



Yearly Status Report - 2018-2019

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 own campus	Yes
Phone no/Alternate Phone no.	07152230515
Mobile no.	9890845825
Registered Email	jbsciencewardha@yahoo.co.in
Alternate Email	jbsciencewardha@gmail.com
Address	Jamnalal Bajaj Marg, Civil Lines
City/Town	Wardha
State/UT	Maharashtra
Pincode	442001

2. Institutional Status					
Autonomous Status (Provide date of Conformant of Autonomous Status)			06-Apr-2017		
Type of Institution			Co-education		
Location			Urban		
Financial Status			Self financed and grant-in-aid		
Name of the IQAC co-ordinator/Director			Dr. S. S. Zade		
Phone no/Alternate Phone no.			07152230515		
Mobile no.			9823304696		
Registered Email			sanjivszade@gmail.com		
Alternate Email			sanjivzade@yahoo.com		
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)			http://jbsw.shikshamandal.org/wp-content/uploads/2014/07/MHCOGN10016-Jankidevi-Bajaj-College-of-Science-Wardha-Maharashtra-AQAR-2017-18.pdf		
4. Whether Academic Calendar prepared during the year			Yes		
if yes,whether it is uploaded in the institutional website: Weblink :			http://jbsw.shikshamandal.org/wp-content/uploads/2020/06/Academic-Calender-2018-19.pdf		
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
3	A	3.21	2014	21-Feb-2014	20-Feb-2019
3	A	3.21	2019	21-Feb-2019	31-Dec-2022
6. Date of Establishment of IQAC			06-Jan-2000		
7. Internal Quality Assurance System					

Quality initiatives by IQAC during the year for promoting quality culture

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Remedial classes for slow learners and guidance for competitive exams like JAM to advanced learners.	15-Jun-2018 60	182
Personal guidance and overall development of students through Teacher-guardian student cluster scheme	15-Jun-2018 300	324
Efforts to reduce dropout rate and enhance career guidance and placement activity.	15-Jun-2018 300	979
Fulfillment of recommendations of NAAC peer team during 3rd cycle: Construction of new Library building, Central instrumentation facility, central computing facility.	15-Jun-2018 300	979
Clean conduct of exams under autonomy. Transparent Paper setting and evaluation process. Declaration of results within 30 days of exam.	11-Mar-2019 30	741
Syllabus framing for B.Sc.II and M.Sc. Sem II with focus on applications, employment and industry needs by all BOS and its approval in Academic council.	28-Jul-2018 15	330

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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Jankidevi Bajaj College of Science, Wardha	Autonomous College Grant	UGC	2018 365	900000
Jankidevi Bajaj College of Science, Wardha	RUSA Comp 9	State Govt.	2019 365	10000000

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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	8
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
12. Significant contributions made by IQAC during the current year(maximum five bullets)	
<p>Syllabus framing for B.Sc.II and M.Sc. Sem II with focus on applications, employment and industry needs. Clean conduct of exams under autonomy. Declaration of results within 30 days of exam. Preparation of AQAR. Fulfillment of recommendations of NAAC peer team during 3rd cycle: Construction of new Library building, Central instrumentation facility, central computing facility. Efforts to reduce dropout rate and enhance career guidance and placement activity. Personal guidance and overall development of students through Teacher guardian student cluster scheme'</p>	
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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year	
Plan of Action	Achievements/Outcomes
To comply with the 11 recommendations given by NAAC peer team during third cycle	Recommendations fulfilled =6 (Library, Central instrumentation, central computing, Ph.D , Reduce dropout rate, Career guidance and placement). Partially fulfilled= 3 (Journals, collaborations, feedback). Not fulfilled =2 (PG maths & C/S ,Competitive exams cell)
Implementation of academic autonomy for the second year. To obtain approval for autonomy marksheets from University	College conducted the UG and PG summer examination of Sem II and IV under autonomy. BOS in all subjects framed syllabus for entire UG and PG programmes, which are passed in academic council. The RTMNU wants our marksheet exactly in same form as RTMNU

	w.r.t. internal marks, incentive marks and other things. Accordingly the marksheets are modified and submitted to RTMNU. The marksheet issue is still pending for approval.
To improve students' performance in exams. Use of Moodle	Two ICE (Internal college exam) and Topic-wise tests in addition to ICE have been conducted. Chemistry department has used Moodle for internal assessment of UG PG students.
To guide students for competitive examination like IIT JAM, NET, SET, GATE, PET	Six students qualifies IIT JAM in March 2019. B.Sc. students are guided for various PG entrance examinations. Students are guided for NET, SET GATE and PET exams.
To enhance students participation in various curricular, co-curricular, and extra curricular activities, value education	NCC, NSS, CWSS, PEC Activities: Blood group checking, Haemoglobin checking (21 aug), Blood donation, Visit to 'vrudhashram'(21 Aug), Yoga day(21st june) Tree Plantation, world population day(11 july), Achievement: Divya Raghatate got 'A'grade in NCC 'C' level. Student seminars conducted. A guest lecture on human rights and constitution is organised Two students got consolation prizes in Mathematics quiz at Taywade college Koradi Nagpur Four students got prizes in Physics seminar at Vupta and other seminars Three students received INSA summer training fellowship Two PG Botany students worked as summer trainee under Dr. Shouche, Director NCMR Pune. Three students got first prize in SM quiz competition. Industry - academia workshop at Dept of M/B Four prizes won by our students in National Voter's day Celebration completion. Two students participated in ASPEN leadership programme. Three students worked in Gandhi Vichar Parishad.
Promotion of research	Under the 'MANAV' initiative of NCCS & IISER Pune., JBCS students will be trained to collate information on human physiology, diseases, clinical assessment and healthcare products. NCCS and IISER will provide Hands-on training to students. • Ms. Arti Prajale defended Ph.D Viva • Ajay Pissude (Chemistry) and Ku. Meenal Shukla (Botany) has submitted their Ph. D. Thesis to RTM Nagpur University, Nagpur. • College selected as "Institution's Innovation Council" by MHRD's Innovation Cell, Govt. of India, • College has functional MOUs with NCCS-

