



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

MATOSHRI NANIBAI GHARPHALKAR SCIENCE COLLEGE BABHULGAON

**MATOSHRI NANIBAI GHARPHALKAR SCIENCE COLLEGE BABHULGAON ,
DIST. YAVATMAL
445101**

www.mngsciencecollege.ac.in

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Matoshri Nanibai Gharphalkar Science College was established in 2008 by the Sudam Shikshan Prasarak Mandal Yavatmal with an intention to provide quality science education in the rural area of Babhulgaon, Dist.Yavatmal. Babhulgaon was earlier a development block which became a Taluka (Tehsil). This developing rural area into a semi-urban area demanded education in science at the degree level and hence the visionary management started the college in 6.12 acre land with a beautiful building of 2377.25 Sq.Mtr. The college is purely a science college having initially five branches: Physics, Chemistry, Mathematics, Electronics and Computer Science. The College has now started three more branches: Botany, Zoology and Environmental Science.

The college is providing a clean and airy atmosphere to the students. Well equipped laboratories, ICT enabled classrooms, conference hall etc. are the specialities of the college.

The college gets inputs of students from the nearby villages around Babhulgaon. It is worth mentioning that the girl students in the college are in the increasing order. As can be seen, the college caters to the science education needs of the open and reserved categories of the students. The students take advantage of the various schemes of the government to pursue their education.

Apart from regular teaching, the college runs a number of activities for the benefit of the society.

Vision

To start post graduation course in all branches.

Starting research activity in pure as well as applied field.

To start constructive activities those are helpful to the society at large.

Mission

Providing best science education in rural area to meet the scientific challenges and contributing to the scientific research for the community development.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Good quality infrastructure
- Supportive teaching and non-teaching staff
- Use of ICT teaching-learning process

- Fruitful social and extension activities
- Well equipped laboratories
- Visionary and supportive management

Institutional Weakness

- Poor performance of students in competitive examinations
- Lack of campus placement facility
- Low UG to PG progression rate

Institutional Opportunity

- Scope for introducing PG courses
- Scope for self-financed or industry funded projects
- Scope for local need based research
- Scope for conduction more number of extension activities
- Scope for improvement of personality development and skills
- Scope to start more skill oriented courses

Institutional Challenge

- To increase the number of students to appear in the competitive examinations
- To provide funds to facilitate local need based research
- To strengthen the institution-industry relations
- To strengthen the collaborations with other institutions

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Matoshri Nanibai Gharphalkar Science College, Babhulgaon dist. Yavatmal has clear vision and mission to fulfill the needs in higher education of the rural area of Babhulgaon. The college ensuring timely preparation of academic calendar and timetable. The college has played a significant role in students' overall development in terms of knowledge, skills, and values. The regular participation of faculty members in development programmes, workshops and conferences enhance curriculum enrichment. Various co-curricular activities are planned and held throughout the academic session to provide experiential learning to students. Feedback from stakeholders is taken to improve curriculum delivery. Appropriate action is taken on the problem areas.

Internal assessments of students are undertaken through assignments and unit test. Internal assessment is based on home assignments, class test, project assignments, seminar, study tour, industrial visit. In addition to the regular programmes, the college offered five add-on courses in the last five years. The motive of the add-on course is learning by experience; to this end, students having a skill to face upcoming challenges of world and become self sufficient. Our college strongly believes in integrating cross cutting issues relevant to professional

ethics, gender, human values, environment, and sustainability with a view to ensure holistic development of the students. The students must become empowered professionals and contribute to the economic and technological development of the nation besides acquiring skills for logical reasoning and decisions in times of crisis. During past decades, the college has made efforts towards developing value based education to science and technical with a vision to promote values to be a better citizen.

Teaching-learning and Evaluation

This criterion addresses the regular teaching learning activities of the institution. The teaching-learning process, student results, desired outcomes etc. comes under this criterion. This criterion deals with 'HOW' the teaching and learning happens in the institution. Teaching methodologies, learning capabilities and evaluation methods undertaken by the institution to serve students of different backgrounds.

Student –centric-methods such as experiential learning, participative learning, and problem-solving methodologies are used for learning experiences. It is easier for the teachers to understand the ability and performance of the students on the basis of unit tests. Students are made aware with the program outcomes and course outcomes, mode of internal assessment as well as college facilities during the starting of the session. Academic Calendar is prepared in consultation with the Head of all the departments of the college, indicating total working days, holidays for the semester, the inception of classes, schedule for the term exams, and end semester exams as per the Sant Gadge Baba Amravati university schedule.

The internal assessment comprises of a number of components which includes class tests, attendance, assignments, etc. transparency and robustness of the internal assessment checked and mechanism is developed. Slow learners are identified through the internal assessment test and they are supported through remedial classes and extra classes. The advanced learners are encouraged by providing them with extra tools and arranging guest lectures on the advanced topics.

Research, Innovations and Extension

The college encourages teachers to submit research proposals, and conduct research. The college organizes workshops and sensitization programs to create research spirit among teachers and students. Many teachers in the College have published their research papers in reputed National and international journals with good impact factors. Teachers from the Department of Chemistry and Electronics have published books. Teacher from the Electronics department got the patent for his research work.

We are fulfilling our responsibility towards the society well and hence undertake a significant number of extension activities every year. NSS unit of our college is at the forefront of these extension activities which include Blood Donation, Tree Plantation, Installation of solar cooker, Soil testing, Pulse polio awareness program, Self defense training program, Voting awareness, Veterinary camp, Special NSS Camp, etc .These initiatives help to create a bond between the local community and the institution.

Infrastructure and Learning Resources

The institution has a distinct policy for improving the infrastructure facilities, which would make easier teaching learning process. The college has about 6.12 acres land and built up area 2377.25 square meters. The

campus has well-structured six class rooms, with proper lighting, seating and ventilation, a conference hall, administrative and staff rooms, admission and examination cell. The college spends adequate budget for the maintenance of infrastructure. Various committees of the college look after up- gradation, development, maintenance, security and optimum use of the infrastructure facilities.

A library with more than 3,408 books, 21 journals, e-journals and e- book is at the service of the students. The college library has reprographic service and other essential services. The library ensures access to the facilities like books, journals, and reading facility. The library is open for eight hours per day. At the beginning of academic year faculties prepare list of required titles and are submitted to Library Committee. For physically challenged students library staff gives special help for selection and issuing books. Additional books and reading materials are issued for long term basis to advanced learners.

A browsing facility with Wi-Fi broadband connected computer. ICT resources have been sufficiently strengthened in the institution with computer to student ratio being about 17:1. ICT learning resources are available in the college laboratories are well-equipped with good amount of chemicals, instruments and other lab related facilities. Canteen, girl's common room, boy's common room and washrooms are well-maintained. The college has also provided safe drinking water facility through RO water filters. The college has spacious playground of 76×61 meters. The infrastructure was improved with the financial support of Rs.6,53,779 lakh's in last five years. The management has developed adequate infrastructure and learning resources in the campus to achieve its objective of excellent education.

Student Support and Progression

Matoshri Nanibai Gharphalkar Science college, has always been a student-centric institution. Once admitted in the college, the students are taken care of by providing various facilities in the form of indoor and outdoor sports facilities, encouragement for participation in co-curricular activities, besides supporting deserving students with financial assistance from the college by providing freeship and assisting them to benefit from Government sponsored scholarship schemes. Sanctioned scholarship through various schemes to about 702 deserving students in the last five years, to support the education of students. students can avail of a number of support systems and services for information, academic and career guidance, financial, co-curricular and extra-curricular activities. The academic calendar give information on the academic schedule and curriculum, NSS, library facilities, sports activities, support system, and career counseling, etc. The students are mentored from the time of admission up to the completion of their programme at various levels. Every class has a teacher assigned to counsel and mentor the students.

In addition, the institute has granted membership of students in various administrative bodies of the college such as Grievance and Redressal Committee, Antiragging Committee, Magazine Committee, sexual harassment Committee etc.

Governance, Leadership and Management

The principal is the Head of the institution. The organization and the college Development Committee are the supreme Bodies. The members of these councils express their views and suggestions for the smooth performance of the college in the periodic meetings. After a systematic analysis, they get the endorsement in the CDC and IQAC and then the approval is accorded for implementation. This process ensures democratic and academic decisions at all levels, as per the constitutional necessities of the institution.

The administrative machinery is well knit and there is adequate decentralization of various functions, contain principal, HOD, faculty in charge, Head clerk, senior clerk, junior clerk, and Laboratory assistant and attendants. The examination wing is headed by the Exam In-charge nominated by the principal and the support staff. All the academic and administrative functions come under the overall control of the principal.

Many approaches are used to effectively implement the policies. At the Department level, suggestions from all the faculty are taken into account for effective curriculum implementation, teaching-learning, and evaluation process as well as in general administration of the college. Student representatives play a role in managing the departmental Societies.

At the Faculty level, representatives from different departments of study as Well as external members play a proactive role in the curricular aspects. Further, faculty Members managing several auxiliary units such as library and laboratories collectively participate in administration and decision making process. Constitution of various Committees for purchase discipline. Anti-ragging, Prevention of sexual harassment, hygiene and sanitation , Cultural, Game and sports, Library advisory , College magazine and student board, Grievance and redressal ,Internal examination, Feedback ,NSS ,Career guidance, Annul report, Bridge course, IQAC, College development has led to greater participatory Management and decentralization.

The college has an Internal Quality Assurance Cell (IQAC) that plays a Proactive role in reviewing the current status and evolves programmes, policies and Suggestions to improve quality in teaching and learning. The IQAC is constituted as per The NAAC guidelines with the principal as the Chairperson. It is a facilitative and participative Voluntary system for quality enhancement by introducing suitable intervention Strategies. It encourages the faculty members for quality enhancement, effective communication among the Heads of the Departments. The Faculties are made confident by the IQAC to overlay for internal quality analysis and suitable actions put in place.

Institutional Values and Best Practices

The college conducts awareness about environmental issues, climate change and conducts programmes to encourage utilization of renewable energy sources. Several best practices are in the existence in the college which have been benefitting both teachers and students. The institute is continuously engaged in making the campus eco-friendly. The institute has installed LED bulbs/tubes for conservation energy. The college has the best infrastructure including spacious classrooms, library, Well-equipped laboratories, staff rooms, common room and canteen.

The Mentor-Mentee system has made a qualitative difference in the academic performance and installed self-confidence among students. Each faculty member monitors the academic progress of a group of students and guides them to shape their professional career besides dealing with personal issues. The mentors also interact with the parents if necessary.

In 2015, the college in collaboration with Indian Institute of Tropical Meteorology, Pune has installed a Lighting Detection System. The system consists of an antenna having sensors to sense the electrical activities in clouds that lead to lightening. The data are collected 24×7 and are transmitted to the IITM at Pune. The analysis of the data by using special software provides information about the lightening activities in space. The system is so powerful i.e. possible to predict the exact location of thunderstorm and lightening before about 2-3 hours. This gives warning alarm to the disaster management system which in term to the needful to prevent the damage. The range of the Lightening Detection System is about 150km.So, a very powerful tool is installed in

our college that is providing very important and useful data to IITM for further analysis. This is a very good example of our college rendering crucial service to the society.

