c I (Botany)	0	3	0	0	16	3	13	18.75
5	M.S.c III (Botany)	2	13	5	0	22	20	2	90.91
6	M.S.c I (Chemistry)	1	9	5	0	20	15	5	75.00
7	M.S.c III (Chemistry)	3	10	4	0	20	17	3	85.00
8	M.S.c I (Microbiology)	2	9	5	0	22	16	6	72.73
9	M.S.c III (Microbiology)	2	10	1	0	24	13	11	54.17
10	M.S.c I (Zoology)	0	4	4	0	19	8	11	42.11
11	M.S.c III (Zoology)	0	6	6	0	16	12	4	75
12	M.S.c I (Matematics)	0	3	2	1	16	6	10	37.50
13	M.S.c III (Matematics)	3	3	4	2	17	12	4	70.59

- The college has established IQAC from 6th January, 2000. The IQAC is constituted as per the guidelines of UGC & NAAC. The team observed the working of IQAC, its plans for quality improvement, monitoring mechanism, output of the activities, etc. The team has gone through the submitted IQA and SSR and inspected the records.

The structure of the IQAC for the session 2022-23 is---

S.N.	Name of the Member	Designation
1	Prof. P.V. Tekade, Offg. Principal	Chairman
2	Dr. C. D. Zanwar, Shiksha Mandal, Wardha	Member from Management
3	Dr. Dilip Gupta, Head, Department of Surgery, MGIMS, Sewagram	Member External PEER team
4	Dr. U.D. Gulhane, Prof. and Head, Department of Mechanical Engineering, B.D. Deshmukh College of Engineering, Sewagram Wardha.	
5	Dr. Vikas Chandra Choudhary, Senior Scientific Officer, MGIRI, Wardha	Member Nominee from Local Society
6	Dr. R.K. Sharma, Chief Advisor, Uttam Value Ltd. Bhugaon.	Member, Nominee from industry
7	Sh. Vaibhav Kashikar, Director, Ankur Seeds Pvt. Ltd. Nagpur.	Member, Alumni
8	Mr. Dilip Raghvan, Student B.Sc. Final.	Member, Student Representative
9	Dr. V. V. Shinde, HOD, Dept. of Electronics, Dr. S.S. Zade, HOD, Dept. of Mathematics Dr. Ms. S. S. Khandare, HOD, Dept. of Microbiology Dr. Ms. P. F. Dhabarde, HOD, Dept. of Botany Dr. P. A. Saudagar, Incharge, Dept of Computer Science Sh. N. A. Barwat, Dept. of Chemistry Dr. G. V. Lakhotiya, Dept. of Physics Dr. S. P. Biswas, Dept. of Zoology	Members from Faculty
10	Sh. G.S.Dhole, Superintendent	Administrative Officer
11	Dr. M.R. Chandrakar	Coordinator IQAC

13. IQAC Activities:

- The IQAC planned various curricular, teaching-learning, co-curricular, extracurricular, extension activities and best practices of the institution. List of activities of session 2022-23 are as follows:---

College Activities :-

- Received grant DST fund for improvement of S & T infrastructure in universities and higher educational institutions (FIST) program, 2022 . Grant Amount : 57 lakh, Tenure – 5 year.
- Received renewal of recognition as “Place for Higher Learning and Research” for the department of Chemistry and Botany. In this renewal letter intake for Ph.D. students is increased to 20 students each subject. Previously it was 10 students each subject.
- Received recognition as “Place for Higher Learning and Research” for the department of Zoology and Microbiology. Intake capacity 20 students each subject.
- Graduation Ceremony conducted on 19/11/2022.
- College has been awarded 2 star ranking for undertaking various activities prescribed by Institution Innovation Council, Ministry of Education, Govt. of India to promote Innovation and Start-up in Campus during the IIC calendar year 2021-22.
- Scintillation 2023 a State Level Students’ Seminar Competition was held on 24/02/2023. Total 120 students participated in the competition.
- District level Poster Competition on “Future of Work: Industry 4.0, Innovation & 21st Century Skills” was organized on 27/02/2023 as an activity under Y-20 and G-20.
- Various events were organized to celebrate National Science Day – a) Science Model Making Competition and Exhibition on 20/02/2023 b) Seminar on “Cloud Technology and Information Security on 20/02/2023 c) Wildlife Photograph Exhibition on 23/02/2023 d) Invited Lecture: “Energy Audit: Need of Today” on 25/02/2023 e) Poster presentation on Innovations in Science on 27/02/2023 f) Intra-College Quiz Competition on 28/02/2023
- Workshop on "IT Awareness and Office Skills for Supporting Staff" 19thSept. 2022.