	Pune, MGIRI-Wardha, Kamala Pathalogy-Wardha and Amey Pathalogy-Wardha • Revenue generated from consultancy of Soil analysis, XRD, FT-IR, UV, and Biological Activities: Rs. 39200/-. Papers published in journals = 14 Paper presented in conference = 10 Books published = 2
To organise a state level student seminar competition.	The IQAC organised a state level student seminar competition 'Scintillation 2019' on 19th March 2019.
Organization of Workshops	One day workshop on "Isolation of genomic DNA & PCR" Under Edu-bridge programme between JBCS & NCCS on 14 th Feb. 2019. • One day workshop on "Hands on Bioinformatics" Under Edu-bridge programme between JBCS & NCCS on 15 th Feb. 2019. • One day International Webinar on "Trends in Genetic Modification" organized by Microbiologist Society ,India and Badrinarayan Barwale Mahavidyalaya Jalna, arranged at J. B. College of Science,Wardha on 9 th Feb. 2019. • One day International Webinar on "Ingress into Industry" organized by Microbiologist Society, India and K. K. Wagh Arts, Commerce and Science and Computer Science College, Nashik on 28 th Dec. 2018. • Seminar on "Transformation in Bacteria" organized on 7 th February 2019.
FDPs	<ul style="list-style-type: none"> • Four faculty members completed online refresher course offered by MHRD, GOI. • A one day workshop was organized by IQAC and Depts. of C/S and Chemistry on Moodle for faculty members .
To start PG in Mathematics and C/S	RTMNU LEC visited the college for approval to start M.Sc. in Mathematics and C/S
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
CDC	11-Jun-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
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Date of Visit	27-Apr-2019
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2019
Date of Submission	11-Jun-2019
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The college is using a specially designed software in administrative office for managing the students' data like admission, collecting fees, generating various reports and transfer certificates of students. The college promotes cashless system. All fees are collected online from the students. All GOI scholarships are disbursed to students through MIS. Ledger records are maintained electronically using Tally. Students' information for enrollment is uploaded on the university portal online. All information regarding the college is uploaded on the college website so that it could be easily accessible. The examination department keeps and maintains the database of students which is used for submission of internal marks, generation of hall tickets, preparing mark sheets and other examination related work.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BSc	UG	PCM, PEM, PCsM, ECsM, CZMb, CBMb, CBBt, CZBt, CBZ	28/07/2018
MSc	PG	Chemistry, Botany, Zoology, Microbiology	28/07/2018

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BSc	Clinical Laboratory Techniques	15/06/2018	Clinical Laboratory Techniques CC1-CLT	15/06/2018
BSc	Herbs and Herbal Products	15/06/2018	Herbs and Herbal Products, CC2-HHP	15/06/2018
MSc	Statistical Analysis using R	15/06/2018	Statistical Analysis using R , CC3-R	15/06/2018
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BSc Nutrition	No Programme introduced in 2018-19. BSc Nutrition is Mentioned just to facilitate online submission. otherwise it gives error.	15/06/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
MSc	Chemistry, Botany, Zoology, Microbiology	15/06/2018

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Communication English	15/06/2018	200
Computer awareness	15/06/2018	329
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BSc	Field Projects / Internship	28
MSc	Field Projects / Internship	9
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

Feedback on curriculum has been taken by stakeholders like students, teachers, alumni and parents. It is analysed by the feedback committee and the feedback is discussed in the common meetings. The feedback is used for the development of college as well as for curriculum. Analysis of Student's Feedback The students are the most important stakeholders of Higher Education system. For academic year 2018-19 feedback from our under graduate and post graduate students have been collected and analysed. The report is as follows- For Under graduate on an average 24.51 students in the favour of excellent, 37.90 in very good, 28.97 in good, 6.82 in average 1.60 in below average with the current curriculum designed by Bajaj College of Science, Wardha. For Post graduate on an average 15.96 students in the favour of excellent, 34.91 in very good, 38.01 in good, 9.30 in average 1.75 in below average with the current curriculum designed by Bajaj College of Science, Wardha. Analysis of Teachers' Feedback For academic year 2018-19 feedback from under graduate and post graduate teachers have been collected and analysed. The report is as follows- For Under graduate on an average 52 teachers strongly agree, 46.40 agree, 0.40 uncertain 1.20 disagree with the current curriculum designed by Bajaj College of Science, Wardha. For Post graduate on an average 42.27 teachers strongly agree 52.73 agree with the current curriculum designed by Bajaj College of Science, Wardha. Analysis of Parents' Feedback Approximately 50 parents gave their feedback. Parents are of opinion that it is one of the best science colleges which is imparting science education. They appreciated efforts taken up by staff for their wards. Analysis of Alumni's' Feedback Alumni appreciated college being best science college of the area. They expressed to increase extracurricular activities and tours for the exposure of students.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
PhD or DPhil	PhD(Chemistry)	10	0	4
PhD or DPhil	PhD (Botany)	10	0	7
MSc	Master of Science	176	167	165
BSc	Bachelor of Science	320	1146	803

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	803	165	33	9	23

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
42	42	8	13	0	5
View File of ICT Tools and resources					
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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Student's Mentoring system Regular Faculty of our college has been working as mentors for undergraduate and postgraduate students. Based on their performance, faculty categorise students as slow learner and advanced learner. 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 and cultural activities. They are also identified when subjected to various methods of evaluations like vocal responses, assignments, monthly unit tests, projects, extra experiments, class room seminars and test examination at the end of semester. 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 a healthy and conducive environment. Some of the remedial measures taken by teachers are as follows. • By repeating every basic instruction, keyword and concept again and again in the classroom so that their weak cognitive skills coupled with the slow speed learning can be matched. • Special extra time is given to slow learners to increase their confidence. • By explaining concepts and situations using real life practical examples. • By not pressurizing them for time management or anything else. • Remedial classes are arranged for these students. • Clusters are formed to address their difficulty at a personal level on every Saturday. 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 Quiz, elocution, debate, science exhibition etc. Motivational lectures are organized to channelize their potential to accomplish their goals.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
979	27	1 : 36

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
53	27	26	0	21

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from	Designation	Name of the award, fellowship, received from
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	state level, national level, international level		Government or recognized bodies
2018	Nil	IQAC / CIQA coordinator	NA
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BSc	BSc Sup.	Semester II Winter 2018	12/07/2018	05/10/2018
MSc	MSc Sup.	Semester II Winter 2018	04/07/2018	05/10/2018
BSc	BSc Reg.	Semester II Summer 2018	27/04/2018	28/04/2018
MSc	MSc Reg.	Semester II Summer 2018	24/04/2018	28/04/2018
BSc	BSc Sup.	Semester I Summer 2018	31/03/2018	28/04/2018
MSc	MSc Sup.	Semester I Summer 2018	28/03/2018	24/04/2018
MSc	MSc Reg.	Semester I, Semester III Winter 2018	05/12/2018	26/12/2018
BSc	BSc Reg.	Semester I, Semester III Winter 2018	05/12/2018	26/12/2018
MSc	MSc Sup.	Semester I, Semester III Summer 2019	25/02/2019	25/04/2019
BSc	BSc Sup.	Semester I, Semester III Summer 2019	16/03/2019	25/04/2019
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
0	0	0

