# S.S.E.S.AMT'S SCIENCE COLLEGE, NAGPUR

## Information to be submitted by Head of the Department for Internal Academic Audit

Name of the Department: Botany

Period of assessment: Session: 2017-18

#### 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	Nil	03	Nil
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/ Contribut	Qualification	Designatio n	Specialization	No. of Years of Experience	Whether supervisor	No. of Ph.D. awarded / Submitted / Ongoing
Dr.R.N.Deshmukh		M.Sc., M.Phil, B.Ed., Ph.D.	Asso.Prof	Algae & Cytogenetics	30		
Dr.P.S.Tiwari	Permanent	M.Sc., M.Phil. Ph.D.	Asst. Prof	Aerobiology & Plant Tissue Culture	19	Yes	
Dr.S.D.Puranik	Permanent	M.Sc., B.Ed., Ph.D.	Asst. Prof	Paleobotany	14	Yes	
Dr.R.H.Mahakhode	Permanent	M.Sc., B.Ed., Ph.D.	Asst. Prof.	Cytomorphology & Cytogenetics	06	Yes	
Dr.Sharada K.Ulhe	СНВ	M.Sc., M.Phil, Ph.D	СНВ	Taxonomy of Angiosperms	06	No	

3.	No. of Guest and	Visiting faculty	01		01
			0 -	ı	1 0 -

4. Faculty participation in conferences/seminar/workshop and symposia:

Name of the Faculty	Title of	Period	Level	Whether		Whether	Whether
	Conferenc e/		International/ National/State	Presented papers	Whether abstract	papers published	served as
	Seminar/		/University	pupers	published in Sovinor/Abs	in proceeding	experts, chairpersons
	workshop Attended		/College		tract Book	with ISBN	or resource
	Attended					No if any	persons
Dr.R.N.Deshmukh	04	2017-18	Nat.03; Int.01	Yes	Yes	No	Jury
Dr.P.S.Tiwari	04	2017-18	Nat.02;Int.02	Yes	Yes	No	No
Dr.S.D.Puranik	06	2017-18	Nat.04;Int.02	Yes	Yes	No	Chairperson
Dr.R.H.Mahakhode	06	2017-18	Nat.04;Int.01	Yes	Yes	No	Rapporteur

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

		Faculty / Staff Development Programmes								
Name of the Faculty	Orienta tion	Refre sher	UGC – FIP	HRD progr am	Faculty exchange program	Staff training by universi ty	Staff training by other institutio ns	Summer / Winter schools, Worksh ops, etc	Others	
Dr.R.H. Mahakhode		Yes		Yes						

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

Name of the staff	Designation	Permanent /Temporary
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	d received from	various fundi	no agencies	industry and	d other organizations:
<i>)</i> .	ixescaren funus	sanctioned and	i icccivcu iioii	various runun	ng ageneres,	industry am	a other organizations.

Name of the Faculty	Major/ Minor/			Sanction			Completed	Whether
	Interdisciplinary		Name	Letter No			/ Ongoing	New
	Industry	Duration	of the	/Date	Total grant	Received		Proposal
	sponsored/	Year	funding		sanctioned			Submitted
	Any other		Agency					
	(Specify)							
Dr.R.H.Mahakhode	Minor	2 years	UGC	47-698/13	275000/-	202500/-	On	No
				(WRO) 21			submission	
				May 2014				

## 10. Details on research publications:

Name of the Faculty	Peer Review Journals		Non-Peer Review		Conference		e-Journals		e-Journals			
			Journals		proceedings							
	Inter	Nati	Other	Intern	Nati	Other	Inter	Nati	Other	Inter	Nati	Other
	natio	onal		ational	onal		natio	onal		natio	onal	
	nal						nal			nal		
Dr.R.H.Mahakhode	Yes											
Dr.S.D.Puranik	Yes											
Dr.S.K.Ulhe	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 <b>Google Scholar</b>	Citations	h-index	i10-index

#### 12. 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	h- index

13.	Details on	Impact facto	or of publ	lications:
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Range	Ave	erage	h-index	Nos. in SC	OPUS
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## 14. Details of publication of Chapter in Book/ Book Edited/ Book Published by the faculty:

Name of the Faculty	Chapter in Book	Book Edited		Year of Publication		
			Title of the Book Published	ISBN/ISSN	Publisher	

Areas of consult	ancy		consultancy before the assessment   co			consultancy dur period	C	ment	
15. Areas of consulta	ancy and Rev	renue genera	ted thro	ough con	ısultaı	ncy:			
16. Conferences/Sen	ninar /worksh	op/Guest Le	ect. orga	anized b	y the	Depart	tment:		
	es/Seminar/ Guest Lect.	Internation State/ Univ	ersity/	ional /	Title	e /Topi	С	Period	Sponsoring Agencies
17 No of collaborat	ion /linko oog								
17. No. of collaborat									
18. Total budget for	research for o	current year	in lakhs	s:		_			
From Funding ag	gency	From	Manage	ement of	Colle	ege			
19. No. of research a	wards/ recog	nitions of fa	culty a	nd resear	rch fe	llows o	of the institute:		
Name of the Faculty	Details of the recognition						ational / State /	Year	
Dr. R.N.Deshmukh	Distinguis Award	hed Researc	her	Inte	International 2			2017	
Dr.S.K.Ulhe	T.R.Sahu	Award		Inte	rnatio	onal		2017	
20. No. of Ph.D. awa	·	-							
21. No. of Research	scholars rece	iving the Fe	llowshi	ps (New	ly enr	olled -	+ existing ones)		
JRF	SRF		Proje	ect Fello	ws		Any other		
22. Details of increase	se in infrastru	cture facilit	ies:						
			Е	xisting		Ne	wly purchased	Source of Fund	Total
Fac	ilities		No	Value the equipm	ent	No	Value of the equipment purchased (Rs.		