NAAC

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	MATOSHRI NANIBAI GHARPHALKAR SCIENCE COLLEGE BABHULGAON
Address	Matoshri Nanibai Gharphalkar Science College Babhulgaon , Dist. Yavatmal
City	Babhulgaon
State	Maharashtra
Pin	445101
Website	www.mngsciencecollege.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	A.p. Deshpande	07203-270250	9404848496	-	apdeshpande58@gmail.com
IQAC / CIQA coordinator	U.a. Khadse	07203-8390282091	8390282091	-	uakhadse@gmail.com

Status of the Institution	
Institution Status	Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of establishment of the college	15-07-2008

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Maharashtra	Sant Gadge Baba Amravati University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC	12-09-2012	View Document
12B of UGC	08-08-2017	View Document

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
No contents				

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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Recognitions

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Matoshri Nanibai Gharphalkar Science College Babhulgaon , Dist. Yavatmal	Rural	6.12	2377.25

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BSc,Physics	36	HSC Science	English	360	217
UG	BSc,Chemistry	36	HSC Science	English	360	201
UG	BSc,Mathematics	36	HSC Science	English	360	120
UG	BSc,Electronics	36	HSC Science	English	360	101
UG	BSc,Computer Science	36	HSC Science	English	360	109
UG	BSc,Botany	36	HSC Science	English	360	97
UG	BSc,Zoology	36	HSC Science	English	360	97
UG	BSc,Environmental Science	36	HSC Science	English	360	0
UG	BSc,English	36	HSC Science	English	360	101
UG	BSc,Marathi	36	HSC Science	English,Marathi	360	101

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	1				0				23			
Recruited	1	0	0	1	0	0	0	0	4	1	0	5
Yet to Recruit	0				0				18			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				12			
Recruited	0	0	0	0	0	0	0	0	2	10	0	12
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				13
Recruited	13	0	0	13
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	1	0	0	0	0	0	2	0	0	3
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	4	1	0	5

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	2	10	0	12

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
		9	1	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	197	0	0	0	197
	Female	120	0	0	0	120
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	14	26	31	33
	Female	12	17	25	20
	Others	0	0	0	0
ST	Male	14	22	20	18
	Female	8	12	15	13
	Others	0	0	0	0
OBC	Male	52	67	73	92
	Female	42	60	70	73
	Others	0	0	0	0
General	Male	13	20	27	33
	Female	6	5	7	7
	Others	0	0	0	0
Others	Male	8	21	29	21
	Female	15	12	13	13
	Others	0	0	0	0
Total		184	262	310	323

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Matoshri Nanibai Gharphalkar Science College Babhulgaon has already taken steps towards interdisciplinary and multidisciplinary education. In the modern word of science, interdisciplinary and
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	<p>multidisciplinary education and research is very important and demanding. No subject can progress without the help of the other subjects. The college runs the activities that are interdisciplinary and multidisciplinary, such as, Soil Testing, Solar Energy, Mushroom Culture, Azolla Culture, Hydroponics, etc. All these activities have a blend of two or more subjects; Chemistry, Physics, Zoology, Computer Science, Mathematics and Electronics. The college is going to start a course on Environmental Science which is by itself multidisciplinary Subject, involving all branches of Science. The activities show that our institution is prepared for interdisciplinary and multidisciplinary learning as per the National Education policy.</p>
2. Academic bank of credits (ABC):	<p>The academic bank of credits which has been launched by the Prime Minister has a definite goal. This will enable the students for multiple entry – multiple exit system, retaining the credits he has earned and utilizing them while moving from one institution to the other. This will also help reduce dropout rate in education. The students will be able to complete their pending education by using the credits he has earned earlier. This scheme imparts the students an academic flexibility to move from one institute to another. Our college welcomes this concept and is ready to participate in the scheme.</p>
3. Skill development:	<p>The Matoshri Nanibai Gharphalkar Science College has been conducting workshops, ad-on courses and other programmes in order to develop the skills among staff and students. Our mission is to prepare the students for the scientific challenges of future and for that skills are necessary. All our activities are skill oriented. In fact, science subjects have practices to enhance the skills of the students in the respective subjects. Our institution carries out some innovations in the practical's as well that improve skills of the students. For example, in physics practical's, after the experiment is over, the readings are entered into the EXCEL Sheet and the graphs are generated from the data and all calculations are done with the computers itself to obtain the final result. Workshop on soil testing, mushroom culture azolla culture and hydroponics are all skill oriented and the students can start their own unit after developing the skills.</p>
4. Appropriate integration of Indian Knowledge	<p>Ancient Indian Knowledge was well developed and</p>

<p>system (teaching in Indian Language, culture, using online course):</p>	<p>application oriented. Today, it exists in history only. However, its importance cannot be ignored. It is now necessary to revive the Indian knowledge in the present context. The first step towards revival of the Indian knowledge is to teach such subjects in the Indian languages for better understanding. Our institution has taken a step to prepare some write-ups in the local language Marathi. In the soil testing programme, we have prepared the pamphlets in Marathi about the importance of soil testing and how to collect soil samples from the farms, of the farmers. A small manual in Marathi has been prepared for the identification of food adulteration. Some simple methods of detection of adulteration in foods have been discussed in simple Marathi to be understandable to a common man. Our institution plans in future to start an online course on Indian Science, Technology and Mathematics.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>Every education system is aimed at giving some outcome. However, 100% outcome is not achieved and hence there is a need for a focus on outcome based education. This can be achieved by systematic steps taken from designing the course syllabus to examination and evaluation having teaching-learning process at the Centre. The syllabus is very diluted and does not set any specific objectives which put teachers into a lot of confusion. The NEP is considering this very important aspect and focusing on outcome based education is very much appreciated among teachers community. The institution will strive hard to achieve this target.</p>
<p>6. Distance education/online education:</p>	<p>Distance education is now well established in India. Apart from IGNOU, most of the states have Open University that imparts distance education. Even some regular universities also have started distance education. It is however observed that the students passing from open universities are considered to be sub-standard in the job market. They are not respected. Always the students passing from open universities have to struggle to prove that they are at par with the conventional university students. Online education became popular during covid-19 pandemic. This system has its own limitations, although have a number of advantages. The portals like SWAYAM, NPTEL, etc. are imparting online education which is not so welcome by the students because of its non-connection with their syllabus. These days every</p>

educational institute is running their own online courses, but with great difficulties. Proper infrastructure needs to be developed, such as, uninterrupted internet facility, recording studio and making the institution available the effective software to prepare for the online classes. Our college is also imparting online education since the covid-19 pandemic. Our college is striving hard to train the teachers to make their e-contents for effective teaching of their subjects.

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Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1	1	1	1	1
File Description		Document		
Institutional data in prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1	1	1	1	1

2 Students

2.1

Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
317	323	310	262	184
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
280	284	276	237	165

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of outgoing / final year students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
112	91	68	54	15

File Description	Document
Institutional data in prescribed format	View Document

3 Teachers

3.1

Number of full time teachers year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
18	20	19	14	13

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
23	23	22	20	16

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 7

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
19.16	29.36	26.12	24.83	53.94

4.3

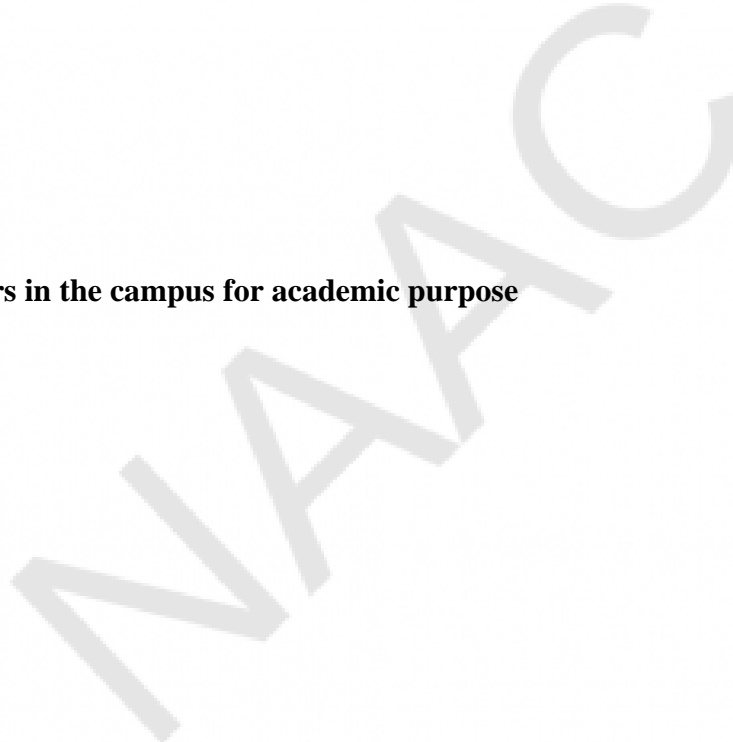
Number of Computers

Response: 24

4.4

Total number of computers in the campus for academic purpose

Response: 19



4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Response:

The Matoshri Nanibai Gharphalkar Science College, Babhulgaon follows the curriculum designed by Sant Gadge Baba Amravati University, Amravati. At the beginning of every academic year, the college releases an academic calendar, which is strictly adhere to the calendar of Sant Gadge Baba Amravati University, Amravati. The time table schedule of each subject is prepared by the Committee organized for the said purpose, which is authorized by Principal. The college receives regular updates of circulars through letters and emails from the university, regarding the changes or modifications in the curriculum. The Principal informs the concerned teacher about changes in curriculum.

The head of the departments conducts academic planning meeting to plan and organize the schedule of lectures and distributes the syllabus among the faculty members of their departments. The faculty members are instructed by the head of departments to complete the syllabus within given time. At the beginning of the Academic year the teachers prepare the teaching plan of their respective subjects. The teaching plan is verified by the Head of the Department. As per the requirement new books are ordered with the concern of subject teachers and students. For implementation of curriculum, teachers have included teaching methods such as presentation, assignments, and seminars for effective teaching. The regular participation of faculty members in development programmes, workshops and conferences enhance curriculum enrichment.

Various co-curricular activities are planned and held throughout the academic session to provide experiential learning to students. Feedback from stakeholders is taken to further enhance the teaching-learning process. Institution has taken several initiatives to ensure effective curriculum delivery. Prospectus containing information regarding programmes and curriculum are uploaded on website and printed for circulation. Timetables are prepared in the beginning of each session and are display on notice board and in front of each classroom, enabling students to attend class right from the starting of the academic session.

Progress of students is monitored through regular assignments and tests. This mechanism judges the progress of students and aids in identifying and correcting problem areas among students. Parents/guardians of under-performing students are informed by the institution. Tutorials are held to enhance the performance of students. The departments analyses university examination result and is present in staff council meeting. Students are mentored by the faculty in small groups to adhere any difficulty they may be facing academically or otherwise. Feedback is collected regularly from the students to improve curriculum delivery. Appropriate action is taken on the problem areas.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

As per the norms laid down by the parent university the college has developed a well organized CIE system. The internal examination committee of the college monitors the entire CIE process. All departments of MNG Science College prepare academic calendar align with the calendar of SGBAU Amravati. These are included in the college prospectus and are also uploaded on the college website. It includes various timelines such as dates of beginning and end of session, mid semester breaks, dispersal of classes, preparatory leave, and tentative dates of practical and theory examinations.