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://jbsw.shikshamandal.org/wp-content/uploads/2020/06/Programme-Outcomes-BCS.pdf>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
Winter 2018	BSc	Semester V	227	147	64.76
Winter 2018	BSc	Semester III	248	110	44.35
Winter 2018	BSc	Semester I	316	72	22.78
Summer 2019	BSc	Semester VI	227	213	93.83
Summer 2019	BSc	Semester IV	233	110	47.21
Summer 2019	BSc	Semester II	276	117	42.39
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

http://jbsw.shikshamandal.org/?page_id=2021

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

No

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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Nil	NA	15/06/2018	NA
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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Total	00	NA	0	0
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Industry-Academia	Chemistry	07/02/2019

Innovative practices with Bajaj Superpack India Ltd.,Hingana, Nagpur		
One day workshop on "Isolation of genomic DNA PCR" Under Edu-bridge programme between JBCS NCCS	Microbiology	14/02/2019
One day International Webinar on "Trends in Genetic Modification" organized by Microbiologist Society ,India and Badrinarayan Barwale Mahavidyalaya Jalna, arranged at J. B. College of Science,Wardha	Microbiology	15/02/2019
One day International Webinar on "Ingress into Industry" organized by Microbiologist Society, India and K. K. Wagh Arts, Commerce and Science and Computer Science College, Nashik	Microbiology	09/02/2019
Seminar on "Transformation in Bacteria"	Microbiology	07/02/2019
One day International Webinar on "Ingress into Industry" organized by Microbiologist Society, India and K. K. Wagh Arts, Commerce and Science and Computer Science College, Nashik	Microbiology	28/12/2018
Workshop on Drosophila as a genetic model	Zoology	21/12/2018
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Nil	NA	NA	15/06/2018	NA
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
Astro Club	Astro Club	Self sponsored	Nil	Nil	02/07/2018
Institution's Innovation Council	Institution's Innovation Council	MHRD, Govt of India	Nil	Nil	21/11/2018

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[View File](#)**3.4 – Research Publications and Awards**

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Chemistry	1
Physics	1

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Chemistry	4	0.58
International	Botany	5	0
International	Microbiology	5	0
National	Electronics	2	0

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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Botany	1
Microbiology	5
Electronics	1
Chemistry	7

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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Nil	Filed	00	15/06/2018

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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Stability Constants of Complexes of Cr (II) and Sr (II) with Quinazoline and Dihydroxydropyridine in Dioxane	Tekade, Pradip V., et al.	Russian Journal of Physical Chemistry A 92.11 (2018): 2187-2190	2018	3	Jankidevi Bajaj College of Science, Wardha	0

ne-Water Mixture on Spectrophotometric Data						
Specific Molecular Interactions of Dihydropyridine Moiety in Polar and Non-Polar Solvents at Various Concentrations and Temperatures 303-318 K on Ultrasonic Data	Tekade, Pradip V., et al.	Russian Journal of Physical Chemistry A92.12 (2018): 2488-2496	2018	3	Jankidevi Bajaj College of Science, Wardha	0
Proton/Metal-Ligand Stability Constants of Complexes of Sr (II), Cr (II), and Al (III) with N-Phthaloyl Aminoacid and Benzimidazole Derivatives in Dioxane-Water Mixture	Tekade, Pradip V., et al.	Russian Journal of Physical Chemistry A 92.12 (2018): 2596-2599	2018	3	Jankidevi Bajaj College of Science, Wardha	0
Strengthening of photovoltaic and supercapacitive properties of graphene oxide-polyaniline composite by dispersion of α -Al ₂ O ₃ nanopartic	Kailash Nemade, Pradip Tekade, Priyanka Dudhe	Chemical Physics Letters 706 (2018) 647-651	2018	3	Jankidevi Bajaj College of Science, Wardha	3

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In vitro binding study of 4hddd to BSA at physiological pH: Acoustical and thermodynamic study	Ajay Pisudde, Pradip Tekade, Shrikant Thakare, Pravin Bodkhe, Sandip Petare	Heterocyclic Letters, Vol. 8 No .2,367-373 , Feb-April, 2018	2018	3	Jankidevi Bajaj College of Science, Wardha	0
In Vitro Study of Interaction of Carboxamide Derivatives of Amino Acid with BSA: Ultrasonic Interferometer	Shrikant Bandupant Thakare, Pradip Vitthalrao Tekade, Ajay Madhukarrao Pisudde	Orbital: The Electronic Journal of Chemistry ,Vol 1, No. 5	2018	3	Jankidevi Bajaj College of Science, Wardha	0
In vitro binding analysis of benzimidazole derivatives to BSA: acoustical, thermodynamic and molecular modeling study	Pradip V. Tekade, Ajay M. Pisudde, Om A. Mahodaya Shrikant B. Thakare	Global Journal of Engineering Science and Researches	2018	3	Jankidevi Bajaj College of Science, Wardha	0
Enhancement of photovoltaic performance of polyaniline/graphene composite-based dye-sensitized solar cells by adding TiO2 nanoparticles	Kailash Nemade, Priyanka Dudhe, Pradip Tekade	Solid State Sciences, vol. 83, pp 99-106 (Elsevier)	2018	3	Jankidevi Bajaj College of Science, Wardha	3
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations	Institutional affiliation as
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					excluding self citation	mentioned in the publication
Enhancement of photovoltaic performance of polyani line/graphene composite-based dye-sensitized solar cells by adding TiO ₂ nanoparticles	Kailash Nemade, Priyanka Dudhe, Pradip Tekade	Solid State Sciences, vol. 83, pp 99-106 (Elsevier)	2018	3	0	Jankidevi Bajaj College of Science, Wardha.
In vitro binding analysis of benzimidazole derivatives to BSA: acoustical, thermodynamic and molecular modeling study	Pradip V. Tekade, Ajay M. Pisudde, Om A. Mahodaya Shrikant B. Thakare	Global Journal of Engineering Science and Researches,	2018	3	0	Jankidevi Bajaj College of Science, Wardha.
In Vitro Study of Interaction of Carboxamide Derivatives of Amino Acid with BSA: Ultrasonic Interferometer	Shrikant Bandupant Thakare, Pradip Vitthalrao Tekade, Ajay Madhukarrao Pisudde	Orbital: The Electronic Journal of Chemistry, Vol 1, No. 5	2018	3	3	Jankidevi Bajaj College of Science, Wardha.
In vitro binding study of 4hddd to BSA at physiological pH: Acoustical and thermodynamic study	Ajay Pisudde, Pradip Tekade, Shrikant Thakare, Pravin Bodkhe, Sandip Petare	Heterocyclic Letters, Vol. 8 No .2 367-373 Feb-April 2018	2018	3	0	Jankidevi Bajaj College of Science, Wardha.
Strengthening of photovoltaic and superc	Kailash Nemade, Pradip Tekade ,	Chemical Physics Letters 706 (2018)	2018	3	0	Jankidevi Bajaj College of Science,

apacitive properties of graphene oxide-polyaniline composite by dispersion of a-Al ₂ O ₃ nanoparticles	Priyanka Dudhe	647-651				Wardha.
Proton/Metal-Ligand Stability Constants of Complexes of Sr (II), Cr (II), and Al (III) with N-Phthaloyl Aminoacid and Benzimidazole Derivatives in Dioxane-Water Mixture.	Tekade, Pradip V., et al.	Russian Journal of Physical Chemistry A 92.12 (2018): 2596-2599	2018	3	0	Jankidevi Bajaj College of Science, Wardha
Stability Constants of Complexes of Cr (II) and Sr (II) with Quinazoline and Dihydropyridine in Dioxane-Water Mixture on Spectrophotometric Data	Tekade, Pradip V., et al.	Russian Journal of Physical Chemistry A 92.11 (2018): 2187-2190	2018	3	3	Jankidevi Bajaj College of Science, Wardha

