



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution	SHRI SHIVAJI SCIENCE COLLEGE
Name of the head of the Institution	Dr. V.G. Thakare
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	07212660855
Mobile no.	9422858934
Registered Email	iqacshivajiscamt@gmail.com
Alternate Email	vijaygthakare@gmail.com
Address	Morshi Road Shivaji Nagar,
City/Town	Amravati
State/UT	Maharashtra
Pincode	444603

2. Institutional Status

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	state
Name of the IQAC co-ordinator/Director	Dr. H. S. Lunge
Phone no/Alternate Phone no.	07212660855
Mobile no.	9422915042
Registered Email	iqacshivajiscamt@gmail.com
Alternate Email	hariharlunge@rediffmail.com

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.shivajiscamt.org/pages/aqar.php
4. Whether Academic Calendar prepared during the year	Yes
if yes, whether it is uploaded in the institutional website: Weblink :	https://www.shivajiscamt.org/pages/academic_calender.php

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
2	A	3.10	2008	04-Feb-2008	03-Feb-2013
3	A	3.13	2015	15-Nov-2015	14-Nov-2020

6. Date of Establishment of IQAC	01-Dec-2003
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
One- Day Workshop On	26-Mar-2019	46

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Shivaji Science College, Amravati	CPE	UGC	2015 1825	15000000
Shivaji Science College, AmravatiDST	FIST	DST	2018 1825	8000000
Shivaji Science College, Amravati	Inspire	DST	2018 05	800000
Shivaji Science College, Amravati	Foldscope	DBT	2018 10	800000
Shivaji Science College, Amravati	STEM	IISER	2018 03	400000

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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

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10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

1 One Day Workshop on NAAC : New Methodology of Assessment 2 Publication of Biannual IQAC Newsletter 3 AQAR preparation and submission 4 Academic Audit of the departments / units / cells 5 Degree Distribution Ceremony

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Plan of Action	Outcome
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14. Whether AQAR was placed before statutory body ?

[Yes](#)

Name of Statutory Body	Meeting Date
College Development Committee (CDC)	15-Jan-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

[No](#)

16. Whether institutional data submitted to AISHE:

[Yes](#)

Year of Submission

[2019](#)

Date of Submission

[28-Feb-2019](#)

17. Does the Institution have Management Information System ?

[Yes](#)

If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)

[To, MasterSoft ERP Software Pvt.Ltd. Nagpur - 9 \(MS\) Subject : Supply of Cloud based ERP CCMSCentralized Campus Management System Dear Sir, As per your offer dated 19.03.2018 subsequent discussion in meeting held on 26.03.2018 , it is decided to accept your offer of Cloud based ERP solution with all terms conditions. Kindly create cloud setup with following details for our college. SN PARTICULARS MODULES 1 On line Student Registration the month of November at the student strength on 01st October \) 2 Student Admission Fees 3 Student Administration 4 Student Attendance with Mobile Apps 5 Examination Result 6 Library Management System 7 MOPAC \(Mobile base OPAC\) 8 Financial Accounting 9 Cheque Printing 10 Payroll Leave 11 Stores Management](#)

System 12 SMSShort Message Service (25000) per year 13 SMS/Email Integration with all software 14 Dashboard, Alumni, Mobie Apps for student staff Deleverables : • Creation of Cloud Setup for the Institute • On boarding of Students All users and creation of users • User Training fully support Service Support : Intial three days on site. Subsequently online.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The curriculum is designed and revised by the Sant Gadge Baba Amravati University; Amravati. For effective curriculum delivery the College has developed a mechanism. At the end of session HOD conducts the Departmental meeting in which paper wise unit distribution was carried out. Academic calendar for the next year was prepared by each department and submitted to IQAC. IQAC prepares college academic calendar in accordance with university academic calendar. At the beginning of the session, the principal conducts the meeting of HOD in which the time table is circulated to all departments of all subjects which is prepared by college time table committee. Departmental meetings are held in every department in which time table is circulated, workload distribution among staff is prepared. Teachers prepare their teaching plan according to the topics assigned to them. Academic diary is provided to Teachers in which they prepare micro teaching plan for their allotted units. Each faculty member strictly follows the time table of curriculum given by the college and also maintains the record of lectures engaged and the topics taught every day. For the effective teaching delivery of curriculum, various teaching methods are applied based on the requirement of the subject or topic. Pedagogy is adapted to cater the demands of the fresher's and facilitate faster technology development. Both the conventional and the advanced teaching-learning aids are used in delivering the lesson, such as Chalk and Black board method, ICT-enabled teaching-learning method, Paper Presentation and Seminar by the students, Group Discussion, Project work, Distribution of notes by the teachers, etc. College arranges the industrial visits, computer awareness programmes, workshops, guest lecturers and study tours to ensure the effective implementation of the curriculum. The college has a well-equipped central library with open access to INFLIBNET, books, international journals and other-resources. All departments have their Departmental library for the benefit of the students. The effectiveness of curriculum delivery is assessed through class tests, college common test, and internal assignments. Our college, university results help to chart the academic progress of our Students and also the effectiveness of academic delivery. Departments maintain the detailed record of the classes and assessments. College administration also keeps a vigilant eye on the results, departmental proceedings and improvements in different methods of effective curriculum delivery. Along with academic achievement, Overall personality development of the student is achieved by conducting Sports, Cultural events, Communication skills, Stress management, & Meditation classes. Lectures are arranged on ethics and behavioural sciences for undergraduate and postgraduate students.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Yoga and Meditation	NA	03/09/2018	15	Employability and entrepreneurship	Skill development
Vocabulary Building	NA	04/02/2019	24	Employability and entrepreneurship	Skill development
Behavioural Training Skill Development Prog.	NA	21/07/2018	08	Employability and entrepreneurship	Skill development
QGIS its application in watershed development	NA	29/01/2019	05	Employability and entrepreneurship	Skill development

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BVoc	Forensic Science	13/08/2018
BVoc	Data Analytics	13/08/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
MSc	Botany,	11/06/2018
MSc	Bioinformatics	11/06/2018
MSc	Chemistry	11/06/2018
MSc	Computer Science	11/06/2018
MSc	Environmental Science	11/06/2018
MSc	Physics	11/06/2018
MSc	Zoology	11/06/2018

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	181	13

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Personality Development,	24/08/2018	54
Communication skill	03/09/2018	30

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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
MSc	Botany	24
MSc	Environmental Science	32
MSc	Zoology	55
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	
Alumni	Yes
Parents	

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

Feedback Obtained

The development of any institution heavily depends upon a wellfunctioning feedback system. The college has a regular practice of collecting students' feedback, analysing it and action taken wherever necessary. Feedback is received on varied aspects of the college including location, office, canteen, laboratory, library, administration and academics. But it was an offline mechanism of collecting feedback on printed feedback form. In this academic session, the college has collected online feedback from the stake holders. The online questionnaire was made available on college website and students were asked to log in and submit their responses to the questionnaire. The online questionnaires were prepared for three stakeholders Students, faculty and alumni. A] Questionnaire for students' feedback: It consisted of three sections, namely 1. Teaching, Learning and Evaluation (TLE) Process: In this section feedback was collected from all regular students of B.Sc. , B.C.A. and PG programs. 2. Services/facilities provided to students: In this section feedback was collected from all regular students of B.Sc. , B.C.A. and PG programs 3. Curriculum: In this section feedback was collected only from final year students of B.Sc., B.C.A. and PG programs. B] Questionnaire for College Faculty and Alumni on curriculum FEEDBACK ANALYSIS: A total of 393 responses were collected though online feedback portal. Amongst these respondents 76.6 were girls and 23.4 were boys. Out of 393 91 responses were from UG students and 9 responses were from PG students. • After analysing the feedback on department wise TLE process, the report along with remarks and recommendations were given to respective departments to improvise the TLE process. • Also, analysing the feedback on facilities and services, the areas where improvements demanded were identified. And accordingly, on priority basis action was initiated. • Similarly, feedback on curriculum received from stake holders such as exit students of UG and PG programs, faculty of all teaching departments and alumni was analysed subject wise and forwarded to respective authorities of the university.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BSc	Subjects: Botany, Biotechnology, Chemistry, Computer Science, Computer Application, Environment Science, Geology, Mathaematics, Microbiology, Physics, Statistics and Zoologyh	1260	4650	1382
BCA	Adavance Programming	360	410	311
MSc	Botany	40	219	48
MSc	Bioinformatics	40	65	42
MSc	Chemistry	40	204	46
MSc	Computer Science	50	100	55
MSc	Environment Science	40	50	46
MSc	Physics	30	205	40
MSc	Zoology	30	157	38
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1693	315	43	32	75

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
75	57	18	14	4	4
View File of ICT Tools and resources					
View File of E-resources and techniques used					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Guardian Teacher (GT) Scheme has been implemented in this college since 2000/2001, with following aims. 1. To establish good sense of rapport with students so that there developed healthy Teacher Student relationship. 2. The teacher should act as a mentor, guide and philosopher. 3. The teachers should interact constantly and keep themselves in contact with the students always so that problem of students regarding educational, socio economical, health related and family related could be sort out and most possible help can be rendered to the students. The main feature of this scheme is that the guardian teachers allotted to first year students remain continue for next two years for the same students. This helps the teacher to establish healthy and friendly relations with the students. • This year mentoring responsibility of 1693 UG students was given to 61 teachers. So, there is one mentor for a group of about 2530 students. The 315 PG Students were distributed to the coordinator/head of respective departments. • In the beginning of the academic session GTs collect detail information of each student. • Apart from informal meetings, at least four formal meetings between GTs and students are expected in an academic year. • Main business in meeting carried out is the discussion on academic, social, health awareness, importance of physical fitness, importance of yoga, students problems regarding study, study material availability, college facility, campus discipline, syllabus, status, result analysis, departmental facilities etc.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2008	75	1 : 25

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
59	43	16	0	30

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
No Data Entered/Not Applicable !!!			
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BSc	UGB.Sc.	Semesters I, III and V	03/11/2018	30/01/2019
BSc	UG B.Sc.	Semesters II, IV and VI	27/04/2019	29/06/2019
MSc	PG M.Sc.	Semesters I and III	03/11/2018	30/01/2019
MSc	PG M.Sc.	Semesters II and IV	27/04/2019	29/06/2019
BCA	UG B.C.A.	Semester I, III and V	03/11/2018	30/01/2019

BCA	UG B.C.A.	Semester II, IV and VI	27/04/2019	29/06/2019
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

• As per the norms laid down by the parent university the college has developed a well organised CIE system. The internal examination committee of the college monitors the entire CIE process. • As per the examination scheme of Parent University 20 marks are allotted for internal assessment. • Internal assessment of the student's performance was done on the basis of home assignments, class test, attendance, project assignments, Seminar, Study tour, Industrial visit, Visit to educational institutions and research organization, field work, group discussion or any other innovative practice/ activity undertaken by the student. • The concerned teachers of the departments shall have to keep the records of the activities mentioned above. • Apart from this the 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. For example the teachers were asked to conduct MCQ type test, Group discussion, quiz, test examination on short and long answer type questions on every unit of curriculum they taught. • From this academic year (201819) most of the departments have started online internal evaluation on the basis of online assignments, online MCQ and short answer type tests. • The LMS tools/platform used for online evaluation and econtent delivery are 'Google Class Room' and a open source software 'Chalk Planboard'. • For transparent and effective implementation of CIE the IQAC, through College Internal Examination Committee, monitors the CIE mechanism throughout the year.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

• It is one of the best practices of our college that every department prepares their own academic calendar showing the teaching, learning and evaluation activities planned for the academic session. • In this academic session also, the departments prepared their academic calendar well before the commencement of this academic session (that is at the end of previous academic session). The academic calendar of the department included activities and date/duration of the activities. The activities planned by the departments were seminars, quiz, group discussion, workshop/conferences, guest lectures, unit test, MCQ tests, study tour, field visits, and onsite trainings, add on courses etc. Departments were asked to submit the academic calendar to IQAC. • IQAC then prepared the academic calendar for college as a whole with the inclusions of IQAC's plan of action. • The academic calendar was then made available on college website and in college prospectus. Departmental academic calendar was displayed on department notice board. • IQAC conducts internal Academic and Administrative Audit (AAA) twice in a year. At the time of academic audit of the department, the department has to present the action taken report on the activities planned in the academic calendar. • The College Internal Examination Committee conducts internal assessment test of all UG students at the end of each semester. Internal assessment mechanism strictly follows the schedule as mentioned in the academic calendar.

2.6 – Student Performance and Learning Outcomes

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

<https://www.shivajiscamt.org/pdf/PoPsoCo.pdf>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG-BSC	BSc	Semester Pattern	463	375	80.99
UG-BCA	BCA	Semester Pattern	90	72	80
PG-MSC/BOT	MSc	CBCS Semester Pattern	24	12	50
PG-MSC/Bio-inf	MSc	CBCS Semester Pattern	20	10	50
PG-MSC/CHE	MSc	CBCS Semester Pattern	22	17	77.27
PG-MSC/COMSOFT	MSc	CBCS Semester Pattern	26	23	88.46
PG-MSC/EVS	MSc	CBCS Semester Pattern	22	20	90.91
PG-MSC/PHY	MSc	CBCS Semester Pattern	21	14	66.67
PG-MSC/ZOO	MSc	CBCS Semester Pattern	19	6	31.58

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2.7 – Student Satisfaction Survey

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

https://www.shivajiscamt.org/pdf/sss18_19.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	578	Dept of Biotechnology, Govt. of India	8	6
Major Projects	1095	UGC	8.8	8.8
Minor Projects	730	UGC	3.9	2.7

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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Teacher Coordinator workshop	Avishkar Cell	08/09/2018

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Avishkar 2018	Mr.Mukund Fiske	Association of Indian Universities, New Delhi	14/03/2019	All India National Research Convention Avishkar 2018
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
00	00	00

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Biotechnology	1
Botany and Bioinformatics	1
Chemistry	9
Physics	1
Statistics	1
Microbiology	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Chemistry	14	2.16
International	Botany	6	4.7
International	Languages	3	5.6
International	Microbiology	1	5.87
International	Physics	3	03
International	Zoology	5	03
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Biotechnology	1
Botany and Bioinformatics	2
Env. Science	3
Zoology	1
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Studies on Fungal Diseases of Betel Vine (Piper betle L.) from Anjangaon Surji Region(M.S.)	G.B. Hedawoo and Rupesh N. Makode	Research Journey	2019	0	Shri Shivaji Science College, Amravati	0
WeedsDB : The Indian Weeds Database.	Shyam Ingle, Hedawoo G.B. and Nagmote S.R.	Research Journey	2019	0	Shri Shivaji Science College, Amravati	0
Diversity of Fungal Endophytes Isolated from Adathodavasic from Melghat Forest.	Suradkar KP, Hande DV	Aayushi International Interdisciplinary Research	2018	4	Shri Shivaji Science College, Amravati	0
Two rare hyphomycetes fungi from Maharashtra, India.	Ninad Dharkar and Dilip Hande	International Research Journal of Biological sciences	2019	0	Shri Shivaji Science College, Amravati	0
Medicinal flora of Melghat for Asthama:	D.D. Khedkar N.M. Atre	Jour of Pharmacology Phytochem.	2019	0	Shri Shivaji Science College, Amravati	0

Review							
Arbuscular Mycorrhizal and endophytic (DSE) association in the dominant grasses of Melghat forest (Phase I), India	P.W. Deotare, S .P.Khodke, R.C. Maggirwar and S.K. Kharwade	Plantae Scientia	2019	0	Shri Shivaji Science College, Amravati	0	
Cr3 sensitized near infrared emission in Al2O3: Cr, Nd/Yb phosphors	V. B. Bhatkar	Journal of Alloys and Compounds	2019	0	Shri Shivaji Science College, Amravati	0	
SrB4O7:Sm2 phosphor for solar photovoltaics	V. B. Bhatkar	AIP Conference Proceedings	2019	0	Shri Shivaji Science College, Amravati	0	
Broad Band excited NIR emission in Li2CeO3: Nd/Yb phosphor for modification of solar spectrum	V. B. Bhatkar	Journal of Alloys and Compounds	2019	0	Shri Shivaji Science College, Amravati	0	
Near-infrared emitting Ca5(PO4)3Cl:Eu2,Nd3 phosphor for modification of the solar spectrum	V. B. Bhatkar	Luminescence	2018	0	Shri Shivaji Science College, Amravati	0	
Probiotic Attribution of lactobacillus species against MDR E.	C. S. Ukesh N. K. Agrawal	Int .J. Of impaired JETIR	2018	0	Shri Shivaji Science College, Amravati	0	

coli						
Review on wastewater treatment and reuse International E research journal on, ISSN:: 23487143, Pg. 348351	J D Dhote	International E research journal	2019	0	Shri Shivaji Science College, Amravati	0
Birds associated with red silkcotton plant (Bombax ceiba Linn), Amravati district, Maharashtra	G A Wagh	International J of basic and applied research	2019	0	Shri Shivaji Science College, Amravati	0
Study of avifauna associated with Palash (Butea monosperma) in Pohara Malkhed reserve forest Amravati district, Maharashtra	G A Wagh	International J of basic and applied research	2018	0	Shri Shivaji Science College, Amravati	0
Seasonal histological variations in female rat	G S Tekade	International E research journal	2019	0	Shri Shivaji Science College, Amravati	0
A Report of Terek Sandpiper (Xenus cinereus) from Amravati District, Maharashtra	G A Wagh	Newsletter for Birdwatchers	2019	0	Shri Shivaji Science College, Amravati	0
GREEN SYNTHESIS	N. H. Bansod1, G	INTERNATIONAL	2019	1089	Shri Shivaji	0

OF COBALT (5, 10 AND 15) DOPED ZNO NANOCOMPOSITES BY USING FLOWER EXTRACT	.N.Chaudhari, A. B. Bodade, A. R. Nitawane	JOURNAL OF CURRENT ENGINEERING AND SCIENTIFIC RESEARCH (IJCESR)			Science College, Amravati	
STRUCTURAL AND ELECTRICAL PROPERTIES OF Sr SUBSTITUTED PEROVSKITES NANO CRYSTALLINE LaCrO ₃	Ghodsali, S.M., Bodade, A.B. and Chaudhari, G.N.	Asian Journal of Science and Technology	2019	0	Shri Shivaji Science College, Amravati	0
PEG Assisted Hydrothermal Fabrication of Undoped and Cr Doped NiCo ₂ O ₄ Nanorods and Their Electrochemical Performance for Supercapacitor Application	Santosh J. Uke, Vijay P. Akhare, Satish P. Meshram, Maridkar, Anjali B. Bodade, and Gajanan N. Chaudhari	Materials Focus	2018	0	Shri Shivaji Science College, Amravati	0
Preparation and Characterization of Nanocrystalline Magnesium Oxide Using Datura Stramonium Leaves and Its Antibacterial Activity	A. B. Bodade, A. S. Wankhade, P. D. Kale, G.N. Chaudhari	International Journal of Innovative Studies in Sciences and Engineering Technology (IJISSET)	2019	0	Shri Shivaji Science College, Amravati	0
NOVEL NANO STRUCTURE ELECTROLYTIC MATERIALS Ba _{1-x} Sr _x Ce _{0.4} Zr _{0.6} O ₃	M. M. Fukatel, A. B. Bodade, G. N. Chaudhari, Shri	INTERNATIONAL JOURNAL OF CURRENT ENGINEERING AND SCIENTIFIC	2019	0	Shri Shivaji Science College, Amravati	0

? FOR FUEL CELL APPLI CATION.		RESEARCH (IJCESR)				
Triethanol Amine Ethoxylate (TEAEO) Driven Controlled Synthesis of NiCo2O4 Nanostruct ures, Their Char acterizati on and Sup ercapacito r Performa nce	Santosh J. Uke, Vijay P. Akhare, Satish P. Meshram, and Gajanan N. Chaudhari	Advanced Science, E ngineering and Medicine	2018	0	Shri Shivaji Science College, Amravati	0
Spectropho tometric study of stability constant of substit uted benzo thiozoline and benzim idazoline derivative s with rare metal ions	A. W. Wakode, A.S. Burghate, S.A. Wadhal	JETIR	2019	0	Shri Shivaji Science College, Amravati	0
Complexome tric study of complexes or Ni(II), Cu(II) and Co(II) with benzo thiozoline substitute d hydrazone schiffs bases in 70 acetone water mixture	R. T. Kale, A.S. Burghate, S.A. Wadhal	JETIR	2019	0	Shri Shivaji Science College, Amravati	0
SYNTHESIS, SPECTRAL C HARACTERIZ ATION AND BIOLOGICAL ACTIVITY	V. A. Sadafale, A.P. Thakare P. R.Mandlik,	Internatio nal Journal of Current En gineering and	2019	0	Shri Shivaji Science College, Amravati	0

OF SCHIFF BASE METAL COMPLEXES DERIVED FROM DAPSONE AND SALICY LALDEHYDE		Scientific Research(I JCESR)				
SYNTHESIS, SPECTROSCO PIC AND THERMAL STUDIES OF CO(II), NI(II), CU(II), CR(III), MN(III), FE(III), VO(IV) AND ZR(IV) COMPLEXES WITH OVANILINE SALICYLOYL HYDRAZONE AND THEIR ANTIMICROB IAL ACTIVITY	S.D. Deshmukh, V.A. Sadafale, P.R. Mandlik	Internatio nal Journal of Current En gineering and Scientific Research(I JCESR)	2019	0	Shri Shivaji Science College, Amravati	0
SYNTHESIS PHYSICOCHE MICAL AND THERMAL STUDIES OF (E)N(1PHEN YLETHYLINE)BENZOHYDR AZIDE AND ITS METAL COMPLEXES	A.O.Bobde, S.K.Rithe and P.R. Mandlik	Internatio nal EResearch Journal	2019	0	Shri Shivaji Science College, Amravati	0
GREEN SYNTHESIS OF COBALT (5, 10 AND 15) DOPED ZNO NANOCO MPOSITES BY USING FLOWER EXTRACT OF HIBISCUS ROSA SINENSIS AND THEIR BIOSENSOR ACTIVITY.	N. H. Bansodl, G .N.Chaudha ri, A. B. Bodade, A. R. Nitawane	INTERNATIO NAL JOURNAL OF CURRENT EN GINEERING AND SCIENTIFIC RESEARCH (IJCESR)	2019	0	Shri Shivaji Science College, Amravati	0

"One Pot Synthesis of 1,2,4,5 Tetrazinones and their characterization".	P. R. Padole, S.S. Ubarhande, P. P. Chaudhari, C.S. Bhaskar and B. N. Berad	Research Directives Special Issue February 2019	2019	0	Shri Shivaji Science College, Amravati	0
Synthesis, Characterization of azopyrazoles and azoisoazole derivatives from substituted aniline	N.R.Thakare A.P.Thakare	JETIR	2018	0	Shri Shivaji Science College, Amravati	0
`` Arun Joshi's `The Last Labyrinth` : A Record of a Modern Man's Traumas and Agonies``	P.V. Barabde	IJELLH	2018	0	Shri Shivaji Science College, Amravati	0
Significance of English Grammar for ESL Learners	P.V. Barabde	IJELLH	2018	0	Shri Shivaji Science College, Amravati	0
A Strategic Approach to Teaching and learning grammar	P.V. Barabde	IJELLH	2019	0	Shri Shivaji Science College, Amravati	0
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
GREEN SYNTHESIS OF COBALT	N. H. Bansod1, G .N.Chaudha	INTERNATIONAL JOURNAL OF	2019	1089	0	Shri Shivaji Science

(5, 10 AND 15) DOPED ZNO NANOCOMPOSITES BY USING FLOWER EXTRACT	ri, A. B. Bodade, A. R. Nitawane	CURRENT ENGINEERING AND SCIENTIFIC RESEARCH (IJCESR)				College, Amravati
Green Environment For Sustaining Life With The Changing Scenario A Review	Ingole S.P. and Kakde A. U.	Global Journal Of Engineering Science And Researches	2018	4	54	Shri Shivaji Science College, Amravati
Probiotic Attribution of lactobacillus species against MDR E. coli	C. S. Ukesh and N. K. Agrawal	Int .J. Of impaired JETIR	2018	5	39	Shri Shivaji Science College, Amravati
View File						

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	2	37	6	6
Presented papers	5	26	0	1
Resource persons	0	8	0	7
View File				

3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Paper bag making workshop under Ecofriends	Indian Women Scientists Association (Amravati Chapter)	1	85
International Ozone Celebration Day for the Preservation of the Layer	Sai Baba Vidyalaya, Kasturba Kanya Vidyalaya and Shri. Shivaji Multipurpose High school	10	133
Celebration of	Guest lecturer in	2	46

World Water Week	collaboration with Dept. of Geology on Water conservation		
Participation in Cycle rally in collaboration with Mission Olympics	Shri Shivaji Sci. College, and Mission Olympics, Amravati	2	54
Oneday workshop on basic in Q GIS and handson practice	GIS Geotech Institute, Aurangabad	2	56
Guest Lecture	Department of Statistics	4	90
World Sparrow Day	Wild Life and Environment Conservation Society, Amravati	1	15
View File			

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
00	00	00	0
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Participation in Maticha Ganapati Basawa Mohim:	Organised By Mungsaji Mauli Sansthan	"Maticha Ganapati Baswa Awareness Campaign,	8	40
World Biodiversity Day	District Biodiversity Committee Amravati	World Biodiversity Day 22 May 2019	1	10
View File				

3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Assam Students Exchange	34	DBT	15
Jammu Kashmir Students Exchange	01	DBT	35
View File			

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Project Work	PG Research Projects	Array Gene Technology Pvt. Ltd, Pune	01/02/2019	30/03/2019	07
Project Work	PG Research Projects	Govt Pharmacy College, Amravati	01/02/2019	30/03/2019	05
Project Work	PG Research Projects	Deptt. of Botany, Sant Gadge Baba Amravati University	01/02/2019	30/03/2019	03
Project Work	PG Research Projects	Shri Shivaji Agribiotech College, Amravati	01/02/2019	30/03/2019	04
Project Work	PG Research Projects	SRTM Nanded University, Nanded	01/02/2019	30/03/2019	01
View File					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Anandram Dhekial College, Nagaon, Assam.	31/07/2018	Research student Exchange	34
Sri Pratap College, Cluster University, Shrinagar, JK.	07/11/2018	Research student Exchange	1
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
50.82	50.83

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Class rooms	Newly Added

Laboratories	Newly Added
Classrooms with LCD facilities	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
View File	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SOUL, Inflibnet	Fully	2.0	2005

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	24346	3785728	1706	541000	26052	4326728
Reference Books	906	369233	19	171809	925	541042
Journals	769	752170	18	20449	787	772619
Digital Database	1	13570	1	19470	2	33040
Others(spe cify)	7852	1940651	610	454333	8462	2394984
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
D. D. Khedkar	Semester VI	Moodle	11/02/2018
Dr. V. B. Bhatakar	ElectronicsII Special Theory of Relativity Atmospheric and Geophysics	Chalk: Plan board	21/01/2018
Dr. W. S. Barde	Optics Electricity, Magnetism Electrodynamics Atomic and Molecular Physics Solid State Physics	Google Class	02/04/2018
Dr. P. A. Nagpure	Mechanics and Properties of Matter Quantum Mechanics Nuclear Physics Thermodynamics	Chalk: Plan board	17/01/2018
View File			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	171	3	171	2	3	2	14	512	0
Added	32	0	32	0	0	0	0	0	4
Total	203	3	203	2	3	2	14	512	4

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

512 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
P. R. Padole	https://www.slideshare.net/pramodpadole35/stereochemistry-by-dr-p-r-padole
Dr. P. A. Nagpure	Adapter surface-independent touch interactive projection Interactive Board Device Eye Device Eye RIS DC Series (4 No.)

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
95	3	7	14.11

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

4.2.2 Procedures and policies: The college has developed adequate physical infrastructure to run the academic programmes efficiently in an area of 11.85 acres. The college has developed requisite infrastructure during the last years (201819) and spent Rs. 50,82,056/ for construction and renovation of laboratories, office, lecture theatres, vehicle stands and Sir C. V. Raman Auditorium. Many sport facilities are being developed on an area of 5 acres behind the library building. The institution has made provision of DELNET / INFLIBNET facility. The students have an access through OPAC (Online Public Access Catalogue) and Eportal developed for providing User Education and Information Literacy. Internet facility is available at the Network Resource Centre situated in the library. The budget allocation for the maintenance during last five year (20182019) as Maintenance Building Furniture Equipment Computers Any other Amount 1203177/ 88675/ 290624/ 124720/ 350/ Institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college: a) Infrastructure facilities: Engineers of the construction department of the parent society prepare the estimate for the maintenance of college infrastructure whenever needed. Thereafter, by using private services, the work is carried out and the work is supervised by a

society engineer. The college appoints regular and extra private staff for cleaning (classrooms, laboratories, campus and toilets, etc). The college garden is maintained by the gardener appointed by the institute. Maintenance and repair of equipment: Equipments/instruments which are under warranty are repaired by the suppliers / distributors and the nonwarranty equipments/ computers are maintained under AMC through skilled / authorized service engineers/vendors/suppliers and record of maintenance is maintained by lab technicians and supervised by HODs of the concerned departments. The college has adequate number of the computers with internet connections and the utility software's distributed in different locales like office, laboratories, library, departments etc. The central computer laboratory connected in LAN is open for the students as time permits them, the office computers which are also connected through the LAN is consisting of the office software making work easier and systematic are restricted their use only to the appointed office staff. The college website has maintained regularly by AMC with Dotcom web designers Amravati and Nagpur. The AMC purview includes maintenance of Generator, Air Conditioners, CCTV cameras and Water Purifiers. Calibration and other precision measures for the equipment/instruments: Calibration and precision measures of the equipments/ instruments are done at the beginning of the academic session, by skilled engineers/faculty members. Major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.):

- Solar electricity panel is installed in the college.
- UPS systems are attached to computer systems and equipments/instruments for safety purposes.
- For campus electrification maintenance and repairs, college has appointed private technical staff.
- Portable generator is used when cutoff the power supply.
- There are two water sources.
 - o Pure and safe water supply at prominent places.
 - o Well water with constant supply of water is maintained through four overhead tanks.

https://www.shivajiscamt.org/pdf/Proc_Policies.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	SSS College Scheme	0	0
Financial Support from Other Sources			
a) National	GOI EBCSTC PTC	996	86965
b) International	NIL	0	0

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft skill development	21/08/2018	182	Career Counselling Coaching for entry Level competitive Exam cell ,
Language lab,	01/08/2018	250	Department of Languages

Bridge courses	08/07/2018	60	Department of Physics
Yoga, Meditation	21/06/2018	125	Department of physical Education
Personal Counselling and Mentoring	21/08/2018	182	Career Counselling Coaching for entry Level competitive Exam cell

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Career Counselling Coaching for entry Level competitive Exam cell	182	182	0	0

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

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

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
NIL	0	0	Wipro, Tech Mahindra, Syntel, Nacloid Pharma, Sarigam, Gujarat, Bayer Crop Science	244	18

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
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2019	305	UG.B.Sc.	Shri Shivaji Science College, Amravati	Savitribai Phule Pune University. Bharati Vidyapeeth Pune. SGBAU, Amravati. GVISH, Amravati . Vidhyabharti Mahavidyalaya, Amravati. Shri Shivaji Science, College, Amravati.	PG.M.Sc.
2019	40	UG. B.C.A.	Shri Shivaji Science College, Amravati	SGBAU, Amravati., Vidhyabharti Mahavidyalaya, Amravati	PG.M.C.A.
2019	19	PG.M.Sc.	Shri Shivaji Science College, Amravati	SGBAU, Amravati., GVISH, Amravati. Shri Shivaji Science, College, Amravati	Ph.D.
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
NET	4
GATE	1
Civil Services	1
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Sports / Basketball (Women)	University	34
Sports / Hand Ball	University	26
Sports/Ball Badminton	University	67
Sports/Ball Badminton Camp	University	12
Cultural Activities/(Music, Dance, Literary Events, Theatre Fine arts)	University	35
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Third Place in Swimming, All India Inter University, At Bangalore	National	1	0	BSc-II	Varun Choudari
2018	Third Place in Soft Ball in All India Inter University, at Nanded	National	1	0	BSc-II	Brijesh S. Tathod
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Activity of Student Council: ? College has a Student Council whose Secretary also serves as the college representative to the university Student Council. ? Class representatives are nominated one from each class on the basis of academic merit. Two representatives of ladies and one student representative from NCC, NSS, games and cultural activities are nominated. The secretary of student council is elected amongst these members. ? The major activities of the Student Council include the maintenance of general discipline and a conducive atmosphere for study, participation in solving student's problems. ? It organizes different functions in the college including annual social gathering, felicitation programme for meritorious students, celebration of Teachers Day, Science Day, and Youth Day etc. Representation of students on academic administrative bodies/committees of the institution: ? IQAC ? Guardian Teacher scheme ? Feedback Committee ? NSS NCC Committee ? Annual Gathering (AG) (b) Youth Festival (YF) and Cultural activities (CA) ? College Prospectus Magazine Committee ? Girls Common Room Committee ? Press Publicity Committee ? Students Cooperative Store ? Anti Ragging and Students Grievances Committee ? Nature and Science Club. ? Department wise Club and Societies

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Yes, The institution has a registered Alumni Association. Registration no. Maharashtra/700/06 Amravati. Current office bearers: 1. Shri. Milind V. Chimote President 2. Dr. A.J.Kadu Vice President 3. Dr. Anil W. Asole Secretary 4. Shri. A.V.Kohale Joint Secretary 5. Dr. Harihar S. Lunge Treasurer 6. Dr.A.M.Tote Exec. Member 7. Prof.C.M.Deshmukh Exec. Member 8. Adv.Ravi Tayade Exec. Member 9. Shri S.Kalantri Exec. Member 10 Adv. Sushma Bhat Exec. Member 11. Prof.Kanchan Thakare Exec. Member 12. Prof. Pankaj A. Nagpure Exec. Member 13. Prof.V.W.Labade Exec. Member 14. Dr. Vijay G. Thakare (Principal) Ex. officio Member

5.4.2 – No. of enrolled Alumni:

167

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

62000

5.4.4 – Meetings/activities organized by Alumni Association :

Activities during the year. ? 02 Meeting of executive councils ? Alumni meet PGD Physics, PGD Zoology PGD Environmental Science is arranged. ? As per the decision of Alumni Association, financial assistance provided to economically backward students for higher education. Contribution of alumni to the growth and development of the institution. ? The Alumni Association has plans for the growth and development of institution. Its aims and objectives are to help and contribute to the developments of their alma matter. ? Enhance the Student facilities. ? Alumni form civil services guide and motivates the campus students for competitive examinations

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

Decentralized and Participative management • All faculty members have the freedom to involve themselves in the decision making process during the meetings of the College council, the Council of Heads and the IQAC and as members and/or conveners of the various committees. • Active role of the IQAC members in the management of academic events organized in the college. • Students actively participate in various activities as a part of SPQA and the Students' Council. • Under the supervision of the principal the college authority provides complete autonomy to the heads of the department in planning and implementation of the teaching-learning plans, research, extension events and student related academic and extracurricular activities. • Delegation of the power to sanction the casual leave of the staff. • The budget is allotted through the principal as per the need of the respective departments and according to programs. • Autonomy is given to the departments to utilize the allotted budget as per the requirement. • Decentralization of work and/or governance through more than 32 various committees. Council of Heads: The council of heads of all departments is in operation since many years in the institution, which meets at least four times in a year. The decisions about teaching schedule, budget allocation, academic development issues, results, students related activities are taken in consensus with all members. Also the powers of sectioning of casual leaves of the teachers and nonteaching staff are given to the heads of department. IQAC: IQAC has been formed as per the NAAC revised guidelines, which consists of teachers, nonteaching staff, management representative, student, alumni, stakeholder and industrialist. At least four meeting are held every year in which the decision about quality enhancement in academic, infrastructure, administrative issues are planned and monitored through the Academic Audit of the departments.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type

Details

Teaching and Learning	<ul style="list-style-type: none"> • The teaching schedule (Time Table) is prepared at the beginning of the session and is implemented. • Academic diaries, with micro teaching plans are maintained. • ICT and other teaching aids are employed in the teachinglearning process. • Library stores the most recent books, reference volumes, periodicals, journals and eresources. • Well equipped laboratories. • Learners' performance is assessed through continuous evaluation process such as unit tests, assignments, seminars and projects. • Remedial coaching classes are conducted for slow learners. • The Academic Audit is conducted by IQAC and suggestions are implemented. • Organize science popularization programs and other scientific events. • Promote the faculty improvement through refresher courses, orientation programs, and short term courses.
Research and Development	<ul style="list-style-type: none"> • Nine research laboratories recognized by SGB Amravati University. • Efforts to increase the intake capacity of research laboratories and obtain recognition of new laboratories. • Central Instrumentation Cell for advanced research studies. • Establishment of MoUs and Collaborations with various institutes /and/or research organizations to improve the research facilities • Undertake interdisciplinary and society oriented research projects. • PG students are encouraged to involve in research activities through the project works as a part of curriculum.
Industry Interaction / Collaboration	<ul style="list-style-type: none"> • College extends full support and gives a free hand to PG and research departments to establish the collaboration with industry for the exchange of information over research and for providing training to the students during their internship.
Admission of Students	<p>UG admissions for all the programs institute admits students through online application process and then the merit list is prepared. Accordingly the students are admitted as per the government rules. The PG admissions are made through the merit list prepared by the respective departments in accordance with the reservation rules.</p>
Examination and Evaluation	<ul style="list-style-type: none"> • Semester system with Continuous

	<p>Internal Assessment (CIA) is followed.</p> <ul style="list-style-type: none"> • The Principal and the Heads of Department monitor the performance of the students by making an analysis after every internal test and external examination. • The teachers make an analysis of the performance of students after every
Library, ICT and Physical Infrastructure / Instrumentation	<ul style="list-style-type: none"> • The infrastructure development is approved by LMC. • The library Committee, as per the requirement and the yearly budget, the books/ journals/ eresources are procured. • Tenders are called by the purchase Committee for procuring the equipments and ICT related peripherals, as per the budget and requirement.
Human Resource Management	<ul style="list-style-type: none"> • Parent management has established Dr. Punjabrao Deshmukh Human Resource Development and training centre, to train and to create the skilled and highly professional manpower. • The state Govt. rules, regulations and reservation policies are strictly adhere in recruitment of teaching and nonteaching
Curriculum Development	<ul style="list-style-type: none"> • The institution focuses on multi skill development of students in order to ensure employability. • The Choice Based Credit System followed at present in the college facilitates horizontal movement, enabling students to make their choices. • All the Skill Based Elective courses are available to students irrespective of their major subjects. This facility enables students to choose the courses of their

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

E-governace area	Details
Administration	<p>- Administrative MIS modules of the institute helps in keeping service records of all the employees maintaining service books, promotion records, seniority etc. and their total emoluments and the records of their provident fund.</p>
Finance and Accounts	<p>Functions of the finance and accounts are precisely defined and are strictly followed with proper accounting practices making record of each financial transactions using e-governance mechanism. This has helps keeping records of receipt of funds, projects, consultancy income, donations, staff salary and all types</p>

	of purchases and payment of various utility bills and taxes.
Student Admission and Support	Students who desires to take admission for UG and PG program of the institute are required to make online application on institute's MIS system by registering themselves. The data collected through this process is further used for making merit list and admission list of the eligible candidates and for online payment of the necessary fees.
Planning and Development	The MIS helps in distributing students in batches through batch management, the faculty, subject. It allows students to select Choice Based Electives. At postgraduate levels the allotment of research topics, research guides, Research seminars and critical reviews are done using MIS systems. This MIS system has students and Employee Grievance module which helps in overall development of the Institute.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	DR. D.D. Khedkar	XVIII IOSTE SYMPOSIUM FUTURE EDUCATIONAL CHALLENGES FROM SCIENCE TECHNOLOGY PERSPECTIVES	IOSTE	15000
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Amravati district Avishkar Teacher co	00	08/09/2018	08/09/2018	56	0

	ordinator workshop					
2018	00	MIS software Training programme	15/06/2018	15/06/2018	6	12
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Short Term Course	2	08/09/2018	13/09/2018	06
Short Term Course	1	10/12/2018	15/12/2018	06
Refresher Course	1	25/02/2019	18/03/2019	21
Orientation Course	1	24/09/2018	25/10/2018	30
Short Term Course online	3	06/08/2018	04/03/2019	21
Faculty Development Programme	1	08/10/2018	05/11/2018	28
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

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

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
08	08	12

6.4 – Financial Management and Resource Mobilization

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

- Internal Audit: The yearly internal audit is conducted by a Chartered Accountant appointed by the parent management and is approved in the LMC.
- External Audit: Yearly audit is conducted by agencies deputed by the state government such as, the Senior Auditor and the Accountant General of Maharashtra State.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Parent Management (Shri	4973200	Infrastructure Renovation

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6.4.3 – Total corpus fund generated

211470

6.5 – Internal Quality Assurance System

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

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

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

- We do not have formal Parent Teacher Association, but whenever needed, the parents are called for the discussion about academic matters of their ward.

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

1. Capacity Building 2. Health Check up 3. Staff Development Training Program

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

1. Received CPE grant from UGC 2. Received FIST programme grant from DST 3. Renovation of Laboratories 4. Organised National conference on Academic and Administrative Audit. 5. Organised NAAC awareness programmes

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	One Day Workshop On 'NAAC: NEW METHODOLOGY OF ASSESSMENT'	26/03/2019	26/03/2019	26/03/2019	46

[View File](#)**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES****7.1 – Institutional Values and Social Responsibilities**

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male

"Right Decision at Right time"	08/03/2019	08/03/2019	123	26
'Beti Bachao Beti Padhao'	08/03/2019	08/03/2019	82	34
Seminar On Health And Wellness, Topic - Menstrual Hygiene	30/09/2018	30/09/2018	56	0

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

Percentage of power requirement of the University met by the renewable energy sources
<p>Energy Conservation: • Minimum use of electricity by shifting to the CFLs and other ecofriendly products with star rating in power saving. • The lights and fans are switched off by students and staff whenever classrooms and laboratories are not in use. Use of Renewable Energy: • The college has installed solar lamps on the route from the main gate to the college building. • Solar water heater has been installed in the girls' hostel. • Solar System of 30 MW has been installed to generate electricity, which minimizes the electricity consumption and expenditure Water Harvesting: • Rainwater harvesting by roof water collection method is practiced in the hostel building. The outlets have been let out in to the well to help raise the water table. • The rain water collected by the Chemistry department is used as distilled water for experiments thereby saving the electricity needed for distillation of water and water conservation too is maintained. Efforts for Carbon Neutrality: • The college makes the students aware of the Carbon Credits, Carbon Neutrality and its advantages. • Plantation in the vicinity of the campus. • Recently our college Environmental Conservation Group, through Student Council and student participation has started Green Thursday, to make the campus pollution free by avoiding the use of vehicles once a week. Plantation: • Variety of trees are planted and maintained to keep the campus green. • 33 of the land area is under vegetation. • Plantation activity carried out on 15th August and 26th January every year. Waste Management: • Campus is made polythene bag free. • Use of paper cups in college canteen. • "Maticha Ganapati Baswa Abhiyan" (Install "Clay idols of Lord Ganesha" campaign) • Fuming hood (chamber) is installed in PG chemistry Lab. • Vermicomposting of plant residues of the campus. EWaste management: • Reuse of most of the electronic equipments and other materials wherever possible. • Nonfunctional computers, monitors, printers, and its accessories are donated to schools run by the parent society on request on a systematic basis.</p>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	0
Scribes for examination	Yes	13

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff

2019	1	1	01/01/2019	80	Survey and Questionnaire to promote environmental awareness	Air, water, soil, pollution, solid waste management, sanitation and other issues	41
View File							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of Conduct for Teachers	11/06/2018	Has been revised every year
Code of Conduct for Nonteaching Staff	11/06/2018	Has been revised every year
Code of Conduct for Students	11/06/2018	Has been revised every year
Code of Conduct for Principal	11/06/2018	Has been revised every year

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Bhagvadgita Vachan	23/08/2018	23/08/2018	103
Bharati Sanskruti Pariksha	19/08/2018	19/08/2018	42
Gandhian Thoughts Exam	02/10/2018	02/10/2018	43
View File			

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- EcoFriendliness in the campus is the policy of the college.
- Lawns and Gardens are maintained with utmost care.
- Approach roads are lined with trees and shrubs.
- Use of plastic materials is prohibited in the college.
- Plantation of indigenous Species / other plants.
- Ban on use of Plastic bags in college campus.
- Ewaste management through reuse of old instruments with modifications.
- Tree plantation and lawn for more green cover
- Plastic eradication
- Parthenium Eradication
- Sapling generation
- Cleanliness drive

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the Practice: Design and Assembling of Experimental Kits
Goals: • To impart handson training of experimental kit design. • To prepare low cost and user friendly kits. The practice: Designing and Assembling of Experimental Kits through the involvement of teachers, staff and students is a routine practice of the department. Through this activity department has not only saved money but has provided an opportunity to advanced learners to learn more about electronic and electrical devices. **Evidence of success:** Students show keen interest towards equipment/kits repair and assembling. **Problems Encountered**

Resources Required: None. 1. Title of the Practice: NOISE POLLUTION MONITORING CONTROL Goals: • To percolate the message of environmental protection and conservation • To minimize the gap between the laboratory and the field. The Context The control measures are very essential by increasing the vegetation cover, by arranging awareness programs in the society, strict implementation of environmental laws and using protective devices. The practice: During the years 2008, 2009 and 2014 the project was carried out for which three main festivals were identified during which the analysis was done. The project is a part of environmental education in an informal way. In the city of Amravati five most populated areas and squares with heavy traffic load were selected as sample stations. The Environmental Science Department of the college was the first to undertake such an activity which provided direct exposure and involved students' interaction to create live awareness. The paper that was presented in Avishkar Daily analysis was shown on local RCN Channel. Evidence of success: Noise pollution levels during the festivals were much higher in comparison to the standard limits. The noise levels due to DJs and sound systems were controlled and reduced to some extent as compared to those of the three previous years. Local government agencies have implemented some stringent measures to combat with the noise pollution problem. The DJ noise level limit has been fixed at 120 dB, with a time limit up to 10.00 pm at night. After the given time limit noise disturbances if created are liable for punishment and penalty. Problems Encountered Resources Required: • Public negligence and criticism faced by the students. • Activity not taken positively by the traffic police and common people. Note (Optional): Awareness programme, Air, Water and Soil Monitoring and Analysis

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

<https://www.shivajiscamt.org/pdf/BestPractices.pdf>

7.3 – Institutional Distinctiveness

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

This college comes under ShriShivaji Education Society, Amravati which is a premier educational institution providing quality education since 1931. It is second largest in the state of Maharashtra. The college has been trying at its best to fulfill the aims and objectives of Dr. Panjabrao alias Bhausaheb Deshmukh who established this society especially to quench the thirst of the neglected and the downtrodden. This visionary leader has uplifted the whole of our region by establishing this education hub. Ours is the first college in the entire S. G. B. Amravati University to have accredited with NAAC in 2001 with A Grade. This college is committed to provide quality education and promote research that will contribute to the continual development of our society. We are celebrating the Golden Jubilee Year of our college and we feel elated and proud to have achieved significant milestones like being identified as 'A' Grade College consecutively three times by NAAC, UGCCPE, DSTFIST and University Lead College. Research is the basis of all inventions and this college has been taking right initiatives to promote the research activities through 09 Research Centers and 07 P.G. Departments. The Central Instrumentation Cell and The Department of Environment Science provide consultancy for the analysis of water, soil and air samples. This college undertakes quality initiatives within the college, at society level and also at University level being the lead college of the university. We have a rich heritage of academic merits. Moreover, the students of this college have brought laurels in the field of Sports and also in cultural events at university and state level. SIAC The college is committed to promote gender equality in our society. We have 72 girls students in all. This greater

percentage of girls owes its credit to the secured, disciplined and healthy academic atmosphere of the college. • The entire college campus is WiFi with 100 mbps internet speed through fiber optic cables. • This college has been catering to the needs of the poor and needy students • Moreover the college runs Ecotourism and Wildlife Photography Career Oriented Programme. • The college office works through the Management Information System The college has a well-equipped infrastructure. We have taken care of the environmental issues by establishing solar energy panels and also the water harvesting project. We have switched over to use LED bulbs and tubes throughout the campus. Green Audit of the Institution is done every year. We boast of having a Green Campus PlasticFree Campus. Solid and Liquid Waste Management system is properly implemented. We observe No Vehicle Day on every Thursday for the Staff. Three of our staff members are members of the Editorial Board of 'People Biodiversity Register of Amravati District: A Baseline Data'. The college has a strong registered Alumni Association which include M.P.s, M.L.A.s, I.A.S. Officers, Mayors, renown industrials, entrepreneurs, doctors and engineers, teachers and researchers.

Provide the weblink of the institution

<https://www.shivajiscamt.org/pdf/InstDisti.pdf>

8.Future Plans of Actions for Next Academic Year

IQAC Action Plan for Academic Session 2019-20 I. Action Plan in view of Curricular Aspect 1 Value Education Programmes 2 Introducing Add-On and Value Added Courses. II. Action Plan in view of Teaching, Learning and Evaluation 1 Bridge Course (Theory and Practicals) for the students of semester IIIrd and Semester Vth (2-7) 7 'Nikon School' Workshop 2 8 Visit to Water Treatment plant and Sewage Treatment plant B.Sc. III Students 9 Organization of Talk for Motivation of Students for participation in Avishkar-2017 11 Visit to K. V. K/Agri Biotechnology Colllege B.Sc. III students 13 Induction Programme and PG Alumni Meet (15) 14 Aptitude test for B.Sc. I 15 Poster presentation competition 16 Organization of College level Avishkar- 2018 17 University Level Seminar / quiz, poster Competitions 19 Wildlife Week celebration and Zoological Excursion B.Sc. 21 Industrial tour/ Excursion tour/Field visit 22 Soil Testing Analysis 23 Technotsav-2018, an event of BCA students 24 Bird Watching Bird Fest 25 Workshop on Interactive Skill Development for UG students 26 Workshop on GIS Remote Sensing III rd year student PG 27 Tissue culture lab visit of school students 28 NSD - Intercollegiate Competitions for UG and PG students / Guest lectures / Aptitude Test 29 Tissue culture lab visit of school students III. Action Plan in view of College Research Activities 1 Science Awareness Programme for school children 2 Chrysanthemum Workshop in collaboration with Garden club 3 Mushroom Cultivation Workshop 6 Organisation of Conference / seminar/ Symposium Establishment of MoU and Collabaorations 7 World Soil day-Interaction with Farmers of nearby area to create Soil Quality Awareness 8 Workshop for Researchers on "Development of Scientific writing skills" IV. Action Plan in view of Infrastructure Development 1 Upgradation of Laboratories 2 Upgradation of Seminar Hall V. Action Plan in view of Student Support and Progression 4 Organization of Sports coaching camp of various games for selected players: 7 NSS Camp 2018 9 Placement programme 10 'B' cert exam 11 Visit to Orphanage House 12 'A' cert exam VI. Action Plan in view of Governance and Management 1 NAAC New Methodology Awareness Programme 2 IQAC Meeting 3 CDC meeting 4 IQAC awareness programme 5 College Council Meeting 6 Academic Audit VII. Action Plan to Promote Human Values and Best Practices 1 International Yoga Day activity 2 Stock Verification 3 World Forest Day 6 National Tiger day celebration-Guest Lecture 'Tiger Pride of Nation' 7 Collection of Frog Spawn for B.Sc.I and 11 Bhagawad Geeta Test 16 World Ozone Day celebration-Campus cleanliness Drive and Wall Paper Display 17 World Environmental Health day-Workshop on Cancer Awareness (for girls students) 19 Gandhian Thought Test 20 Readers Day 21 International day for the

Disaster Reduction -Guest Lecture on 'Disaster Management' 23 NCC day 29 National
Yuth Day Programme 30 Sadbhavna Diwas 31 Vermin-compost Installation Programme 35
World Women day 36 World Forest Day/ World Panting Day World Wood Day Seminars At
School Level by PG Student