

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 2020-21  
By External Peer Team of IQAC**

Submitted to



ज्ञान-विज्ञान विमुक्तये

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

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

**IQAC-EXTERNAL PEER TEAM REPORT ON  
PERFORMANCE OF THE INSTITUTION – ACADEMIC YEAR 2020-21**

**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** Head, Department of Surgery, MGIMS, Sewagram.  
(Member)

**Date of Visit to the college : 09/03/2021**

1.	<b>Name of the College</b>	:	Bajaj College of Science, Wardha
2.	<b>Name of the Principal</b>	:	Dr. Om Ashok Mahodaya
3.	<b>Telephone / Fax / Email</b>	:	Phone/Fax 07152-230515 Phone 07152-241696 Email : <a href="mailto:jbsciencewardha@yahoo.co.in">jbsciencewardha@yahoo.co.in</a>
4.	<b>Year of establishment</b>	:	1962
5.	<b>Whether private or government or University maintained</b>	:	Private-Aided
6.	<b>Autonomous Status</b>	:	UGC granted Autonomous status in the year 2017-18 valid upto 31 <sup>st</sup> Dec. 2022 Letter No. F.22-1/2017(AC) dated 06/04/2017.
7.	<b>Name of the Affiliating University</b>	:	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

### **Certificate Courses**

- Carrier Oriented Course in Clinical Laboratory Technology
- Carrier Oriented Course Herb and Herbal products
- Certificate Course in Nanoscience and Nanotechnology
- Certificate Course for PG in Statistical Analysis using R (Alternate year)
- Heartfulness Relaxation Programme for each student on regular basis
- Software based “Spoken tutorial program” which is being promoted by IIT, Mumbai
- Communication English
- Computer Awareness Course

### **9. Students on Roll**

<b>S.N.</b>	<b>Name of the course</b>	<b>First Year</b>	<b>Second Year</b>	<b>Third Year</b>	<b>Total</b>
1	B.Sc.	316	256	303	<b>875</b>
2	M.Sc. Botany	24	21	--	<b>45</b>
3	M.Sc. Chemistry	26	22	--	<b>48</b>
4	M.Sc. Microbiology	26	21	--	<b>47</b>
5	M.Sc. Zoology	25	22	--	<b>47</b>
6	M.Sc. Mathematics	27	--	--	<b>27</b>
7	Ph.D. in Botany	--	--	--	<b>2</b>
8	Ph.D. in Chemistry	--	--	--	<b>3</b>
	<b>Total</b>				<b>1094</b>

## 10. Details of Teaching Staff

SN	Designation	Number
1	Principal	1
2	Associate Professor	9
3	Assistant Professor	23
4	Librarian	1
5	Director Physical Education	1
6	Assistant Professor on Contract basis	11
7	Staff on CHB	10
	<b>Total</b>	<b>56</b>

## 11. Details of Non-Teaching Staff

SN	Designation	Number
1	Superintendent	1
2	Head Clerk	1
3	Senior Clerk	1
4	Junior Clerk	3
5	Laboratory Assistant	11
6	Laboratory Attendant	29
7	Library Attendant	3
8	Peon	4
9	Staff on Contract Basis	5
	<b>Total</b>	<b>58</b>

## 12. Results under Autonomy

Year	2017-18		2018-19				2019-20					
	I	II	I	II	III	IV	I	II	III	IV	V	VI
B.Sc.	40.13	40.78	22.78	42.03	43.95	47.64	30.55	96.15	49.58	98.71	76.82	100
M.Sc. Bot.	50.00	77.27	76.19	80.95	95.00	95.00	86.36	100	100.00	100		
MSc. Chem.	80.95	90.48	59.09	71.43	90.00	100.00	77.27	100	94.12	100		
M.Sc. Micro.	100.00	95.45	85.71	95.24	95.45	90.90	95.24	100	90.48	100		
M.Sc. Zoo.	76.47	64.71	65.00	50.00	93.75	87.50	63.64	100	100.00	100		

The Bajaj College of Science, Wardha run by Shiksha Mandal affiliated permanently to RashtrasantTukadoji Maharaj Nagpur University, Nagpur, is third time NAAC accredited with 'A' grade with CGPA of 3.21. The college is granted "Fresh Autonomous Status" by UGC for a period of six years from session 2017-18 valid upto 31<sup>st</sup> Dec. 2022 vide its letter No. F.22-1/2017(AC) dated 06/04/2017.

