



YEARLY STATUS REPORT - 2020-2021

Part A	
Data of the Institution	
1.Name of the Institution	SHIKSHA MANDAL'S JANKIDEVI BAJAJ COLLEGE OF SCIENCE
• Name of the Head of the institution	Dr. Om Mahodaya
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	07152230515
• Alternate phone No.	
• Mobile No. (Principal)	9890845825
• Registered e-mail ID (Principal)	jbsciencewardha@yahoo.co.in
• Address	Bajaj College of Science, Civil Lines, Jammalal Bajaj Marg, Wardha
• City/Town	Wardha
• State/UT	Maharashtra
• Pin Code	442001
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	06/04/2017
• Type of Institution	Co-education
• Location	Urban

• Financial Status	UGC 2f and 12(B)				
• Name of the IQAC Co-ordinator/Director	Dr. M. R. Chandrakar				
• Phone No.					
• Mobile No:	9552322775				
• IQAC e-mail ID	iqac.bcs@gmail.com				
3.Website address (Web link of the AQAR (Previous Academic Year)	http://jbsw.shikshamandal.org/wp-content/uploads/2021/04/AQAR-2019-20.pdf				
4.Was the Academic Calendar prepared for that year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	http://jbsw.shikshamandal.org/wp-content/uploads/2020/06/Academic-Calendar-2019-20.pdf				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 3	A	3.21	2014	01/02/2014	19/02/2019
Cycle 3	A	3.21	2019	21/02/2019	31/12/2022
6.Date of Establishment of IQAC			06/06/2000		
7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?					
Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount	
Jankidevi Bajaj College of Science, Wardha	Autonomous College Grant	UGC	01/01/2020	900000	

8. Provide details regarding the composition of the IQAC:	
<ul style="list-style-type: none"> Upload the latest notification regarding the composition of the IQAC by the HEI 	View File
9.No. of IQAC meetings held during the year	3
<ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? 	Yes
<ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded
10. Did IQAC receive funding from any funding agency to support its activities during the year?	No
<ul style="list-style-type: none"> If yes, mention the amount 	
11. Significant contributions made by IQAC during the current year (maximum five bullets)	
Planned online teaching and learning which is modified time to time as per the need of the students.	
Timely conduction of examination and declaration of results through online mode	
Conduction of heartfulness relaxation sessions so that students can relax and overcome the pandemic situation properly.	
Online Library resources and teaching materials made available to students as far as possible.	
Research publications increased.	
12. Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:	

Plan of Action	Achievements/Outcomes
n the year 2020-21 on-line teaching has to be continued due to outbreak of COVID 19. The teaching should be molded time to time as per the need of students.	The time-table for online theory and practical teaching was carefully prepared. Teachers were provided with required facilities to conduct online classes.
Preparations for offline classes and practicals as COVID situation is unpredictable and condition smoothens.	Adequate planning for offline theory and practical teaching was done. Repeated requests were made to district administration for conduction of offline classes.
Online workshop and seminars to be conducted.	In all three Online workshops and 6 seminars were conducted by various departments of the college.
Promotion of research publications and collaborations.	Also Number of research papers per teacher in the Journals notified on UGC website increased to 14.
Collaborative activities for research / project or placement to be enhanced.	4 new collaborations and 3 MoUs were established. These were helpful both for research and placements.
Online Awareness program to be conducted for protection against COVID 19	Online workshops, quizzes were organized to raise awareness about Covid-19 amongst the students.
13. Was the AQAR placed before the statutory body?	Yes
<ul style="list-style-type: none"> Name of the statutory body 	
Name of the statutory body	Date of meeting(s)
CDC	11/12/2021
14. Was the institutional data submitted to AISHE ?	Yes

- Year

Year	Date of Submission
31/12/2020	26/02/2022

Extended Profile

1.Programme

1.1 17

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 948

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 382

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 880

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1	135
Number of courses in all programmes during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.2	56
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3	95
Number of sanctioned posts for the year:	
4.Institution	
4.1	125
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	22
Total number of Classrooms and Seminar halls	
4.3	164
Total number of computers on campus for academic purposes	
4.4	82.6147
Total expenditure, excluding salary, during the year (INR in Lakhs):	
Part B	
CURRICULAR ASPECTS	
1.1 - Curriculum Design and Development	
1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.	

The institution has carefully adopted measures while formulating the syllabus of undergraduate and postgraduate Programmes, and Certificate courses for students. The prescribed syllabus aim at imbibing technical, practical and theoretical knowledge to students, for securing employment in laboratories of government and private hospitals, software companies, Private companies, of local and urban areas, and even self employment.

The UG and PG programmes are comprehensive interdisciplinary academic programmes that make students capable of handling scientific instruments of physical and biological sciences, and help them to understand the general principles of basic biological and physical sciences.

The outcomes of various combinations of courses are;

- Students develop problem-solving and analytical skills.
- Able to use library sources for the academic upbringing
- Demonstrate an ability to understand career opportunities in science

The syllabus is reviewed and changes are made by concerning experts during a biannual board of studies and general council meetings during the academic year.

In addition to academics, attention is also paid for the holistic development of students by enrolling them in Meditation courses, gender equality courses, self-employment courses, laboratory technique courses, and online courses run by the institution in collaboration with National and Local bodies.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	http://jbsw.shikshamandal.org/wp-content/uploads/2020/12/POsPSOsCOs-BSc-BCS.pdf http://jbsw.shikshamandal.org/wp-content/uploads/2020/12/POsPSo-M.Sc.-BCS.pdf http://jbsw.shikshamandal.org/wp-content/uploads/2020/12/POsPSOsCOs-CertificateCourses-BCS.pdf

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

0

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	No File Uploaded
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

00

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	No File Uploaded
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility**1.2.1 - Number of new courses introduced across all programmes offered during the year**

01

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	No File Uploaded
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

05

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	No File Uploaded
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

Apart from the regular curriculum, the college has Population Education Club, Heartfulness Relaxation Teaching Meditation Club, Astro Club having taught in charge and students who perform activities for self-development and social awareness. The college conducts these extracurricular activities involving students and teachers to address issues related to gender equality, human values.

For environmental awareness, the college runs a regular separate course of Environmental Studies for undergraduate students of semester 4.

As per Supreme Court directions passed in 2014-2015, the course of environmental studies is compulsory for Degree Students. This course is conducted during the second year for enrolled UG Students. The course has 8 units with 45 lectures of 45 mins (33 hours) taught during the second year.

The aim of teaching Environmental Studies to UG students is to make them aware of the importance of Natural resources, Ecosystems, Environment pollution issues, Human population and its impact on resources and the environment, Social issues.

Students are given the task of visiting local sites, conducting surveys and writing project reports. It is a kind of fieldwork that carries 25 marks.

Course details :

Total Units- 8 (33 hours)

Exam : 100 Marks (MCQ - 50 Marks; Long Questions - 25 Marks; Field

Work - 25 Marks)

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

00

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

00

File Description	Documents
List of students enrolled	View File
Any additional information	No File Uploaded

