

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

## Information to be submitted by Head of the Department

### Internal Academic Audit Session 2018-19

#### Department of Biotechnology

Period of assessment: First Term (June 15, 2018 to January 5, 2019)

#### 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	Nil	Nil
PG	Nil	Nil	Nil	Nil
Ph. D.	Nil	Nil	Nil	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	Nil	01	Nil	Nil
Others	Nil	Nil	Nil	Nil
Total	01	01	Nil	Nil
Interdisciplinary	Nil	Nil	Nil	Nil
Innovative	Nil	Nil	Nil	Nil



6. Faculty participation in conferences/seminar/workshop and symposia during the assessment period:

Name of the Faculty	Title of Conference/ Seminar/ workshop Attended	Period	Level International/ National/State /University /College	Whether Presented papers	Whether abstract published in Sovonor/ Abstract Book	Whether papers published in proceeding with ISBN No if any	Whether served as expert/ chairperson or resource person
Ms.D.Deepthi Hynal	Advances in Western Blotting Technique		College level in collaboration with Himedia company	No	No	No	No
Ms.Shital Khedkar	Advances in Western Blotting Technique		College level in collaboration with Himedia company	No	No	No	No
Ms. Raksha Pandit	Advances in Western Blotting Technique		College level in collaboration with Himedia company	No	No	No	No
Ms. Daminee Raut	Advances in Western Blotting Technique		College level in collaboration with Himedia company	No	No	No	No

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

8. Plan of Action for Academic Achievement and Outcomes

Plan of Action	Outcomes
To achieve Excellent result.	Achieved Excellent Result.

9. Innovative processes adopted by the Department in Teaching and Learning:

In addition to routine method we use LCD projector, You-tube lectures of Scientists on new topics and update the students.

10. No. of faculty members involved in curriculum restructuring /revision /syllabus development before and during the assessment period Nil

11. Before /During the assessment period  
as member of Board of Study

Nil

Nil

/ as member of Faculty/

Nil

Nil

as a participation in Curriculum Development workshop

Nil

Nil

12 Initiatives undertaken towards faculty development before and during assessment period (A.P.) : Nil

Name of the Faculty		Faculty / Staff Development Programmes								
		Orie ntati on	Refr eshe r	UG C - FIP	HR D prog ram	Faculty exchan ge progra m	Staff trainin g by univer sity	Staff trainin g by other institut ions	Sum mer/ Winter school s. Works hops, etc	Other
	Before A.P.									
	During A.P.									

13. Details of Administrative and Technical staff

Name of the staff	Designation	Permanent /Temporary
Mr. P.R.Thool	Attendant	Temporary



18. Details on Impact factor of publications: Nil

Range  Average  h-index  Nos. in SCOPUS

19. Details of publication of Chapter in Book/ Book Edited/ Book Published by the faculty till the assessment period.: Nil

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

20. Areas of consultancy and Revenue generated through consultancy before and during the assessment period: Nil.

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

21. Conferences/Seminar /workshop/Guest Lect. organized by the Department till the assessment period.

Sr. No	Conferences/Seminar/ workshop/Guest Lect.	International/ National / State/ University/ College Level	Title /Topic	Period	Sponsoring Agencies
1.	Workshop on Intellectual Property	National Level	Intellectual Property Rights	12 <sup>th</sup> October 2018	Rajiv Gandhi National Institute of Intellectual Property management, Civil Lines, Nagpur

22. No. of collaborations before and after the Assessment Period (A.P.):

International		National		Any other	
Before A. P.	During A.P.	Before A. P.	During A.P.	Before A. P.	During A.P.
Nil	Nil	Nil	Nil	Nil	01

23. No. of linkages created before and after the Assessment Period.

24. Total budget for research for current year in lakhs

From Funding agency: Nil

From Management of College: Nil

25. No. of research awards/ recognitions of faculty and research fellows of the institute till the assement period.: Nil

Name of the Faculty	Details of the awards/ recognitions	International / National / State / University/ Dist/ College Level	Year
Ms Daminee Raut	CSIR-UGC NET	National level	2017

