



Shri Shivaji Science College, Amravati

Accredited by NAAC with A grade with a CGPA of 3.13

College with Potential for Excellence

Shivaji Nagar, Amravati – 444603 (M.S.)

ANNUAL QUALITY ASSURANCE REPORT

2017-2018

Track ID MHCOGN 10136

To

CAPU, WEST

NAAC

P.O. BOX NO. 1075, NAGARBHAVI

BANGALORE-560072

Submitted By

Principal,

Shri Shivaji Science College, Amravati-444603, Maharashtra

The Annual Quality Assurance Report (AQAR) of the IQAC 2017-18

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. *(Note: The AQAR period would be the Academic Year. For example, July 1, 2017 to June 30, 2018)*

Part – A

1. Details of the Institution

1.1	Name of the Institution	:	SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI
1.2	Address Line 1	:	Shivaji Nagar
	Address Line 2	:	Morshi Road
	City/Town	:	Amravati
	State	:	Maharashtra
	Pin Code	:	444603
	Institution e-mail address	:	shivajiscamt.office@gmail.com
	Contact Nos.	:	0721-2660855
	Name of the Head of the Institution	:	Dr. V. G. Thakare, Principal
	Tel. No. with STD Code	:	07212660855, Fax No. 07212665485
	Mobile	:	+919422858934
	Name of the IQAC Co-ordinator	:	Dr. H.S. Lunge
	Mobile	:	+919422915042
	IQAC e-mail address	:	iqacshivajiscamt@gmail.com
1.3	NAAC Track ID	:	MHCOGN 10136
1.4	Website address	:	www.shivajiscamt.org
	Web-link of the AQAR	:	www.shivajiscamt.org/AQAR 201718.doc

1.5 Accreditation Details

Sr. No	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A four star	N.A.	2001	Oct. 2001 - Oct. 2006
2	2 nd Cycle	A Grade	3.10	2008	Feb. 2008 - Feb. 2013
3	3rd Cycle	A Grade	3.13	15/11/2015	Nov.2015 - Nov. 2020
4	4 th Cycle				

1.6 Date of Establishment of IQAC : 01/12/2003

1.7 AQAR for the year : **2017-18**

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*for example AQAR 2010-11 submitted to NAAC on 12-10-2011*)

- i. AQAR____2014-15 submitted to NAAC on 09/07/2015
- ii. AQAR____2015-16 submitted to NAAC on 11/11/2016
- iii. AQAR____2016-17 submitted to NAAC on 25/01/2018

1.9 Institutional Status

University : State ☒ Central ☐ Deemed ☐ Private ☐

Affiliated College : Yes ☒ No ☐

Constituent College : Yes ☐ No ☒

Autonomous college of UGC : Yes ☐ No ☒

Regulatory Agency approved Institution : Yes ☐ ☒
(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution : Co-education ☒ Men ☐ Women ☐
Urban ☒ Rural ☐ Tribal ☐

Financial Status : Grant-in-aid UGC ☒ 2(f) ☒ UGC 12B ☒

| Grant-in-aid + Self Financing ☒ Fully Self-financing ☐

1.10 Type of Faculty/Programme

Arts ☐ Science ☒ Commerce ☐ Law ☐ PEI (Phys Edu) ☐

TEI (Edu) ☐ Engineering ☐ Health Science ☐ Management ☐

Others (Specify)

1.11 Name of the Affiliating University (*for the Colleges*)

Sant Gadge Baba Amravati University , Amravati. Maharashtra, 444602

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence

UGC-CPE

☒

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

☒

UGC-Innovative PG programmes

Any other

☒

(*Lead College by Parent University*)

UGC-COP Programmes

☒

2. IQAC Composition and Activities

2.1	No. of Teachers	<input type="text" value="07"/>
2.2	No. of Administrative/Technical staff	<input type="text" value="01"/>
2.3	No. of students	<input type="text" value="01"/>
2.4	No. of Management representatives	<input type="text" value="01"/>
2.5	No. of Alumni	<input type="text" value="01"/>
2.6	No. of any other stakeholder and community representatives	<input type="text" value="01"/>
2.7	No. of Employers/ Industrialists	<input type="text" value="00"/>
2.8	No. of other External Experts	<input type="text" value="01"/>
2.9	Total No. of members	<input type="text" value="13"/>
2.10	No. of IQAC meetings held	<input type="text" value="04"/>
2.11	No. of meetings with various stakeholders: No.	<input type="text" value="03"/> Faculty <input type="text" value="04"/>
	Non-Teaching Staff	<input type="text" value="01"/>
	Students	<input type="text" value="01"/>
	Alumni	<input type="text" value="02"/>
	Others	<input type="text"/>
2.12	Has IQAC received any funding from UGC during the year? Yes	<input type="text"/>
	No	<input checked="" type="checkbox"/>
	If yes, mention the amount	<input type="text" value="-----"/>
2.13	Seminars and Conferences (only quality related)	
	(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC	
	Total Nos.	<input type="text" value="01"/>
	International	<input type="text"/>
	ational	<input type="text"/>
	ate	<input type="text"/>
	University / Institution Level	<input checked="" type="checkbox"/>

(ii) Themes

- One Day workshop on ‘**NAAC Accreditation Awareness**’, jointly organised with IQAC, SGBAU, Amravati, for affiliated colleges in Amravati and Yeotmal Districs, on 23rd November 2017,
- ICT training programs for teaching & non-teaching staff.

2.14 Significant Activities and contributions made by IQAC

- One Day workshop on ‘**NAAC Accreditation Awareness**’, jointly organised with IQAC, SGBAU, Amravati, for affiliated colleges in Amravati and Yeotmal Districs, on 23rd November 2017,
- The academic audit conducted of the departments and services.
- Preparation of the AQAR report
- Publication of Biannual IQAC Newsletter (Vol.04, Issue 02 and Vol.05 Issue 01)
- Presentation of UGC CAS directions as per 4th amendment.
- Verification of annual PBAS forms and the CAS proposals of the teachers.
- College Website Updated.
- Feedback from students collected and analyzed.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality Enhancement and the outcome achieved by the end of the year *

Plan of Action:**Department of Botany:**

1. Teaching learning process will be improved by acquiring interactive boards in U.G. lab
2. Coaching for slow learners & meritorious students
3. Seminars /Guest lecture / quiz /study tours / Botanical Society activities will be conducted.
4. Submission of Research project on need based problems by Faculties
5. Environmental awareness activities enhanced
6. “ Matiche Ganpati” abhiyan continued
7. Mushroom cultivation activity continued
8. International conference will be organized

Biotechnology

1. To organise guest lectures
2. To organise Science quiz for Microbiology & Biotechnology students
3. To organise awareness programme on "Genetically modified foods" in association with Microbiologist's society of India
4. To organise seminar Competition for Microbiology & Biotechnology students
5. To organise educational visit at University department/industry/research centre.

Computer Science:

To organize a ICT/Hardware training workshop for non-teaching staff of college.
To renovate computer laboratory with state of art furniture & advance equipments.
To participate in Inter National/National/State level conference/workshop/seminar.
To organise different activities at inter collegiate level/University level .
To organize Technotsav-2017 under ComSoft Society of the department.
To promote ICT.
To develop research culture in the department.
To assist by providing expertise to parent education society in computerization / automation & skill development.
To restructure/revise the curriculum of UG & PG courses of Computer Science & Application.
To organize study & excursion tour for UG & PG students.

Chemistry

Science Awareness programme for school children
Aptitude test for B.Sc. I/III
Popularizing COC in cosmetology for B.Sc. I
Intercollegiate seminar competition for B.Sc. II
Industrial visit for UG and PG students
Public awareness and social services by P.G. students
Quiz competition for B.Sc. I
UG and PG students Visit to state and national laboratories
Resources from PG and UG students
Social related activity
Review of paper writing for different journals

Geology:

Department will organize seminar/Training / Workshops for UG students.
The department will organize field excursion tour to the places of Geological interest.
Guest lectures on important topics in Geology / Hydrogeology and Remote Sensing and GIS.
To attend/present research papers in national/international conference/ seminars/workshop by staff members/research students.
The Department proposes to submit Minor/Major Research Projects for Financial assistance to appropriate authorities.
Department is planning to organize Job Oriented/Bridge Course on Groundwater Exploration/ watershed management/ remote sensing during the present year.
Attempt will be made in order to implement digital learning techniques.
Attempts will be made for planning guidance regarding civil services and Geological examinations.

Env. Science

One day workshop on Cancer Awareness (for Girls students and ladies staff) --- July end / August,
Inauguration of Environmental Sci. Society and guest Lecture - July- August
Air quality monitoring of Amravati City
Noise level analysis on eves of Festival
Days Celebration
Inter-College Seminar Competition for PG Students - January 2018
Env. Literacy Survey : Tentative duration : after Diwali Vacation.
Env. Awareness Program Essay Competition On " Pradushan Ek Wadhathi Samasya" & Drawing Competition On " Save The Environment." Date : 13 Jan. 2017.
Visits: Tentative duration : As per syllabus before and after Diwali Vacation <ul style="list-style-type: none"> • Water treatment plant. • MIDC, Nandgaon peth and Amravati • Sewage treatment plant • Visit to Soffia Power Plant . • Long tour to Industrial areas, Biodiversity rich spots, sanctuaries, forests,

Languages:

To organize various activities through the Language Club.
To organize a poster competition on any one of the burning social issues.
To organize an All Languages Poetry Workshop.
To generate funds provide access to outsiders to our language lab.

Library

Book Exhibition
Book Talk (Talk of Author on his books)
Essay Competition, Paper clipping project, (15th October)
Green Library
User Group
Poster Exhibition

Microbiology

To organise guest lectures
To organise Science quiz for Microbiology & Biotechnology students
To organise awareness programme on "Genetically modified foods" in association with Microbiologist's society of India
To organise seminar Competition for Microbiology & Biotechnology students
To organise educational visit at University department/industry/research centre.

Statistics:

To organize Guest lectures
Work shop on Excel and R- software for student
Work shop for teachers / research students on interdisciplinary application of research methodology
University level seminar competition
Quiz competition in the subject
Extension activity/ local sample surveys and for data analysis

Physics

To establish collaboration and linkages with other research institutes and industries.
Organization of National Level Conference on “Material Science”
Inter disciplinary Major research projects.
Development of experimental demonstration kits on basic physics.
To develop e- content and e- modules for subject physics.
Introduction short term bridge courses and certificate courses

Physical Education

Organization of SGB Amravati University Intercollegiate Tournaments.
Organize guest lectures and invited talks.
Organization of Intramural, Extramural, District level, Division level school tournaments.
Provide college play ground to various sports associations & offices to organize sports tournaments.
Organization of coaching camp of Swimming, Cricket, Yoga and Aerobics.
Develop tennis court facility in college.

Zoology:

To organize two days National Conference on Biodiversity & conservation.
To organize the workshop on hands on training of Practicals
To conduct interdisciplinary research.
Establishment of Consultancy/Contract Research services in Biodiversity assessment, EIA and hydro biological analysis
To increase research publications in national and international journals.
To submit more proposals for major research projects to funding agencies like DST, UGC, MOEF, etc
To concentrate on patent oriented research.
To focus the research on social aspects.
To conduct environment awareness campaign.

Outcome

- DBT& CSIR sponsored National Conference on Recent Trends in Biotechnology and Biodiversity.
- NAAC Accreditation Awareness Workshop held at Shri Shivaji Science College, Amravati
- 5thSHIVAJI VIDNYAN PARISHAD - 2017
- Street play in the school premises.
- Workshop on “Chrysanthemum Cultivation”
- International Yoga Day (IYD-2018)
- ‘AVISHKAR 2017’
- Workshop on “Opportunities in IT using modern Web-Technologies”
- Online Conversation with Hon’ble Minister of Higher Education, Maharashtra.
- Aptitude test in Chemistry.
- Seminar on Health and wellness
- Publication of Geological Wall Magazine.
- Visit to Water treatment plant.
- Tour to Tadoba Forest.
- Workshop on “Breast Cancer awareness campaign and Open Discussion”.
- Two days book exhibition.
- One Days Geological tour.
- Laboratory session as a part of Refresher Course in Physics.
- One day Workshop “Nikon School”.
- The Inter Collegiate Basketball (Men) Tournaments.
- Inter Collegiate Handball(Women) Tournaments and selection trials.
- Dodge ball School National Tournaments 2017-18
- Pulse polio drive.
- Road safety class.
- On the eve of Mahatma Gandhi birth anniversary the cadets were performed the Street Play.
- Four-Day Hands on Workshop on ‘Genome and Plasmid Isolation, PCR, RFLP and Primer Designing.
- “The Regional Pedagogy workshop for undergraduate and post graduate Science and Mathematics Teachers”
- A program of Celebration of National Youth Day.
- Visit to State/National Laboratories for UG Students.
- Social Awareness Programme.
- Workshop on Android Apps Development on 26-Mar-2018.
- Review of Paper Writing.
- Resources from PG to UG students
- 8th March World Women's Day- Girl’s students & faculty members of the department participated in Walkathon.
- Program for school children on PLANT TISSUE CULTURE TECHNIQUES.
- Visit to Bamboo Garden.
- Visit to Sewage Treatment Plant.
- Competition on Presentation and Demonstration of Physics Experiments.
- Noise and Air Pollution Monitoring.
- Safety and social awareness programme for girl students.
- Celebration of National Science Day

- Summer Course in Experimental Physics
- Seminar Competition on NSD-2018.
- “Nature Camp cum Workshop.
- Swachh Bharat Campaign, Voters awareness, Pulse Polio campaign, Economic literacy,
- Woman empowerment, Save Girl child, Health awareness camp,
- Water conservation, River bund construction.
- Bird watching, Adventure activities.
- Hands on photography training & GPS demonstration.
- ‘Biodiversity Day-2018’.
- Environment Day (5th June 2018)

** Attach the Academic Calendar of the year as Annexure.*

2.16 Whether the AQAR was placed in statutory body. Yes ☒ No ☐

Management ☒ Syndicate ☐ Any other body ☐

Provide the details of the action taken

- The AQAR was placed before the CDC and after review and discussion, it was approved.
- The Principal has initiated the action, wherever necessary, as per the directives given by CDC.

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	09	-	09	-
PG	07	-	07	-
UG	02	-	01	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	03	-	03	-
Others	-	-	-	-
Total	21	-	20	-

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

1.2 (i) Flexibility of the Curriculum : CBCS/Core/Elective option

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	09
Trimester	Nil
Annual	03 (COC)+ 09 (Ph.D.)

1.3 Feedback from stakeholders* Alumni ☒ rents ☐ ployers ☐ dents ☒
(On all aspects)

Mode of feedback : Online ☐ anual ☒ operating schools (for PEI) ☐

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

- The syllabus of B.Sc. final year Sem-V and VI, of Mathematics subject, were revised as per notification no. 54/2017, dated 17/06/2017, by the parent university SGBAU, Amravati

1.5 Any new Department/Centre introduced during the year. If yes, give details.

No

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
52	16	34	02	

2.2 No. of permanent faculty with Ph.D.

44

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
	05		0	00	02			00	07

2.4 No. of Guest and Visiting faculty and Temporary faculty

02

02

41

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	6	74	08
Presented papers	6	37	03
Resource Persons	-	16	12

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Classroom presentations made available online for students .
- Online Lectures through WHIZIQ
- Multimedia presentation shared on Whatsapp for the students.
- Projects and field work and industry visits.
- Use of ICT

2.7 Total No. of actual teaching days during this academic year

180

2.8 Examination/ Evaluation Reforms initiated by the Institution

(for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Oral Test, MCQ, Aptitude Test,

2.9 No. of faculty members involved in curriculum

Restructuring/revision/syllabus development

06

00

02

as member of Board of Study/Faculty/Curriculum Development workshop

2.10 Average percentage of attendance of students

78 %

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division (Summer 2018)				
		Distinction %	I %	II %	III %	Pass %
B.Sc.	434	29	54	14	03	77.19
B.C.A.	87	00	61	35	04	51.72
M.Sc.	136	31	53	16	00	79.71

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Through Departmental meetings, Heads of Council and Academic Audit.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	00
UGC – Faculty Improvement Programme	00
HRD programmes	02
Orientation programmes	00
Faculty exchange programme	
Staff training conducted by the university	00
Staff training conducted by other institutions	01
Summer / Winter schools, Workshops, etc.	00
Others	00

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	16	-		
Technical Staff	47	07		

Criterion – III**3. Research, Consultancy and Extension**

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

Research Committee promotes research culture amongst the faculty and researchers.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	00	01	00	00
Outlay in Rs. Lakhs	00	08.80	--	00

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	00	03	00	00
Outlay in Rs. Lakhs	00	6.53	---	00

3.4 Details on research publications

	International	National	Others
Peer Review Journals	69	17	--
Non-Peer Review Journals		00	-
e-Journals	-	-	-
Conference proceedings	--	00	-

3.5 Details on Impact factor of publications:

Range	0-5.61	verage	3.49	h-index	0-13	in SCOPUS	28
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3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	2015-18	UGC	08.80 lakh	
Minor Projects	2016-18	UGC	06.53 lakh	
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects (<i>other than compulsory by the University</i>)				
Any other(Specify)				
Total				

3.7 No. of books published

i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST

DPE DBT Scheme/funds

3.9 For colleges Autonomy PE ☒ BT Star Scheme
INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences / workshops organized by the Institution

Level	International	National	State	University	College
Number		01		02	01
Sponsoring agencies		DBT and CSIR		SGBAU, Amravati	SGBAU

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International National other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From Funding agency From Management of University/College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	-
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

3.17 No. of research awards/ recognitions received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
00	-	01	01	01	00	01

3.18 No. of faculty from the Institution who are Ph. D. Guides

31

and students registered under them

41

3.19 No. of Ph.D. awarded by faculty from the Institution

06

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF 00 SRF Project Fellows : 01 Any other 00

3.21 No. of students Participated in NSS events:

University level	78	State level	
National level		International level	

3.22 No. of students participated in NCC events:

University level	60	State level	00
National level	01	International level	-

3.23 No. of Awards won in NSS:

University level	00	State level	
National level	00	International level	

3.24 No. of Awards won in NCC:

University level	-	State level	-
National level	01	International level	-

3.25 No. of Extension activities organized

University forum		College forum	32
NCC	14	NSS	11
		Any other	04

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

Extension Activities:-

- “Paryavaran Janjagruti Abhiyaan”
- Science Awareness programme for school children at “Kasturba Kanya Shala, Amravati”.
- Awareness programme on health & self defence for UG & PG girl student.
- “Matiche Ganpati Abhiyan” and Tree Plantation in campus.
- Sky watching
- Air pollution monitoring of Amravati and MOU with Amravati Municipal Corporation for providing results.
- Intervention with farmers to aware them about the use of organic farming and the positive effect so for ganicmaure
- “Nirmalya Kalash”
- Cleanliness drive and tree plantation programme
- Nature Camp
- Visit to Forensic Lab Amravati.
- Blood Donation Camp by NSS and NCC on Valentine Day was organised.
- Environment awareness programme (Clay Ganesh Idol Awareness programme)
- Wildlife Week celebration(Photography exhibition, Cycle rally)
- Nature Camp cum workshop .
- Ozone Day Celebration by rally and awareness programme on 16th Sept.
- Monitoring of Noise Pollution Level in Amravati City and display on R.C.N. for local awareness.
- Students participation in the campaign “ Maticha Ganpati Basava”
- Visit to Sewage Treatment Plant, Lalkhadi, Amravati.
- Visited Wadali lake for Ecosystem Studies.

- **Institutional Social Responsibility:**

- Bicycle distribution to the economically backward students identified by NSS from the amount raised through selling the ‘News paper and the college exams answer books - Raddi’

Criterion – IV

4. Infrastructure and Learning Resources
4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	20560 sqm	-	-	20560 sqm
Class rooms	20	-	-	20
Laboratories	46	-	<ul style="list-style-type: none"> • Parent Management • UGC 	46
Seminar Halls	03	00	<ul style="list-style-type: none"> • Parent Management 	03
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	20	06	UGC	22
Value of the equipment purchased during the year (Rs. in Lakhs)	112.36 Lakh	26.25 Lakh	UGC	138.61 lakh
Others: <ul style="list-style-type: none"> • Seminar Auditorium hall Renovation, 	35.78 Lakh	---	<ul style="list-style-type: none"> • Parent Management • UGC 	.

4.2 Computerization of administration and library

Office software is updated through MIS
--

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value (Rs)	No.	Value (Rs)	No.	Value (Rs)
Text Books	23106	3401022	1240	384706	24346	3785728
Reference Books	906	369233	-	-	906	369233
e-Books	-	-	-	-	-	-
Journals	749	725610	20	38060	769	752170
e-Journals	DELNET Nlist	16500	DELNET Nlist	16500 /-	--	33000
CD, e-books & Video	196	48566	10	11565	206	60131
Others (specify)	7481	1750393	371	190258	7852	1940651

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	229	113	22	01	19	15	55	04
Added	26	21	00	00	00	01	04	00
Total	255	134	22	01	19	16	59	04

4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)

- Every department has been provided with computers, and internet system. Expansion of e-technology has enhanced the use of computers in curriculum development, teaching-learning, evaluation and research and LCD facility to eight departments
- Students are encouraged to make use of computers for Power Point Presentations of their seminars and projects.
- Broadband internet connectivity is given to all the departments. Internet browsing is available for teachers and students at the Internet Centre free of cost during the working hours of the library.
- Computer Access Centre is established for non computer students.
- All faculties are having the self learning sufficient experience of internet, laptop, tablet & multimedia technology.

4.6 Amount spent on maintenance in lakhs :

i) ICT	06.18
ii) Campus Infrastructure and facilities	62.83
iii) Equipments	03.15
iv) Others (CCTV, Electrification etc.)	08.85
Total:	81.01

Criterion – V

5. Student Support and Progression
5.1 Contribution of IQAC in enhancing awareness about Student Support Services.

- The institution publishes its updated prospectus and handbooks annually.
- The information content is disseminated to students at the beginning of every academic year.
- The Heads of Department explain the course material and question pattern.
- The students responses are collected through questionnaire, designed by IQAC.
- The NRC provides the internet and computer facilities, Xerox facility are available with the Cooperative store for students needs.
- College website is updated regularly
- Academic Calendar and Information published through Notice Board
- CCTV surveillance facility is updated.
- E- communication of students related activities.

5.2 Efforts made by the institution for tracking the progression

- The Placement Cell conducts training programmes for students and arranges job fair in collaboration with employers.
- The Alumni Association maintains consistent correspondence with alumni.
- Tutors in the Tutor-Ward system and Counselors provide necessary guidance to students in the choice of their career.
- The Dept. of Faculty guide / helps students in personality development.
- Add-on courses help students get employment opportunities.
- Every department maintains a register for recording the progress of students.
- Remedial coaching, extra classes, guest lectures, internal unit tests and assignment.

5.3 (a) Total Number of student 2017-18

UG	PG	Ph. D.	Others
1686	295	38	87

(b) No. of students outside the state

01

(c) No. of international students

--

Men (UG)	No	%	Women (UG)	No	%
	483	28.65		1203	71.35

Last Year (2016-17) (UG+PG)						This Year (2017-18) (UG + PG)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
423	72	67	1337	-	1899	356	260	12	1144	--	1981
								1			

Demand ratio - 01:11

Dropout % - 03.07 %

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Regular coaching for competitive examinations (MPSC and UPSC) along with guidance for Entrepreneurship Development was conducted during 6.00 to 7.00 pm throughout the session.
- The regular time table with the topics was displayed and according lectures were conducted. Virtual / recorded lectures by faculties of reputed IAS academies were shown to the students.

No. of students beneficiaries

143

5.5 No. of students qualified in these examinations

NET	06	SET/SLET	01	ATE	01	AT	-
IAS/IPS etc	-	State PSC	00	PSC	00	pers	00

5.6 Details of student counselling and career guidance

Report of Placement Drive conducted by Acute Informatics Pvt. Ltd. on 25-Nov-2017

Acute Informatics Pvt. Ltd. is a Ahmedabad based banking softwares development company. It deals with the core banking solutions required to banks. Acute Informatics Pvt. Ltd. Ahmedabad has conducted a campus placement drive at Shri Shivaji Scienc College, Amravati on 25-Nov-2017 for B.Sc. & B.C.A. final year appearing students. Near about 80 students of the college have appeared for the campus placement drive. Out of them, 25 students have shortlisted by the company. Mr. Robin Patel, the official from the company were present to organize this drive. Dr. A.W.Asole has introduced the company officials to the students. Then the aptitude test was conducted where the technical skills of computer is tested by the company.

Report of Placement Drive conducted by Corning Technologies India Pvt. Ltd.

Corning Technologies India Pvt. Ltd. Pune conducted a campus placement drive at Shri Shivaji Scienc College, Amravati on 01-Feb-2018 for B.Sc. students . In this drive toal 267 students have appeared from 16 different institutes of the Sant GadgeBaba Amravati University region. Five officials were present to organize this drive from Corning company- Mr. Raviraj Bhosale – Team Leader, Mr. Pankaj Pathak , Mr. Atul Ajnadkar, Mr. Prakash Maheshwari, Ms. Trupti Gaurkhade . Dr. A.W.Asole welcome & introduced the company officials to the students. The principal, Dr. V.G.Thakare has addressed the students regarding career opportunities. Mr. Raviraj Bhosale has given a brief introduction of the company through audio-visual presentation. Then Mr. Pankaj Pathak has carried out the further process of placement drive with aptitude test and al

No. of students benefitted

340

5.7 Details of campus placement

On campusNumber of
Organizations
Visited

01

Number of
Students
Participated

267

Off CampusNumber of
Students Placed

23

Number of Students Placed

09

5.8 Details of gender sensitization programmes

1. Woman empowerment, Save Girl child, Health awareness camp
2. One day workshop on 'Anti-sexual Harassment of women at Workplace Act-Prohibition, Prevention and Redressal', for girl students was organised.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level	245	ational level	15	ational level	00
No. of students participated in cultural events					
State/ University level	32	ational level	00	ernational level	00

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/University level	04	National level	14	International level	-
Cultural: State/University level	05	National level	00	International level	00

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution		
Financial support from government	1056	5008300/-
Financial support from other sources		
Number of students who received International/ National recognitions		

5.11 Student organised / initiatives

Fairs :

State/University level	1	National level		International level	
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Exhibition:

State/University level	16	National level	00	International level	
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5.12 No. of social initiatives undertaken by the students

39

5.13 Major grievances of students (if any) redressed: Not any.

Criterion – VI

6. Governance, Leadership and Management
6.1 State the Vision and Mission of the institution
Vision

To develop the Institute as a Centre of Higher Learning ever abreast with the expanding horizon of knowledge in the field of Science and to facilitate transformation of students into good human beings, responsible citizens and competent professionals.

Mission-

- To provide quality education, equip them with analytical insights, intellectual maturity, strength of purpose and willingness to work hard conforming to ethical values.
- To promote academic exchange and academia-industry interfacing, taking advantage of the latest technology.
- To be a bridge between the rural-urban divide, taking the benefits of education to the poor and the marginalized, aiming at their empowerment.
- To ensure access to and equity in higher educational opportunity to all deserving and meritorious students with a preferential option for the poor and marginalized, irrespective of caste and creed.
- To attract and develop talented and committed human resource, and provide an environment conducive to innovation, creativity, team-spirit and entrepreneurial leadership.
- To facilitate effective interactions among faculty and students, and foster networking with alumni, industries, institutions and other stake-holders.

6.2 Does the Institution has a management Information System

Yes, Administrative procedures including

1. Finance
2. Student admission
3. Student records
4. Evaluation and examination procedures
5. Research administration

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

- 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

6.3.2 Teaching and Learning

- ICT-enabled teaching-learning process has made students —active participants□ in the classroom.
- Apart from classroom interaction, the following methods are used.
- learning is initiated through group discussion, seminars, debates, quiz, viva, etc.
- Inquiry–based learning is provided through community survey, opinion polls, case study, industrial visit and fieldwork.
- Multimedia/ ICT mode of Teaching, Simulations and animations
- Special coaching to academically poor students
- To promote practical based learning seminars are conducted for the students.
- Advance learners are given assignment of designing and developing new experiments based on theory.

6.3.3 Examination and Evaluation

- Semester system with Continuous Internal Assessment (CIA) is followed.
- 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

6.3.4 Research and Development

- Nine research laboratories, recognized by SGB Amravati University.
- Efforts to increase the intake capacity of research laboratories and to obtain recognition of new labs.
- CIC for advanced research studies.
- To enhance / develop/ improve research facilities, to established MoU and Collaborations with various institute / research organizations.
- To undertake interdisciplinary / society oriented research projects/ studies.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- The infrastructure development is approved by LMC.
- The library Committee, as per the requirement and the yearly budget, the books/ journals/ e-resources are procured.
- Tenders are called by the purchase Committee for procuring the equipments and ICT related peripherals, as per the budget and requirement.

6.3.6 Human Resource Management

- 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

6.3.7 Faculty and Staff recruitment

- The parent management, as per vacant post, implement the procedure of recruitment of faculty and other staff through the approval of the state Govt. and The parent University.
- The reservation policy is adopted as per the state Govt. Rules.
- The temporary faculty are recruited as per the need of self financing

6.3.8 Industry Interaction / Collaboration

- College has full support and free hand to PG departments/ research departments to established collaboration with industry for exchange of information research and training to the students and internship.
- MoU with Cistron Integrated Systems, Mumbai.
- Industry interaction with Ankur seeds.

6.3.9 Admission of Students

- Students are selected for admission on the basis of past academic record, merit list, interviews or a combination of these, depending on the course (UG or PG) to which admission is sought.
- As the college is an aided institution, admission of students is done as per Government norms. 100 % of the seats are filled as per the Government policy of reservation.

6.4 Welfare schemes for

Teaching	06
Non teaching	07
Students	14

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done Yes

☒

No

☐

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

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

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>
For PG Programmes	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

6.9 What efforts are made by the University/ Autonomous College for Examination reforms?

- Semester system at both UG and PG level.
- Credit Based and CBCS system only at PG

6.10 What efforts are made by the University to promote autonomy in the

Affiliated / constituent colleges?

As per Maharashtra University Act-2016, parent University has, in its statutes, a provision to grant autonomy to the colleges

6.11 Activities and support from the Alumni Association

- Financial Support to economically Eight weaker section students of 28250/-
- Guest Lecture of Alumni was organised.
- Talked on Career Counselling by Alumni.

6.12 Activities and support from the Parent – Teacher Association

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

6.13 Development programmes for support staff

- Seven nonteaching staff was deputed for workshop / training.
- Training programme was organised on use of ICT / software in administration.

6.14 Initiatives taken by the institution to make the campus eco-friendly

- Eco-Friendliness 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.
- E-waste management through reuse of old instruments with modifications.
- Tree plantation and lawn for more green cover
- Plastic eradication
- Parthenium Eradication
- Sapling generation
- Cleanliness drive

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Publication of Biannual IQAC Newsletter
- Maintained Biodiversity Register of College Campus
- Nature camp -cum workshop in Melghat for students
- Basic Photography Workshop for Students
- Training of Rescue operation for students during natural disaster\
- Zoological Eco-Club
- Research Festival- Avishkar

- Wildlife week celebration in 1st Week of October (Every year).
- Nature and Wildlife Photo exhibition
- Noise and Air Pollution Level in Amravati City Monitored.
- Design and Assembling of Experimental Kits

- 7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year.

**As given in Section –A 2.15 and
IQAC NEWSLETTER (July- December 2017 and January-June 2018)**

- 7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

- Biodiversity registers of college campus.
- Noise Pollution Monitoring & Control
- Soil Analysis and Water Analysis
- Recycling of waste paper.
- Annual Tech-Fest for Students.
- Design and Assembling of Experimental Kits.
- ‘Clay Ganesh idol awareness program’

1) Title: Soil Analysis:

Goal:

Considering the need of hour our department has taken an initiative to carry out soil analysis in agricultural land of different villages.

Objectives :

- To assist the farmer for the awareness of soil quality
- It will be helpful for the better yield and to have good profit
- Making the students to aware about their social responsibility
- Activity is to be carried out by P.G. Students
- Sampling of soil is done after harvest and before cultivation

2) Title: Water Analysis:

Goal:

This project is to be given to P.G. students to carry out water analysis in Amravati Municipal Corporation Area.

Practice:

Water is to be collected from different resources commonly use for domestic purposes by the peoples. Also water from different hotels is also to be tested.

3. Title of the Practice: **Design and Assembling of Experimental Kits**

Goals:

- To impart hands-on 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.

7.4 Contribution to environmental awareness / protection

- Rain Water Storage which provides naturally distilled water useful for reagent preparation and similar tasks. This saves partially electrical energy require to prepare distilled water in laboratory to the students
- Tree plantation, Ozone day celebration, Green Thursday, Seminars at school level ,
- Case studies related various environmental issues,
- Maticha Ganpati awareness programme, preparation of Ganpati Idol from waste paper,
- Environmental awareness/protection throughout the year through Ecofriends extension activities as mentioned earlier
- Environment awareness programme (Ban on use of Plastic bags in college Bird conservation programmes.
- Biological excursion.
- Nature Camp cum workshop in Melghat
- Noise level monitoring, projects on air pollution, projects on water pollution.
- Projects on solid waste management, projects on heavy metals,
- Survey on environmental education, etc. are given to the students.
- Awareness regarding roof top rainwater harvesting and conservation of water
- E-waste management.
- ‘Clay Ganesh idol awareness program’.
- Cycle rally as a part of Wild Week celebration in collaboration.
- ‘Common Bird Monitoring Programme’
- Environment awareness programme (Ban on use of Plastic bags, Clay Ganesh idol, Cycle Rally etc.)
- Wild life week celebration.
- Nature Camp, Trekking, Adventure / Biological excursion

7.5 Whether environmental audit was conducted? Yes ☒ ☐

7.6 Any other relevant information the institution wishes to add.

(for example SWOT Analysis)

- IQAC Newsletter published.
- NAAC awareness workshop on new Methodology was organised by IQAC.
- Academic Audit conducted by Parent Management as external agency
- SWOC analysis at the Departmental level,
- Guiding students for civil services and other competitive exams
- Creating awareness regarding scarcity of water/ Environmental degradation
- Extension of laboratory with museum, showcases, charts and models.
- To focus more on digital learning/ interactive boards.

Signature of the Coordinator,

Name: Dr. H. S. Lunge

Signature of the Chairperson, IQAC

Name: Dr. V. G. Thakare