Department of Biotechnology

- Biotechnology Orientation Programme and Vaccine Awareness Poster Exhibition was organized on 29/08/2022.
- Biotechnology Open Day was organized on 17/09/2022.
- A workshop for ZP Teachers on Basic Techniques in Biotechnology Field was organized on 22/09/2022 for ZP teachers.

Department of Botany

- Inaugurated Botanical Society on 06/09/2022.
- Excursion to Mushroom Farm was arranged on 07/09/2022 for PG students.
- “Trash to Garden” activity was carried out to celebrate wildlife week on 10/10/2022.
- Talk on CRISPR-CAS : A new tool for genetic engineering by Prof. Sujata Bhargava former Head and Professor, Botany Department, Savitribai Phule Pune University, Pune (17/12/2022).
- Department of Botany conducted workshop on herbs and herbal products with experts Dr. Pradeep Saudagar from MGSM College, Chopda, Dist. Jalgaon on 03/02/2023.

Department of Chemistry

- A workshop on Intellectual Property Rights (IPRs) and IP management for startup was held on 29/09/2022.
- A lecture on Intellectual Property Rights (IPRs) Day celebration was organized on 08/09/2022 for PG students.
- Hands on training on Gnomio cloud-ICT learning environment was organized on 20/09/2022 for UG students.

- Inter-collegiate Seminar Competition was organized on 22/09/2022 for UG and PG student.
- An orientation programme on Carrier Awareness was organized for UG students on 21/09/2022.
- To provide platform for the students to arrange different activities in Chemical society, "NET SET Guidance; Inauguration of Chemical society" was arranged on 20/09/2022 for UG and PG students arranged.
- Department of Chemistry in collaboration with Bharat Enterprises Company, Pune organized the 'Gas Safety Awareness Campaign' on 31/01/2023.

Department of Electronics

- Seminars for students were conducted in July 2022.
- Guest lecture on Cyber Awareness by Shri. Mahendra Ingale, Asst. Police Inspector, Cyber Cell, Wardha on the occasion of celebration of "Azadi Ka Amrit Mahotsav" was organized for teachers and students on 13/08/2022 by department of electronics and computer science.

Department of Mathematics

- NET SET guidance by Prof G.L. Waghmare was organized for PG students on 20/07/2022.
- Guest Lecture by Prof R.K Agrawal was arranged for UG students on 20/07/2022.
- Competitive exam guidance by Prof Bhake was arranged for UG students on 20/07/2022.
- Students seminars were conducted on 27/08/ 2022 for UG and PG students.
- National Mathematics Day will be celebrated on 22/12/2022 and lectures will be organized.

Department of Physics

- A workshop on "Start up Plans : Legal and Ethical Steps" was organized on 15/07/2022 in collaboration with IIC.
- "Hands on activity : Telescope making" is in process. Students and department have the plan of fabricating and selling of telescopes.
- Poster making competition was organized on 30/08/2022 for second year UG students of Physics.
- An excursion tour to Raman Science Center was organized for second year UG students of Physics on 27/09/ 2022.
- Workshop on Applications of Geogebra in Physics by Dr. Vijay Deshmukh , BIT Wardha was organized on 10 and 11/02/2023.

Department of Microbiology

- Seminar Competition on World Rabies Day and Death anniversary of Scientist 'Louis Pasteur' was organized on 28/09/2022.
- Guest lecture on "Career opportunities after post Graduate Diploma in Clinical Research" by Dr. Supriya, Indian Institute of Clinical Research and Management, Nagpur. (15/12/2022)
- Model Competition on the occasion of the birth anniversary of Dr. Har Gobindsingh Khorana was organized by the department of Microbiology in association with IIC on 19/01/2023.