The college has established IQAC from 6<sup>th</sup> January 2000. The IQAC is constituted as per the guidelines of UGC & NAAC. The structure of the IQAC for the session 2020-21 is Chairman – Principal Dr. Om Mahodaya, Co-ordinator Dr.M.R.Chandrakar, Member of Management – Prof. C. D. Zanwar Nominee from Local society – Dr. Vikas Chandra Choudhary, Member from Industry – Dr. R.K. Sharma, and HODs and faculties as members.

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 AQAR of earlier sessions and inspected the records.

### **IQAC Activities:**

The IQAC planned various curricular, teaching-learning, co-curricular, extracurricular, extension activities and best practices of the institution. Due to outbreak of COVID – 19 most of the meetings and activities scheduled has been conducted online.

AQAR of session 2019-20 has been submitted online in February, 2021.

### **New Courses started:**

- PG in Mathematics has been started from academic session 2020-21.

### **Activities for students:**

In the month of March 2020, the examination process has been started but immediately has to be stopped due to outbreak of COVID-19 and announcement of lockdown. To keep the students engaged in their studies; question bank of all the subjects has been shared via google classroom/ moodle/watsapp and mail.

- Uploaded assignments for students on college website ([http://jbsw.shikshamandal.org/?page\\_id=4137](http://jbsw.shikshamandal.org/?page_id=4137))
- Chemistry Department started classes for preparation for NET/SET/GATE Via Google classroom
- Communicated e-Pathshala subject contents (PDFs, PPTs) through google classroom.
- Started online teaching via Google Classroom, pre-recorded lectures, ZOOM application. Each staff created “gnomio account” for allotting assignments, learning material to the students to receive solved assignments from students.
- Each department created own google site as a repository for learning material so that student can access the material at their ease.
- Result of B.Sc. SemesterII and SemesterIV and M.Sc. SemesterII under autonomy was declared as per the directions from UGC, Government of Maharashtra and RTM Nagpur University, Nagpur. Distribution of mark sheet started from 27/08/2020.
- Examination of Ex-students of RTM Nagpur University for B.Sc. Semester III, IV, V and M.Sc. SemesterI, II and III were held by the college using app provided by Promarc and question papers set by the college itself from 25/09/2020.
- The theory examination under Autonomy of the final year students of M.Sc. for their backlog subjects of M.Sc. SemesterI, II and III is started from 1<sup>st</sup> October 2020. The theory examination of M.Sc. IV regular students is scheduled from 21<sup>st</sup> October 2020.
- Online teaching programme for M.Sc. SemesterIII has started from 15/09/2020.
- Online classes of B.Sc. I year has started from 1<sup>st</sup> October 2020.

- The theory examination under Autonomy of the final year students for their backlog subjects of B.Sc.SemesterIII, IV, V is started from 1<sup>st</sup> October 2020. Examination of B.Sc.SemesterVI of autonomous students will be started from 16<sup>th</sup> October 2020.
- Online theory examination of Ex-students of RTM Nagpur University and under autonomy for B.Sc. SemesterIII, IV, V and examination of Ex-students of RTM Nagpur University for M.Sc. SemesterI, II and III were held by the college using app provided by Promarc is scheduled from 8<sup>th</sup> January 2021.
- Examination of B.Sc. (Practical and theory) under Autonomy for Semester I, III, V is started from 1<sup>st</sup> of February 2021.

#### **Guest lectures/ competitions organized for students:**

- Quiz for students and general public on awareness of COVID-19 arranged by all departments.
- Online MCQ quiz on general awareness and respective subjects has been organized by all departments for B.Sc. students of our college and University in the month of April and May, 2020.
- Organized webinar on Career opportunities and entrepreneurship in bioscience by department of Microbiology on 22<sup>nd</sup> July, 2020.
- Department of Biotechnology in association with Project MANAV (The Human Atlas Initiative, ISSER, Pune) funded by DBT, New Delhi and Government of India and Persistent System, Pune arranged a “Training and Project Awareness Session” on 16<sup>th</sup> September, 2020.
- Intercollegiate Chemistry Quiz organized by department of Chemistry on 20<sup>th</sup> May, 2020.
- Department of Zoology arranged online poster completion during 02<sup>nd</sup> October, 2020 to 08<sup>th</sup> October, 2020 to celebrate “Wildlife Week”.
- Microbiology-Biotechnology Society inaugurated, “Student Unit” for Microbiology-Biotechnology student followed by guest lecture on Nutritional Immunology and its possible role in COVID-19 like infection by Dr. Sanjeev Patankar, Ex. Principal, SS Jaiswal College, Arjuni (Mor), Dist. Gondia and President, Microbiologist Society, India.