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

02

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	C. Any 2 of the above								
<table border="1"> <thead> <tr> <th data-bbox="70 342 550 421">File Description</th> <th data-bbox="550 342 1482 421">Documents</th> </tr> </thead> <tbody> <tr> <td data-bbox="70 421 550 864">Provide the URL for stakeholders' feedback report</td> <td data-bbox="550 421 1482 864"> Student's Feedback Form on Curriculum (B.Sc.) Link:https://forms.gle/w3Wcjdrj6PNGyeS69 Student's Feedback Form on Curriculum (M.Sc.) Link:https://forms.gle/m4uwPZcJSFSNm dWb7 Teacher Feedback Form on Curriculum (B.Sc.) Link:https://forms.gle/qL2JXSZDkNNXH c179 Teacher Feedback Form on Curriculum (M.Sc.) Link: https://forms.gle/rHRdnnui364N547k8 </td> </tr> <tr> <td data-bbox="70 864 550 1081">Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management</td> <td data-bbox="550 864 1482 1081">View File</td> </tr> <tr> <td data-bbox="70 1081 550 1149">Any additional information</td> <td data-bbox="550 1081 1482 1149">No File Uploaded</td> </tr> </tbody> </table>	File Description	Documents	Provide the URL for stakeholders' feedback report	Student's Feedback Form on Curriculum (B.Sc.) Link:https://forms.gle/w3Wcjdrj6PNGyeS69 Student's Feedback Form on Curriculum (M.Sc.) Link:https://forms.gle/m4uwPZcJSFSNm dWb7 Teacher Feedback Form on Curriculum (B.Sc.) Link:https://forms.gle/qL2JXSZDkNNXH c179 Teacher Feedback Form on Curriculum (M.Sc.) Link: https://forms.gle/rHRdnnui364N547k8	Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File	Any additional information	No File Uploaded	
File Description	Documents								
Provide the URL for stakeholders' feedback report	Student's Feedback Form on Curriculum (B.Sc.) Link:https://forms.gle/w3Wcjdrj6PNGyeS69 Student's Feedback Form on Curriculum (M.Sc.) Link:https://forms.gle/m4uwPZcJSFSNm dWb7 Teacher Feedback Form on Curriculum (B.Sc.) Link:https://forms.gle/qL2JXSZDkNNXH c179 Teacher Feedback Form on Curriculum (M.Sc.) Link: https://forms.gle/rHRdnnui364N547k8								
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File								
Any additional information	No File Uploaded								
1.4.2 - The feedback system of the Institution comprises the following	A. Feedback collected, analysed and action taken made available on the website								
<table border="1"> <thead> <tr> <th data-bbox="70 1317 550 1395">File Description</th> <th data-bbox="550 1317 1482 1395">Documents</th> </tr> </thead> <tbody> <tr> <td data-bbox="70 1395 550 1962">Provide URL for stakeholders' feedback report</td> <td data-bbox="550 1395 1482 1962"> Student's Feedback Form on Curriculum (B.Sc.) Link:https://forms.gle/w3Wcjdrj6PNGyeS69 Student's Feedback Form on Curriculum (M.Sc.) Link:https://forms.gle/m4uwPZcJSFSNm dWb7 Teacher Feedback Form on Curriculum (B.Sc.) Link:https://forms.gle/qL2JXSZDkNNXH c179 Teacher Feedback Form on Curriculum (M.Sc.) Link: https://forms.gle/rHRdnnui364N547k8 </td> </tr> <tr> <td data-bbox="70 1962 550 2080">Any additional information</td> <td data-bbox="550 1962 1482 2080">View File</td> </tr> </tbody> </table>	File Description	Documents	Provide URL for stakeholders' feedback report	Student's Feedback Form on Curriculum (B.Sc.) Link:https://forms.gle/w3Wcjdrj6PNGyeS69 Student's Feedback Form on Curriculum (M.Sc.) Link:https://forms.gle/m4uwPZcJSFSNm dWb7 Teacher Feedback Form on Curriculum (B.Sc.) Link:https://forms.gle/qL2JXSZDkNNXH c179 Teacher Feedback Form on Curriculum (M.Sc.) Link: https://forms.gle/rHRdnnui364N547k8	Any additional information	View File	Student's Feedback Form on Curriculum (B.Sc.) Link:https://forms.gle/w3Wcjdrj6PNGyeS69 Student's Feedback Form on Curriculum (M.Sc.) Link:https://forms.gle/m4uwPZcJSFSNm dWb7 Teacher Feedback Form on Curriculum (B.Sc.) Link:https://forms.gle/qL2JXSZDkNNXH c179 Teacher Feedback Form on Curriculum (M.Sc.) Link: https://forms.gle/rHRdnnui364N547k8 https://jbsw.shikshamandal.org/wp-content/uploads/2022/03/Action_Taken_Report_Feedback_2020-21.pdf		
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Any additional information	View File								

TEACHING-LEARNING AND EVALUATION	
2.1 - Student Enrollment and Profile	
2.1.1 - Enrolment of Students	
2.1.1.1 - Number of students admitted (year-wise) during the year	
1088	
File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File
2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)	
316	
File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	View File
2.2 - Catering to Student Diversity	
2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.	
<p>Slow learners: It is a term used for students having below average IQ levels. These students are part of our regular college. These students are not physically or mentally disabled but only pace disabled. The only problem with them is that they learn concepts at a slower rate than other students. They are identified on the basis of performance in previous academic year, classroom interaction and attitude of participation in various academic activities. They are also identified when subjected to various methods of evaluations like assignments, unit tests, and test examination at the end of semester.</p> <p>Teachers of our college play pivotal roles in a slow learner's life. Their support, motivation and encouragement go a long way to overcome their hurdles by creating healthy environment.</p> <p>Some of the remedial measures taken by teachers during covid</p>	

pandemic year are as follows.

- By repeating basic instruction, keywords and concept in the zoom classroom so that their weak cognitive skills coupled with the slow speed learning can be matched.
- Special extra time using gnomio/Google classroom/Moodle platform is given to slow learners to increase their confidence.
- By explaining concepts and situations using real life practical examples and with help of YouTube videos and other animations.
- By not pressurizing them for time management. Due dates for assignment submissions were extended in some cases.
- Clusters using WhatsApp groups are formed to address their difficulty at personal level.

Advanced learners: The teachers also take extra efforts to support advanced learners in the best possible way. The advanced learners are motivated to go for higher studies.

They are given financial support to participate in various competitions like e-Quiz, e-science exhibition during covid pandemic year. Advanced learners are motivated to do internships. Motivational lectures are organized to channelize their potential to accomplish their goals.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	NIL

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
16/11/2021	1088	56

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Bajaj College of Science provides an ideal platform for students to gain the most up-to-date skills, information, attitude, and values in order to properly shape their conduct. All departments provide programmes that encourage students' creative abilities, give them with a platform to develop their problem-solving skills, and promote active learning. Students are encouraged to compete in intercollegiate and national events during the covid pandemic year.

1. **Experiential Learning:** To aid students in their experience learning, each department offers online programmes. To improve students' creativity and cognitive levels, the College offers the following online experiential learning techniques.

Online Laboratory Sessions are conducted.

Add-on Courses on latest technologies with Spoken tutorial, NPTEL, and SWAYAM.

Virtual industrial tour to engage them in experiential learning.

2. **Participatory Learning:** Students take part in a variety of activities during the covid pandemic year, including online seminars, group discussions, projects, and skill-based add-on courses. Students are encouraged to take part in activities that allow them to apply their specific technical or management abilities.

Online Regular Quizzes- Quizzes have organized for student participation at intra or inter college level.

Online Seminar Presentation - Students develop technical skills while presenting papers in seminars.

MOOC Programs (NPTEL, SWAYAM, and MOOCs)

3. **Problem-solving methods:** Students are encouraged to learn and improve problem-solving abilities in their departments. For this, the institution hosts expert online lectures on a variety of topics, encourages students to enrol in MOOCs, and encourages them to compete in inter-college and intra-college competitions such as:

Regular Assignments based on problems**Online Regular Quizzes****Online presentations**

File Description	Documents
Upload any additional information	View File
Link for additional Information	NIL

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Bajaj College of Science has long encouraged its faculty members to employ ICT-enabled technologies, such as online resources, to improve the teaching-learning process. On campus, there are 13 ICT-enabled classrooms. Wi-Fi is available across the campus. There are two lecture halls and two conference rooms, all of which are well-equipped with ICT. ICT facilities are also available in the conference rooms. A separate e-learning centre assists teachers in creating e-content for various disciplines. LCD projectors, video conferencing, MOOCs, and e-learning technology are some of the tools utilised by academics to educate learning.

The Knowledge Resource Centre (KRC) houses a Central Damle Library with a large collection of books, periodicals, references, national journals, and CD-ROMs, as well as other Departmental Libraries. The institution has a full year subscription to the N-LIST webportal of Gandhinagar's INFLIBNET facility, giving students access to over 5000 e-journals.

One of the key distribution contents supplied to students has been YouTube live transmission of lectures, Zoom platform, pre-recorded lectures utilising OBS software, and their availability on YouTube. So far, over 3000 live hours have been recorded, with visitors from various institutions providing lectures on academic subjects. Experts from industry are also invited to give special lectures and technical talks.

Some of the key features followed by the teaching fraternity are,

1. Extensive use of subscribed Zoom platform for online live teaching, pre-recorded lecture using OBS and their availability using YouTube platform.

2. Academic calendar, lesson plan, assignment, quizzes, unit test, lab manuals and question banks were made available during the sessions.
3. The use of multimedia teaching aids like, LCD projectors, classrooms with internet enabled computer/laptops/tablet systems are usually in use in the classrooms.
4. Seminar hall is equipped with multimedia facilities using ICT tools. Invited talks and webinars are conducted in seminar hall using ICT facilities.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	NIL
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

56

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	No File Uploaded

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Process:

An academic calendar for the entire semester is produced at the start of each academic year for all programs. Typically, however, the MSc coordinator and the HoD of the respective PG Department are in charge of arranging the academic schedule. The academic calendar includes all significant dates for students, such as the beginning of the semester, unit exam dates, midterm exam dates, exam form filing, final examination dates, and holidays. The Principal, in collaboration with the Time Table Committee, approves the academic

calendar.