Department of Zoology

- Weekend Science Talk was organized in association with Bajaj Science Center, Wardha on 11/09/2022 for UG, PG and school students on the topic *Drosophila* a versatile model system by Dr. Kanchan Pathak.
- Wild life week (1st to 7th October) was celebrated. Post card painting competition on 'Wild Life' was organized for UG and PG students. On 4th October (World animal day and wild life week) Guest lecture by Mr. Rupesh Khedkar RFO, Wardha was organized on the topic mitigation of human wild life conflicts.
- Model making competition, poster competition and rangoli competition was organized by department of Zoology on 28/02/2023 on the occasion of National Science day.
- State level Biogenius competition organized on 14 /3/ 2023.

Department of Languages

- Guest lecture on awareness about “Rajbhasha Hindi” by Dr. Anil Dubey, MGAH University, Wardha was organized on 14/09/2022.
- Marathi Bhasha Gaurav Diwas celebrated on 28/02/2023.

Library

- Library orientation and book reading activity was conducted on the occasion of Librarian day on 12/08/2022.
- To create awareness about library Resources and to develop reading habit among students “Library Orientation and Book Reading” activity was organized on 08/09/2022 for newly admitted UG students.
- To create awareness about Innovation in Science and Technology “Educational Film Screening” was organized on 09/09/2022 for PG students.
- “Library Orientation for PG Students” was organized on 12/09/2022 for students and staff.
- A book exhibition was organized in Library on 07/02/2023.

RICH Club :

- A guest lecture on “Incubation Opportunities for Students and Faculties” by Dr. Abhay Deshmukh, RTM University Incubation Center, Nagpur was organized for UG and PG students on 09/07/2022.
- Quiz Competition "The Right Guess" under "Micromania 2022" was organized for UG students on 24/08/2022 in association with RICH club.
- Fermented Food Fest Competition and Expo was organized on 25/08/2022 for UG and PG students in association with RICH club.
- ‘Elocution Competition’ for UG and PG students on the occasion of International Tiger Day on 29th July. 2022.
- Participation of four students in “Intercollegiate online poster competition on creating awareness about COVID-19” organized by Department of Microbiology, Sathaye College in association with Microbiologists Society, India on 21st Aug. 2021 in which Ms.Javeria Qureshi from BSc Sem V got Second Prize.
- Online Poster Competition and Exhibition under "Micromania 2022" on 23rd Aug. 2022.

Extra-curricular Activities :

- Painting/Poster competition was organized to celebrate Minority Rights Day on 18/12/2022.
- One student represented Shiksha Mandal in Kamalnayan Bajaj Memorial Natinal Elocution Competition 2023 in Hindi category.
- College day program ‘YUGAM 2023’ celebrated from 24th to 25th January 2023.

Extensioin Activities :

- NSS camp held at ‘Amgaon’ from 16th January to 20th January 2023.
- On the eve of women's day, Alumni Association of Bajaj College of Science, Wardha in association with Women's Cell and Centre for Women Studies and Services (CWSS) celebrated International Women's Day by organizing "Anemia Detection Camp" and A talk on "Breast Cancer and Cervical Cancer Awareness" by Dr. Surekha Tayade on 2nd March 2023 at Gandhi Memorial Hall. All PG students participated in the program.
- Students painted the walls of the NCC department. ‘Amar Jawan Shradhanjali Sthal’ is built in front of the NCC department.

Teacher’s Achievements

- Dr. Akhil Nakhate, department of Chemistry won the ‘Best Poster Presentation Prize’ in International Conference organized by ICT, Mumbai, Campus Jalna on 10 and 11/J/2023.
- Dr. U.A. Malode, department of Microbiology is nominated as a member of BoS in Microbiology of RTM Nagpur University, Nagpur.