[View File](#)

3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	0	0	0	0
Presented papers	4	6	0	0

Resource persons	0	0	3	9
View File				

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Centralized instrumentation centre (CIC)	Soil analysis, XRD, FT-IR, UV, and Biological activities	As mentioned in uploaded file	54300
View File			

3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Nil	NA	NA	0	0
View File				

3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Blood donation by NCC Boys	Forest department wardha	1	5
AIDS awareness activity by NCC girls	NCC Unit	1	40
Swatchh Bharat abiyaan by NCC girls	NCC Unit	1	42
Railway satation cleanliness drive NCC girls	NCC Unit	1	59
Blood donation camp by CWSS	Alumni association JB College of science wardha and Rotary club	4	53
Self defence programme BY CWSS	Damini Unit Wardha police	4	70
Internationals womens day CWSS	CWSS	4	65
Orientation programme on Human rights The Constitution of India by NSS	Tech trainers and testers Pune Pvt. Ltd	3	150

Eye Check-up Camp by NSS	Vision group, Bajaj Allianz	3	75
Health Check-up Camp by NSS	Satya Sai Foundation roup, Wardha	3	75
View File			

3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Firing NCC Girls Batalian	Gold Medal in Firing	3- Mah. Girls Bt. Nagpur	1
View File			

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Swatchh Bharat	MAH BN,NCC WARDHA	PLOGGING	1	34
AIDS Awareness	NCC Boys Unit and GENERAL HOSPITAL WARDHA	AIDS AWARENESS RALLY	1	25
Swatchh Bharat	CWSS	Dengue awareness	3	18
National voters day	PEC District Collector Office	Voting Awareness	4	150
National voters day	NSS District Collector Office	National voters day Celebration	3	150
View File				

3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Collaborative activity for Research and Internship with Centre for Materials for Electronics Technology C-MET Pune: Ministry of Electronics Information Technology (MeitY), Govt. of India	Mr G V Lakhotiya (Faculty)	self finance	30

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Project work and Sharing of research facilities	Project work	Mahatma Gandhi Institute for Rural Industrialization: MGIRI-Wardha :A National Institute under the ministry of micro and medium enterprises, Govt. Of India	01/08/2018	31/01/2019	1. Harshada Chikhalkar 2. Sakshi Kawale
Internship	Internship program for UG students	Centre for Materials for Electronics Technology C-MET Pune: Ministry of Electronics Information Technology (MeitY), Govt. of India	02/05/2019	05/07/2019	Ms. Urvi Gupta
Internship	Internship program for UG students	National source of microbial resource (NCMR), Pune	20/05/2019	28/06/2019	Ms. Kalyani Badhiye
Internship	Internship program for UG students	Department of Instrumentation Science, Savitribai Pune University, Pune	06/05/2019	17/06/2019	Mr A C Nagrale
Research Fellowship	Summer Research Fellowship	Sponsored by IASC (Banglore)	02/05/2019	02/07/2019	Mr Kartik G Gokhe

	Programme	and INSA (New Delhi) and NASI (Allahabad)			
Research Fellowship	Summer Research Fellowship Programme	National centre for cell sciences (NCCS), Pune	10/05/2019	12/07/2019	Ms. Trupti Murkute
Summer Internship	Summer Internship	NIT Rourkela	20/05/2019	20/07/2019	Aditya Bhaskarwar and Ayushi Chaudhary
View File					

3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
EdCIL (India) Limited, A CPSE Under MHRD, Implementing Partner for Study in India, A Programme Under Ministry of Human Resource Development, Government of India.	01/06/2018	Admission to foreign students Activity: One student from Bangladesh is enrolled for B.Sc. I	1
Kamla Pathology, Wardha	09/07/2018	Purpose- CLT certificate course Activity- Internship	6
Amey Pathology, Wardha	09/07/2018	Purpose- CLT certificate course Activity- Internship	4
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
81.4	65.22

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing

Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
View File	

4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
LIBTECH	Partially	1.0	2001

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	26425	1977935	334	226997	26759	2204932
Reference Books	1764	1154430	25	10500	1789	1164930
e-Books	9	97000	0	0	9	97000
Journals	26	66574	26	75755	52	142329
e-Journals	10	2137	0	0	10	2137
Digital Database	1	5750	0	5900	1	11650
CD & Video	370	0	10	0	380	0
Library Automation	1	25000	0	0	1	25000
View File						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Nil	NA	NA	15/06/2018
View File			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	171	3	2	2	1	11	160	100	0
Added	3	0	0	0	0	0	3	0	0

Total	174	3	2	2	1	11	163	100	0
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4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
No Data Entered/Not Applicable !!!	

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
3794300	1798152	12536900	10502086

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

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. • Construction of first floor of girl's hostel to provide accommodation to the high demand of the girl students from nearby area. After construction of the first floor, 56 no of girls can be accommodated. • Formation of the green corridor by planting trees in the college campus by the parents and alumni association of the college. • Spacious parking area, cycle stand, inter departmental linking roads • Well furnished guest house. • The institute has 10 staff quarters with all required facilities. • Indoor games, outdoor games and sufficient playgrounds sports facility. • The institute has cultural heritage building 'Gandhi Hall'. Academic Facilities • 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 with LAN, internet, INFLIBNET, reprography facilities. The capacity of reading room is to accommodate 150 readers. • Total 24 well furnished classrooms with sufficient lighting arrangement are available in the campus. These classrooms are adequate for the students' strength of >100 at a time. Out of these, 11 classrooms are equipped with the ICT facilities. • ICT centres with 40 number of computers. At ICT centre used to run various courses like computer awareness programme, language laboratory, ST-IIT , NPTEL • 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. • Seperate Controller of Examination (COE) block and spot valuation centre used for smooth conduct of autonomy examinations. • College is equipped with language laboratory having 11 no. of computers. Support Facilities • Canteen in the premises of the college for students and staff. • Girl's hostel in the campus with capacity to accommodate 56 no. of girls. This provides the safe and secure stay for the

girls especially from rural background in the college campus. • Girl's common room. • Sufficient no. of washrooms, safe drinking water facility and water coolers. • Gymnasium with all necessary required instruments. • The campus is well equipped with CCTV security system.