Lakhs)

No. of important equipments (cost <1 lakh)  No. of important equipments (cost ≥ 1 lakh)			
Others			

# List attached (Existing)

## **DEPARTMENT OF BOTANY**

## **List of Major Equipments**

Sr.no	Name of the Equipment	Date &year of		Cost	Stock Register No. 8
		Purchase	Qty.		Page No.
		Cosip Grant			
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
		Under College Gra	ant		
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
		Under CPE Grant			
1	Laminar Air Flow	3.12.2009	1	89944/-	1A/31

2	Incubator	15.10.2009	1	19631/-	1A/23
3	Autoclave	30.102009	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
		Under MRP			
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	750/-	12c/119
			2	3318/-	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	1	38750/-	12C/107
		19.04.2012	1	33860/-	12C/127
		17.10.2014	1	34990/-	12C/139
6	Double Distillation Unit	14.01.15	1	48,000/-	12C143
7	pH Meter	30.03.15	1	5225/-	12C/147

23.	Total	Num	ber of	student	ts

UG	PG	Ph. D.	Others
330			

24. No. of students qualified in these examination
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NET		SET/SLET	G	ATE	C	AT	
IAS/IPS e	etc	State F	PSC	UPSC		Others	

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

Name of the	Whether members	Whether members in	Whether	Whether served as
Faculty	in National	International	members in	experts,
	committees if yes,	Committees if yes,	Editorial	chairpersons or
	give details with	give details with	Boards if yes,	resource persons if
	period	period	give details with	yes, give details
			period	with period
Dr. R.N.Deshmukh	Life member	Life member IJRBAT		Jury, Co-Convener
	Botanique			ICRTS-17
Dr P.S.Tiwari	Life member	Life member Japanese	Executive editor	Co-Convener
	Botanique	Journal of Breeding	Souvenir-2017	ICRTS-2017
Dr.S.D.Puranik	Life member	Life member	Member	Chairperson
	Botanique	Gondwana Magzine	Editorial board-	ICRTS-2017
			Botanique	
Dr.R.H.Manakhode	Life member	Life member IJRBAT		Rapporteur ICRTS-
	Botanique			2017

## 26. Student projects: yes

## 27. Awards / Recognitions received by faculty and students:

Name of the	Details of the awards/	International / National / State /	Year
Faculty/	recognitions	University/ Dist/ College Level	
students			

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

Sr No	Name	Field	Address	Date of visit
1.	Jing Tian	Member, APQN	China	24/3/18
2	Huang baoyin	Member	China	24/3/18
3	Li Hongyan	Member	Chiana	24/3/18

## 29. Student progression

Student progression	Against % enrolled	
UG to PG	11%	
PG to M.Phil.		
PG to Ph.D.		
Ph.D. to Post-Doctoral		
Employed		
<ul> <li>Campus selection</li> </ul>		
<ul> <li>Other than campus recruitment</li> </ul>		
Entrepreneurship/Self-employment		

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

Title/Topic of the	Whether lectures/	Name of the	Details of the	Period of Program
Program	workshops/seminar	external experts	external experts	
	/other			
Land scaping	Lectuer	Mr.Amit Pophali	Landscape designer	2hrs.(20/2/2018)
Floriculture	workshop	Mrs. Anuja	Flower management	6hrs.(20/3/2018)
	_	parchure		

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

Name of the Faculty/	Details of Participation in Co- curricular 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	Science	Yuva Mahotsava	Helping society through	Session 2017-18
	Exhibition,		Out reach Program	Jan -18 n Oct17
	INSPIRE		Joy of giving	
Dr P.S.Tiwari	Science	Yuva Mahotsava	Helping society through	Session 2017-18
	Exhibition		Out reach Program	Jan -18 n Oct17
	INSPIRE		Joy of giving	
Dr.S.D.Puranik	Science	Yuva Mahotsava	Helping society through	Session 2017-18
	Exhibition		Out reach Program	Jan -18 n Oct17
	INSPIRE		Joy of giving	
Dr.R.H.Manakhode	Science	Yuva Mahotsava	Helping society through	Session 2017-18
	Exhibition		Out reach Program	Jan -18 n Oct17
	INSPIRE		Joy of giving	

#### 32. 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 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 Veternary Officer
- 7) Nagasarkar Jr. College Teacher, Dinanath Jr. College, Nagpur
- 8) Dr. Sakundarwar–Reader, 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 Chinchamalatpure- 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
- 33. Major grievances of students (if any) redressed: Nil
- 34. Any other information: Three students selected for M.Sc. Program at Christ Deemed Univ. Bangaluru
- 35. 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 Floriculture and Landscaping, Mushroom Cultivation & plant Tissue Culture
- 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.

#### 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 2018-2019

- ❖ To organize one day workshop on Herbal cosmetics and Herbal textile colors.
- ❖ To celebrate world nature conservation day.

**	To continue the project of Soilless Roof Top farming and Hydroponics.
*	To plan for Button Mushroom Cultivation

❖ To organize intercollegiate training on Protoplast Culture.

Date	Signature
	Head
	Department of