Time tables for BSc and MSc programmes are generated for each subject based on a semester-by-semester academic calendar. Faculty members are given power point-based lecture preparation, white board teaching preparation, and practical scheduling based on semester-by-semester course syllabi.

Teaching is carried out according to the teaching plan, either online or offline during the epidemic, as our district's tight pandemic circumstances have been loosened. The faculty conducts revision and remedial sessions. The total effective working days available in a semester are listed in the academic calendar.

Deployment:

The process of academic calendar, time tables, teaching plan and teaching record is followed for UG as well as PG programs.

Benefits:

Students can use the academic calendar to gain a clear image of activities and academic sessions that will take place throughout the year and semester. By limiting instructional hours overlap, the academic calendar is released in advance, ensuring that co-curricular and extra-curricular activities and events are held on schedule.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

56

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	No File Uploaded
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

28

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

492

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms**2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year**

21

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	No File Uploaded
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

The credit based system at our Institution has ensured collective efforts on holistic development of students. The curricular, co-curricular and extracurricular activities have ensured an outcome based learning practice. During autonomous tenure, the evaluation method has been consciously designed in order to bring an overall congruence in the teaching-learning and evaluation methods.

Reforms in Examination and Evaluation procedure:

The Examination Centre is headed by the Director, Board of Examination and Evaluation and the Principal as coordinator of overall activities of examination and evaluation process. The examination centre abides by decisions taken by the college administration and is duly supported by the various units of administration.

Reforms are carried out in the examination procedures to ensure a transparent and efficient examination system. Areas of improvement are identified through examination audits and feedback mechanisms.

Following reforms were carried out in the past three years.

1. **Examination Calendar (EC):** The practice of preparing and adhering to an examination calendar was initiated. The EC is prepared in consultation with Heads of Departments and the Principal which is published in the college notice board and college website.

Impact: The EC has brought in transparency in the examination procedure and has ensured timely conduct of examination and publication of results.

2. **Evaluation Board:** The statutory body is framed to conduct a hassle-free examination system. The statutory bodies are listed

below:

i) BOS: It is constituted for each subject/Department. This body ascertains the panel of paper setters, Valuers and Moderators of answer sheets. Care is taken to provide proper justification during the framing of the panel.

For UG in-house all faculty members of all departments are involved for valuation but sometimes external faculties are involved if needed.

In case of PG, the setting of question papers, Valuation and Moderation of answer sheets are carried out with respective subject experts in and around Vidarbha region of Maharashtra.

The IQAC committee along with the Director, Board of Examination and Evaluation process the analysis of the results and share their inputs in forms of suggestion if any with all departments.

Impact: i) The transparency in the examination system mentioned above enables fair results without any grievances.

ii) Revaluation of answer papers is rarely required due to transparency of examination.

3. Result analysis: The Director, Board of Examination and Evaluation constitutes a committee for analysis of the results. The result analysis is compiled by the Director, Board of Examination and Evaluation and is shared with all faculty members.

Impact: Result analysis has ensured the level of students' performance.

IT integration in Examination and evaluation procedure:

By incorporating information technology into the examination and evaluation process, the examination procedure will be automated. Below are the details of the integration:

1. Exam announcements are displayed online via a website.
2. EMS offers online registration for the end-of-semester examination.
3. EMS-assisted automated seating arrangement.

4. Seating arrangements are published online or on notice boards.
5. Barcode scanners are used to enter marks.
6. CIA marks can be entered online.
7. Online publication of results as well as on notice boards.

Other reforms:

The examination centre will be renewed by adding additional floor space for the purpose of printing of question papers, storing of answer booklets and other documents. New equipment such as copier machines and barcode scanners will be added to the centre.

Best practices:

Examination department has instituted a number of practices for a smooth functioning of exams.

1. For the advantage of differently abled students, special provisions have been made.
2. Question banks can be found on the gnomio websites prepared for each subject as well as at the library.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	NIL

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Vision of the institution:

To transform a 'potential excellence centre' into a 'centre of excellence,' providing high-quality science education and research opportunities to students, fostering total personality development through training and placement efforts, and ensuring that our students are technologically competent and ethically strong so that they can contribute to society's advancement.

Introduction:

The programme outcomes (Pos), programme specific outcomes (PSOs), and course outcomes (COs) are framed by the Department offering the concerned programme following extensive consultation with the teachers, in strict conformance with the objectives of outcome-based education. The learning outcomes of the College's programmes and courses are clearly articulated.

Program outcomes (POs): It represents the students' knowledge, skills, and attitudes at the end of their individual science program's course.

Course Outcomes (COs): It specifies the knowledge and abilities that students gain at the conclusion of each course. It specifies the cognitive processes offered by a course.

Program specific outcomes (PSOs): These are statements that outline a program's outcomes and let students realise that the knowledge and practises learned in this course have a direct impact on the betterment and sustainability of society.

POs, PSOs and COs are communicated, discussed with faculty and students with the following mechanisms:

Syllabi and learning outcomes are available in hard copy and soft copy (on the college website) throughout the Departments for teachers and students to reference.

Teachers have been informed of the importance of learning outcomes at every IQAC and college committee meeting.

Students have also been informed of the learning outcomes through meetings.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	No File Uploaded
Upload any additional information	No File Uploaded
Link for additional Information	NIL

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

The program outcomes and program specific outcomes are assessed with the help of course outcomes of the relevant theory and practical courses through two methods.

Method 1: Direct assessments or inspections of student knowledge or abilities against measurable course outcomes will be possible with this strategy. The course outcomes explain knowledge and skills that are matched to specific problems on college exams, internal tests, and home assignments. Average attainment in method 1 = College Examination (70%) + Internal assessment (20%) + Assignment (10%).

Method 2: This method will be implemented by embedding them in Student Feedback Survey, Employer Survey and Alumni Survey.

Average attainment in method 2 = Average (Alumni survey + Employer survey + Exit survey). The following scoring function is used to calculate the average attainment of each PO.

PO /PSO Attainment (%) = (weightage: 80%) x (Average attainment in method 1) + (weightage: 20%) x (Average attainment in method 2).

Each PO/PSO is evaluated and the attainments are determined based on the preceding depictions. Finally, the programme outcomes are evaluated using the above-mentioned data, and the PO achievement level is determined by the Program Assessment Committee.

The tools used for the assessment of POs/PSOs and their frequency are given below.

The college conducts examinations at the end of each semester, and the course outcomes are measured based on the results released by the institution. Each module concludes with an assignment. Students are given assignments with the expectation that they will consult text books and good reference materials to discover answers and understand the desired goal of the challenge. Each semester, one midterm examination is held for the following purposes. At the module level, confirm that students have attained the necessary level of competency. To determine whether or not the associated COs have been met. According to the performance of the student in answering each question, mapping is carried out with the respective COs for assessing the attainment level of the specific CO of the subject. Alumni survey is an important assessment tool to find out following important factors: Once in a year level of relevance of the curriculum with the expected skills of the industries (specifically from BOS member who has industrial background).

Employer surveys are conducted for finding out whether the knowledge, skill and attitude learned from this Institution is adequately satisfying their expectation or not. The objective of the conducting the student feedback survey is to identify following factors for future strategy framing once in a year. To understand the impact of training they have just completed to understand the strength and weakness of various value-added courses, pre-placement training imparted.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	http://jbsw.shikshamandal.org/wp-content/uploads/2020/12/POsPSOsCOs-BSc-BCS.pdf

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

385

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	https://jbsw.shikshamandal.org/wp-content/uploads/2022/05/Annual-report-of-QNM-2.6.3.2-AQAR-of-year-2020-2021.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

<https://jbsw.shikshamandal.org/wp-content/uploads/2022/01/SSS-passed-BSc-students-year2020-2021-BCS-wardha.pdf>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

Yes, The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://drive.google.com/file/d/1I19am_QVAJSi9xL1h71Wqecbwbq9p8PR/view?usp=sharing
Any additional information	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

0.00

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

0

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

8.802

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

3

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	NIL
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

12

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

3

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	http://online-wosa.gov.in/wos , https://www.nagpuruniversity.ac.in/index.php/otherdepartment/Contentpage/index/Ri9KbXF1MEpWZjlQWlZYTzZ3PT0%3D/RlBraHZ1cEdTZnhTWlZRPQ%3D%3D/en
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

YES,

Ministry of Human Resources Development (MHRD) Govt. of India has established MHRD Innovation Cell (MIC) to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs). Primarily IIC's role is to engage large number of faculty, students and staff in various innovation and entrepreneurship related activities such as ideation, problem solving, Proof of concept development, Design thinking, IPR, Project handling and management at Pre-incubation/Incubation stage, etc., so that innovation and entrepreneurship ecosystem gets established and stabilized in HEIs. Our college has reconstituted Institutions Innovation Council (IIC) this year. The following faculty members of our college have been entrusted various responsibilities mentioned in the following table. They are supposed to arrange various activities regularly under this banner. These members successfully execute the assigned work related to their responsibilities from

time to time with the help of student members and update the records on IIC portal and also keep record of these activities. For further details kindly visit to: <https://mic.gov.in/mic/innovation-council/>

