

**Shri Shivaji Education Society Amravati's**  
**Science College, Congress Nagar, Nagpur**  
 Internal Quality Assurance Cell

**DEPARTMENT OF BOTANY**

**INTERNAL ACADEMIC AUDIT**

2018-19

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
UG	01	01	01	01
PG				
Ph. D.				
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others				
Total				

2. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)**

Name	Whether Permanent /Adhoc/ Contributor	Qualification	Designation	Specialization	No. of Years of Experience	Whether supervisor	No. of Ph.D. awarded / Submitted / Ongoing
Dr.R.N.Deshmukh	Permanent	M.Sc., M.Phil., B.Ed., Ph.D.	Asso.Prof	Algae & Cytogenetics	31	--	--
Dr.P.S.Tiwari	Permanent	M.Sc., M.Phil. Ph.D.	Asst. Prof	Aerobiology & Plant Tissue Culture	20	Yes	--
Dr.S.D.Puranik	Permanent	M.Sc., B.Ed., Ph.D.	Asst. Prof	Paleobotany	15	Yes	--
Dr.R.H.Mahakhode	Permanent	M.Sc., B.Ed., Ph.D.	Asst. Prof.	Cytomorphology & Cytogenetics	07	Yes	--

Dr.Mrs.Sharayu S.Deshmukh	Permanen t	M.Sc., M.Phil., Ph.D	Asst. Prof	Taxonomy of Angiosperms	00	No	----
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01	01
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3. No. of Guest and Visiting faculty

4. **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 published in Sovinor/Abstract Book	Whether papers published in proceeding with ISBN No if any	Whether served as experts, chairpersons or resource persons
Dr.R.N.Deshmukh	02	2018-19	Int.01; Workssop:01	Yes	Yes	--	JuryExpert
Dr.P.S.Tiwari	01	2018-19	Int.01	Yes	Yes	--	
Dr.S.D.Puranik	02	2018-19	Nat.01;Int.01	Yes	Yes	--	Chairperson
Dr.R.H.Mahakhode	02	2018-19	Int.01; Workssop:01	Yes	Yes	--	Rapporteur

5. **Innovative processes adopted by the Department in Teaching and Learning: ICT**

Nil

6. No. of faculty members involved in curriculum restructuring /revision /syllabus development as member of Board of Study/ as member of Faculty/as a participation in Curriculum Development workshop
7. Initiatives undertaken towards faculty development

Name of the Faculty	Faculty / Staff Development Programmes								
	Orientalion	Refresher	UGC – FIP	HRD program	Faculty exchange program	Staff training by university	Staff training by other institutions	Summer / Winter schools, Workshops, etc	Others
Dr.R.H.Mahakhode		Yes		Yes					

8. **Details of Administrative and Technical staff**

Name of the staff	Designation	Permanent /Temporary
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Shr. A.M. Gandhre	Lab. Attendent	Permanent
Shri. S.W.Dailkar	Lab. Attendent	Permanent
Shri. P.B.Ankalwar	Lab. Attendent	Permanent

9. **Research funds sanctioned and received from various funding agencies, industry and other organizations:**

Name of the Faculty	Major/ Minor/ Interdisciplinary/ Industry sponsored/ Any other (Specify)	Duration Year	Name of the funding Agency	Sanction Letter No /Date	Total grant sanctioned	Received	Completed/ Ongoing	Whether New Proposal Submitted
Dr.R.H. Mahakhode	Minor	2 Years	UGC	47-698\13(WRO)21May2014	275000	202500	On submission	No

10. **Details on research publications:**

Name of the Faculty	Peer Review Journals			Non-Peer Review Journals			Conference proceedings			e-Journals		
	International	National	Other	International	National	Other	International	National	Other	International	National	Other
Dr.S.D.PuraniK	Yes	---	--	--	--	--	--	--	--	--	--	--
Dr.R.H. Mahakhode	Yes	--	--	--	--	--	--	--	--	--	--	--
Dr.Mrs.Sharayu S.Deshmukh	Yes											

11. **No of research publications listed in International Database (SCOPUS / Google Scholar)**

Name of the Faculty	No of research publications in SCOPUS	No of research publications in Google Scholar	Citations	h-index	i10index
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**Details on research publications listed in International Database (SCOPUS)**

Name of the Faculty	Co-Authors	Short Title	Journal	Year of Publication	Imp. Factor	SNIP	IPP	SJR	hindex

12. Details on Impact factor of publications:

Range  Average  h-index  Nos. in SCOPUS

13. **Details of publication of Chapter in Book/ Book Edited/ Book Published by the faculty:**