At the beginning of the session, the departments allocate papers to the faculty members. The departmental timetables are prepared well in advance based on the master timetable. They are also displayed outside each lecture room and laboratory, which helps in monitoring the regularity of classes. Timely completion of syllabus, revision and internal evaluation are carried out in compliance with the schedule listed in the academic calendar.

The concerned teachers of the departments shall have to keep the records of the activities. Apart from this departments have given freedom to develop their own mechanism for assessing the learning abilities of the students at the entry point of curriculum delivery and continuous evaluation during the course delivery. Visit to educational institutions and research organization, field work, group discussion or any other innovative activity undertaken by the student. As per the examination scheme 20 marks are allotted for internal assessment. Internal assessment is based on home assignments, class test, project assignments, seminar, study tour, industrial visit.

From latest completed academic year we have started online internal evaluation on the basis of online assignments, online MCQ and short answer type tests. The LMS tools used for online evaluation. Google Class Room, Google meet and zoom is used to conduct the classes. For transparent and effective implementation of CIE, the IQAC, College Internal Examination Committee monitors the CIE mechanism throughout the year.

The performance of students is assessed continuously on the basis of unit test, assignments. The departments hold regular faculty meetings to ensure that continuous assessments are executed efficiently. To ensure timely completion of syllabus, teaching plan of each teacher is obtained in advance and information of syllabi covered every month is sought thereafter. All faculty members participate in the central evaluation process to ensure timely declaration of results of university examinations. This facilitates commencement of the new session as per schedule.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

Response: D. Any 1 of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document
Any additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 0

1.2.1.1 Number of Programmes in which CBCS/ Elective course system implemented.

File Description	Document
Institutional data in prescribed format	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 5

1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2020-21	2019-20	2018-19	2017-18	2016-17
0	2	1	1	1

File Description	Document
Institutional data in prescribed format	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document
Any additional information	View Document

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

Response: 14.68

1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	96	35	35	35

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	View Document
Any additional information	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

Response:

Matoshri Nanibai Gharphalkar science collage, Babhulgaon strongly believes in integrating cross cutting issues relevant to professional ethics, gender, human values, environment, and sustainability with a view to ensure holistic development of the students. The students must become empowered professionals and contribute to the economic and technological development of the nation besides acquiring skills for logical reasoning and decisions in times of crisis. During past decades, the college has made efforts towards developing value based education to science and technical with a vision to promote values to be a better citizen.

Gender Equality:

Gender equality and equal opportunity for women are necessary in the institution. Every activity and program of the institute should provide equal opportunity for the development of the girl students and the female staff. For maintaining the equality among the staff and students the Prevention of Sexual Harassment cell and Antiragging cell are active. These committees take utmost care and provide support to girl student and the female staff. Meetings are conducted on regular basis and discussed over to find solution for making a better environment for the women. Women development seminars also conducted which includes teaching the self-defence.

Environmental Awareness:

Environment awareness is inculcated in students. Environment study is a part of the curriculum of the institution. Environment day is celebrated every year with enthusiasm. NSS students along with college students participate in tree plantation and cleanliness programs. We make student aware about the importance of preservation and conservation of the environment.

Human rights:

Human rights are the basic rights enjoyed by all. The institute make sure that no violation human rights takes place.

Professional ethics:

Professional ethics are taught to students as part of their holistic development. Importance for group work and imbining leadership is being taught.

Moral and ethical values:

Moral and ethical values are integral part of education of the students. Our teachers put their best efforts to groom students and make the responsible citizen. We celebrate day of Nation viz; Independence day, Republic day, Gandhi Jayanti, Teacher`s day, Youth Day etc. The importance of celebrating National Days is to imbibe the nation values in the students. We also celebrate International Yoga Day and World Environment Day regularly in every academic year.

Discipline Committee:

This Committee Formed by Physical director and one faculty member from each department. This committee plays a vibrant role in the maintenance of discipline of the complete campus. Furthermore, this committee is working for the functioning of the college as well as any special occasion or any programmes. This committee`s presence and control is mandatory.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document
Any additional information	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 100

1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1	1	1	1	1

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 68.14

1.3.3.1 Number of students undertaking project work/field work / internships

Response: 216

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the

following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni

Response: B. Any 3 of the above

File Description	Document
Any additional information (Upload)	View Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

- 1. Feedback collected, analysed and action taken and feedback available on website**
- 2. Feedback collected, analysed and action has been taken**
- 3. Feedback collected and analysed**
- 4. Feedback collected**
- 5. Feedback not collected**

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 77.56

2.1.1.1 Number of students admitted year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
317	323	310	262	184

2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
360	360	360	360	360

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 86.35

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
243	250	234	204	142

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

The institution assesses the learning process of students in two ways: at the beginning of the session, all the students have to attend a compulsory orientation program upon admission. After getting information about their academics, it is possible to categorize the students as the average, slow learners, and advanced learners. Second, we have a mechanism for continuous monitoring and evaluation of students. We consider the three grades of students on their performance and we identify who are the advanced learners and who are the slow learners and who are the average students.

- **Strategies for slow learners:-**

Extra classes are conducted to improve basic concept of students. Our respective departments draw up a schedule for organizing remedial classes for slow learners. The exercise is done in a particular manner to encourage the students. The teacher gives one to one attention in remedial classes and focuses on individual problems of students about concept in better way as compared to regular class. In these classes advanced learners also get participated to revise their concept. Counseling sessions also held for slow learner. Class tests and problem solving sessions are also conducted in a week to evaluate their improvement.

- **Advance learner:-**

Advanced learners are provided with several opportunities to develop their knowledge and skills. These students are provided with additional library facility. They are encouraged taking part in the various competitions, like Aviskar, Science exhibitions, Quiz Contests at university level and other events to promote competitive spirit among advanced learners and to build their confidence.

- **For both learners:-**

The facilities are available like library having different collections of books on recent and advanced topics according to the needs of students. The library also ensures availability to extend its timing and provide reading atmosphere. The college also organizes guest lecturers from time to time.

File Description	Document
Upload any additional information	View Document
Paste link for additional Information	View Document

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 18:1	
File Description	Document
Any additional information	View Document

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

Response:

Matoshri Nanibai Ghalphalkar Science College provides learning platform for the students to enhance their experimental as well as participative learning. All departments conduct innovative programs, workshops and effective teaching learning activities. To enhance the experimental knowledge and practices students are engaged in the laboratory. To make learning interesting lessons are taught by using power point presentations. Mostly uses lecture method to interact with the students directly. It helps faculty to go through each and every query of the students and understand their problems.

To enhance the experimental learning, the students are allotted with the experiments which they have to perform on themselves with the proper guidance of the teacher. This will help students in applying their knowledge and conceptual understanding and improving experimental skills.

Activities like quiz competition or the question answer session during the lecture allow students to the competitive answers to questions, thinking on their own and justify their answers. This enhances the students learning and interest in particular subject.

In participative learning, students are allowed to participate in various activities such as seminar competition, group discussion, cultural activities where they can show their extra ordinary skills.

Assignments of each subject are given to the students which decide their understanding level during session. To revise the contents explained in previous lecture 10 minutes are given to the students to maintain the link for the topic of the current lecture.

Internal assessments are arranged in all departments that help in detection and valuation of strength of individual students. Written assignments need to be submitted in department that enhance the writing skills and researching skills of the students.

NSS activities have been arranged for the students to learn organization and management of various social events and develop new ideas. To make people aware about new things, new innovative ideas are used. The faculty arranges outdoor visits and workshops, and guest lectures. This will help develop the leadership quality among students.

The teaching learning method is one of the effective methods used by the teacher to deliver their lectures which helps to interact with students properly. Student –Teacher interaction is a must during complete session.

To enhance the practical knowledge of the various courses, students are encouraged and guided to participate in experiments and instrument handling workshops in the presence of respective professor and lab assistance.

Other workshops are arranged for soft skills and personal skills development. Thinking of the students is enhanced by asking them questions related to the topic during the lecture.

To enhance skills lectures, lab facilities, seminar, group discussion field visits are used by various departments.

Library facilities help students for E-learning enhancement. Library e-resource facilities are made available for students on library website of college.

File Description	Document
Upload any additional information	View Document
Link for additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

MNG Science College promotes the advanced Information and communication technology tools for the effective teaching and learning process. MNG Science College believes that use of ICT enabled tools for effective-learning process is the best method to enhance student's knowledge. The College has upgraded technology to give new direction to teaching-learning experience. Information and Communication Technology (ICT) is the most important part of organizations these days. It was suggested by several scholars that ICT will be an important part of education for the next generation. The college offers many methods of enhancing classroom teaching and learning. In addition to the chalk and talk method, College uses ICT enabled tools such as Power point presentation, Seminars on projector, video clipping, audio systems, E-resource for library to enhance the digital knowledge and practical learning of the students. We found that half of the class find it hard to understand and learn through the lectures methods, they need to actively process new materials. The project, power point presentation based learning using ICT has potential to serve various needs of learners.

MNG Science College is equipped with adequate learning resources. College has well-furnished ICT enabled display and well-furnished seminar hall, conference room, specialized labs, used for teaching-learning. The access of internet is provided to all teaching staff, administrative office, all students and library. This has improved the communication across the campus as it has given reliable and fast wireless connectivity. Staff members are also adopting modern methods of teaching-learning. Staffs prefer using ICT based teaching as well as chalk talk based tools for explanation and illustration. LCD is used for displaying videos related to topics for visual based understanding in addition to power point method of teaching.

Certainly zoom is used for the online lectures at different levels. Considering the role and impact of

technological advancement on higher education, the college has upgraded technology. Students also participate in the collaborative learning activities with proper guidance from the staff using ICT tools such as presenting latest topics in the technical seminar hour. They are also actively involved in the activities such as projector handling, power point presentation making to enhance technical knowledge. Computers with good internet are available in the computer lab. It provides open-access system to both staff and students. To teach mathematical subjects in online mode, teachers have used various online tools like whiteboard in zoom application.

In ICT enabled classroom we use various teaching-learning applications like Google classroom, zoom applications, Google meet etc., these applications are available along with basic features of learning and latest learning technique. Use of ICT enabled classrooms in modern education system is beneficial for the society. Positive attitude towards using of ICT enabled classrooms will improve our quality of education in smart way. Education in the current era is more challenging because of differences in different learning styles but the proper use of ICT tools can be helpful in catering the needs of the different types of learners.

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process.	View Document

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 18:1

2.3.3.1 Number of mentors

Response: 18

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
Mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 80.57

File Description	Document
List of the faculty members authenticated by the Head of HEI	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 18.28

2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
2	4	3	3	3

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 2.86

2.4.3.1 Total experience of full-time teachers

Response: 51.4

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

Matoshri Nanibai Gharphalkar Science College follows the guidelines of Sant Gadge Baba Amravati University regarding the assessment and evaluation process. In order to make sure the transparency in internal assessment, the principal holds meetings with faculty members and points out the effective implementation of the evaluation process. Internal assessment dates are arranged by taking the reference of the academic calendar of the university. Internal assessment is carried out for theory courses, laboratory courses, seminars and projects. Students who are admitted to the respective course are assessed continuously through various evaluation processes at the college level. Evaluation is made through different activities like writing assignments, submission of unit tests, laboratory practical exams and seminar presentations. The weightage for the unit test, assignment submission, seminar presentation varies as per the concerned faculty and syllabus. Notifications regarding the internal assessments are displayed on the notice board for students well in advance.