Committee: Institution's Innovation Council (IIC)

Sr. No. Name of the Faculty Member IIC Designation / Responsibility
 1 Dr. O. A. Mahodaya Head of the Institute 2 Dr. S. H. Bagade President and ARIIA Coordinator 3 Dr. P. V. Tekade Vice-President and NIRF Coordinator 4 Dr. Mrs. N. P. Mohabansi Convener of IIC 5 Shri Jaykumar Dahake Industrial Expert form around the region 6 Shri. Ashok Saraf Alimni Entrepreneur 7 Dr. Vikas Chandra Choudhary Patent Expert 8 Dr. D. D. Naik Innovation Activity Coordinator 9 Dr. M. M. Yerpude Innovation Activity Member 10 Dr. A. V. Nakhate Internship Activity Coordinator 11 Shri. M. G. Ingale Internship Activity Member 12 Dr. P. G. Borkar IPR Activity Coordinator 13 Dr. Ms. B. V. Mohite IPR Activity Member 14 Shri. P. B. Bhoyar Social Media Coordinator 15 Dr. A. A. Maheshwari Social Media Coordinator 16 Dr. S. R. Tiple Start up Activity Coordinator 17 Dr. S. P. Biswas Start up Activity Coordinator 18 Ms. Laxmi Baghel Student 19 Ms. Sakshi kapase Student 20 Mr. Ganesh Soni Student 21 Ms. Mrunal P. Gandole Student 22 Mr. Musharraf Yusuf Khan Student 23 Ms. Pranjal A. Nandeshwar Student 24 Ms. Sakshi S. Agrawal Student 25 Ms. Mugdha M. Shukla Student 26 Mr. Saurabh N. Dhote Student

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://jbsw.shikshamandal.org/wp-content/uploads/2021/08/Institute-Innovation-Cell-IIC.pdf

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

9

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards	
3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software	B. Any 3 of the above
File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File
3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year	
3.4.2.1 - Number of PhD students registered during the year	
0	
File Description	Documents
URL to the research page on HEI website	http://jbsw.shikshamandal.org/?page_id=3152
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded
3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year	
14	
File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year**4 books, 2 papers in conferences**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	NIL

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed**3.4.5.1 - Total number of Citations in Scopus during the year****60**

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University**3.4.6.1 - h-index of Scopus during the year****7**

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy**3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)****0.21700**

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

Nil

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

following attached file has documented programmes and their outcome in terms of sensitizing students to social issues and their impact

File Description	Documents
Upload any additional information	View File
Paste link for additional information	NIL

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students

for extension activities from Government / Government-recognised bodies during the year**NIL**

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	No File Uploaded
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)**20**

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year**939**

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration**3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work****4**

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only

functional MoUs with ongoing activities to be considered)

3

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

INFRASTRUCTURE AND LEARNING RESOURCES**4.1 - Physical Facilities**

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

- The College has a sprawling 37.55 acres of green campus with built-up area of 12233.60 Sq. m comprising of classrooms, laboratories, administrative office and playgrounds.
- The college has developed adequate infrastructure facilities by getting various grants viz., UGC (CPE), DBT-Star, RUSA etc. The management takes keen interest in creation and enhancement of infrastructure in the Institution for smooth running of all the academic, co-curricular and extracurricular activities by providing financial grants.
- Following are the facilities for teaching, learning at the Institute :-
- The existing infrastructure augments learning and promotes a good teaching and learning environment.
- Total 24 well-furnished classrooms with sufficient light arrangement are available in the campus. These classrooms are adequate for the students' strength of more than 100 at a time. Out of these, 16 classrooms are equipped with the ICT facilities.
- Institute has an excellent infrastructural facility including separate departments of Botany, Zoology, Microbiology, Bio-technology, Chemistry, Physics, Mathematics, Electronics, Computer science and Languages. Each laboratory is equipped with sufficient number of experimental setups as prescribed in curriculum.
- Each department has computers with internet facilities and

printer. These computers can be utilized for online courses, aptitude tests and project work.

- Each department has its own departmental library with sufficient number of books.
- Department of Botany and department of Zoology are housed in newly constructed life science complex. Department of Botany has plant tissue culture laboratory, while department of Zoology has animal tissue culture laboratory. Both the Departments have independent museums and have UG laboratories and PG classrooms.
- All the departments have safety facilities (fire extinguisher etc.)
- The institution has two research centers recognized by R.T.M.N.U. Nagpur, viz. Department of Chemistry and Botany. The college has applied for recognition of two more departments (Microbiology and Zoology) as a place for higher learning and research to R.T.M.N.U. Nagpur.
- The institute has the centralized instrumentation center with sophisticated/latest analytical instruments like X-RD, FT-IR, UV-Visible Spectrophotometer, PCR, Growth Chamber, Gel Documentation system, Soil analysis kit, Flame photometer, Soxhlet's to serve research needs and also provides consultancies to the researcher of nearby areas.
- The institution has total 164no. of computers with latest technology and internet facilities for academic purpose. An adequate and furnished administrative building with 17 network computers of latest technology and internet facilities. Computers in ICT hall have open access for students.
- The college has Wi-Fi enabled campus (with restricted use).
- Institute has a heritage building, Gandhi Memorial Hall of 100 students' capacity, Seminar hall and Jamanalal bajaj hall. These are used to arrange various activities like conferences, workshops, seminars etc.
- Institute has an independent updated centralized library building having digital access center, LAN, internet, INFLIBNET, Mastersoft software for automation, reprography facilities and separate reading rooms for teachers and students. The capacity of reading room is to accommodate 150 readers at a time.
- Open access system, availability of good number of reference books and journals are the salient features of central library.
- The college has hostel facilities for both Girls and Boys.
- The institute has 05 staff quarters with all required

facilities.

•The campus also has well maintained guest house with the all necessary facilities.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	NIL

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

To promote interest in sports and cultural events, the college encourages students by providing adequate budget and resources. Following are the facilities for sport activities-

Details of facilities for Extra-curricular activities-

S.N.

Available facility

Details

1

Outdoor Games

14 outdoor games - 16 playgrounds :

Football (1), basketball (1), Volleyball-(2), softball (1), baseball (1), handball-(2), athletics (200 Mtr. Track, Long jump pit, Shotput (1), kabaddi-(1), kho-kho (1), ball badminton-(2), Net ball (1), Lawn tennis (1), Sepak takraw (1), Archary (1).

2

Indoor Games

4 indoor games: Facilities for indoor games are provided.

Badminton, table tennis, chess, carom.

3

Gymnasium (Health club)

Equipped with 31 stations:

Multi gym unit -16, Mechanical jogger, belt vibrator, bench press, adjustable bench, abdominal board with ladder, smith machine, leg extension and leg curl, wrist conditioner, dumbbells-3, rebounder exerciser, rowing arm cycle, massage roller

4

Cultural activities

Quiz; Debate; Elocution and cultural

Outdoor games (User Rate)

Sr.

No.

Name of the Game

Ground Area

No. of Ground

Total Ground Area

Year of establishment

User Rate

1.

FOOTBALL

(New)

116*75 mt.

1

8700 Sq.Mt.

1964

2007

2.

BASKET BALL

Mud Court

Cement Court

28*15 mt.

1

420 sq.mt.

1964

1991

3.

VOLLEY BALL

Old

New

12*9 mt

2

216 Sq.Mt.



1964

1986

4.

SOFTBALL

60*60 mt

1

360 sq.mt.

2007

5.

BASEBALL

1

2007

6.

HANDBALL

40*20 mt

2

160sq.mt.

1981

7.

ATHELATICS



Old

New

Running Track

1

200 mt.

1964

1983

8.

KABADDI

13*10

1

130 sq.mt.

1964

9.

KHO-KHO

25*14

1

350 sq.mt

1970

10.

BALL-BADMINTON

24*12 mt.



2

576 sq.mt.

1988

11.

ARCHERY

90*30 mt

1

2700 sq. mt

2017

12.

TENNIS

23*11 mt.

1

253sq.mt

2016

13.

NETBALL

30.5*15.25 mt

1

465,12 sq.mt.

2013



Indoor games

Sr.No.

Name of the Game

No. of Ground

Total Ground Area

Year of Establishment

1.

BADMINTON

1

Gandhi Hall

1981

2.

TABLE-TENNIS

1

Gandhi Hall

1975

3.

CHESS

1

Bajaj Hall



1981

4.