- Shri. Mayur Ingale, department of Microbiology got 1st Prize in Poster Presentation at Interdisciplinary National Conference on Biodiversity and Wildlife Conservation through tribes of India organized by Ambedkar College of Arts, Commerce and Science, Chandrapur on 27 and 28/1/2023.

Students' Achievements

- Mr. Aditya V. Bhaskarwar from MSc Microbiology qualified CSIR NET LS and GATE.
- Ms. Ayushi D. Chaudhari qualified CSIR NET JRF.
- Ms. Shreya N. Patil and Mr. Tejas Dhepe (BSc III) qualified IIT-JAM (Biotechnology)
- Mr. Praful Kalwade qualified CSIR NET in December 2022.
- Shri. Dilip Raghawan qualified GATE in March 2023.
- Mr. Mayank Khandagale attended International camp for leadership under Ananta ASPN Emerging Leaders Fellowship.
- Two students, Ms. Simran Thool (BSc II) and Mr. Aniket Vitalkar (BSc II) were selected for 2nd round for oral presentation in RTM University level Inter District level Screening for Avishkar. (16,17/12/2022)
- Miss. Pornima Daf, Miss. Dipali Awachat, Miss. Rutuja Kadu, Mr. Sachin Goswami participated in intercollegiate Essay Competition, Randhirsingh Bhadoriya Mahavidyalaya, Umred 12 /1/2023.
- Mr. Anurag Lokhande bagged Second Prize in Intercollegiate power point presentation competition Dharampeth M.P. Deo Memorial Science College, Nagpur on 23/02/2023.
- Miss. Rutuja Matey won first prize in pure science at PG level while Miss. Siddhi Borikar UG Level 2nd Prize in Agriculture and animal husbandry at Shodhotostav at Biyani College, Amravati. On 16/02/2023.
- B.Sc. Final year Microbiology students team won the 4th rank at 21st National Level Microbio Olympiad Quiz Competition held on 20/02/2023 at Government Institute of Science, Aurangabad among the 97 colleges throughout the country. The winning team includes Ms. Anushka Ingale, Ms. Mansi Shambharkar, Mr. Pranav Ghavghave.
- Students of B.Sc. participated in VUPTA Seminar Activity at S S Jaiswal College , Arjuni Morgaon on 20 and 21/02/2023. Miss. Purva Pandavkar (B.Sc. Sem 4) and Mr. Arpit Jiwane (B.Sc. Sem 4) bagged Second Prize in Poster Competition. Miss. Purva Muley (B.Sc. Sem 6) bagged 2nd Prize while Miss. Disha Sojrani (B.Sc. Sem 4) bagged 3rd Prize in Seminar Competition. Mr. Roshan Fukat (B.Sc. Sem 4) bagged 1st prize in Elocution Competition.

Students' Achievements - Sports

- Ms. Tejshwini S Yunathe, B.Sc. II have been selected to represent Rashtrasant Tukadoji Maharaj Nagpur for the All India Inter-University Ball-Badminton Women championship held at Chennai from 27/01/2023 to 30/01/2023.
- Mr. Yash Shirke, Ddhiraj Shingade of B.Sc. I and Abhishek Sonowane of BSc. II participated in the inter-collegiate WUSHU (men) tournament under RTMNU Nagpur on the 27 & 28 /1/2023.
- Mr. Vijaysing Tomar, M.Sc. Zoology participated in the Sepaktakraw game in Mini Olympic 2022-23 held at Nagpur from 05 to 8/1/023 and secured Gold Medal in the REGU event and a Silver medal in the REGU team event.
- Mr. Aryan Kapse, B.Sc. I have been selected to represent Rashtrasant Tukadoji Maharaj Nagpur for the All India Inter-University Ball-Badminton Men championship held at Manglore from 13/01/2023 to 17/01/2023.
- Prajkta G. Bhalavi (B.Sc. II) student of our college has selected to represent. Rashtrasant Tukdoji Maharaj Nagpur University All India Handball Women Team in all India inter university Championship to be held at Cochi Organized by Mahatma Gandhi University on dated 21 Feb. to

25th Feb. 2023.