For the transparent and robust internal assessment, the following mechanisms are arranged:

- Question paper setting and conduction
- Result display
- Interaction with students after internal examination
- Conducting Curricular activities like seminar presentations.

Mechanisms in brief:-

For theory sessional assessments, the question papers are prepared at the departmental level with reference to the previous year question set followed by faculty members. The weightage of the question paper is checked by the authority and the final paper is approved. Answer sheets are evaluated and checked; answer sheets are shown to the students and the performance of the students is displayed on the notice board. Personal attention is given to the poor performing student after this assessment. Students appearing for the second and third year are specially asked to deliver their seminars on the concerned subject. Record of the obtained marks is well maintained in the register. The concerned subject teacher maintains the record of all the internal exams. The green board presentation is done by the students and this method releases the shyness of the students and develops the self-confidence in them. Also, the seminar presentation improves the communication skills of the students. Not every student uses the seminar presentation method; some use the green board method according to their needs. This method is very useful for their personality development and their higher education. All the records and attendance in internal examination, question papers, summary of mark sheets are properly maintained by the teachers for academic monitoring and audit.

The method of the internal assessment helps the faculty to evaluate students appropriately. It has been observed that the performance of students and interest in particular subjects is increased. It has created the interest among the students to take active participation in various co-curricular or extra-curricular activities for their personality development.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.5.2 Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

Response:

The college has internal assessment monitoring committee to ensure the evaluation of internal examination and conduct the internal examinations, a transparent, time bound and efficient. In order to deal with internal examination, the institution has some test-1, test -2, assignments, lab evaluation, project presentation, etc.

The internal theory and practical examinations are planned and conducted as per the academic calendar of college. After the unit test, the students scoring marks are displayed on notice board of all departments within 5 days. If they are not satisfied in valuation marks the students can raise grievances regarding evaluation process.

The college has constituted internal assessment monitoring committee to look into the grievance related to internal examination. Any grievance is referred to the committee for the resolution of the problem.

For the internal and university examination related grievance, following mechanism is followed:

The college makes individual seating arrangement for students to avoid malpractice in the examination which results into lessor grievances.

At the beginning of the semester, faculty members inform the students about the various components in the assessment process during the semester.

For the lab courses, the marks/ grade scored by the students for each experiment is indicated in the observation/ recorded. The independent learning, practical approach to the real time application is tested by viva voice for laboratory courses.

For the quality of the projects, the evaluation is done by project preview committee along with the project guides.

REDRESSAL OF GRIEVENCES AT INSTITUTE LEVEL:

The continuous evaluation of students is carried out by faculty regarding theory lectures, labs, assignments, unit test. The marks allotted are displayed on the notice board.

The correct answer sheets at random are verified by HOD to ensure the standard evaluation process. The internal assessment test are conducted each semester at department level as per the university and

communicated to the students well in advance.

With respect to internal exam, if students are not able to write the exams because of unavoidable reasons, they can request the principal. After the approval of principal students are allowed to write the re-exams.

Thus, the institution makes maximum efforts to ensure transparent mechanism to resolve examination related grievances.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

Response:

Matoshri Nanibai Ghalphalkar Science College is the Single Science faculty college in Babhulgaon offers Bachelor of Science Course for the students who lives in rural area with different subjects. This institution offers B.Sc. Course with the subjects Physics, Mathematics, Electronics, Chemistry, and Computer Science from 2008. The institute introduced Botany and Zoology in 2018.

Before starting the new session faculty arranges program for the students who are admitted to the institution in which all information regarding to the course are given.

The college is affiliated to the Sant Gadge Baba Amravati University and follows the program. Programme has specific objectives and the over-all design of the course ensures a certain set of skills and competence that the students graduating from the institution should gain at the end of the program. Some of the key acquirement or the advantages that are expected from the students are knowledge, skill development, creative thinking, discipline, ability to work in team and leadership skills for their future. The program is designed in such a manner that the students learn the knowledge regarding to science.

The course outcomes are prefaced to each syllabus and shared with all the students and the staff members. The entire program offered by the institution emphasize on academic quality. In General, the course outcomes of the institution focus on empowering the students for higher studies, research, and entrepreneurship for competitive examination. Also, the college ensures that during the course of implementation, the stated objectives of the curriculum are achieved. To do this, various practice tests, yearly exams are conducted to monitor the outcomes of the syllabus. Systematic documentation is maintained to review the outcomes of the curriculum. Program Specific Outcomes: Various programs offered by the college have specific outcomes such as:

B.Sc. (Bachelor of Science)

Program Outcomes:

PO1: Ability to think, acquire knowledge and skills through logical reasoning and to in calculate the habit of self-learning.

PO2: Ability to analyse the result and apply them in various problem.

PO3: Ability to communicate various concepts of B.SC. programme effectively using examples and their geometrical visualization.

PO4: Compatibility of demonstrating comprehensive knowledge of B.Sc. Programme.

PO5: This program will also help students to enhance their employability for jobs in different sectors.

File Description	Document
Upload COs for all courses (examples from Glossary)	View Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.**Response:**

The assessment tools and processes used for measuring the attainment of each of the program outcomes and program specific outcomes are mentioned below:

Institution has outcome-based education mechanism to ensure the attainment of course outcome and program outcomes. The objective and outcomes are property mapped for testing and evaluation of students so PSO's are attained through the capability of mapping in terms of knowledge and skills. The departments adopt both direct and indirect methods of assessment to ensure attainments of PO and CO.

Direct methods:

- Internal test
- Group discussion
- Student's projects
- Laboratory performance
- Assignments
- Semester test
- Semester end theory test

The score of this assessment is taken into account for evaluation CO's.

Indirect assessment methods:

- Alumni survey
- Co-curricular activities
- Extracurricular activities
- feedback

Attainment of the course outcomes:

The course outcome is measured by syllabus, continuous evaluation (internal evaluation), setting up of question paper, evaluation and result.

At the departmental level the heads of the department and the teachers who are engaged in any class strive to complete the courses in time and in some cases extra classes are conducted for the students who are identified as relatively slow learners. Internal tests are held to evaluate co.

In the end of semester, a written examination of 3 hours as per the University pattern is conducted. This helps students to get acquainted with the university question pattern and prepare accordingly.

Assessment of PO / PSO:

The program specific outcome is measured by taking the aggregate result of all courses in a given program of an individual student and then the average performance of all the students in a given programs. The assignments are provided to students and they refer the text books to find out the answer and understand the expected outcome of the given problem.

File Description	Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 77.35

2.6.3.1 Total number of final year students who passed the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
103	91	68	54	15

2.6.3.2 Total number of final year students who appeared for the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
112	92	94	68	34

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document
Paste link for the annual report	View Document

2.7 Student Satisfaction Survey**2.7.1 Online student satisfaction survey regarding teaching learning process**

Response: 3.42

File Description	Document
Upload database of all currently enrolled students (Data Template)	View Document
Upload any additional information	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 0

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description

Document

Institutional data in prescribed format

[View Document](#)

3.1.2 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 0

3.1.2.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

3.1.2.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
7	7	7	5	5

File Description

Document

Institutional data in prescribed format

[View Document](#)

3.1.3 Number of Seminars/conferences/workshops conducted by the institution during the last five years**Response:** 8**3.1.3.1 Total number of Seminars/conferences/workshops conducted by the institution year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
02	02	03	0	01

File Description	Document
Report of the event	View Document
Institutional data in prescribed format	View Document

3.2 Research Publications and Awards**3.2.1 Number of papers published per teacher in the Journals notified on UGC website during the last five years****Response:** 0.12**3.2.1.1 Number of research papers in the Journals notified on UGC website during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	2

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.2.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**Response:** 0.18**3.2.2.1 Total number of books and chapters in edited volumes/books published and papers in**

national/ international conference proceedings year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	1	1	1

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.3 Extension Activities**3.3.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.****Response:**

MNG Science College provides lots of importance to holistic development and social needs by motivating students and conducted many activities focusing on social issues during last five years.

The NSS is the national service scheme is an Indian government sponsored flagship for public service program conducted by the ministry of youth affairs and sports of the government of India. The aim of NSS is developing the student's personality through community services. NSS is a voluntary association of young people in college, Universities level working for a campus community

MNG Science College has 50 dedicated students volunteers under the NSS. All these Students work on extensively on the social issues in the neighbourhood of college campus and the adopted village.

Activities of extensions:

- Self defence training
- Tree Plantations
- Pulse polio camping
- Women empowerment
- Disaster management programme
- Yoga training
- Disease Awareness and health camps
- Swacch bharat abhiyan
- Personality and skill development programmes
- Voting awareness programmes
- Covid awareness programmes

These activities develop students into ideal citizen with high moral values and social responsibilities.

Impact of extension activities

The main aim of this program is to gain idea of social issues and to give social service without any discrimination.

- **Humanity:** Due to the extension and social service students gain the quality of being kind and understanding of social issues and solving them.
- **Impartiality:**
- **Neutrality:**
- **Independence:**
- **Voluntary service:**
- **Unity:**
- **Universality:**

are the moral building blocks of the extension activities.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.3.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 2

3.3.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
1	1	0	0	0

File Description	Document
Institutional data in prescribed format	View Document
e-copy of the award letters	View Document
Any additional information	View Document

3.3.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 46**3.3.3.1 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
0	11	12	11	12

File Description**Document**

Reports of the event organized

[View Document](#)

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)**3.3.4 Average percentage of students participating in extension activities at 3.3.3. above during last five years****Response: 15.57****3.3.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
0	50	50	50	50

File Description**Document**

Report of the event

[View Document](#)

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)**3.4 Collaboration****3.4.1 The Institution has several collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-job training, research etc during the last five years****Response: 9****3.4.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-job**

training, research etc year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1	2	2	2	2

File Description	Document
Institutional data in prescribed format	View Document
e-copies of linkage related Document	View Document
Any additional information	View Document

3.4.2 Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the last five years

Response: 16

3.4.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
2	2	3	4	5

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document
e-Copies of the MoUs with institution./ industry/ corporate houses	View Document

Criterion 4 - 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 equipment etc.