<http://jbsw.shikshamandal.org/wp-content/uploads/2020/07/Procedure-and-policies.pdf>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Nil	0	0
Financial Support from Other Sources			
a) National	GOI	761	6903746
b) International	Nil	0	0
View File			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Spoken Tutorial of IIT Bombay	18/01/2018	471	IIT Bombay
.Conduction of Interview of Eminent Personality by students	20/07/2018	200	Dept of Language, Jankidevi Bajaj College of Science, Wardha
Bridge courses	02/07/2018	324	Each department of Jankidevi Bajaj College of Science, Wardha
Remedial Coaching	02/07/2018	162	Each department of Jankidevi Bajaj College of Science, Wardha
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	IIT JAM, Pune University, TIFR Entrance Examination Counselling	20	5	5	0

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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
TCS	53	8		0	0

[View File](#)

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	11	JBCS, WARDHA	Zoology	Bajaj College of Science, Wardha, R.T.M.N. University, Nagpur, Dept. of Zoology, Shivaji Science College, Amravati, Dept. of Zoology, Sant Gadge Baba Amravati University	Post Graduation in Zoology
2018	7	JBCS, WARDHA	Botany	Dept. of Botany, R.T.M.N. University, Nagpur, Dept. of Botany Savitribai Phule, Pune University, Pune, Bajaj College of Science, Wardha, R.T.M.N.	Post Graduation in Botany

				University, Nagpur, Dept. of Botany, Sant Gadge Baba Amravati University, Amravati	
2018	11	JBCS, WARDHA	Chemistry	Department of Chemistry, S. P. Pune University, Pune, Dept. of Chemistry, R.T.M.N. University, Nagpur, Bajaj College of Science, Wardha, R.T.M.N. University, Nagpur, Dept. of Chemistry, N.I.T. Warangal, Dept. of Chemistry, V.N. I. T. Nagpur	Post Graduation in Chemistry
2018	15	JBCS, WARDHA	Mathematics	Dept. of Mathematics, R.T.M.N. University, Nagpur, Dept. of Statistics, R.T.M. Nagpur University, Nagpur, Dept. of M. B. A. , G. S. Commerce college Wardha, Kamla Nehru Mahavidyalay , Nagpur	Post Graduation in Mathematics
2018	4	JBCS, WARDHA	Physics	VMV JMT Nagpur, Ambedkar College, Dee	Post Graduation in Physics

				kshabhoomi, Nagpur	
2018	3	JBCS, WARDHA	Computer Science	Dept. of Computer Science, R.T.M.N. University, Nagpur, Dept. of Computer Science, Savitribai Phule University, Pune.	Post Graduation in Computer Science
2018	23	JBCS, WARDHA	Microbiology	Dept. of Micr obiology, R.T.M.N. University, Nagpur, Dept. of Micr obiology, S. G.B. Amravati University, Amravati, Bajaj College of Science, Wardha, R.T.M.N. University, Nagpur	Post Graduation in Microbiology
2018	6	JBCS, WARDHA	Electronics	Dept. of Commerce, R. T. M. Nagpur University, Nagpur., Dept. of Ins trumentation Science, Savitribai Phule Pune University, Pune.	Post Graduation in Instrumen tation Science
View File					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
NET	2
GATE	1
View File	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
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Summer coaching camp for Soft ball, handboll, ballbadminton and sepak Takaraw	District	120
Winter coaching camp for Soft ball, handboll, ballbadminton and sepak Takaraw	District	150
All India Essay writing Event	National(United Nations Information Centre and Bhutan(UNIC)and Shri Ramchandra Mission(SRCM))	12
Celebration of 125th anniversary of Swami Vivekanandji historic speech at Chicago	College level	178
One minute speech competition	College level	7
Drawing competition to celebrate National Voters Day	District Level	18
Marathi Bhasha Sanwardhan Pandharwada	College level	250
View File		

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Nil	National	0	0	00	NA
View File						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student Council The Education Act, 1998 recognizes that Student Councils are an increasingly common feature in colleges. It should be formed with lead role of students of a college and the involvement of Board of Management in supporting the establishment and ongoing development of the Student Council. Jankidevi Bajaj College has an active Student Council which comprises of Chairman of 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 respective committee. The establishment of a Student Council gives students an opportunity to develop communication, organizational and planning skill and leadership quality which 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 in 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 curriculum. It also helps in arranging social outreach programme off the campus and educational or excursion tour. Student Council have a valuable contribution to make 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 success and the working was smooth where student council 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 arranged fresher's party and farewell party for new students and outgoing students. Student council and the college have mutual association. It not only benefits students only but also to college itself. The students get easy access to teachers and authority and management and get solution to their query, suggestion and recommendation in short time. It becomes easy to organize many events in the college with the contribution of student council. Communication with each student becomes easy. Each student get aware of upcoming events in and off the campus. Student

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

318

5.4.3 – Alumni contribution during the year (in Rupees) :

4500

5.4.4 – Meetings/activities organized by Alumni Association :

Jankidevi Bajaj College of Science, Wardha Alumni Association Meeting held on 24th August 2018 Minutes of the meeting The meeting of Alumni Association was held on 24th August 2018 at 5p.m. in Gandhi Memorial Hall. The following members were present. Dr. Om Mahodaya, Er. Dinesh Channawar, Dr. Dilip Gupta, Mr. Prakash Katariya, Dr. K.G. Dube, Dr. J.S. Makrande, Dr. Mrs. S.S. Khandare, Mr. Rajiv Saxena, Mr. Subhash Patankar, Dr. Rajesh Asamwar, Dr. S.S. Gandhewar and W.S. Paratpure. Agenda 1. To felicitate the retired teachers of our college, who moulded the lives of innumerable students in the form of Doctor, Engineer, Scientist, Judge, Spiritual, Academicians and many more. 2. To discuss the planning about tree plantation to be performed at the hands of retired teachers. ATR 1. The retired teachers of our college were felicitated on the occasion of Teacher's Day on 5th September 2018. As a token of respect and gratitude, they were honored with Shawl and Memento. About 20 retired teachers were felicitated in the presence of a large number of Alumni members and staff members. 2. Tree plantation was performed at the hands of retired teachers in the college campus adjoining Alumni Corridor in the presence of Shri. Sanjay Bhargava, Chairman, Shiksha Mandal, Principal Dr. Om Mahodaya and

a large number of Alumni as well as staff members. Dr. S.S. Gandhewar Dr. Om Mahodaya Secretary, Alumni Association Principal