26. No. of Ph.D. awarded by faculty from the Institution during the assessment period

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

Nil

JRF

SRF

Project Fellows

Any other

28. Details of increase in infrastructure facilities till the assement period (A.P.):

Facilities	Existing		Newly purchased during A.P.		Source of Fund	Total
	No	Value of the equipment (Rs. in Lakhs)	No	Value of the equipment purchased (Rs. in Lakhs)		
		25,34,414=00		Nil	College	25,34,414=00

29. Total Number of students during assessment period

UG	PG	Ph. D.	Others
247	-	-	-

30. Student -Teacher Ratio (programme wise):

31. No. of students qualified in these examinations till the assessment period.

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

03 Qualified JNU exam

NET and GATE qualified candidate V.Janani (Passout 2013 batch)

JNU qualified candidate Hitakshi Nagbhidkar, Yash Malke and Rutuja Agarkar (Passout 2018)

32. Faculty as members in a) National committees b) International Committees c) Editorial Boards till the assessment period (A.P.): Nil

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

33. Student projects : Nil

a) Percentage of students who have done in-house projects including inter departmental/program : Nil

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: Nil



34. Awards / Recognitions received by faculty and students till the assessment period:

Name of the Faculty/ students	Details of the awards/ recognitions	International / National / State / University/ Dist/ College Level	Year
Ms Prerna Yesankar	DBT-JRF ARS-NET	National Level	2016

35. List of eminent academicians and scientists / visitors to the department till the assement period.

Sr No	Name	Field	Address	Date of visit
1	Alka Dhondge	Teaching, Associate Professor	L.A.D College Shankar Nagar, Nagpur	5 <sup>th</sup> March 2016
2	Devrat Begde	Teaching Associate Professor	Dr.Ambedkar College, Nagpur	8 <sup>th</sup> July2016
3	Rahul Meshram	Teaching Associate Professor	Sindhu Mahavidyalaya Panchapaoli, Nagpur.	24 <sup>th</sup> and 25 <sup>th</sup> June 2017
4	Sarita Mowade	Scientist	M.I.D.C, Nagpur	7 <sup>th</sup> and 8 <sup>th</sup> October 2016
5	Dr.N.V.Khubalkar	Teaching Associate Professor	C-202, Alaknanda Apartment, 100-Shivaji Nagar, Nagpur	3 <sup>rd</sup> and 4 <sup>th</sup> May 2018
6	Dr. R.K.Chahande	Teaching Associate Professor	Porwal college Kamptee	9 <sup>th</sup> April 2017
7	Dr. V. N Charde	Teaching Associate Professor	Taywade College Koradi	29 <sup>th</sup> & 30 <sup>th</sup> March 2017
8	Ms.Sneha Jaiswal	Teaching Associate Professor	D.B Science College, Gondia	14 <sup>th</sup> and 15 <sup>th</sup> December 2016
9	Mrs. Kiran Patil	Teaching Associate Professor	LAD College, Shankar nagar, Nagpur	15 <sup>th</sup> & 16 <sup>th</sup> July2016
10	Dr. Seema Nimbarte	Teaching Associate Professor	Sevadal Mahila College, Nagpur	6 <sup>th</sup> December 2016
11	Mr. G. N.Wagh	Teaching Associate Professor	J. B. Science of College Wardha.	13 <sup>th</sup> and 14 <sup>th</sup> February 2016
12	Mrs.Milan Nimbalkar	Teaching Associate Professor	LAD College, Shankar nagar, Nagpur	11 <sup>th</sup> & 12 <sup>th</sup> July2016
13	Dr. Mrs.Archana Kulkarni	Teaching Associate Professor	Dharampeth Science. College, Nagpur	7 <sup>th</sup> July2016
14	Dr. A. B. Ingale	Teaching Associate Professor	S. K. Porwar College, Kamptee.	1 <sup>st</sup> March 2016

36. Student profile programme/course wise:

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage (Of Previous Exam)
			Male	Female	
B.Sc.I (Sem I)	Data Not Available		19	76	Not Applicable
B.Sc.II (Sem III)	Data Not Available		09	71	73.17%
B.Sc.III (Sem V)	Data Not Available		12	63	96.00%

37. Student progression

Student progression	Against % enrolled
UG to PG	Out of 55 enrolled for U.G 16 are doing P.G (30% approx)
PG to M.Phil.	Nil
PG to Ph.D.	02 (Ms. V.Janani and Ms. Manisha Yadav)
Ph.D. to Post-Doctoral	Nil
Employed • Campus selection • Other than campus recruitment	Data Not available
Entrepreneurship/Self-employment	01 (Wasudev Mishra)