Students' Achievements – Others

- B.sc. II year student Mayank Khandagale and Sahil Jadhav selected for RTMNU National Service Scheme Camp from 3rd February to 8th February 2023 at Rohana, Arvi. Mr. Mayur Khandagale won RTMNU camp best cadet award.
- On the occasion of National Voter day intercollegiate singing competition on 25/01/2023 Miss. Sanskruti Petkar and Miss. Gayatri Bhutkar of B.Sc II year bagged the second prize in the competition.
- **Research Activity :**

Research Projects and Grants Received

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co-Investigator (if applicable)	Name of the Funding Agency	Funds provided (INR in lakhs)	Month and Year of receiving the grant	Duration of the Project
"Investigation on Nanopreparation of Chitosan and Chitosan-Metal Complexes of Different Molecular Weights and Their Efficacy on Sucking Pest and Leaf/Boll Eating Insects of Cotton"	Dr. D. D. Naik (PI), Mr. M. D. Bansinge (Co-PI)	Rajiv Gandhi Science and Technology Commission, Rashtrasantukadoji Maharaj Nagpur University, Nagpur	2.26 (Total Sanctioned Grant is of 3.0 Lakhs)	22nd March 2022 (Date of Sanctioned Letter: 11-02-2021)	2 Years
"Investigations on Larvicidal Activity of Different Green Synthesized Nano Particles on Various Genus of Mosquitos Found in Wardha Region".	Mr. VaibhavKhandewkar (PI), Dr Saikat Biswas (Co-PI)	Rajiv Gandhi Science and Technology Commission, Rashtrasantukadoji Maharaj Nagpur University, Nagpur	1.20 (Total Sanctioned Grant is of 2.0 Lakhs)	1 st April 2022. (Date of Sanctioned Letter: 16-02-2022)	2 Years (2022-2024)
Development of Agro Waste based Mycopesticide Formulation for Controlling Mosquito Population: A Scientific Effort For Rural Women Empowerment	Dr.Bhavana V. Mohite	Department of Science and Technology, New Delhi.	8.802 (Total Grant Sanctioned is 13.446 Lakhs)	9 th December 2020 (Date of Sanctioned Letter: 02-12-2020)	3 Years (2020-2023)

Ph.D. Supervisors: 12 (Newly Approved-2)

1. Dr. D. D. Naik
2. Dr. Mrs. S. S. Khandare

Ph.D. Registered: 08 (one newly registered)

Name of full time teacher	Qualification	Name of the Ph. D. Scholar	Date of registration	Title of the thesis for scholar
Dr.Pratibha F. Dhabarde	M.Sc., Ph.D.	Ms. Megha Chandankhede	2 nd Feb.2023	Screening of putative and natural Anti-Hepatitis phytochemical compounds in some medicinal plants

Number of Workshops/Seminars Conducted: 15

Sr No	Name of the workshop/ seminar	Name of Department	Number of Participants	Date
1.	One Day Online National Workshop on topic "Intellectual Property Rights (IPR), IP Management and Research Ethics" jointly organized by Department of Chemistry and MoE's Institution's Innovation Council (IIC) Bajaj College of Science, Wardha.	Chemistry, IIC, RICH	400	29.08.2022
2.	Guest lecture on "Intellectual property rights" to UG and PG students of college.	Chemistry, IIC	150	08.09.2022.
3.	Orientation programme for "M.Sc. -I students"	All PG Departments	80	12.09.2022
4.	Hands on training workshop on "ICT Learning Environment Blended Mode of Teaching of Gnomio" for UG & PG students	Chemistry	90	19.09.2022
5.	Orientation program on "Carrier Awareness" for Undergraduate Students	Chemistry	100	21.09.2022
6.	"Chemistry Seminar Competition" for UG and PG students	Chemistry	27	22.09.2022
7.	Two days workshop on "Strategizing and Planning for competitive exams"for PG students.	Competitive Exam. Cell, Chemistry, Life Science, Mathematics	120	15 & 16.03.2022
8.	Workshop on "Design and Development of Soap and Detergent Powder"	Chemistry, IIC, RICH	70	21.03.2023
9.	Skill Oriented Programme on "Applications of Geogebra in Physics"	Physics	51	10/2/2023 to 11/02/2023
10	Workshop on "Innovation and Entrepreneurship as Career Opportunity"	Physics, IIC	64	20.02.2023
11	Workshop on Energy Audit	Physics	43	25.02.2023
12	Guest Lecture on Cyber Awareness	Electronics, Comp. Sci.	100	13.08.2022
13	Seminar on Cloud Technology &Infosec and Its Future Opportunities	Comp. Sci.	60	20.02.2023
14	Workshop on Herbs and Herbal Products	Boany	22	03.02.2023
15	Symposium on Mathematical Modelling	Mathematics	200	02.01.2023