CARROM

1

Bajaj Hall

1975

Facilities for the promotion of Cultural Activities:

- The institute is having Kala Niketan (Open theater) in the campus for arranging cultural events.
- The institute provides sound system, music system, light system and various allied equipment during cultural programs.
- Every year students organize cultural event like Gathering, Fresher's day and Farewell programs as well as other cultural programs.
- The students from college encouraged to participate in various intercollegiate competitions and also won prizes in the same.
- College publishes annual magazine. Student magazine committee along with the coordinator looks after the magazine activity.
- Adequate funds are provided by the institution for the cultural activities.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	No File Uploaded
Paste link for additional information	NIL

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

19

File Description	Documents
Upload any additional information	No File Uploaded
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

49.51303

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

- Name of the ILMS software

Ans: LIBMAN (ERP Cloud Base)

- Nature of automation (fully or partially)

Ans: Fully

- Version

Ans: 1.0

- Year of automation

Ans: 2016 Update ILMS 2021

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://libcloud.mastersofinterp.in/OPACNEW?Library=Bajaj%20College%20of%20Science

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	No File Uploaded

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

310281

File Description	Documents
Audited statements of accounts	View File
Any additional information	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

16

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

- The college is continuously taking efforts to improve IT infrastructure and to make it available for students and faculty.
- College has developed a dedicated ICT center to cater to the need of students and faculty. This center has 45 desktop computers of latest configuration, which are connected in high speed LAN. This center also has the facility of Language laboratory for students where regular practical sessions are arranged for the students.
- In the academic session 2020-21, total number of computers for students use were 164.
- The college have total 05 independent Internet connections with 03 connections of 100 MBPS and 02 of 50 MBPS.
- The College have cyber security
- IT facilities are budgeted by the management and provided to the college as per the requirement.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	NIL

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
1088	164

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing	E. None of the above
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File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	NIL
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

3310104

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	No File Uploaded

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

•Physical Facilities

- The college has serene campus in an area of 37.55 acre.
- The parent institution of the college, Shiksha Mandal has separate office and staff for monitoring the maintenance of buildings, classrooms and laboratories.

- Centrally situated well-equipped administrative block to cater to the instructional needs of students and faculties.
- Formation of the green corridor by planting trees in the college campus by the parents and alumni association of the college.
- Parking area, cycle stand, inter-departmental linking roads
- Well-furnished guest house.
- 05 staff quarters with all required facilities.
- Indoor games, outdoor games and sufficient playgrounds for sports facilities.
- The institute has cultural heritage building 'Gandhi Hall'.
- It has offices for the N.S.S. Unit, N.C.C. (Boys), N.C.C. (Girls), IQAC, Placement Cell and Counselling Cell.

- **Academic Facilities**
- The college have spacious Library building Late Principal Dr. Damle Library. Presently the library is housed in 1102.624 Sq.mt. areas wherein there is a separate Reading Room, Reference Section, Rare books section, Issue Counter, Stack Rooms and Bound Volume Room, LAN, internet, INFLIBNET, reprography facilities. The capacity of reading room is to accommodate 150 readers at a time.
- Total 24 well-furnished and well ventilated classrooms with spacious seating arrangements and sufficient lighting arrangement are available in the campus. These classrooms are adequate for the students' strength of more than 100 at a time. Out of these, 19 classrooms are equipped with the ICT facilities.
- ICT centres with 45 computers. This centre is used to run various courses like computer awareness programme, language laboratory, ST-IIT, SWAYAM NPTEL etc.
- Centralised Instrumentation Laboratory with sophisticated instruments like XRD, FTIR, PCR, GEL-DOC, and UV -Visible Spectrophotometer etc. These instruments are used for providing the research facilities to the students and academicians in and around Wardha.

- Life Sciences complex, accommodating dept. of Botany and dept. of Zoology. Each department has U.G., P.G. and Research laboratory, five classrooms as well as Plant tissue culture and Animal tissue culture Laboratories.

- College has two recognized research laboratories for Ph.D. Chemistry and Botany which provides the research facility to the students of this area.

- Separate Controller of Examination (COE) block and spot valuation centre used for smooth conduct of autonomy examinations. All the examination related work are being facilitate through COE department.

- College is equipped with language laboratory having 11 computers.

- Each department is provided with internet and Wi-Fi facilities.

- Support Facilities

- The institute has Girl's hostel in the campus. This provides the safe and secure stay for the girls in the college campus.

- Girl's common room with adequate facilities.

- Sufficient number of washrooms, safe drinking water facility and water coolers.

- Gymnasium with all necessary required instruments.

- The campus is well equipped with CCTV security system.

- AMC 's:

- The college take the help of external agencies for maintenance and repair of infrastructure and other facilities.

- The fire extinguishers, fire systems, generator, physical infrastructure repair work is carried out by appointing external agency.

- External help is taken for repairing of all computers of the college.

- Other laboratory equipment is maintained by technical supporting staff of the department. In case of any repair requirement, service is hired from outside agencies.
- To maintain internet connectivity and CCTV security system, network and system external help is taken.
- LCD projectors system of the classrooms, air conditioners and water coolers are maintained with the help of external agencies.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	NIL

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

850

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	No File Uploaded

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

00

File Description	Documents
Upload any additional information	No File Uploaded
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised

C. Any 2 of the above

**for improving students' capabilities Soft Skills
Language and Communication Skills Life
Skills (Yoga, Physical fitness, Health and
Hygiene) Awareness of Trends in Technology**

File Description	Documents
Link to Institutional website	https://jbsw.shikshamandal.org/wp-content/uploads/2022/03/HELM-Report-2020-21-1.pdf
Details of capability development and schemes	View File
Any additional information	No File Uploaded

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

20

File Description	Documents
Any additional information	No File Uploaded
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	No File Uploaded
Upload any additional information	No File Uploaded

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

13

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	No File Uploaded

5.2.2 - Number of outgoing students progressing to higher education

63

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

5

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	No File Uploaded

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

0

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

Student Council the Education Act,1998 recognizes that Student Councils are an increasingly common feature in colleges. It should be formed with the lead role of students of a college and the involvement of the Board of Management in supporting the establishment and ongoing development of the Student Council. Bajaj College of Science, Wardha has an active Student Council which comprises of Chairman of the Student Council, Principal, Dr. Om Mahodaya, and a teacher in charge, student representation from each head, e.g. NSS, NCC, CWSS, PEC, Extracurricular and academics and a teacher in charge of the respective committee. The establishment of a Student Council gives students an opportunity to develop communication, organizational, and planning skills and leadership qualities that will be of benefit to them in their future lives. The aims and objectives of the Student Council are to promote the development of the college and the welfare of its students. The functions and activities of a Student Council: To enhance communication between students, management, staff, and parents. To promote an environment conducive to educational and personal development.

To support the management and staff in the development of the college. To represent the views of the students on matters of general concern to them. To Assist or mentor first-year students and promote friendship and respect among pupils. To contribute to the

development of college policy. To assist in college sporting and cultural activities. A Student Council of the college was actively involved in the development of college policy in a wide range of areas such as uniform requirements, framing new policies, extra-curricular, co-curricular, and extension activities. Student Councils worked for organizing and developing sports and cultural and co-curricular activities in the college, including, for example, fresher's party, farewell party, college Magazine, self-governance day and college day celebrations, society inauguration in various subjects, and poster competition Scintillation (student seminar competition), based on the curriculum. It also helps in arranging social outreach programmed off the campus and educational or excursion tours. Student Council has a valuable contribution to making the effective planning of Autonomy e.g. syllabus structure and exam pattern. The Council formed sub-committees for effective planning of the event. It is seen that college policies have got successful and the working was smooth where the student council was directly involved. A Student Council also identifies activities that it would like to be involved in organizing, although the final decision on the activities of a Student Council should be agreed with college management e.g. authority permitted them to arrange fresher's party and farewell party for new students and outgoing students. The student council and the college have a mutual association. It not only benefits students only but also the college itself. The students get easy access to teachers and authority and management and get solutions to their queries, suggestion, and recommendation in a short time. It becomes easy to organize many events in the college with the contribution of the student council. Communication with each student becomes easy. Each student gets aware of upcoming events in and off the campus.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	NIL

5.3.3 - Number of sports and cultural events / competitions organised by the institution

3

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Alumni Association of Bajaj College of Science, Wardha consolidates and co-ordinates Alumni activities in the college. The objective is to interact with the alumni, plan future activities, discuss alumni contribution to the college, etc. The objectives of the association are to plan, organize and coordinate alumni association activities and develop sustainability plan; to focus on the opportunities for the students like internships and training through association; to build a bridge between present students and the professional world; conducting social welfare activities like blood donation camp, health awareness programs, tree plantation, cleanliness drive, etc.; to plan and design association services for the students; to enlighten members about the statute of BCS, Wardha and provisions of Alumni Association.