38. Details of Infrastructural facilities

Infrastructural facilities	
Library	No
Class rooms with ICT facility	No
Laboratories	4
Other	

39. Number of students receiving financial assistance from college/ university/ government/other agencies: Nil

40. 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
Basic techniques in molecular biology	Workshop			26 <sup>th</sup> -27 <sup>th</sup> September 2018

41. A) Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil

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 and period

B) Extra Curricular Activities:

- 1) Formation of Biotech Subject Society (Formal Inauguration to be held).
- 2) Trade mark Competition 10<sup>th</sup> October 2018.
- 3) Workshop on Intellectual Property Rights held on 12<sup>th</sup> October 2018.

42. List of Alumni of the Departments:

Name	Profession	Qualification	Passout year	Achievements
Neha Kawade	Pursuing Post graduation in chemistry from Fergusson College, Pune	B.Sc Biotechnology	2018	
Rasika Nachankar	Pursuing Post graduation in Environment from Fergusson College, Pune	B.Sc Biotechnology	2018	
Sanskriti Kukade	Pursuing Post graduation in Microbiology from Shivaji Science College, Nagpur	B.Sc Biotechnology	2018	
Aditi Warghade	Pursuing Post graduation in Microbiology from Campus, Nagpur	B.Sc Biotechnology	2018	
Rutuja Agarkar	Pursuing Post graduation in Medical Chemistry from Pune University	B.Sc Biotechnology	2018	Qualified JNU

Renuka Kathale	Pursuing Post graduation in Chemistry from Hislop College, Nagpur	B.Sc Biotechnology	2018	
Swanand Aundekar & Gayatri Tonpe	Pursuing Post graduation in Biotech from Rajiv Gandhi Institute of IT & Biotechnology	B.Sc Biotechnology	2018	
Pooja Kewlani	Pursuing Post graduation in Microbiology from VIT, Vellore	B.Sc Biotechnology	2018	
Avantika Sisodiya	Pursuing Post graduation in MBA from MIT, Pune	B.Sc Biotechnology	2018	
Rounak Thakur & Yajurved Selokar	Pursuing Post graduation in Microbiology from MKU, Madurai	B.Sc Biotechnology	2018	
Hitakshi Nagbhidkar	Pursuing Post graduation from Hyderabad University	B.Sc Biotechnology	2018	Qualified JNU
Manali Polasi & Kunika Ninave	Pursuing Post graduation from Ambedkar College, Nagpur	B.Sc Biotechnology	2018	
Yash Malke	Pursuing Post graduation from Baroda University, Gujarat	B.Sc Biotechnology	2018	Qualified JNU

43. Major grievances of students (if any) redressed: Nil

44. Any other information: 01 MoU was signed between Biotechnology Department of Shivaji Science college and Department Business Administration of DNC college.

45. SWOC analysis of the department

**STRENGTH:-**

- Well equipped UG laboratories.
- Enriched departmental library.
- Internet facility available.
- Qualified and hard working faculty.
- Committed and obliging non-teaching staff.
- Brilliant, obedient, disciplined students.
- Safe and secured environment for Co-education.
- Democratic functioning respected.
- Good performance of students in university examination.
- Responses by students in co curricular and extra curricular activities are good.
- Teachers Students interaction is encouraging.
- Mentoring is practiced.

**Weakness:-**

- Less percentage of campus recruitment.
- Percentage of Students pursuing higher education is less (probable reason may be high % of female students).

### Opportunities:-

- Remedial teaching is provided to desirous students.
- Employment potential in Hub-MIHAN, Nagpur.
- Training and placement cell in college.
- Students faculty exchange programme.

### Challenges:-

- Mushrooming of Professional Engineering Colleges.
  - Private tuition classes.
- Students are losing Interest in Basic sciences because of less employment opportunity.

### 46. Future plans:

- 1) Guest Lect. By Dr. Sarita Mowade on Designing Fermenter.
- 2) Guest Lect. By Prerna Yesankar on career Guidance.
- 3) Various Competition will be held under IP cell.

Date: 16/10/2018



*Mrs M.J. Madhugiri*

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