Response:

College has six classrooms and well-established departments which are Department of Computer science, Department of Electronics, Department of Mathematics, Department of Physics, Department of Chemistry, Department of Botany and Department of Zoology. All departments have laboratories with essential facilities. The College has spacious classrooms, laboratories and library with appropriate light arrangement ventilation and proper electric supply accompanied with appropriate number of switch boards and power plugs. Every laboratory has sophisticated instrument facility, Broadband Internet facility. Besides, the computer laboratory college has a computer system set-up in the office and in the Library with a LAN facility. Several required licensed software is installed in the system. For Seminar slide projector, overhead projector and LCD projector are accessible. With the above infrastructure college has an Internet facility, notice board, digital Sound system, Scanner and Photocopy Machine, and Laptop. Along with this, a conference hall with LCD projector and an oval shaped meeting table with chairs is available. The auditorium hall is present to conduct any function or meeting. Regular classroom teaching, practical in the laboratories and computerized office work are some examples of the utilization of the infrastructural facilities. Apart from the routine work as mentioned above, the facilities are used for conducting the social programmes organized by the government agencies, some NGOs and the college.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Response:

Facilities for sports:

College has sports facilities for both outdoor and indoor games: Cricket, Kabbaddi, Kho-Kho, Volleyball, Athletics, Table –tennis, Badminton, Chess and Carrom. Total area for sports and games field is 76*61m. College has a contract with ‘Maharudra Vyayam Shala’ nearby gymnasium to be used for staff members and students. College organizes yoga practices for students, teaching and non-teaching faculties. Our faculty professor Dr. S. S. Battalwar serves as yoga instructor at various places in Yavatmal.

NSS: College had 509.6 sq. ft independent well-equipped office for NSS. Budget sanctioned for NSS by the government is fully utilised.

Facilities for cultural activities:

College has 1536.6 sq. ft Auditorium Hall for cultural activities.

Auditorium: The Size of Auditorium is 1536.6 Sq. ft. This is useful to conduct cultural programmes. Auditorium is well equipped with a proper sound system and podium.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 57.14

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 4

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 0

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Upload audited utilization statements	View Document
Institutional data in prescribed format(Data template)	View Document

4.2 Library as a Learning Resource

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

Response:

College provides Open Access Catalogue for students and staff. Library has joint reading room. Reading room is well furnished for accommodation of students and staff as well. Separate stand and rack are maintained for newspaper section. Total area of the library is 1978.6 Sq. Mt. Total seating capacity is 60 students approximately. On working days library remains open from 10 am to 5.30 Pm. Among total area for 782.86 Sq. Mt. Area is used as student reading room and 299 Sq. Mt. as staffs study room. Remaining 896.14 sq.mt area is occupied by stack room, journal section, technical section, circulation section, Librarians Table Section, Library Internet section and Periodical Section. Library has ILMS software.

Computer systems	03
Name of ILMS software	Libsoft
Nature of automation	Partially
Version	2.0
Year of Automation	2016
Printer	01
Photocopy machine	01
Internet bandwidth	100 mbps.

Library ensures the purchase and utilization of books, journals and other reading materials as per the staff recommendations and library advisory committee recommendations. Library service provider maintains independent groups for all three year to keep students and staff members updated about new arrivals in Library and even for distribution of weekly e-journals.

For e- journals, we provide student about online available free journal website address Such as NISCAIR (www.hopr.niscair.res.in), NDL: National Digital Library (<https://ndl.iitkgp.ac.in/>) INFLIBNET : Information And Library Network (<https://ndl.iitkgp.ac.in/>) and INSA : Indian National Science Academy (<https://www.insaindia.res.in/>).

Library has its own independent notice board along with rule and regulation chart.

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 40331.8

4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
1667	17872	23770	38798	119552

File Description	Document
Institutional data in prescribed format(Data template)	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year

Response: 4.48

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 15

File Description	Document
Details of library usage by teachers and students	View Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

Currently we are using a LAN facility in the office, computer lab and in the library. We are using licenced software for windows- 7, quick heal pro antivirus, win Pro 7 sp1 64-bit. There are 25 computers with internet facilities. The broadband internet facility is sufficient for use by the students and staff.

The institute has BSNL Wi-Fi facility in college campus for the students and faculty members to avail internet connection at any place in college. The connectivity through a fully networked campus with IT infrastructure, computing and communication resources offers students the facilities of email, net surfing, up/down loading of web-based applications, besides helping them in preparing projects and seminars.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 17:1

File Description	Document
Upload any additional information	View Document
Student – computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution

Response: A. 750 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	View Document

4.4 Maintenance of Campus Infrastructure

<p>4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)</p> <p>Response: 23.25</p>														
<p>4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>2.25</td> <td>3.94</td> <td>6.47</td> <td>5.98</td> <td>22.78</td> </tr> </tbody> </table>					2020-21	2019-20	2018-19	2017-18	2016-17	2.25	3.94	6.47	5.98	22.78
2020-21	2019-20	2018-19	2017-18	2016-17										
2.25	3.94	6.47	5.98	22.78										
File Description	Document													
Institutional data in prescribed format(Data template)	View Document													
Audited statements of accounts	View Document													

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

Response:

The infrastructure pertaining to physical, academic and support facilities in college are regularly maintained to ensure that they are of maximum benefit to the students as well as teaching and nonteaching staff. Staff members are deputed to ensure maintenance of the campus. There are various committees like Library, Sports, Gardening, etc. to ensure proper maintenance and upkeep. Suitable budget is allocated every year for the maintenance of various facilities. The various committees meet regularly to monitor the optimum use of infrastructure which is accessible to the students and staff of the college.

Most of the lectures take place in classrooms and some lectures with projector. This is to ensure usage of new audiovisual pedagogical techniques during the teaching process along with this we have open classrooms where lectures are given. The college has a Lab Assistants and Lab Attendants to ensure proper upkeep of the various labs including the computer science department.

The College has a well-equipped library. A Computer Lab has been set up to be used by various departments. Students make extensive use of the facility for reading and learning. The campus also has computers set up in the office and library with a LAN facility. Both the Library and office section of the

college have undergone computerization. Library has computer terminals with internet facilities and sufficient reading spaces. A regular update on new additions is provided by the library. A library committee works regularly to oversee the functioning of the library and various other committees coordinate with each other to enable the students to get maximum exposure and participation and also to avail all the facilities provided by the college. An eco-friendly environment is of prime importance in the college.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document



Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 53.81

5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
201	170	161	131	94

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	View Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 0.41

5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
02	01	01	02	0

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: B. 3 of the above

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 16.36

5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
35	40	40	55	45

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: B. 3 of the above

File Description	Document
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 8.51

5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
12	3	0	1	4

File Description	Document
Self attested list of students placed	View Document
Institutional data in prescribed format	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 29.46

5.2.2.1 Number of outgoing student progressing to higher education.

Response: 33

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

Response: 0

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description

Document

Institutional data in prescribed format

[View Document](#)

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 1

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
0	1	0	0	0

File Description

Document

Institutional data in prescribed format

[View Document](#)

e-copies of award letters and certificates

[View Document](#)

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

Response:

Student Council:

The college has a student's council as per Maharashtra Public University Act 2016. The council is constituted as per above. The institute believes in giving the equal opportunity to the students in supporting the authorities and the college facility in running the events of the college. For this, the college provides them a platform with opportunities to participate in the various academic and administrative bodies. President and secretary of the student council are nominated on the college development committee.

Objective and Function of Student Council:

- To promote all-round development (academic, professional and personal) of students by involving them in various co-curricular and extra –curricular activities.
- To promote an obliging culture amongst the students and to develop their leadership abilities.
- To conduct various activities / programmes at inter- collegiate level.
- To help in maintaining discipline and healthy ambiance on the college campus.
- To seek help as the task forces in the special drives such as fund raising, disaster management and eventmanagement, etc.

Student Council Activity

Organization of cultural activities, sports events, and participation in organization of workshops, conferences organized by the college. Active participation in NSS Camp, Extension activity of the college, Plantation drive, Cleanliness drives, etc.

All the departments of our college form their subject association and constitute the body of active students. These students play vital role in organizing programmes of their subject like seminars, workshops, study tour, visits , departmental extension activities etc. and acquire knowledge and develop their skill of demonstration. This practice gives them experience of academic as well as administrative experience.

Internal Committees

The college has 14 internal committees in which active students are nominated by the principal and committee convener. The objective and role of the committee is clearly stated at the time of committee formation. The aim of nomination of students in the committees is to understand working of college. The different committee of college like-

- IQAC
- NSS Committee
- Cultural Committee
- Games and Sports Committee
- Library Advisory Committee
- College Magazine Committee
- Grievance and Redressal Committee
- Discipline Committee
- Prevention Harassment Committee
- Anti-Ragging Committee
- Career guidance Committee

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 46.8

5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
40	41	43	55	55

File Description	Document
Upload any additional information	View Document
Report of the event	View Document
Institutional data in prescribed format	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

The college has the Alumni Association which is not registered. The Alumni Association has been involved in a number of college development activities and academic related activities along with the co-curricular and extra-curricular activities. In different committees of the college alumni are nominated. The alumni also helps the college by donating books.

The Alumni Association is formed by the alumni of the college from different batches. There is one teacher appointed as the coordinator to coordinate and guide the alumni association for smooth conduct of the activities. The college understands a crucial role of the alumni through their feedback for the development of the college.

Non-Financial Support:

Feedback from Alumni

The institution takes feedback from the Alumni to improve the quality in the teaching learning process and other progressive aspects. All former faculty members contribute from time to time to improve of the institution.

Interactive Session

The Alumni members are invited by Alumni Committee functioning in the college to guide the students at large. The present students are inspired by their precious guidance.

Yoga for Self Development

Yoga workshops for self-development are arranged in the college and NSS camp with the help of Alumni Association.

Social Awareness Programmes

The Alumni Association works at rural areas in various ways such as performing Cleanliness Drive Campaign, Awareness for green village Movement, Environmental issues etc., to generate awareness in social issues through the participation in extra-curricular activities of the institution.

Representation of Alumni

Alumni of the college are given fair representation on academic and administrative bodies of the college.

They are nominated on college development committee, on internal quality Assurance Cell and Anti Ragging and sexual harassment committee.

Activity in collaboration of college

The college organizes Convocation ceremony, National Science Day, Blood donation camp in collaboration with the alumni association. The topper students of the college are felicitated and given prizes on Independence Day and Republic Day.

Support for NSS Village Adoption

The alumni members help to the NSS unit for adoption of village for its annual NSS Camps. They even help to a great extent in special camp for accomplishing development activities.

The student council of the college is responsible for maintenance of general discipline and positive atmosphere for studies, solving difficulties of the students by notifying them to the authorities.

1. Sushil Waghmare, the ex student of college donated book for library Lalbahadur Shastri : Rajkarnatil Maryada Puroshottam .
2. Piyush Wagh, a student of B.Sc. second year during 2016 donated novel for library: Wise and Otherwiswe by Authar Sudha Murthy.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: E. <1 Lakhs

File Description	Document
Upload any additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

Response:

Matoshri Nanibai Gharphalkar Science college, Babhulgaon established in 2008 under the Sudam Prasarak shikshan sanstha. Matoshri Nanibai Gharphalkar Science college, is the oldest and only science faculty college in Babhulgaon rural region.

1. Vision and mission statement :

◦ Vision Statement :

- To start post graduation course in all branches.
- Starting research activity in pure as well as applied field.
- To start constructive activities that are helpful to the society at large.

◦ Mission Statement :

- Providing best science education in rural area to meet the scientific challenges and contributing to the scientific research for the community development.

1. Nature of Governance :

The institution follows the regionalization of both academic and administrative work on the basis of participative Management. The institution has faith and go ahead with various committees formed by the college.

1. Perspective/ Strategic plan :

The institution has a perspective / Strategic plan in place to help it develop in a systemic, well thought out and phased manner.