Name of the Faculty	Chapter in Book	Book Edited	Book Published			Year of Publication
			Title of the Book Published	ISBN/ISSN	Publisher	
Dr.Mrs.Sharayu S.Deshmukh			A Text Book of Ecology and Environment B. Sc. Semester- I, Home science <b>Page No1-112</b>	ISBN 978-81-941893-0.5	Central Techno Publication, Nagpur <b>National</b>	2019
Dr.Mrs.Sharayu S.Deshmukh			A Text Book of Ecology and Environment B. Sc. Semester- I, Home science <b>Page No1-112</b>	ISBN 978-81-941893-4-3	Swami Publication, Nagpur <b>National</b>	2019

14. Areas of consultancy and Revenue generated through consultancy :

Areas of consultancy	Revenue generated through consultancy before the assessment period	Revenue generated through consultancy during the assessment period

15. Conferences/Seminar /workshop/Guest Lect. organized by the Department:

Sr. No	Conferences/Seminar/ workshop/Guest Lect.	International/ National / State/ University/ College Level	Title /Topic	Period	Sponsoring Agencies
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1.	Guest Lecture	College level	Translational Research in Herbals: Past to Future to Past	28/07/2017	Social Forestry Dept.
2	Guest Lecture	College level	World Nature Conservation Day	04/08/2018	College
3	Guest Lecture	College level	Landscaping	20\2\2018	College
4	Workshop	College level	Flower Arrangement	20\3\2018	College

16. No. of collaboration /linkages

17. Total budget for research for current year in lakhs:

From Funding agency  From Management of College

18. No. of research awards/ recognitions of faculty and research fellows of the institute:

Name of the Faculty	Details of the awards/ recognitions	International / National / State / University/ Dist/ College Level	Year
Dr.R.N.Deshmukh	Distinguished Researcher Award	International	2018

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

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

JRF  SRF  other Project Fellows  Any

21. Details of increase in infrastructure facilities:

Facilities	Existing		Newly purchased		Source of Fund	Total
	No	Value of the equipment (Rs. in Lakhs)	No	Value of the equipment purchased (Rs. in Lakhs)		
No. of important equipments (cost <1 lakh)						

No. of important equipments (cost $\geq$ 1 lakh)					
Others					

**List attached (Existing)**

**DEPARTMENT OF BOTANY**

**List of Major Equipments**

Sr.no	Name of the Equipment	Date & year of Purchase	Qty.	Cost	Stock Register No. & Page No.
<b>Cosip Grant</b>					
1	Mono-ocular Research Microscope	17.11.84	1	1950=00	Cosip 1/ 47
2	Stereoscopic Binocular Microscope	26.0285	1	2035/-	Cosip 1/ 115
<b>Under College Grant</b>					
1	Tromoscope (ProjectionMicroscope)	24.11.99	1	17500/-	6C/169
2	Centrifuge	22.3,2001	1	8274/-	6C/ 109
3	P <sup>H</sup> Meter	27.3.2001	1	5937/-	6C/ 121
4	Colorimeter	30.12.2003	1	8866/-	6C/ 261
5	Camera Lucida	1990-91	1	420/-	6C/ 79
6	Magnetic Stirrer	29.9.98	1	2808/-	UGC 12c/59
7	Chromatography Chamber	28.1.2002	1	4200/-	6C/ 211
8	T. L.C. Apparatus	31.3.2003	1	2475/-	6C/ 199
9	E lectrophoresis Apparatus	31.3.2004	1	9130/-	6C/ 253
10.	C omputer	23.10.2008	1	27950/-	6C/ 187
11.	Scanner	24.3.2003	1	3950/-	6C/ 249
12.	Printer	24.9.2008	1	7800/-	6C/ 241
13.	Slide projector	28.2.2009	1	10080/-	6C/ 223