It had been discussed to conduct regular quarterly meetings of alumni association but, due to Covid-19 restrictions the Alumni Association meeting could not take place this year.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	NIL

5.4.2 - Alumni's financial contribution during the year

E. <2 Lakhs

File Description	Documents
Upload any additional information	No File Uploaded

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The main feature of governance is discipline and commitment with imbining honesty towards work assigned. Institute is committed to providing the best science education and to producing well-educated, socially conscious students with good values. To execute their vision and mission; institutions always believe in participatory management which is unable us to decentralize maximum academic and administrative work. The principal is an executive head of the institution and leader for all academic and administrative processes of the college. Principal shoulders the following responsibility.

§Administrative responsibility

§Financial responsibility

§Supervise curricular, co-curricular, and extracurricular activity

§Promoting Research activity

§Maintenance and development of Infrastructure

§Monitor the process of examination

§Act as a link between staff and management

§Act as a link between college, affiliated university, government, and UGC.

§Acts as a liaison between the college and the community

The Head of the Departments, Office superintendent, Conveners, coordinators assists him in day to day functioning of the college. As the college is autonomous, the principal assists in the Government body chair Academic Councils, and finance committee. The policy of management, e-governance, and decisions by the Principal are executed by the Head of departments. Convener and coordinators of various cells, committees are entrusted with the responsibility to carry out curricular, co-curricular, and extra-curricular activities. College Development Committee is also in place to ensure and approve the various decision of the college.

Perspective Plan

§The college has visionary management having well-defined goals and a perspective plan for the development of the college.

§These plans are drawn for short-term and long-term goals such as building infrastructure, enhancing additional facilities, and introducing of new subjects in undergraduate and postgraduate courses, etc.

§Promotion of research culture and publication of research papers to a greater extent.

§Networking with UGC, DST, DBT, CSIR, etc.

§Mobilization of resources.

§Administrative reforms

§To identify research collaboration with national and international laboratories.

Above mentioned plans of development are always with the following consideration-

Changing global scenario in the field of higher education.

Societal and students' needs.

Financial constraints

Participation of Teaching staff in decision making

The college management is always in the harmony with the policies framed with the common consents by the principal.

The principal is an Ex-Officio member of governing body, college development committee, and academic council. The execution of policies is made by the principal in consultation with all heads of departments, conveners and coordinators, and the office superintendent.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://jbsw.shikshamandal.org/about-us/

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

•Being an autonomous institution, decentralization and participative management either in academic or administrative work are unavoidable. On-going practices of decentralization and participative management during the last year are in their right place. The two major practices are given below A. Examination decentralization and participation B. Administrative decentralization and participation A. Examination decentralization and participation: To conduct all the Examination related work, the faculty is appointed as the "Director, Board of Examinations and Evaluation" who monitor all the required activities on a day to day basis. He/she controls all the Examination and Valuation related works and their correspondence with question paper setters, valuers and moderators, etc. In consultation with the Principal of the college, the director's office implements a meticulous plan for the Deployment of examination timetables in order to conduct an Examination, Valuation and thereby declaration of results in time. Besides, all the Heads of various departments act as chairman of respective subjects with the participation of remaining faculties as a member of BOS. These are accountable for framing the curriculum, pattern of question papers, and assigning outsourced or in-housed faculties for various activities like setting, valuation, and moderation. Thus, this practice clearly shows decentralization and participative management. B. Administrative Decentralization and participation Besides, the academics and curricula, the Principal of the college need to administer a number of activities in the institute. They may be co-curricular and extracurricular events such as conduction of popular conferences and seminars for faculties and students, programs on women empowerment, gender sensitization, cleanliness, etc., the extension activities like National Service Scheme (NSS), National Cadet Corps (NCC), Centre for Women Studies and Services (CWSS), Population Education Club (PEC), societies and clubs like Astro Club, etc.

•All college activities are conducted by the Conveners appointed therein, under whose guidance the members from teaching and nonteaching staff are deployed. Furthermore, field trips, displays

of academic achievements, debates, discussions are organized. There are co-curricular activities such as the establishment and formation of faculty-wise academic societies and clubs such as Chemical Society, Botanical Society, Zoological Society, Microbiology Society, Language Laboratory and Language Club, etc. Moreover, many healthy practices are worth mentioning such as the organization of Competitive Examination and Training and Placement cell which conducts interdepartmental quizzes, interdisciplinary seminar competitions, Mock Examinations for practice, etc. The successful outcomes of such practice are viewed, assessed, and judged during future in-campus recruitment drives. New benchmarks are formed each time. Another evidence of success is that all extracurricular, as well as co-curricular activities, are always seen to be enthusiastically participated by all teaching, non-teaching, and students of the institution.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	No File Uploaded
Paste link for additional Information	https://jbsw.shikshamandal.org/wp-content/uploads/2022/02/Strategic-Plan-2017-2022.pdf

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

- The institution has a perspective plan to achieve excellence in various fields. All these plans are properly implemented through various committees by allotting work to teaching and nonteaching through respective coordinators of the committee.
- After achieving autonomy for the development of students and faculty, continuously good academics are achieved through curriculum development as per the local and global needs and student needs to compete in the competitive world.
- Faculty development through training of teaching and nonteaching staff as per the changing time. Skill development by introducing certificate courses for skill enhancement so that students can be self-employed as well.

- Student centered learning - use of ICT for effective teaching-learning. Project and research for skill development.
- Students are trained to compete in the various examinations through competitive examination cells.
- Availing opportunities for placements- training and placement cell make students aware about available opportunities to students and by this help them to get placed.
- College tries to give its best possible to the students and due to its efforts college is recognized as best science colleges in surveys of reputed magazines.
- The principal takes interest in organizing seminars, conferences, workshops in various fields at the National and International level, as a result, national seminars (Innervate), state-level students seminars (Scintillation), departmental seminars, and workshops were conducted.
- Research committee encourages the staff for research; students for projects, M.Phil. and Ph.D. The students of this college are very supportive and disciplined. All the strategies are designed by keeping the students in the center. Therefore, one of the examples is shown below which has been deployed successfully.
- A perspective plan has been designed and deployed to inculcate interest in science among the students by the teaching faculty.
- Personal attention towards each student is not feasible due to the large volume of the classes (100 to 120 students per class). In order to promote research and to boost interest in science research, the promotion committee has introduced projects in UG. batches have been allotted to each department and initiative is taken to introduce paper reading analysis; review writing and interested students do small projects as well. The aim of this program is as follows :
- To increase interaction with students
- To increase interest in science
- To inculcate confidence in students
- To involve them in student projects

•To provide exposure for their all-round development

•Working :

•Batches of B.Sc. I; II and III are allotted to each department. Students have projects on their timetable weekly every Saturday.

•In this allotted time they are introduced to the basics of research. They are boosted to read research papers, encouraged to inculcate the practice of observations and data noting.

•Outcomes :

•Students are allotted small topics on which they work for a year then submit the reports to the concerned teacher. Though the research which students are doing is not of a very high level but due to this practice students moving for higher studies and research has been increased.

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
Paste link for additional information	https://jbsw.shikshamandal.org/wp-content/uploads/2022/02/Strategic-Plan-2017-2022.pdf
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

As per the rules of Autonomous college, the Statutory and nonstatutory committees, as well as other committees, are formed as per the need and college rules. These committees are chaired by the Principal of the college and coordinators and team (consisting of teaching and non-teaching staff as members) to execute the work. In some of the committees, students are also acting as active members.

College also has a college development committee and staff council for the review and planning of college development. All the committees are formed for two to three years and displayed on the staff notice board. Following the guidelines, the working of all the committees is executed. In this way, The administrative and college

work is dispersed as per the procedure.

File Description	Documents
Paste link to Organogram on the institution webpage	https://jbsw.shikshamandal.org/wp-content/uploads/2022/02/Organogram-of-Bajaj-College-of-Science.pdf
Upload any additional information	No File Uploaded
Paste link for additional Information	NIL

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	No File Uploaded
Screen shots of user interfaces	No File Uploaded
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The institution has always been trying to establish relationships with its staff to create and evolve a family environment. Owing to this, the best possible efforts are being made to make them homely and familiar in the institution.

•Staff Council - The staff council is established by the teaching staff members and is headed by the Principal as a Chairman wherein issues related to the administration and policies (if any) are discussed. The issues cropped up at the moment are always resolved with common consent. In case of any discrepancies, the guidance of management is sought sometimes. The faculty on his superannuation is felicitated by the council. The new appointees are introduced to the council in the meeting in order to make them familiar and

comfortable. The corpus fund is generated from the teaching staff to maintain the council's smooth functioning. Staff is felicitated for research and other academic achievements.