Internal Quality Assurance cell

IQAC plans various activities which are necessary to enhance the quality of the education and maintaining quality in teaching, learning and evaluation.

College development Committee (CDC)

There are 5 members from management (president, Secretary, social field, education field and industry field), 3 members from teaching, one HOD, IQAC coordinator, one from Non – teaching, one from alumni, President and Secretary of the Student Council and Principal is Ex- office secretary of the CDC.

- Every department has subject association and it conducts seminars, workshops, guest lectures and group discussions.
- Sports department prepare the students for the participation in various sports.
- The college intends to sensitize the students towards social concerns human rights, gender, Environmental issues.
- Through NSS and the cultural activities students are constantly in tune with the society and try to solve the social problems.
- Through cultural activity and discourse on the life of great souls is conducted regularly. These inspire the ethical values among the students to constitute the great nation.
- College actively participates in Avishkar, an activity organised by the University. Organises Workshops on various topics for the teachers as well as the students. Participation of the students in the seminar presentation, poster presentation and science exhibition is a regular practice of the college.

Internal committee

There are 11 internal committees in the institution. The internal committee with students representation help to run the academic work of college.

1. Participation of teachers in decision – Making Bodies.

The teaching and Non – teaching staff and also students have participation in the decision making bodies such as IQAC and CDC.

Cultural Program

To drive outstanding performance of the students Institution Provide opportunity to students by motivating them to take part in the various cultural programs by college and parent university such as Youth Festival by the University.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management**Response:**

- Matoshri Nanibai Gharphalkar Science College, motivates and encourages ethnicity of decentralization and participative management by concerning staff members in the number of organizational roles.
- For the participative decentralization and governance, The Principal has appointed, Head of the departments (HOD) and provided administrative as well as academic independence and mobility to them for the efficient governance and management of the department.
- The decision making body of the college contains CDC and IQAC. The CDC involves representatives from the institute Matoshri Nanibai Gharphalkar, teaching staff, Alumni, non – teaching staff as well as the experts of different field in the society and the students.
- The various committees are formed as per the needs. The college committees are responsible for the admissions of students, examination, time table, purchasing, organization of extension activities, welfare of students, and prepare the working strategy for the effective functioning of the college.
- The convener of the committee makes a budget and submits it to the principal subsequently the principal gets the budget sanctioned from CDC, and thus the committee works in the college.
- The evaluation for the quality assurance of the college and organizing the meetings throughout the year is planned by IQAC.
- The committee meetings are organized from time to time in the college.
- The reports of the activities are prepared by each of the committee at the end of the

Every academic cycle and the actions are taken accordingly.

Case Study: Maintenance Committee

The department which is in need of restore and maintenance work has to record a written complaint to the maintenance committee through the respective staff of college.

Objectives of the committee

- Tree Plantation in the premises of the college
- Campus embellishment
- Drinking water facility
- Implementation of good thoughts
- Providing electrical facilities
- Maintenance of physical facility

Mechanism Maintenance Committee :

At the beginning of the sessions the committee prepares plans and budget for the maintenance of the college throughout the year. The budget is approved by the principal of the institute, and takes the feedback of the work done regularly. In urgent situations maintenance works shown by the CDC are also completed by the committee of college.

The details of the Maintenance work :

- The responsible person of the committee inspects the site of the work and complete the task
- After repairing the bill is generated and processed to the principal of the college.
- All the maintenance bills are brought to the notice of the principal monthly.
- As per the student's strength classrooms and laboratories are allotted.
- Staff informs the maintenance committee about the required maintenance - cleanliness/ repairing.
- The computer lab maintenance is under the laboratory in-charge and In-charge takes care of the repairing and maintain of all computers.
- The internal agencies execute and support the maintenance schedules.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.2 Strategy Development and Deployment**6.2.1 The institutional Strategic / Perspective plan is effectively deployed****Response:**

Taking into consideration the quality indicators of seven criteria by NAAC, new education policy and UGC guidelines, the perspective plan for the span of five years is prepared by college. The IQAC of the college has taken an initiative and plays a most important role in improving the excellence of the organization.

Detailed objectives and goals of Perspective Plan 2015-16 to 2019-20:

- To Submit AQAR
- To start Gym facility.
- Feedback taken from students on curriculum and on the other general facilities.
- Programs conduct on value based education
- New e- resources arranged in the Library.
- Involvement of students in the University level competition 'Avishkar' is improved.
- Projects taken from final year students.
- New Certificate Courses are ongoing.
- To boost Teaching and learning made ICT enabled.
- Faculty wise workshops are planned.
- Office atomization software and Lib-Soft software are installed in the library.

Best Practice:

1. Title of the Practice: Extension of Chemistry Laboratory for the benefit of Society.

a) Soil and Water Analysis

2. Objectives:

- 1) To make the farmers aware of their soil health.
- 2) To counsel the farmers to reduce production cost and increase crop yield.
- 3) To make awareness among villages and farmers about quality of drinking water and irrigation.

3. The Practice:

The collection of the soil sample is the first step of soil analysis. Nearby farmers collect the soil samples from their farms. The soil sample thus received is analyzed by the college staff and students using soil testing kits and standard given method of analysis. The soil test reports are prepared and farmers are then counseled on the cropping pattern, the type and dose of fertilizers on the basis of their soil test reports. The students are made aware about the importance of the soil and water analysis.

5. Evidences of Success:

Feedback from the farmers about the soil test reports is very encouraging to us. The farmers stated that their expenses on fertilizers have been reducing noticeably and the crop yield has also improved.

6. Problems Encountered:

- The farmers are very much reluctant upon soil testing.
- The farmers do not want to change their traditional method of agriculture.
- They completely neglect the quality of water for drinking as well as for irrigation.
- The eating habits of the people are responsible for neglecting the food adulteration issues.

7. Resources Required:

- Herculean efforts are needed to make people aware about soil and water.
- We need the atomic Absorption spectrometer for micronutrients analysis
- Incubators are needed for the microbial analysis of water and soil.

File Description	Document
Strategic Plan and deployment documents on the website	View Document
Paste link for additional information	View Document

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.**Response:**

The college is permanently affiliated to SGBAU Amravati and is governed by Sudam Shikshan Prasarak mandal . At sansthan, level college is ruled by the President and the Secretary. At the college level, the Principal is the head of the internal administration and is assisted by HODs, staff, and IQAC. The apex body of the college is CDC.

Administrative Setup:

The administrative setup consists of the Principal followed by the HOD, faculty in-charge. Head clerk, Junior Clerks, Assistants, and Attendants. The organization of departments includes Head of Departments, Assistant Professors, Librarian and a Director of physical education. The formal organizational structure of the library staff includes the Librarian and Library Attendant. Organization structure of the Department of Physical Education and Sports includes a Director of Physical Education.

Service Rules:

For the service conditions and rules, the institute follows the rules and regulation according to UGC, SGBA university Amravati, New Delhi and Government of Maharashtra.

Procedures for Recruitment:

In college, the employment is carried out in two diverse ways:

- Permanent Posts: The permanent posts are recruited by the Government of Maharashtra according to the rules of the UGC and university.
- Temporary Posts: The temporary posts are recruited by the Sanstha Management according to the rules of UGC and university.

Procedures for Promotion:

The promotion is allotted according to SGBAU Amravati, New Delhi, Government of Maharashtra and UGC.

Grievance Redressal Mechanism:

The college has a Grievance Redressal Committee, Prevention of Sexual Harassment Committee, and Anti-ragging committee.

College Committees:

College has 11 committees which play an important role in the execution of responsibilities and activities on the campus. Through the committees, the college achieve decentralization of power structure.

File Description	Document
Upload any additional information	View Document
Link to Organogram of the Institution webpage	View Document
Paste link for additional information	View Document

6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
Institutional data in prescribed format(Data template)	View Document

6.3 Faculty Empowerment Strategies**6.3.1 The institution has effective welfare measures for teaching and non-teaching staff****Response:**

The strategies adopted by Government of Maharashtra for faculty welfare include career improvement benefits for those with higher qualification such as Ph.D. as well as opportunities for those who wish to

advance their education.

- The Faculty Development Program of UGC is available for the teaching staff to encourage doing Ph.D.
- All leaves facilities as per Government of Maharashtra, University and UGC such as duty leave; medical leaves and maternity leave are provided.
- Financial support for research project and duty leave is being provided to attend workshops, conferences and seminars etc.
- Sports facilities are available for the teaching and the non-teaching staffs.
- Teachers are allowed to attend the meditation camp and yoga camp.
- Interest-free financial support in case of need in the form of festival advance is given to the staff and students.
- Teacher who got Ph.D. degree are felicitated with the hands of management and principal
- Internet facilities are made available to the teaching and non-teaching staff for research related matters.
- To improve the quality of teaching and learning- e-journals, reference books, other subject related books, facilities like e-books, projectors are made available to the teaching staff.
- The Institution supports to attend orientation, refresher, short term courses and other training camps helpful for their promotions and career advancement.
- Faculty members are allowed to conduct academic programs like guest lectures, surveys, tour excursions and visit etc.
- The teaching staff is allowable to convene guest lectures and take part in seminars and other activities.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.

Response: 19.16

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
10	2	0	1	3

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 0.8

6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1	1	1	0	01

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 0

6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Institutional data in prescribed format(Data template)	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

As per the strategy plan of the Parent University / UGC the performance appraisal system is implemented. The performance based appraisal system of the staff is filled independently on the basis of their annual achievements. The forms of appraisal is assessed by the principal. Principal gives constructive feedback to the staff members, and council them for the essential changes necessary for their better performance.

The teaching staff's performance appraisal forms contain:

Category I: Evaluation Related Activities, Teaching, and Learning.

Category: II: Co-curricular, Professional Development and Extension activities.

Category: III: Academic and Research Contributions.

Confidential Reports of Non-Teaching Staff

Office superintendent evaluate the overall presentation of the non-teaching staff inside the campus and this classified report is submitted to the principal for the ultimate valuation.

File Description	Document
Upload any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The economic assets of the institution are managed in a very efficient manner. For the effective use of economic resources, the annual budget is prepared as per necessity of the different departments. Proper accounts are maintained by institute through cash book, voucher file and ledger. Every transaction is supported by the vouchers. The payment of the funds for the needs is monitored by Principal. All the collections are deposited in the bank. All expenses recurring and non-recurring are incurred through checks. The college follows a clear audit practice. Final audit is checked by CA (Rajendra Gatalewar 2016-2019) and (Wishweshwar Yende 2019-2021). The internal verification is done by Principal. It inspects the income from different sources and expenses.

Mechanism for settling objections in the Audit:

As the institute has a financial clearness. It is found all the reports are adequate. Institute takes Precautionary measures to reduce difference. All the documents related to audit are verified by Principal. The remarks and corrections suggested are taken into consideration completely. If found any deviation in

audit report it is rectified and correction has been made in the account as per the rules and regulations.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year-wise during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Institutional data in prescribed format(Data template)	View Document

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

Response:

The organization is eternally associated to SGBAU and following the rules and regulations laid down by the UGC. Government of Maharashtra provides scholarship to students.