Research papers in the Journals notified on UGC website : 8

Title of paper	Name of the Authors	Department of the Authors	Name of Journal	Year	ISBN/ISSN Number
1. Phosphorus grafted chitosan functionalized graphene oxide-based nanocomposite as a novel flame-retardant material for textile and wood	Akhil V Nakhate , Dattatray A Pethsangave, Ganapati D Yadav, Surajit Some, Pradip V Tekade	Chemistry	React. Chem. Eng., ASAP 2023 ,	2022	2058-9883
2. Biogenic synthesis of selenium nanomaterial and its application as anti-Nematode booster in Solanum lycopersicum (Tomato)	Pradnya B. Nikam, Jitendra D. Salunkhe, Bhavana V. Mohite , Rakesh S. Chaudhari & Satish V. Patil	Microbiology	Vegetos, Dec. 2022.	2022	0970-4078
3. Facile Fabrication of Novel Europium Doped Strontium Yttrate (SrY ₂ O ₄ :Eu ³⁺) Electrospun Nanofibers for Flexible Display Applications	Mahelaqua A. Haque, Mahejabeen Azizul Haque , Subhash B. Kondawar	Chemistry	Materials Today Communications, Vol. 33, pages 104950-1 to 8, Dec. 2022	2022	2352-4928
4. Status of NPK in Vermicompost Prepared From Diverse Categories of Organic Waste Material	M.R. Chandrakar and G.S. Pachlore	Zoology	Eco. Env. & Cons. Vol. 28, pages S144-148, Dec. 2022 (December Suppl. Issue)	2022	0971-765X
5. Naringenin Biosynthesis and Fabrication of Naringenin Mediated Nano Silver Conjugate for Antimicrobial Potential	J. D. Salunkhe, B. V. Mohite , S. V. Patil	Microbiology	Natural Product Research, ASAP November 2022 , pages 1-7.	2022	1478-6419
6. A Comparative Study of Demirjian and Chaillet-Demirjian Methods to Estimate the Dental Age in Maharashtra's Population	Lina Z. Bhoyar, Archana L. Mahakalkar, Rashmi V. Kulkarni, Ashita R. Kalaskar, Dhiraj Naik	Botany	Research Journal of Forensic Sciences, Vol. 10(2), pages 1-8, July 2022.	2022	2321-1792
7. Biosynthesized δ-Bi ₂ O ₃ Nanoparticles From Crinum Viviparum Flower Extract for Photocatalytic Dye Degradation and Molecular Docking	P. B. Chouke, K. M. Dadure , A. K. Potbhare, G. S. Bhusari, A. Mondal, K. Chaudhary, V. Singh, M. F. Desimone, R. G. Chaudhary and D. T. Masram	Chemistry	ACS Omega, Vol. 7 (24), pages 20983-20993, June 2022	2022	2470-1343
8. Moringa Tree Gift of Nature: a Review on Nutritional and Industrial Potential.	SV Patil, BV Mohite , KR Marathe, NS Salunkhe, V Marathe, VS Patil	Microbiology	Current Pharmacology Reports, Vol. 8, Pages- 262-280, May 2022	2022	2198-641X

Papers in Conference Proceeding : 01

Name of Author	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / international	Year of publication	ISBN / ISSN	Name of the publisher
Dr. A. A. Maheshwari	Study on intensity of infection caused by <i>Dendrophthoe falcata</i> (Ff) ettingsh on various host of Melghat	Vidyabharati International Interdisciplinary Research Journal Pp 1197-1200	International Multidisciplinary Conference on Environment: issues, challenges, impact and steps towards sustainable development	International	Sept 2022	2319-4979	GSG College, Umarnhed in association with SGB Amravati University, Amravati

Faculty participation in Seminars/Conferences and Symposia:

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Conferences/Workshops	5	7	1	.
Presented papers	8	8	.	.
Resource Persons	.	1	3	4

Revenue generated from consultancy:Rs. 95,100/-

Name of the facility/Consultancy project	Revenue generated
XRD and FTIR: CIC	INR- 93,000/-
Botany: Plant Identification and Authentication	INR- 2,100 /-

Collaborative activities: 03

Sr. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Duration (From-To)	Nature of the activity
1.	“International material conclave (IMC 2023)”	“Centre for Materials for Electronics Technology (C-MET), Pune	Ms. Afrin Sheikh, Ms. Shreya Magar, Ms. Shreya Badhiye, Mr. Harish Umate, Mr. Sameer Dubey, Ms. Prajakta Magar	8 th to 10 th March 2023	“International material conclave (IMC 2023)” on eve of C- METs foundation day
2	Skill Based Certificate Course in “Industrial Wastewater Management”	In association with St. Xavier’s College, Mumbai	36 UG and PG Students	4 th January 2022 to 30 th April 2022	Online Certificate Course

Sr. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Duration (From-To)	Nature of the activity
3	MSc -Sem IV Research Project of Chemistry	Mahatma Gandhi Institute for Rural Industrialization: MGIRI-Wardha :A National Institute under the ministry of micro and medium enterprises, Govt. Of India	1. Ms. Samiksha Ashtankar 2. Ms. Shashwati Deshmukh	6 months	Project

Number of functional MoUs : 05

Sr No	Name of the institution/ industry/ corporate house	Month and Year of signing MoU	Duration	List the actual activities under each MOU	Number of students/teachers participated under MoUs
1	Amey Pathology Laboratory wardha	28 June 2022	2021-2026 (05 Years)	1. Academic and technical collaboration in the areas of mutual interest 2. Guidance and support to students and faculties 3. Exchange of academic expertise and scholarly information 4. Students visits and demonstration of academic activities	20 students & 06 faculty
2	Kamla Pathology Laboratory wardha	28 June 2022	2021-2026 (05 Years)	..	20 students & 06 faculty

14. Meetings of Statutory Bodies of Autonomy :

- Meeting of Board of Studies in all subject were held in the month of September/October 2022 and April/May 2023.
- Meeting of Academic Council was held on 17/10/2022 and 25/04/2023.
- Meeting of Finance Committee was held on 19/10/2022 and next meeting is scheduled in May 2023.
- Meeting of Board of Governors was held on 18/11/2022 and next meeting is scheduled in May, 2023..
- Meeting of IQAC were held on 02/09/2022, 03/11/2022, 18/03/2023 and 06/05/2023.

15. Proposals / data submitted:

- Data for NIRF is submitted on 02/01/2023
- Data for AISHE submitted on 19/01/2023
- Data for MIS is submitted on 20/04/2023

16. Grants mobilized:

DST-FIST	- Received Rs. 27,00,000/-	Sanctioned Rs. 57,00,000/-
RGSTC	- Received Rs. 1,20,000/-	Sanctioned Rs. 2,00,000/-

This grant is being utilized for the required purpose.

17. Plans for the academic year 2023-24

- 1) Continuation of Autonomy
- 2) Implementation of National Education Policy (NEP-2020)

Team appreciated Principal for efforts taken for overall development of the college.

Name and Signature of External PEER team



(Dr. U.D. Gulhane)
Chairman-External Peer Team
Professor and Head,
Department of Mechanical Engineering,
Sevagram, Wardha
Director, Urvi Transformers, Wardha



(Dr. Dilip Gupta)
Member-External Peer Team
Head, Department of Surgery,
MGIMS, Sevagram

Dr. Dilip Gupta
Director, Professor & Head
Dept. of Surgery
MGIMS, Sevagram