•Non-teaching Association: The separate organization is available (Jankidevi Bajaj College of Science, Non-Teaching union affiliated to Vidarbha Vibhagiya Mahavidhyalayin Shikshetar Karmachari Sanghatna). Their regular meetings are organized through this association to resolve the issues if any. The successful and meritorious students of the staff are motivated by felicitating them in these meetings.

•Cooperative society: A cooperative society has been established to help the staff financially. The loan up to Rs. 9 lakhs and emergency loan facility is also available for the needy staff, which is reimbursed in various comfortable installments from them. Marriages, education, unwanted incidences/casualties are always taken care of by society. Regular interest is provided against the deposits to all the members.

•Group insurance: Group insurance facility is available for all the staff members.

•Provident Fund: Regular contribution towards the Employee Provident Fund by management.

•General: Comfortable sitting arrangement for the staff (teaching and non-teaching) with a conducive environment is made available separately in each department.

•A facility of ambulances on one call and wheelchair is made available in the institution.

•The separate retiring room for women staff of the college has been made available.

•A common recreational room and canteen for all the staff are made available.

•Vidarbha is a heat-prone area therefore a facility of cooling system (coolers) and first aid box is too provided to each department. Water coolers and water purifiers facilities are also available on the campus.

•A facility of residential quarters for the teaching and non-teaching staff in the campus is available at a subsidized rent.

•For career development to attend FDP and conferences faculties are supported by granting duty leave. Research Promotion cell takes care of the research facilities and promotes research among staff. The library has enriched collections of books and journals. All the laboratories have been enriched with good instrumentation. The facility of Central Instrumentation Laboratory is available on the campus.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	NIL

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

0

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

03

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

22

File Description	Documents
Summary of the IQAC report	No File Uploaded
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	No File Uploaded

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Various grant-in aid and non-grant graduate and postgraduate science programmes (courses) are run by the college. Internal Auditor appointed by the parent organization -Shiksha Mandal, Shri Rajendra Bhutada, carries out annual budget on regular basis. The deficiencies in the budget are resolved immediately by the college time to time.

The grant received from UGC to the college through various projects is disbursed properly and the Utilisation Certificate for the same is submitted within due date. The grant received from the Government (DBT) to the college is too disbursed properly and its Utilisation Certificate is submitted within stipulated time-frame.

As the Joint Director, Higher Education ,Nagpur conducts External Audit of the grant-in -aid colleges as per their audit plan and time-table, the college has conducted the same in the academic session 2010-11. The report of this audit is available in the college. The deficiencies in the budget are resolved immediately by the college within time.

External audit of UGC-CPE and RUSA grant is also done through CAG. The queries in the budget are resolved by the college within time.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	NIL

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

nil

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	No File Uploaded

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

The fee of the grant-in-aid courses is regulated as per the University norms. The scholarship policy is stringently followed. As per the scheme, the scholarship-awarded students are either exempted from the college fees or seek admission by depositing nominal fees.

Only students belonging to open categories need to pay admission fees. The scholarship-recipient students are exempted from the college fees, for, their fees are borne by the Government. The fund raised through the fees is utilized for various expenditures with proper planning. It contains various recurring and non-recurring expenditures. But the fund is insufficient to run various expenses of the college. Thus, the college demands from the parent organization Shiksha Mandal the same.

The Budget of Expenses is prepared and it is passed annually by College Development Committee (CDC) finance committee and governing body(Autonomy). The planning of expenditure is carried out in consultation with all the Heads of the Department (HODs) through the discussions in the meeting. Laboratory maintenance fund is disbursed to each Department on the basis of students' proportion existing in the department. HOD of each Department prepares a list of recurring and non-recurring expenses on the basis of the availability of apparatus and a number of the required equipment in the laboratory.

The university-approved non-grant, self-financed post-graduate courses are also run by the college. Their fees are too governed and regulated by the University. The students of these courses are too eligible to avail of the scholarship schemes of the Government of India (GOI). The scholarship-receiving students seek admission by

depositing nominal fees. Their remaining fee is borne by the Government. The students from the Open category have been provided with an Installment facility wherein they can deposit their fees in installments periodically.

The Budget of Expenses is prepared annually. The planning of expenditure is made in consultation with all the heads of the Departments through the discussions in the meeting. The amount is distributed to each department for teachers' remuneration, contingencies, recurring and non-recurring expenditure in the proportion of existing students' strength in the department. A list of required apparatus and equipment; recurring and non-recurring expenses in the department are prepared by the respective head of the department.

The college receives grants from UGC and Government through various schemes such as UGC's XI and XII five-year plan, Additional Assistance, CPE, BSR, Building fund, Major and Minor Research Project, and Government's DBT Star College Scheme.

The Purchase Committee is established on the college level which purchases various recurring and non-recurring items in consultation and discussion with all Heads of the departments.

All heads of departments and senior faculties are consulted while planning above mentioned grants. It contains recurring and non-recurring expenditures. It focuses on the inculcation of research-oriented attitudes amongst the students. Students are motivated for various projects and additional laboratory tools are purchased during the process. The thrust is on society-oriented research.

Tender notices are given and quotations are called for the purchase. The purchase committee negotiates with the suppliers on the basis of the quality of items. Prices are finalized depending on the quality of the items to be purchased.

The quotations are called from various firms and suppliers. The final order is placed only after the comparative study regarding the standard of quality and reasonable prices.

In this way, recurring and non-recurring expenditure is timely disbursed.

An audit of every purchase is carried out compulsorily, whether or not the utilization certificate is to be sent to the final authorities. All the utilization certificates are sent to the concerned authority within due dates.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	NIL

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

As a post-accreditation initiative, the faculties are kept updated on the compliances received from NAAC after the accreditation process. Timely AQAR data submission through IQAC is being carried out. The college received Autonomous status from 2017 to 18. Construction of new buildings for the department of chemistry and physics New courses started - M.Sc. Mathematics New certificate courses and New skill enhancement courses introduced. Continued Projects at UG and PG; due to COVID -19 students were asked to do an online survey or paper review. The syllabus was modified as per the need of students so that they could compete in the competitive world.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://jbsw.shikshamandal.org/wp-content/uploads/2022/04/IQAC-MEETINGS-20-21d_compressed.pdf

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

•For the effective teaching-learning process; the classrooms were made Wi-Fi, ICT facilities enabled.

•Time table is distributed to the respective departments and timetable and workload distribution of the department is done by the respective heads. The departmental Teaching plan is made by respective staff and a review of teaching-learning is taken by the head of departments from time to time.

•Departmental teaching plan is also reviewed by the Principal and management from time to time. Looking into the scenario of COVID -19 teaching has been done through online mode and is molded from time to time as per the need; i.e. video lectures, recorded lectures via OBS, Zoom meetings, etc. learning outcome is also analyzed through attendance, tests, quizzes, assignments using popular LMS.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	NIL

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	NIL
Upload e-copies of accreditations and certification	No File Uploaded
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Bajaj College of Science, Wardha has a separate NCC women's wing where 20 girls have been selected from the newly admitted students. College also has a separate internal complaint cell to tackle issues related to women's safety and security. Whenever necessary, counseling is also provided by respective coordinators. The different schemes in the college aim to foster an environment in which unlawful discrimination and harassment are not tolerated and where all members of the college community are encouraged to achieve their full potential. College administration also takes care that women should be involved in various administrative decisions, thus some important administrative positions are handled by female employees. A female student has been elected to represent students in the college development committee. The college has a sprawling campus with a safe environment monitored by CCTV cameras. The current intake of female students is found to be well balanced for this session. Though the participation of girls in the outreach, sports, and other activities was restricted due to the COVID 19 protocols.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	NIL

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

D. Any 1of the above

File Description	Documents
Geotagged Photographs	No File Uploaded
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Waste is generated from several facilities of the college, including offices, laboratories, cafeteria, etc. without an effective management program, solid waste may have injurious effects in the

surrounding. The waste generated is in the form of used papers, plastics, electronic waste, solid waste, litter, glassware, etc. The campus of Bajaj College of Science, Wardha, is extensive and beautified with lot of trees and shrubs. Eventually, the worn-out foliage of plants associated with the frequent removal of weeds, leads to accumulation of solid litter waste. Canteen waste, hostel kitchen waste, laboratory waste, and domestic waste from staff quarters are the contributors to solid waste. Dry waste is stored at a transfer station within the campus. The wet waste developed in canteen and hostel is dumped in compost pits for manure generation. Various methods of waste disposal are adopted by the college, accordingly. The E-waste generated is stored and sent to vendor for disposal or recycling. The college administration has taken an initiative to minimize the plastic usage within the campus. Solid waste such as damaged furniture is reused to make racks and keeps as required. The chemical wastes generated in the laboratories are neutralized by water before releasing in the main sewer. A specialized treatment unit of laboratory sewage is under construction. The biodegradable waste plant litter, waste papers, fallen leaves and branches, are dumped in the compost pit, and covered with a layer of dung, which after a period of 4-5 months is converted to organic manure. This manure is used as fertilizer for plants in Botanical Garden and campus. Wastewater from urinals, bathrooms, etc., is disposed in the pits. With respect to strict protocol of COVID, this session remains idle for most of all these practices.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	View File
Any other relevant information	No File Uploaded