14.	Overhead projector	28.1.2002.	1	9000/-	6C/ 127
<b>Under CPE Grant</b>					
1	Laminar Air Flow	3.12.2009	1	89944/-	1A/31
2	Incubator	15.10.2009	1	19631/-	1A/23
3	Autoclave	30.10..2009	1	45169/-	1A/27
4	Analytical Balance (Electronic)	23.10.2009	1	50625/-	1A/07
5	Research Microscope	20.10.2009	2	8800 /-	1A/15
6	LCD projector	21.10.2009	1	38813/-	1A/02
7	Laptop	21.10.2009	1	27950/-	1A/45
8	Water quality analyzer	29.12.2009	1	44460/-	1A/35
<b>Under MRP</b>					
1	Trinocular microscope with CCD camera	20.1.2011	2	83,250/-	12c/91,95 12c/111,115
2	Soxhlet apparatus eating mantle	12.12.2010	1 2	750/- 3318/-	12c/119 12c/123
3	Digital camera	10.09.2012	1	14990/-	12C/131
		11.09.2012	1	17600/-	12C/135
4	Refrigerator	17.10.2014	1	11900/-	12C/137
5	Laptop	31.07.2010 19.04.2012 17.10.2014	1 1 1	38750/- 33860/- 34990/-	12C/107 12C/127 12C/139
6	Double Distillation Unit	14.01.15	1	48,000/-	12C143
7	pH Meter	30.03.15	1	5225/-	12C/147

22. Total Number of students

UG	PG	Ph. D.	Others
330			



23. No. of students qualified in these examinations

NET  IAS/IPS etc.  SET/ SLET  State PSC  GATE  UPSC  CAT  Others

24. Faculty as members in a) National committees b) International Committees c) Editorial

Name of the Faculty	Whether members in National committees if yes, give details with period	Whether members in International Committees if yes, give details with period	Whether members in Editorial Boards if yes, give details with period	Whether served as experts, chairpersons or resource persons if yes, give details with period
Dr. R.N.Deshmukh	Life member Botanique, ISCA	Life member IJRBAT	Advisory Board, ICMAM- 2018 organized by Kamala Nehru College, Nagpur	Jury, Co-Cnvener ICRTS-17 Judge
Dr P.S.Tiwari	Life member Botanique, IWSA, ISCA	Life member Japanese Journal of Breeding, IJRBAT	Executive editor Souvenir-2017	Co-Convener ICRTS-2017
Dr.S.D.Puranik	Life member Botanique, IWSA, Friends Internatioal	Life member Gondwana Magzine	Member Editorial board Botanique	Chair person ICRTS-2017 08-09-18
Dr.R.H.Mahakhode	Life member Botanique, IWSA, ISCA	Life member IJRBAT	Member Editorial board IJRBAT	Repporters ICRTS 2017

25. Student projects: yes

26. Awards / Recognitions received by faculty and students:

Name of the Faculty/ students	Details of the awards/ recognitions	International / National / State / University/ Dist/ College Level	Year
Ku.Sakshi Dubey & Ku.Sonali Saonerkar	1 <sup>st</sup> Prize in Intercollegiate Poster competition	College Level	5 <sup>th</sup> March 2018

27. List of eminent academicians and scientists / visitors to the department.

Sr No	Name	Field	Address	Date of visit
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1.	Dr. Prakash R. Itankar	Pharmaceutical Sciences	RTMNU, Nagpur	04/08/18
2	Mr. Abhimanyu Dongarwar	Mushroom Consultancy	SKY Mushrooms	22/09/2018.

28. Student progression

Student progression	Against % enrolled
UG to PG	36%
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed <ul style="list-style-type: none"> <li>• Campus selection</li> <li>• Other than campus recruitment</li> </ul>	2%
Entrepreneurship/Self-employment	

29. Details on student enrichment programs (special lectures/workshops/seminar) with external experts:

Title/ Topic of the Program	Whether lectures/ workshops/seminar /other	Name of the external experts	Details of the external experts	Period of Program
Landscaping	Lecture	Mr. Amit Pophali	Landscape Designer	2hrs(20\02\2018)
Floriculture	Workshop	Mrs. Anuja Parchure		6hrs(20\02\2018)

30. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Name of the Faculty/	Details of Participation in Cocurricular activities	Details of Participation in Extra curricular activities	Details of Participation in Extension activities including Institutional Social Responsibility (ISR)	Details with dates and period
Dr. R.N.Deshmukh		Unnat Bharat Abhiyan, Govt. of India	Helping society through Out reach Program Joy of giving	Session 2018-19
Dr P.S.Tiwari	Herbal Cosmatic workshop in association with Somalwar Nikalas Mahila Maha. , Nagpur	Swachch Bharat Abhiyan, Govt. of India	Helping society through Out reach Program Joy of giving	Session 2018-19

Dr.S.D.Puranik	Carrier Guidance Programme		Helping society through Out reach Program Joy of giving	Session 2018-19
Dr.R.H.Manakhode	Workshop on Organic farming, Aqua Park, Nagpur		Helping society through Out reach Program Joy of giving	Session 2018-19

31. List of Alumni of the Departments:

Name	Address	Profession	Email	Mobile No	Date of Birth	Qualification	Passout year	Achievements