The financial sources of the college are:

- SC, ST, EBC, and OBC scholarship are received from Government of Maharashtra.
- Tuition fees, admission fees and other fees are collected by the college from students as per the norms of the University..

Optimum utilization of financial resources:

The systems adopted by the institution for the optimal utilization of resources are as below;

- The institution invites necessities from all departments consequently prepare the budgetary plan.
- Purchase working group works on the details of the budgetary preparation.

- Principal grant the financial plan taking into consideration the economic resources and presents it to the CDC for endorsement.
- The utilization of the permitted budget is monitored by CDC.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

Practice No. 1

STUDENT SUPPORT ACTIVITY

Since the students admitted to the college are from rural area and economically backward class the organization always exert much effort to help students economically, emotionally and academically.

The organization has started various schemes for students given as follows:

Mentor: Mentee Scheme: The College from starting is involved in parent teacher scheme which is now changed to Mentor Mentee scheme. Students are allowed to every parent teacher /mentor for academic personal, social development of the student.

Exhibition : The college has organised Books and Bird Photos Exhibition.

Student development and carrer Guidance cell : The institution has started student development and currier guidance. The cell organizes various programs for skill development of the students

Anti Ragging Committee: Anti Ragging committee is formed in the college who checks single case of ragging in the premises

Gym facility: The organization looks at the physical fitness of the students the institution has collaboration with Gym. Girl students are also counseled for their health.

Schemes by Parent University and other: The organization always motivates students to gain the benefits of various economic schemes. Scholarship schemes like “vidyarthini bus pass Yojana” and GOI Scholarship.

Practice No.2

DOMAIN OF MOTIVATION FOR ACADEMIC ACTIVITIES

- Study tours and field trips are conducted.
- The institution has introduced certificate courses.
- Class seminars, group discussions, poster presentation and guest lectures on curriculum based topics are regularly conducted.
- The institution monitors, the progress of the students through terminal and unit tests and seminars.
- Sports departments and NSS are executing admirable social and expansion activities.
- College has MoU s with well-known organization for support to academics.
- ICT based teaching methods are functional.
- Equipment and Computers are maintained by maintenance committee.
- Good number of students has participated in singing competition, Rangoli, and dance in university level cultural programs.
- The institution has student committee which helps in maintaining discipline.
- The institution has research committee which from time to time proms the staff and the students to accomplish the research activity like registration of Ph.D. and participation of students in avishkar and national science day.
- The institution encourages specialized development of staff and they participate in orientation, short term and refresher courses.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

Institution developed itself both within the field academic and developmental works. The institution ensures the progress by implementing different strategies and perspectives, the institution is trying to accomplish expectations of its stakeholders and objectives itself.

Recommendations of NAAC in first Cycle are fulfilled:**Development of IT facilities:**

- LED and LCD projector are installed in three staff wise class rooms with one in seminar hall so the

staff and students could present power point presentation (ppt) over it.

- Lectures from YouTube shown to students
- Lectures on power point presentation taken by the lecturers.
- Online tests are taken.
- Online assignment given to students.
- Online admission process goes on. .
- Marks of Internal examination are exhibited to students on board moreover as on college website.
- Students presents seminar on Power point using projectors.
- WhatsApp group of Alumni and students are created.
- IQAC organize bird photo exhibition.

Promoting research awareness among stakeholder:

- Number of Ph.D. holders has been increased.
- 16 research papers are published.
- Books are published.

Linkages of institution with other agencies:

- College has 03 MoUs with prominent institutions for association in academics.

Automation of the Library and admission procedure:

- Fully Atomization of office and Partly Atomization of Library is completed and admission procedure has been made online.
- The total number of reference books has been increased.
- 37 computers are available.
- Facility of reprography is available in library.

Infrastructure:

- Construction of canteen.
- Renovation of hall and initiative for green campus (01 rain water harvesting).
- Ramps are made available for differently able students and faculty.

Another incremental improvement in college:

- Faculty members Increased.
- Strength of students increased.
- Female student number increases.
- One big pit has been dug within the College premises, for water recharging. Work on water recharging goes on.
- International e-lecture series on x-ray spectroscopy and allied areas as tribute to Prof. Chintamani Mande is ongoing.
- Subject wise Workshops and Seminar organized.
- N-List Inlibnet facility is offered within the library.

- Involvement of student in sports and cultural program increased.
- Student supports activity increased like Book set, Extra BT card, Scholarship etc.
- Furniture is progressively increased.
- Laboratory instrument is increased.

File Description	Document
Paste link for additional information	View Document

6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

Response: C. 2 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Institutional data in prescribed format(Data template)	View Document
Paste web link of Annual reports of Institution	View Document

Criterion 7 - 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 last five years.

Response:

The college has gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc...

- 1.Safety and security
- 2.Counseling
- 3.Common rooms

1.Safety and security:

- Safety norms are strictly followed by college in all respects.
- Squad system has been introduced in the college. Squad headed by the senior teachers can easily monitors the corridors of all floor of the building, classrooms, playground, canteen, Laboratories and Library.
- CCTV's are installed at the parking area, office, corridors of different floors of the college to ensure the safety and security of students and staff.
- Girl students are highly secured under the existing security system.
- ID cards issues to the students and staff to prevent the entry of outsider into the college premises.
- The campus is covered with the strong wall and fences with two entrance gates.

2. Counseling:

- Women cell of the college organizes all important activities associated with the counseling of the students formal and informal counseling is done in the college.
- Staff members motivate the students to improve their overall personality by participation in various activities organized by the college.
- Staff members inspire the students of downtrodden and weaker section to come to the main stream of the society.
- The college has mentor mentee scheme which recommends majority of the mentors to select a mentee especially from the disadvantages and vulnerable category of the girl students.
- In the scheme, the mentor follows the development of the mentee by providing personal counseling at the different stages.
- The personal problems of the girl students discussed with the committee members are kept confidential.

3. Common rooms:

- A well-furnished common waiting room, rest room is made available for girls.
- Common rooms separately for girls and boys are made available.
- Common rooms for girls have facilities needed for girls.
- Common rooms for differently abled students.
- Additional reading room on the first floor of the building.

File Description	Document
Specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document
Annual gender sensitization action plan	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

- 1.Solar energy
- 2.Biogas plant
- 3.Wheeling to the Grid
- 4.Sensor-based energy conservation
- 5.Use of LED bulbs/ power efficient equipment

Response: D. 1 of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

Response:

Response:

Garbage is clearly the culprit and pollutant, contributing to groundwater and toxic substances that harm the

earth's soil and environment. With this in mind, the indiscriminate use of chemicals in demonstration classes is discouraged and the college is not allowed to use radioactive substances in their laboratories.

1. Solid waste management:

- College implements solid waste management by enforcing the waste segregation rules.
- The campus ensures that cleanliness is ensured by maintain dustbins in the college premises and the classrooms.
- The college has displayed various slogans and thoughts to bring environment consciousness among the staff and students.
- Canteen and campus waste is gathered and disposed of through Municipal.
- Transportation is arranged for solid waste management.

2. Liquid waste management:

- The liquid wastes from laboratories and other source are disposed in the soak pits behind the laboratories.
- Glassware used in the laboratory is washed and rinsed with least quantity of water and placed in the liquid waste containers.
- The waste water from drinking unit is used for watering the plants.
- The chemical waste from drinking units is used for watering the plant.
- Efflux of drinking water as waste can be utilized for plantation in front of science building through fine drainage facilities
- College also conducts discussions with students to make them aware about the liquid waste management techniques.

3. E-waste management:

- Non-working electrical instruments like computers, printers, laptops, CD's, photocopy machines, etc. are kept aside in a special compartment or disposed for recycling.
- Awareness programs are initiated on E-waste management.
- All E-waste is disposed to the Nagarpanchayat.
- E-waste such as computers and its peripherals are upgraded regularly to continue usage and to avoid its wastage.

File Description	Document
Geotagged photographs of the facilities	View Document
Any other relevant information	View Document

7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Response: C. 2 of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

Response: B. 3 of the above

File Description	Document
Geotagged photos / videos of the facilities	View Document

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

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

Response: D.1 of the above

File Description	Document
Any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.

2. Divyangjan friendly washrooms
3. Signage including tactile path, lights, display boards and signposts
4. Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment
5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

Response: D.1 of the above

File Description	Document
Policy documents and information brochures on the support to be provided	View Document
Geotagged photographs / videos of the facilities	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

The college has conducted several programs for providing an inclusive environment. It has taken various initiatives for promoting tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic, and other diversities. Various departments conduct seminars, workshops, and outreach programs. College takes initiatives and efforts by organizing activities, the celebration of days, national festivals, celebration days of eminent personalities and other such activities to provide for an inclusive environment by bringing students and teachers with diverse background on a single platform for creating an inclusive environment.

On the occasion of Dr. A.P.J. Abdul Kalam Birth Anniversary, a book exhibition was organized on behalf of the library at Matoshri Nanibai Gharphalkar Science College. Celebrated a birth anniversary of savitribai phule in the college campus. Organized poster presentation on National Science day.

Program	Objective
Birth Anniversary of Dr. A.P. J. Abdul Kalam	To Acknowledge the efforts of Dr. Kalam towards education and student
Savitribai Phule Jayanti	To encourage girl students and improve the quality of education.
National Science Day	To spread a message about the importance of science used in the daily life the people.
National Library Day	To promote the reading habits among the students.

File Description	Document
Any other relevant information.	View Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

FUNDAMENTAL DUTIES AND RESPONSIBILITIES

- To abide by the Constitution and respect its ideals and institutions, the National Flag and the National Anthem.
- To cherish and follow the noble ideals which inspired our national struggle for freedom.
- To uphold and protect the sovereignty, unity and integrity of India.
- To defend the country and render national service when called upon to do so.
- To promote harmony and the spirit of common brotherhood amongst all the people of India transcending religious, linguistic and regional or sectional diversities; to renounce practices derogatory to the dignity of women.
- To value and preserve the rich heritage of our composite culture.
- To protect and improve the natural environment including forests, lakes, rivers and wild life, and to have compassion for living creatures.
- To develop the scientific temper, humanism and the spirit of inquiry and reform.
- To safeguard public property and to abjure violence.
- To strive towards excellence in all spheres of individual and collective activity so that the nation constantly rises to higher levels of endeavor and achievement.
- Whosoever is a parent or guardian to provide opportunities for education to his child or, as the case may be, ward between the age of six and fourteen years.

File Description	Document
Details of activities that inculcate values; necessary to render students in to responsible citizens	View Document

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

1. The Code of Conduct is displayed on the website
2. There is a committee to monitor adherence to the Code of Conduct
3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

Response: C. 2 of the above

File Description	Document
Code of ethics policy document	View Document
Any other relevant information	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

The following is the list of national and international commemorative days, events and festivals the institute celebrates every year and make the students and faculty to participate.

Sr.No.	Name of the Event	Date
1.	International Youth Day	12 August 2019
2.	Independence Day	15 August 2019
3.	National Sport Day	29 August 2019
4.	Teachers day	5 September 2019
5.	Republic Day	26 January 2020
6.	International Women's Day	08 March 2020
7.	Worlds Environments Day	05 June 2020
8.	International Yoga day	21 June 2020

- **International Youth Day:**

International youth day gives an opportunity to celebrate and mainstream young peoples voices, action and initiatives

- **Independence Day**

Independence Day was celebrated with great enthusiasm and patriotic fervor on 15th August, 2016 in the school ground with the staff, students and parents to mark the 70th year of freedom from the British rule.

- **National Sport Day**

The National Sports Day is celebrated on 29 Anniversary of the legendary sports person of India had ever witnessed. The Day has been dedicated to the great athlete and hockey player Dhyan gold for Indian Olympic thrice, who was also known as The Wizard of hockey

- **Teachers day**

We celebrate Teachers' day every year throughout the country on 5th September. Students express their gratitude and appreciation for their teachers on this day. This day is dedicated to Dr. Sarvepalli Radhakrishnan – second President of India\

- **Republic Day of India:**

On January 26, 1950, the Constitution of India was signed and India was declared a republic. It's a day, which every Indian is proud of.

- **International Women's Day**

The International Women's Day was celebrated at Matoshree Nanibai College. The purpose of celebrating Women's Day is – “To raise awareness about the status and dignity of women among the students.”

- **World's Environmental Day:**

Every year on 5th June, college celebrate environment day, by tree plantation and organizing other activities. Student should understand that, to tackle the problem of pollution and global warming, we have to plant more trees every year.

- **National Yoga Day:**

The International Yoga Day was celebrated on 21st June at MNG Science campus to usher in peace, harmony, happiness and success to every soul in the world. Yoga is a mental, physical and spiritual practice that needs to be carried every day.

Exhibition : The college has organised bird photos exhibition and book exhibition.

File Description	Document
Geotagged photographs of some of the events	View Document
Any other relevant information	View Document
Annual report of the celebrations and commemorative events for the last five years	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Response:

The college promotes the best practices in the college. The institution has internalized the best practices in order to improve the functioning of the academic and administrative systems. The working of the college is run by the active participation of the staff.

Best Practice No. I

1. Title of the Practice: Extension of Chemistry Laboratory for the Benefit of Society.

1. Soil and Water Analysis
2. Effective Utilization of Solar Energy

Soil and Water Analysis

2.Objectives:

1. To make the farmers aware of their soil health.
2. To counsel the farmers to reduce production cost and increase crop yield.
3. To make awareness among villages and farmers about quality of drinking water and irrigation.
4. To make the people aware about the kind of adulteration of the food products they use.
5. To suggest simple method for detection of adulteration in food items.
6. To make people aware of their consumer rights.

3.The Context:

The soil is an essential part of agriculture. However, the farmers are neglecting this important aspects thereby their cost of production increases and there is considerable decrease of crop yield. Either the soil is

overdosed with the fertilizer or there is a deficiency of fertilizer thereby reducing the productivity of the soil considerably followed by a great decrease in the crop yield. If the soil analysis is carried out it is possible for the farmers to know the nature of their soil deficiency of the nutrients in the soil so that they can improve the soil accordingly.

There is a complete awareness about the quality of water. The people are using for drinking water as well as water for irrigation. This leads to serve health problems hence it is essential to analyze the quality of water so that many waterborne diseases can be avoided.

It is absorbed that many of our food items are adulterated leading to number of diseases. If people are made aware about the adulteration in foods the diseases could be avoided

4.The Practice:

The collection of the soil sample is the first step of soil analysis. The college has prepared pamphlets about how to collect soil sample from the field. These pamphlets are distributed among the farmers on the weekly bazaar day. The farmers accordingly collect the soil sample from their fields and bring them to our chemistry lab for soil analysis.

The soil sample thus received is analyzed by the college staff and students using soil testing kits and standard given method of analysis. The soil test reports are prepared and farmers are asked to come on the nearest possible date on which they are counseled on the cropping pattern, the type and dose of fertilizer on the basis of their soil test report.

The students are made aware about the importance of the soil and water analysis and bring about the collection of soil and water samples from the respective villages and bring them for analysis in the college. The students are involved in the soil and water analysis.

A demonstration is given to the students about the adulteration in food items. A demonstration is also given before the people about the food adulteration so that their awareness about the same should be improved.

5.Evidences of Success:

Feedback from the farmers about the soil test reports is very encouraging to us. The farmers mentioned that their expenditure on fertilizers has been reducing considerably and the crop yield has also increased. Many farmers have mentioned that water analysis has helped them to reduce the irrigation problem. The Villages came to know about the quality of water they are using thereby they take proper care for using the same. The people expressed that they never knew about the adulteration in food items.

6.Problems Encountered:

- The farmers are very much reluctant upon soil testing.
- The farmers do not want to change their traditional method of agriculture.
- They completely neglect the quality of water for drinking as well as for irrigation.
- The eating habits of the people are responsible for neglecting the food adulteration issues.

7.Resources Required :

- Herculean efforts are needed to make people aware about soil, water and food.
- We need the atomic Absorption spectrometer for micronutrients analysis
- Incubators are needed for the microbial analysis of water and soil.

Best Practice No. II

2. Effective Utilization of Solar Energy

- **OBJECTIVE: Solar Energy**

Solar energy makes use of the sun's energy. It is advantageous because the systems can fit into existing buildings and it does not affect land use. Effective use of solar energy is via heating and electricity generation. Our objective is to popularize the solar cooker by making it from the scrap.

- **CONTEXT: Solar Cooker**

A solar cooker is a device which uses the energy of direct sunlight to heat, cook or pasteurize food or drink. Many solar cookers currently in use are relatively inexpensive, low-tech devices, although some are as powerful or as expensive as traditional stoves, and advanced, large-scale solar cookers can cook for hundreds of people, because they use no fuel and cost nothing to operate, many nonprofit organizations are promoting their use world-wide in order to help reduce fuel costs and air pollution, and to slow down the deforestation and desertification caused by gathering firewood for cooking.

- **PRINCIPLE**

1. Concentrating sunlight: A mirrored surface with high specular reflectivity is used to concentrate light from the sun onto a small cooking area.
2. Converting light energy to heat energy: Solar cookers concentrate sunlight onto a receiver such as a cooking pan. The interaction between the light energy and the receiver material converts light to heat.

- **THE PRACTICE:**

After briefing the students about the use and importance of solar energy, they are given a practice of making a Solar Cooker from the scrap, such as, packaging materials, cardboard, etc. The students enjoyed cutting and pasting for making the solar cooker. After the cooker making is complete, they are demonstrated how to cook food.

- **EVIDENCE OF SUCCESS:**

The students and teachers get interested to use the solar cooker regularly at home. They have built the confidence of making the solar cooker themselves.

- **PROBLEMS ENCOUNTERED:**

The problems encountered are many. Firstly, the reluctance of the institutions to promote the idea of Solar Cooker making. Secondly, the skill to properly finish the cooker for better efficiency.

- **RESOURCES REQUIRED:**

Raw materials to make more models of the solar cookers. More efforts are needed to promote this idea among schools. Literature in Marathi is needed to be prepared.

- **OPERATIONS:**

1. Food is prepared as if for an oven or stove top. However, because food cooks faster when it is in smaller pieces, food placed inside a solar cooker is usually cut into smaller pieces than it might otherwise be. For example, potatoes are usually cut into bite-sized pieces rather than roasted whole.
2. The container of food is placed inside the solar cooker, which may be elevated on a brick, rock, metal trivet, or other heat sink, and the solar cooker is placed in direct sunlight. General figures can be given for cooking time.
3. It is difficult to burn food in a solar cooker. Food that has been cooked even an hour longer than necessary is usually indistinguishable from minimally cooked food.

- **ADVANTAGES:**

1. High-performance parabolic solar cookers can attain temperatures above 290 °C. They can be used to grill meats, stir-fry vegetables, make soup, bake bread, and boil water in minutes.
2. Conventional solar box cookers attain temperatures up to 165 °C. They can sterilize water or prepare most foods that can be made in a conventional oven or stove, including bread, vegetables and meat over a period of hours.
3. Solar cookers use no fuel. This saves cost as well as reducing environmental damage caused by fuel use. Since 2.5 billion people cook on open fires using biomass fuels, solar cookers could have large economic and environmental benefits by reducing deforestation.
4. When solar cookers are used outside, they do not contribute inside heat, potentially saving fuel costs for cooling as well. Any type of cooking may evaporate grease, oil, and other material into the air, hence there may be less cleanup.

- **DISADVANTAGES:**

1. Solar cookers are less useful in cloudy weather and near the poles, so an alternative cooking source is still required in these conditions.
2. Some solar cookers, especially solar ovens, take longer to cook food than a conventional stove or oven. Using solar cookers may require food preparation start hours before the meal. However, it requires less hands
3. Cooks may need to learn special cooking techniques to fry common foods, such as fried eggs or flatbreads like chapatis and tortillas.

File Description	Document
Any other relevant information	View Document
Best practices in the Institutional web site	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Upliftment of academic status and personality development of rural students:

College belongs to rural area and most of the students are not aware of the importance of higher education. Now the active participation with good number of Muslim female students imparts fine efforts of college. Even in the past years the presentation and active participation of the students were very low but now college playing keyrole for the society in terms of education and their mental and physical wellness. College is playing a motivational and supportive role in improving the quality of education among students. Most of the students belong to the rural area, economically weaker section, educationally suppressed and socially backward classes College is bound of or the overall developments of the rural students in terms of various skills in academics, competitive examinations, personality development, and sports. Through multidirectional endeavors college is regularly developing the rural students specially girls potentially.

College provides moral values along with social values in students by arranging various different training programs for self-employments. College is regularly distributing the books to meritorious five students of each faculty on every Independence Day. Interested students for various competitive examinations are provided extra BT cards from library by college and guidance imparts the extensive care to rural students. Economically weaker girl's students are not able to afford the transportation expenses so college provides bicycles as charity to students. It's also develops the physical and emotional strength along with sports skills in girls students. The institution started Gym facility for physical fitness. College regularly aware the students for government scholarship schemes to update the knowledge and curiosity in students' in recent trends. Regular career guidance and personality development are given by principal and staff.

For various competitive examinations college is facilitating the quality of workshops and motivational lectures through various body of the institution. Subjective guidance is given by the concerned teacher regularly by which students belong to rural areas enhancing the updating their knowledge regarding their subject with career point of view etc.

College run a programme "to aware the society about the involvement of girls in higher education. By this percentage of girls in the college increases. College imparts a very fine set up with strong message in

communities for education of girls and research aptitudes along with positive attitude.

File Description	Document
Appropriate web in the Institutional website	View Document

NAAC

5. CONCLUSION

Additional Information :

Matoshri Nanibai Gharphalkar Science College is growing since its inception. The college gained reputation in the society as an institution doing something for the society apart from regular teaching-learning with quality and innovations. The college is striving hard to identify local problems and to find their solutions through research and innovations.

The college is looking forward to fulfill another point from the vision: to start the PG courses in various subjects.

Concluding Remarks :

The college has prepared itself for the NAAC assessment and accreditation as per the guidelines of the NAAC. Infrastructure, teaching-learning process, extension activities, students support and progression, governance, and best practices, skill and personality development of the students and teachers, are all the fields in which the college has put in sincere efforts to do the best. We are pleased to submit the SSR to the NAAC and look forward to receiving the better grade.