#### **Seminar / workshop / FDP organised:**

- FDP on Jmol application has been organized by Chemistry department from 08<sup>th</sup> May, 2020 to 14<sup>th</sup> May, 2020.
- FDP on Arduino has been organized by Electronics department from 28<sup>th</sup> April, 2020 to 04<sup>th</sup> May, 2020.
- RUSA supported NAAC workshop was held on 13<sup>th</sup> June, 2020.
- Arranged workshop for staff for “Gnomio” account creation and its implementation.
- Virtual Workshop on XRD has been organized by department of Physics on 23<sup>rd</sup> July, 2020.
- Online National level slogan competition on “Corona Warriors in your perspective” has been organized to commemorate Independence day – 15<sup>th</sup> August, 2020.
- One day National Level workshop on “IPR” has been organized by Institutional Innovative Council, Bajaj College of Science, Wardha on 19<sup>th</sup> December, 2020.
- One day workshop has been organized on “Green and Energy Audit” by Institutional Innovative Council, Bajaj College of Science, Wardha on 23<sup>rd</sup> December, 2020.

### **Meetings of Statutory Bodies of Autonomy :**

- Meeting of Board of Studies in all subject were held during 23<sup>rd</sup>, 24<sup>th</sup> and 25<sup>th</sup> June; 2020.
- Meeting of Academic Council was held on 29<sup>th</sup> June, 2020.
- Meeting of Finance Committee was held on 06<sup>th</sup> July, 2020.
- Meeting of Board of Governors was held on 21<sup>st</sup> July, 2020.
- Board of Studies meetings having newly appointed members with the address of principal in all subjects was conducted from 22<sup>nd</sup> to 24<sup>th</sup> December, 2020.
- Meeting of IQAC were held online on 20<sup>th</sup> August, 2020.

### **Proposals / data submitted:**

- Proposal for Star College Scheme under Department of Biotechnology, Govt. of India has been submitted on 15<sup>th</sup> June, 2020.
- Data for NIRF is submitted on 3<sup>rd</sup> February, 2021.
- Revised DPR regarding renovation under RUSA grant “installation of solar panel” is approved. Procedure of e-tendering is under process.
- Proposal for starting centre of higher learning and research in Microbiology and Zoology has been submitted to RTMNU, Nagpur.
- Proposal for Academic audit continuation of affiliation to M.Sc. Mathematics for the year 2021-22 has been submitted to RTMNU, Nagpur.
- National Skill Qualification Framework (NSQF) has sanctioned two projects for financial support i) Vermicomposting from department of Zoology ii) Seed production Technology from department of Botany.
- Two MOUs were signed with Ankur Seeds Pvt. Ltd. Nagpur and Quality Mushroom Farm, Pune.
- Received first time affiliation by Parent University for M.Sc. Mathematics and M.Sc. Computer Science.
- Total 06 numbers of projects under the scheme Rajiv Gandhi Science and Technology (RGST) have been forwarded from various departments. Project of Dr. D.D. Naik from department of Botany has been selected finally and is funded by RGST.

### **Awards and achievements:**

- Dr. Om Mahodaya received Best Principal Award by RTM Nagpur University, Nagpur on 26th January, 2021.
- Received consolation prize to college magazine “Vigyanika 2018” by RTM Nagpur University, Nagpur.

### **Extension activities:**

- NCC department organized online “Atmanirbhar Bharat Poster Making and Slogan Competition” for NCC students during 12<sup>th</sup> to 15<sup>th</sup> August 2020.
- Volunteers of NSS performed following activities during lockdown period---
  - Awareness programme on COVID 19 through Posters, videos, quizzes with help of social media apps in and around Wardha city.
  - Prepared sanitizer, face mask and distributed among staff and needy people of society.

- Shared videos for face mask preparation to 30 peoples and 3 families started making of face mask.
- Food distributed to poor families.
- Aware the public about ‘AarogyaSetu’ app and about online payments/transactions to deal with daily life challenges.
- 151<sup>th</sup> Birth Anniversary of Mahatma Gandhi is celebrated by 1) online Bhajan by the students 2) Online address to students by the Principal – “GandhijikeBhitarKa Mahatma” 3) Shramadan by the teaching and non-teaching staff in campus.

**Grants mobilized:**

RUSA- 50,00,000

This grants being utilized for the required purpose.

Team appreciated Principal for efforts taken up by the college specially activities for the studies and development of the students. Teamsuggested to continue the journey with more endeavours so that considerable development in all key performance would be noted in the coming year.

**Name and Signature of External PEER team**



**(Dr. U. D. Gulhane)**  
**Chairman-External Peer Team**  
 Professor and Head,  
 Department of Mechanical Engineering,  
 Bapurao Deshmukh College of 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