**List Attached**

Alumni of the Department

- 1) Mr. Bhave – Pharmaceutical distributor
- 2) Mr. Parate- Lecturer in Dharampeth Jr. College, Nagpur.
- 3) Mr. Dixit – Former H.O.D. of Botany, Vidya-Bharati, Amravati
- 4) Mr. Saraf – Auto bulb manufacturer
- 5) Mr. Narke – C. A. Director of Finance ECL
- 6) Mr. Kholkute – Veterinary Officer
- 7) Nagasarkar – Jr. College Teacher, Dinanath Jr. College, Nagpur
- 8) Dr. Sakundarwar–Former HOD, Deptt, of Botany, Science College, Nagpur
- 9) Dr. M. C. Kale – Lecturer in Anand Niketan College, Warora
- 10) Dr. R. D. Makde – Scientist- C SSPD, BARC, Mumbai
- 11) Dr. (Mrs) Rajurkar – Lecturer, DMLT, Datta Meghe College, Nagpur
- 12) Dr. (Mrs) Sushma Pankule –Lecturer, DMLT Datta Meghe College, Nagpur
- 13) Mrs. Shubhangi Patey – Lecturer in J.M. Patel College, Bhandara 14) Abha Chalpe – Research Fellow, South Dekota, U.S.A.
- 15) Shri. Dilip Chinchamalature- Environmentlist
- 16) Mr. Shyam Ghosal- Former DFO, Chandrapur

- 17) Mr. Nagdeote, Former DFO Nagpur Div.Nagpur
- 18) Mr. Prakash Bokhad, Former Commissioner,NMC, Nagpur.
- 19) Mr. Vilas Doifode- Lecturer, Bhalerao Sci. College, Saoner
- 20) Dr. S. I. Ghugal- Lecturer, Shiwaji Science College, Pauni
- 21) Miss. Suprita Dogra Lieutenant in Indian Army.
- 22) Miss. Ketaki Agasthi selected in Indian Army
- 23) Mr. A.Joshi Manager, Kotak Mahindra, Mumbai
- 24) Mr. Sumeet Benegal Nutrition Officer in Nestle.
- 25) Mr.Bhushan Borkar Nutrition Officer in Nestle.
- 26) Mr. Bhushan Gomashe
- 27) Mr. Rushikesh Pimpapkar Geologist, Deccan Gold Mine, Bangluru.
- 28) Mr. Bhushan Borkar, Area Manager, Nestle, Nagpur division.
- 29) Ms. Rashmi Gohane, Lecturer, Hislop College, Nagpur.
- 30) Ms. Neha Deoras, Special Correspondent, Economic Times, Mumbai
- 31) Ms Tejaswini Panchbhai, Sr. Air Hostess, Maskat Airlines
- 32) Ms. Sayali Tembhurne- Scientist B, CGWB, Jaipur
- 33) Mr. Abhinil Parihar- MR, Unique J.B. Chemicals
- 34) Mr. Rushabh Bhardbhunje- CCA, Tech- Mahindra, Mumbai
- 36) Ms. Uttakarsha Meshram- Crew Member, Indian Airlines, New Delhi
- 37) Ms.Sakshi Santoshi, Customer Assist.Staff, Indigo airlines Hyderabad

32. Major grievances of students (if any) redressed: Nil
33. Any other information: Three students selected for M.Sc. Program at Christ Deemed Univ. Bangaluru
34. SWOC analysis of the department

### **Strength**

- Qualified, Competent and Experienced Staff.
- Recognized Laboratory for higher Learning and research
- Encouraging Principal and Management ■ 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.
- Self Financed courses on plant Tissue Culture ■ 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.
- Remedial teaching is provided to slow learners ■ ■ Financial support to economically weaker students.
- Skill based Certificate Course On Mushroom cultivation.

### **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.

## **36. Future plans:**

Future Plan for the year 2019-2020

- ❖ To organize one day workshop on Herbal cosmetics and Herbal textile colors.

- ❖ To celebrate world nature conservation day.
- ❖ To organize intercollegiate training on Protoplast Culture.
- ❖ To continue the project of Soilless Roof Top farming and Hydroponics. ❖ To plan for Button Mushroom Cultivation



Yours sincerely

**Prof. R. N. Deshmukh**

HEAD  
DEPARTMENT OF BOTANY  
SHRI SHIVAJI EDUCATION SOCIETY  
AMRAVATI'S SCIENCE COLLEGE  
CONGRESS NAGAR, NAGPUR