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	C. Any 2 of the above
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File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

B. Any 3 of the above

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

- 1. Green audit**
- 2. Energy audit**
- 3. Environment audit**
- 4. Clean and green campus recognitions/awards**
- 5. Beyond the campus environmental promotional activities**

E. None of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

D. Any 1of the above

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

Shiksha Mandal's premiere autonomous institute Bajaj College of Science is known for its novel activities, humanitarian programs and social-cultural welfare. Carrying forward the legacy of imbibing moral values inculcated by its Founder Late Shri Jammalal Bajaj and the teaching of our Father of Nation Mahatma Gandhi Bajaj College of Science is progressing towards achieving the goals of Shiksha Mandal. In this glorious tradition BCS (Bajaj College of Science)

also caters the need for an inclusive education is which leads towards harmony. The institute aims at achieving unity despite other diversities. In this dissection, our institute organizes many events. Besides celebrating national and international commemorative days the institute conducts weekly session of "Happy Thoughts" on imitative which blends science and spirituality. To implement this, batchwise time - table has been made/scheduled incorporating these sessions. In order to support the students to overcome their difficulties in english communication and basics of IT we have run a separate programme free of cost. Students feel free to interact with faculties for their doubts.

Due to COVID restrictions, students were not able to come along to celebrate the cultural and regional festivals in the campus.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	No File Uploaded

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The institute has taken possible efforts to sensitize students and its employees to the constitutional obligations during the pandemic. The institute has code of conduct for students and employees. The dress code is compulsory for the students as it brings the sense of equality between the students. Students were encouraged to take part in virtual debate competitions and other activities related to social equality. Institute organises various events related to women's empowerment, one of the events conducted was on 10th March 2021, by Adv. Padma Chandekar from Nagpur on the topic "Women Empowerment: Legal aspects". Various activities conducted by NSS are Celebration of International Yoga Day, Tree Plantation and cleanliness drive across the Bajaj College of Science Campus, Awareness programme on Covid-19, Participation in National Youth Day, Celebration of Azadi ki Amrut Mahotsav, Celebration of Constitution Day, contribution to Society during covid19 pandemic. The institute celebrated Republic Day, Independence Day and Gandhi Jayanti with all required safety related to COVID19. Due to covid-19 restrictions many of the regular activities could not being organized. Most of the activities have been caried out online.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	No File Uploaded
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

D. Any 1 of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	No File Uploaded
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

To promote patriotism and respect for the nation and constitution institute celebrates republic day and Independence Day with full joy. Due to covid-19 restrictions the students were not allowed to attend physically. Both the events celebrated with the same joy as previous years with the presence of staff members and few NCC cadets. For the other students the live streaming of the event was made available. To pay homage to Rashtrapita Mahatma Gandhi and Lal Bahadur Shastri, Gandhi Jayanti and Lal Bahadur Shastri Jayanti was celebrated on 2nd October 2020 following all Covid-19 norms in the college premises. To follow Mahatma Gandhi's thoughts on cleanliness all the staff members have contributed to clean the widely spread college premises. To pay respect to our constitution and remember

our duties and responsibilities to our nation, constitution day was celebrated on 26th November 2020 in the college library A virtual talk by Adv. Padma Chandekar on the topic "Women Empowerment: Legal aspects" and a seminar competition was organised on International Women's Day on 10th March 2021.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	No File Uploaded
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

1. Title of the Practice: Computer Awareness Course

1. Goal:

- This course aims at providing basic computer skills to all the B.Sc. First year students of the college.
- To make the students confident and skilful in handling the computers related to their academic and day-to-day works.
- To make them familiar with the Internet World.

1. Context:

The present techno keen world requests that the students should utilize changed on the web and specialized assets to get to huge loads of data identified with their scholastics separated from the customary strategies for learning. Notwithstanding, a large portion of the students of our college are from rural areas, as such the greater part of them do not have this openness to PCs and late patterns in E-world. Our college has consistently strived for its undergraduates for their improvement every way. As a piece of this drive, the Computer Awareness Course was planned and presented from the academic year of 2017-18 for every B.Sc. First year student of the college. The course is planned in such a manner with the goal that it targets mastering the abilities as opposed to simple reasonable information.

1. Practice:

There are two variations of this course. The one variation is explicitly created for the Computer Science students which comprises of cutting edge ideas identified with Indian IT Act, Cyber Awareness, Internet innovations, and so on, and the other variation of the course is produced for rest of the first year students that targets giving essential PC abilities like prologue to Fundamentals of PCs, Working with MS Word and Basics of an Internet.

During the principal semester, every learner of Biology stream take part in the course and in the subsequent semester, students from Mathematics stream including the Computer Science understudies take part and gain from this course. Every batch is allotted one session per week during which they are imparted with practical skills related to computer handling and working with them. The accentuation is more on learning by doing. At the end of semester, they need to appear for a final exam comprising of multiple choice questions and a viable assessment. Due to the COVID - 19 pandemic breakouts, the students were taught using pre-recorded video lectures using Moodle LMS. The course was conducted in online mode through the <https://firstyearbcsw2021.gnomio.com/>. The course was started from 1st November, 2020 and thereafter continued till the end of the session. 353 students were enrolled for this course.

1. Evidence of Success:

It has been seen that whatever abilities that are obtained by our understudies from this course has helped them profoundly in their scholastics. The impacts of this compulsory course that we have begun structure 2017-18 meeting could be seen from that point forward. A stamped improvement has been found with regards as far as anyone is concerned of PCs and the manner in which they use PCs viably for their work. The course is assisting them with becoming self-subordinate with regards to PC related requirements. For instance, students all alone make their e-tasks, project reports, presentations, articles and papers, etc. for which they used to rely upon others already. Web related abilities help them for getting to different internet based assets viably. Besides, they gain crucial contributions on the best way to shield themselves in the cyberspace which is the present need. This has likewise inspired them to get to know the information on on-going patterns in innovation.

1. Problems encountered and resources required:

- Due to openness and language issues, few learners need more

opportunity to get a hand on the technological innovation.

- Practice is the significant issue as few students lack electronic devices at their place.
- Most normal issue experienced is the dread of understudies with respect to the utilization of PCs. Some of the time learners think that it is hard to recall the techno- jargon.
- Difficult to concentrate on the feeble students by giving them the additional window as they lack required facilities to rehearse at their home.
- Online instructions COVID protocols.

File Description	Documents
Best practices in the Institutional website	https://jbsw.shikshamandal.org/wp-content/uploads/2022/03/Best-Practices-2020-21.pdf
Any other relevant information	<u>NIL</u>

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

College is mentoring a sister institute Bajaj Science Center located nearby to the institute where around 500 school students of Wardha district are coming to learn science by doing experiments. We have continued and strengtned this practice via virtual sessions.

For details, one can visit www.bjajsciencecenter.co.in

Role of Bajaj College of Science (BCS):

Bajaj College of Science facilitated the centre for all kinds of scientific inputs/discussions. Since 2007, faculties of Bajaj College of Science often visit the place to deliver some sessions. Presently, Dr. G.V. Lakhotiya, from department of Physics is looking after this outreach as the honorary director of the center. Laboratories at the center (Physics, mathematics, chemistry, biology, electronics) are mentored by the faculties of the college.

In this session, some of the faculties were involved for training

students for the International Olympiad programme. Online sessions were conducted to train the selected students in different subjects. Faculties have also mentored students for their projects at National level competitions. College was also instrumental in getting associated with the weekend science virtual talks where experts across the country delivered talks on some popular topics in science education. Total 25 episodes were broadcast on youtube channel and have attracted science lovers.

File Description	Documents
Appropriate link in the institutional website	https://jbsw.shikshamandal.org/wp-content/uploads/2022/03/Institute-Distinctiveness-2020-21.pdf
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

Plan of Action

In our next session, we would like to give attention to our lacunas in the following sections:

Solar Panel Installions

Energy and green audit of the campus

Promotion of Plastic Substitution

Solid Waste Managemet Practices within the campus

Some activities to sensitize students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens