

Shri Shivaji Education Society Amravati's  
**SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR**

**DEPARTMENT OF BOTANY**

**INTERNAL ACADEMIC AUDIT**

**2019-2020**

1. Vision and Mission of the Department.

Vision- To emerge as a center of excellence in "Plant Science"

Mission- We dedicate & commit ourselves to provide education in plant science & its applications to enrich the students with resents advances in the subject "where sky is the limit".

2. A. Faculty Strength:

Faculty	Recruited	Vacant	Remarks
Regular	04	01	
CHB	02		
Adhoc	Nil		
Non-teaching	02		

B. Facultyprofile

Name	Highest Qualification	Designation	Specialization	Teaching Experience
Dr.R.N.Deshmukh	M.Phil., Ph.D.	Associate Professor	Algae & Cytogenetics	32
Dr.P.S.Tiwari	M.Phil. Ph.D.	Associate Professor	Aerobiology & Plant Tissue Culture	21
Dr.S.D.Puranik	Ph.D.	Associate Professor	Paleobotany	16

Dr.R.H.Mahakhode	Ph.D.	Assistant Professor	Cytomorphology & Cytogenetics	08
Dr.Mrs.Sharayu S.Deshmukh	Permanent	M.Sc., M.Phil., Ph.D	Asst. Prof	Taxonomy of Angiosperms

### 3. Students strength

Year	Group	Number of Students Admitted
B.Sc. Semester I	CBM	30
	CBZ	45
	CBG	23
	<b>Total</b>	<b>98</b>
B.Sc. Semester III	CBM	29
	CBZ	44
	CBG	23
	<b>Total</b>	<b>96</b>
B.Sc. Semester V	CBM	23
	CBZ	48
	CBG	19
	<b>Total</b>	<b>90</b>
M.Sc. I		
M.Sc. II		
Ph.D		
Value Added Program		

### 4. Students Performance

#### A. Result Analysis (Winter 2019 )

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
	B.Sc. Semester V	Botany	86	83	96.51

Result of EVEN Semester is not available due to COVID-19

**B. Achievements (Medals/Awards/Prizes at University level)- Nil**

Sr.No	Name of the Students	Class	Title

5. Students Progression:

- (i) Students' publication in Extra-curricular activity- **Nil**
- (ii) Students' Extension Activity- **Mushroom Cultivation Technique, Plant Tissue Culture technique, Eco-Friendly Rakhi**
- (iii) No. of Students pursuing higher course- **06 (02- Christ Univ., Bangalore + 04 RTMNU)**
- (iv) Students' participation in seminar- **Nil**
- (v) Students' Learning course through online- **B.Sc. Semester III & V in Covid-19 pandemic**

6. Faculty

I. Research Paper Publications

A. Total Number of publications:

- i) International ---RND-02; SDP-01; PST-01
- ii) National \_\_\_\_\_Nil\_\_\_\_\_

B. Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index- **Nil**

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in	Number of citations excluding self-

					the publication	citation
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C. Faculty participation in conferences/seminar/workshop and symposia:

Name of the Faculty	Title of Conference/ Seminar/ workshop Attended	Period	Level International/ National/State /University /College	Whether Presented papers	Whether abstract /paper published in Souvenir/Abstract Book
Dr. R.N. Deshmukh	1) Science and Technology: Rural Development	27 <sup>th</sup> -28 <sup>th</sup> Nov. 2019	National Conference	Yes	Yes
	2)Recent Innovation in Agri-Biosciences in Strengthening the Indian Economy: Challenges & Prospects and Farmers Meet	1 <sup>st</sup> Feb. 2020	National Conference	Yes	Yes
	3)Environment Sustainability & Teaching Tools in COVID-19 Scenario	19 <sup>th</sup> & 20 <sup>th</sup> May 2020.	2 <sup>nd</sup> International E-Conference	Yes	Yes
Dr. P.S. Tiwari	1) Science and Technology: Rural Development	27 <sup>th</sup> -28 <sup>th</sup> Nov. 2019	National Conference	Yes	Yes

Dr. S.D. Puranik	1) Recent Innovation in Agri-Biosciences in Strengthening the Indian Economy: Challenges & Prospects and Farmers Meet 2)	1 <sup>st</sup> Feb. 2020	National Conference	Yes	Yes
Dr. R.H. Mahakhode	1) Science and Technology: Rural Development 2) Solid State Chemistry and Allied Areas (Functional Materials & Life Sciences) 3) Recent Innovation in Agri-Biosciences in Strengthening the Indian Economy: Challenges & Prospects and Farmers Meet 4) Future Tech in Life Sciences 5) Environment Sustainability & Teaching Tools	27 <sup>th</sup> -28 <sup>th</sup> Nov. 2019 20 <sup>th</sup> & 21 <sup>st</sup> Dec. 2019 1 <sup>st</sup> Feb. 2020 14 <sup>th</sup> - 15 <sup>th</sup> Feb. 2020 19 <sup>th</sup> & 20 <sup>th</sup> May 2020. 1st June 2020.	National Conference National Conference National Conference International Conference 2 <sup>nd</sup> International	Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes

	in COVID-19 Scenario 6) Plant Science”		E-Conference  International E-Conference	Yes	Yes
Dr.Mrs. Sharayu S.Deshmukh	Sustainable Development and Importance of Plants in science &Technology.  Poster Presentation	National Conference On science &Technology:  Rural Development	National Science collage, Nagpur.	Yes	Yes
Dr.Mrs. Sharayu S.Deshmukh	Conservation of Wastewater Management And Their Role in Domestic Plant.  Poster Presentation	NCSCA-2019 21 dec.2019	National Conference	Yes	Yes
Dr.Mrs. Sharayu S.Deshmukh	Sustainable development of wild plant <i>Ocimum americanum</i> its uses in herbal medicine and cosmetic	Recents Innovations In Agri-Bioscience In Strengthening The Indian Economy: challenges and Prospects and Farmer Meet.  1 feb,2020	National Conference	Yes	Yes
Dr.Mrs. Sharayu S.Deshmukh	Conservation & Management of Aromatic Plants  Poster Presentation	Climate change, mangroves and sustainable management	International Conference	Yes	Yes

	online	(CCMSM2 020)			
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D. Awards to Faculty members- **Nil**

7. MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year- **Nil**

Date of MOU	Organization	Purpose/Activity	Student Participate under MOU

8. Research funds sanctioned and received from various agencies, industry and other organizations- **Nil**

Nature of the Project	Duration	Name of funding Agency	Amount Sanctioned	Amount Received

9. Books Published

Name of the Author	Book		Book Edited
	Title	ISBN and Date	Chapter

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### 10. Research Guidance by Faculty during the year- **Nil**

Name of the guide	Ph.D		
	Awarded	Submitted	Registered

### 11. Action Plan of the Department

1. To celebrate World Nature Conservation Day.
2. To plan excursion tour
3. To organize student seminars
4. To organize guest lectures
5. To organize workshop on Mushroom Cultivation
6. To conduct workshop on Plant Tissue Culture
7. To encourage the students in various curricular & Extra-curricular activities
8. To plan skill based course on mushroom Cultivation
9. To encourage staff to participate in various National & International events

### 12. Best Practices of the department

Eco-Friendly Activities (World Conservation Day, Rakhi & Dry holi celebration, Study tours etc.)

### 13. SWOT Analysis

#### **Strength**

- Qualified, Competent and Experienced Staff.
- Committed non- teaching staff.
- Disciplined and hard working students.
- Well furnished and equipped Department
- Safe and secured environment for co-education
- Democratic functioning
- Various options available with Botany subject.



- Skill based certificate course on Mushroom Cultivation
- Botanical society for students.
- Good results with distinction.
- Seminars, counseling, personality development, guest lectures and Awareness programs are regularly arranged.
- Parent-teacher interaction is encouraged
- ICT facilities available.
- Visit to scientific laboratory and excursion tours to various localities.
- Regular evaluation of students.
- Interdisciplinary activities.
- Financial support to economically weaker students.

### **Weakness**

- Average students seek admission in the subject.
- Moderate employment opportunity.
- Slow economic and industrial growth of Nagpur region.

### **Opportunity**

- Employment potential in Forest department, MIHAN, NMC Nagpur
- Training and placement cell in college.
- Student faculty exchange programme.
- Seminars, workshop, conferences, inter collegiate competition, science exhibition
- Visit to Scientific laboratories and various localities.
- Research guidance facility available to students.
- Inspire camp is regularly organized to motivate the students for basic sciences.

### **Challenges**

- Declining interest of the students in basic science subject.
- Mushrooming of professional courses.