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Being autonomous institution, the decentralization and participative management either in academic or administrative work is unavoidable. On-going practices of decentralization and participative management during the last year is on its right place. The two major practices are given below: Title of the Practice: A. Examination decentralization and participation B. Administrative decentralization and participation

A. Examination decentralization and participation: To conduct all the Examination related work, the person is appointed as the "Director of Examination and Valuation" who monitor all the required activities on day to day basis. He/she controls all the Examination and Valuation related works and its correspondence with viz. Question paper setters, Valuers and Moderators etc. In consultation with the Principal of the college, the director office implements meticulous plan for the Deployment of examination timetables in order to conduct Examination, Valuation and thereby declaration of results in time. Besides, all the Heads of various Departments/Faculty act as the Chairman/Chairperson of the Board of Studies of respective subjects with the participation and active involvement of respective faculty members of respective department as the participants. All these stakeholders are accountable for framing the curriculum and patterns of the question-papers. Participation of alumni of each respective department along with University Representatives, is a part of the Board of Studies Committee. The panel of question paper setters, valuers and moderators etc is decided by the Board of Studies which is comprised of both the external outsourced experts and internal institutional faculty members. Thus, this practice clearly shows the decentralization and participative management.

B. Administrative decentralization and participation Besides, the academics and curricula, the Principal of the college needs to administer number of activities in the institute. They may be extracurricular events such as conduction of popular conferences and seminars, programmes on women empowerment, 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.It was observed that curriculum-extension interaction leads to socio-educational ethics, particularly in the colleges like us which represent rural India. All such activities are conducted by the Convenors appointed therein, under whose guidance the members from teaching and nonteaching fraternity are deployed. Furthermore, field trips, display of academic achievements, debates, discussion, role-play, there are co-curricular activities 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 organization of Competitive Examination and Training and Placement cell which conduct interdepartmental quizzes, interdisciplinary seminar competitions, Mock-Examinations for practice etc. The success outcomes of such practice is viewed, assessed and judged during future in-campus recruitment drives. New benchmarks are formed each time. Another evidence of success is that these 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.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	The admission to the institution is carried out as per the directions from university and Government of Maharashtra. As the institution has minority status, 50 seats are reserved in the minority quota. Students are admitted through proper merit list and quota reserved as per the directions of Government of Maharashtra. Admission committee looks after the complete process of admission. Admission to the PG course is governed by the university through centralized admission process. The institute is enrolled in 'Study in India' project governed by HRD Ministry. Students are provided with proper information through prospectus counsellor committee to students.
Library, ICT and Physical Infrastructure / Instrumentation	Library has rich collection of 26759 Book, 1789 Reference Book, National Journals 26, International Journals 03, Magazine, Newspaper etc. Open access to the PG students and students secured 1st class is provide. Library is automated with LibTach and having INFLIBNET N- LIST facility. It is kept open during evening at the time of examination period. Library Reading Hall Capacity is 150 Students. Book bank facility to the poor students is established and also a special arrangement has been made for backward physically disabled students. ICT : The college has ICT center where 50 PCs with internet connection, additional soft skill provisions are made through ICT center.
Examination and Evaluation	Students are repeatedly examined through unit tests, assignments, college terminal examination, before the final qualifying examination. Director of Board of Examination and Evaluation is appointed to take proper initiatives. 1) Question papers are set by panel decided by BOS Moderation of question papers is carried out by academicians as moderator. 2) Evaluation process is carried out through spot valuation center. 3) Proper mechanism is set to keep transparency and to avoid discrepancies by adopting open access of answer books after valuation and moderation to students. The timely

management of setting, valuation during examination is followed to help timely result.

Curriculum Development

This is the essence of knowledge domain to be imparted to the students. This became important for us being autonomous. 1) Cohesiveness of job potentially by incorporating skill oriented features. 2) Identifying the usage of skill and knowledge in research areas. 3) 20 input in curriculum is made mandatory through the observations of requirements in NGOs, Industries and Research Institute. Individual Board of Studies of each department having members from industry/R D, alumnus, academician, from university, besides the departmental staff. Care is taken for the students of respective years to take it as interesting rather than burden.

Industry Interaction / Collaboration

Our Institute although is situated in Submuffasil region have, the collaboration with Industry nearby distant at their best level like NCL, RCF, NCCS, MGIRI, Lloyds Steel, Ankur Seeds etc. This helps us in getting internship for our students and job avenues for our Students.

Human Resource Management

The HR management is togetherly handled by Principal Management. The selection of personals for both teaching administration is meticulous as per the norms of University Government of Maharashtra. Institution at their own level conduct the test exam at both the level demonstration in particularly for selection of teaching faculty. The incorporation of methods of screening besides the interview helps in selection of good personals at both the level teaching non teaching of the Institution. Such transparent methods of selection through HR management has always proven the employment of deserved candidate in Institution.

Research and Development

1) Assignment of Projects from Second Final year UG students. 2) For PG Students 20 weightages of marks in research project is assigned in qualifying examination. 3) Research committee is framed which regularly conducts meeting under chairmanship of Head of Department Internal Quality Assurance Cell (IQAC). Where

	<p>participation of papers in reputed journal is kept in the agenda. 4) Purchase of Research instruments against the grant received from RUSA, CPE, DBT etc. is always preferred along with the regular instruments required by each department. For Ex. FTIR, XRD, PCR are in the stock of the college.</p>
Teaching and Learning	<p>Teaching Learning is mirror of quality improvement. The strategies adapted best possible teaching learning is the essence of the policy. 1) Every faculty is assigned particular units of curriculum of respective subject. This helps in monitoring the level of completion of curriculum in stipulated time. 2) Regular remedial classes for each subject is made compulsory and incorporated in time table for slow learners. 3) Feed back of depth of understanding subject is regularly collected from students through classroom tests. 4) Some selected practical's of subject are modified into projects to have the assimilation of basic science approach.</p>

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	<p>Jankidevi Bajaj college of Science partially adopts e- governance, whenever it's feasible i.e. development grants received only after uploading online applications to respective Institutions like RUSA, DBT, CPE(UGC) etc. Moreover IQAC department of the Institute conduct meeting from time to time to allocate funds received through grant and communicate regarding. The development process is always displayed on institute website. Besides, future course of action in term of planning with respect to academic and non academic activities are made aware to stakeholders through Institutional website</p>
Administration	<p>Institute admin office has a CMS software system through which students are provided documents like T.C., bonafide Certificate etc to them. Library independently work through requisite software i.e. Acquisition, Circulation, serial control, administration, Membership etc by CMS. Money transactions for the admission purpose is entire online like NETF/RTGS, swipe Machine etc.</p>

Finance and Accounts	Finance and account section on CMS systems through online. Suppliers are delivered money against bill produced via RTGS/NEFT mode through bank, but never through cash or cheque (sometimes allowed). Collection of fees related to students is through online mode i.e NEFT/RTGS, Swipe Machine etc. To maintain all financial documents like Ledger book, Cashbook, bank statements on e- format i.e. pdf, excel, word etc.
Student Admission and Support	All admission and Examination related Advertisements, Notices, merit list and updated information available on institute website. use of e-mail, text messages made used to inform students from time to time Institute admin office provides all necessary certificate and documents to students through a CMS software system on the demand of students. Institute continues touch with students through website, Notices from respective departments and some social platform like facebook, whatsapp and e-mails and personally through Guardian faculty.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Dr. P V Tekade	MHRD Institutional Innovation Council (IIC) Meeting (Date 21/11/2018)	MHRD	13724
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Nil	NA	15/06/2018	31/05/2019	0	0
View File						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
ARPIT Course for career Advancement Scheme (CAS) Pramotion	3	01/11/2018	28/02/2019	120
Orientation Programme	1	10/05/2018	06/06/2018	21
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	8	1	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
All Welfare schemes of Maharashtra government and UGC	All Welfare schemes of Maharashtra government and Credit cooperative society	Social welfare schemes of Govt. of Maharashtra

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

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.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Nil	0	NA
View File		

6.4.3 – Total corpus fund generated

00

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	NA	Yes	IQAC
Administrative	No	NA	Yes	IQAC

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

1. Tree Plantation by Parents 2 Suggestions from Parents for improvement in Infrastructure 3 Suggestions for extended time access to Library

6.5.3 – Development programmes for support staff (at least three)

1 Training for administrative software 2 credit society loan facility improvement 3 In house Training for staff to improve there computer skills

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1 To acquire academic autonomy 2 Infrastructure enhancement 3 To start PG Programmes in Mathematics and Computer Science

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Planing of activities for the session 2018-19	25/06/2018	25/06/2018	14/06/2019	27
2018	Organization of Teacher parent meet	11/08/2018	11/08/2018	14/06/2019	125
2019	Organization of Scintillation	18/01/2019	03/03/2019	03/03/2019	280
2018	Autonomy Syllabus framing for B.Sc II and M.Sc II	28/07/2018	28/07/2018	12/08/2018	54
2018	organization of SSR Criteria Presentation	10/07/2018	10/07/2018	17/07/2018	16
2018	Conduct of IIT spoken tutorial	15/06/2018	15/06/2018	14/06/2019	471

2018	Remedial classes for slow learners	25/06/2018	25/06/2018	10/02/2019	162
2018	JAM / NET SET guidance for advanced students	25/06/2018	25/07/2018	10/02/2019	20
2018	Promotion of research	18/08/2018	24/08/2018	14/06/2019	27
2018	Alumni meet	24/08/2018	05/09/2018	05/09/2018	30
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Blood Donation camp	22/09/2018	22/09/2018	3	30
Ahimsa Rally (Padyatra)	02/10/2018	02/10/2018	326	145
Self Defense	05/01/2019	05/01/2019	163	0
NSS Camp	09/01/2019	15/01/2019	40	35
International women's day (Laws for women related with sexual harassment at workplace)	08/03/2019	08/03/2019	140	0

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
<ul style="list-style-type: none"> • This year, we have replaced almost all power consuming tube lights, halogens and even CFLs by efficient LED tubelights • Use of solar water heater in girls hostel. • Initiatives have been taken convert whole campus on solar cell has been initiated. • We have sprawling campus with ventilated classrooms and laboratory with sufficient natural light to minimize the use of electricity.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	3
Ramp/Rails	Yes	3
Scribes for examination	Yes	0

7.1.4 – Inclusion and Situatedness

Year	Number of	Number of	Date	Duration	Name of	Issues	Number of
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	initiatives to address locational advantages and disadvantages	initiatives taken to engage with and contribute to local community			initiative	addressed	participating students and staff
2018	1	0	12/08/2018	1	Heartfulness Essay Event (Shri Ram Chandra Mission and United Nations Information Centre)	Tapping the inner space of youth and give the chance to express their feelings through words	12
2018	1	0	29/09/2018	1	Elocution Competition	Stage daring and communication skills in students	2
2018	1	0	02/10/2018	6	Aspen Leadership Program	Nurturing the leadership qualities in youth	2
2019	1	0	03/01/2019	1	Elocution Competition	Stage daring and communication skills in students	2
2019	1	0	12/01/2019	1	Essay Competition on Swami Vivekananda in my perception	Connecting thoughts of Swami Vivekananda with youth life	8
2019	1	0	12/01/2019	3	Personality Development	Stage daring and communication skills in students	3
2019	1	0	21/01/2019	1	National Graduate Physics Exam conducted by Indian	Regional examination centre for NGPE	22

					Physics Teachers Association		
2019	1	0	21/01/2019	2	Various competition on Voters Day Celebration	Spreading awareness about the voting rights and encouraging youth to cast their vote.	16
2019	1	0	15/06/2018	1	Elocution Competition	Stage daring and communication skills in students	2
2019	1	0	02/02/2019	1	Seminar on Man Building	Promotion of values and ethics in current youth	9

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Students Code of Conduct	15/06/2018	Students code of conduct is updated and also uploaded on the website http://jbsw.shikshamandal.org/wp-content/uploads/2020/06/Students-code-of-Conduct.pdf

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Tree plantation on world Environment Day	23/03/2019	23/03/2019	230
International Womens Day	08/03/2019	08/03/2019	140
Republic Day Celebration	26/01/2019	26/01/2019	120
World AIDS Eradication Day	01/12/2018	01/12/2018	300
Mahatma Gandhi Jayanti Celebration and Ahimsa Rally	02/10/2018	02/10/2018	471

World Peace Day	21/09/2018	21/09/2019	300
Teachers Day Celebration and Self Governance Day	05/09/2018	05/09/2018	270
Independence Day Celebration	15/08/2018	15/08/2018	160
World Population Day	11/07/2018	11/07/2018	260
International Yoga Day	21/06/2018	21/06/2018	65
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Biomass waste : All biomass waste from college campus collected periodically. For its management, two compost pits of size 2x2 feet are constructed in the Botanical garden under tree shade. Layers of biomass (leaf litter, shredded plants) and soil filled in the pits. These layers well soaked with water which was again followed by layers of green biomass i.e., Flower waste, green weeds. Also 'Jeevamrut' (organic culture made up of Gaumutra, jaggery and neem extract) added for fast result. After every 15 days the biomass turned upside down . After two months the biomass converted to half decomposed humus and then into fine compost. This compost is used as manures.

Paper or stationary waste : Dustbins are provided to collect paper waste from classes and office. The collected waste paper send for recycling units (NGO's like Centre of Science for villages and Dharamitra, Wardha working commercially on waste paper recycling) and in turn purchased file, envelops, paper bags needed for official work.

Liquid Waste management: Hazardous liquids/solvents generated from the experiments in the chemistry department is properly disposed off. Efforts are taken to adopt microscale technique where small amount of liquid solvents are used which is economical and efficient. Waste water is directed to the soak pits. Department avoids the use of hazardous chemicals. Students are involved in some projects aiming the importance of natural dyes in aqueous solvents.

Tree Plantations: BCS has a wide campus where around more than 200 trees are planted. We also maintain a section of nilgiri tree. Tree plantation was done on different occasions and parents of the students were also involved in the noble cause. The institute undertakes the following types of plantations: • Energy tree plantation (Teak plants) • Botanical garden (Rare medicinal plants) • Apiculture garden (Different flowering plants) • Fencing plantation (Different types of trees and mehendi)

Solid Waste management: College takes appropriate steps time to time in managing the solid waste generated in the college. For this, solid waste collection center has been recognised where solid is collected and is used for different purposes. Microbiology department is taking care of some of the innovative waste management viz. preparation of compost from urban kitchen waste, production of citric acid from pineapple waste, preparation of compost tea from agro-waste etc.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1 1. Title of the practice: Teacher- Guardian Student Cluster 1. Goal: Personal attention to each student is not feasible due to the large volume of classes (100-120 students per class). A process of working with small

target groups is found to be convenient and gives better results. This is the main goal of the formation of clusters. Considering this need, we have divided the students of each class in small interactive groups in order to solve their personal difficulties related to academics and other all-round development. We have introduced the idea of a teacher-guardian-student cluster especially for the entrants (B.Sc. Part I) students. The aim of this programme is as follows :

- To look after the personal academic difficulties of students in each subject
- To provide them the required educational inputs by the teachers in their subjects
- To inculcate confidence in students with one to one interaction
- To motivate them to participate in co-curricular activities
- To motivate them to participate in extracurricular activities/sports and games
- To provide exposure for their all-round development

3. Context: The institute has observed many challenges with the students of B.Sc. I. Moreover, the participation of these students in co-curricular and extra-curricular activities is also not encouraging.

1. B.Sc. I students are not acquainted with the writing of descriptive answers.
2. They are very poor in English writing
3. Very few students select the course by their choice. Science education is still struggling to catch the attention of good students in this part of the country.
4. We get the enrollment also from the rural and there is a lot more to work upon.
5. Last but not the least the other socio-economic factors adhered to by the students affect their personality and thereby all-round development. In order to overcome these difficulties of students, we have formed the smaller groups of students to create interest in studies and active involvement in co-curricular activities leading towards their all-round development.

4. The Practice: The practice and implementation of Teacher Guardian Student cluster in our institute is as follows:

- The students enrolled in B.Sc. I are divided into small groups called clusters of about 10-15 students each.
- In each cluster, almost all students have at least one common subject.
- The formed clusters are assigned to the teachers teaching the particular common subject
- Cluster students and teachers have a regular meeting on a specific day and time (mostly on Saturday, 9.30 am).
- In cluster meetings, students report about their academic difficulties.
- The guardian teacher of the cluster guides the students in solving his/her subject difficulties and communicate to the other concerned teachers (if needed) for their subject difficulties
- The teacher also helps in resolving difficulties related to the issues related to infrastructure facilities (Library, ICT, washroom, parking, etc.) with the consultation of concerned administrative authorities.
- The guardian teacher motivates his/her cluster students for participating in co-curricular, extra-curricular and extension activities as well as

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://jbsw.shikshamandal.org/wp-content/uploads/2020/04/Best-Practice-2018-19-converted.pdf>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

College is mentoring a sister institute Bajaj Science Center located nearby to the institute where around 500 school students are coming to learn science by doing experiments. About Bajaj Science Center: Bajaj Science Center was established in 2007 to promote basic science education among students. Leading industrialist Shri. Rahul Bajaj is the president of this institute and Prof. C.K.Desai is the main architect to establish this institute. It is different from a routine school or a college laboratory and also from a normal museum. Bajaj Science Center houses all experiments from the regular curriculum and a good number of other experiments which will stimulate the curiosity of the

students. Apart from these experiments, the center also works on simple science demonstrations to convince that the science is logical sequence of thought and not magic at all. Keen and careful observations, drawing the inferences, estimate and measure the error, design a new experiment or new method by minimizing the errors these are the qualities which get developed while doing concept-oriented experiments. The students learn happily through the combination of innovation, exploration and learning by doing. Students are encouraged to ask every query and doubt to the co-explorer teacher as well as friends which encourages dialogue amongst them. Dialogue helps learning and helps understanding of the subject content. Most educationalists say, there should be a paradigm change in education, what is it exactly? The science education that the students get through experimentation and dialogue in Bajaj Science Center is definitely one of the correct ways to find a solution. Center facilitates about 1000 students from different schools in the region from 5th standard to 12th standard. Students are admitted through entrance test on merit basis. Center consists of six laboratories (Physics, Chemistry, Mathematics, Biology, Electronics and Computers, Astronomy) and also have a separate library. Each laboratory is well equipped with a number of experiments and pedagogy tools and is enough to generate scientific temperament amongst students. Students are entertained to adopt a self-learning mode with the help of subject experts. Center is also associated with Homi Bhabha centre for science education (HBCSE), Mumbai, the apex national institution working in the field of science education. Center is also one of the three examination centers of Maharashtra for the well known Homi Bhabha Balvaidnyanik Competition. It also trains the students for the International Olympiad programme. Role of Bajaj College of Science: Bajaj College of Science facilitates the center for all kinds of scientific inputs. Since 2007, faculties of Bajaj College of Science often visit the place to deliver some sessions. Management of the center took advice from time to time for the infrastructural development. Faculties were also involved in the laboratory set up. Currently, college is playing an active role in nurturing all kinds of activities in the center. Faculties and UG/PG students are involved in the training and mentoring programmes of the center.

Provide the weblink of the institution

<http://jbsw.shikshamandal.org/wp-content/uploads/2020/04/Institute-Distinctiveness.pdf>

8.Future Plans of Actions for Next Academic Year

To organize National conference on Autonomy and NAAC theme. Organize Workshop / seminars on subject themes. To start PG in Mathematics and C/S. To conduct IIT Spoken tutorials. To Promote research. Set up MoU/ Linkages with research institutes. To prepare syllabus, exam pattern etc for B.Sc. III under autonomy. To construct New Chemistry Laboratory. Extention of Girls' hostel.