

Shri. Shivaji Education Society, Amravati's
Science College, Nagpur

Internal Academic Audit 2019-20

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

Department: Microbiology

Period of assessment: Session: 2019-20

CRITERION I – CURRICULAR ASPECTS

1.1 Certificate/ Diploma Courses introduced during the Academic year

Name of the Certificate Course	Name of the Diploma Courses	Date of introduction and duration	Focus on employability/ entrepreneurship	Skill development
Biofertilizer and Biopesticide Production	Biofertilizer and Biopesticide Production	2019	Yes	Yes

1.2. New programmes/courses introduced during the Academic year

Programme with Code	Date of Introduction	Course with Code	Date of Introduction

1.3 Students enrolled in Certificate/ Diploma Courses introduced during the year

No of Students	Certificate	Diploma Courses
	Biofertilizer and Biopesticide Production	Biofertilizer and Biopesticide Production

1.4 Value-added courses imparting transferable and life skills offered during the year

Value added courses	Date of introduction	Number of students enrolled
-	-	-

1.5 Field Projects / Internships under taken during the year

Project/Programme Title	No. of students enrolled for Field Projects / Internships

CRITERION II -TEACHING-LEARNING AND EVALUATION

2.1. Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the subject (UG)	Number of students enrolled in the subject (PG)	Number of full time teachers available in the department teaching only UG courses	Number of full time teachers available in the department teaching only PG courses	Number of teachers teaching both UG and PG courses
B.Sc. I	158		05	03	-
B.Sc. II	146				
B.Sc. III	143				
M.Sc. I		22			
M.Sc.II		21			

2.2 No of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of teachers on roll	Number of teachers using ICT (<i>LMS, e-Resources</i>)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
14 (1 Permanent + 8 Adhoc + 5 CHB)	14	Projector	01	-	You tube videos, Power Point Presentation, Online Science Magazines and Journals
		LED TV			

2.3 Students mentoring system available in the Department?

Number of students enrolled in the Department	Number of fulltime teachers	Mentor: Mentee Ratio
480	09	1:53

2.4. Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
03	01	02	-	-

2.5 Honours and recognitions received by teachers (*received awards, recognition, fellowships at State, National, International level from Government, recognized bodies during the year*)

Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies

2.6 Pass percentage of students

Program me Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final semester year examination	Pass Percentage
	B.Sc.	133	127	95.48
	M.Sc.	22	22	100%

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1. Research funds sanctioned and received from various agencies, industry and other Organizations

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the Academic year
Major projects				
Minor Projects				
Interdisciplinary Projects				
Industry sponsored Projects				
Projects sponsored by the University/ College				
Students Research Projects <i>(other than compulsory by the College)</i>				
International Projects				
Any other(Specify)				
Total				

3.2 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of Workshop/Seminar	Date(s)

3.3 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the Year

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
				-

3.4 No of teachers who receive recognition/awards :

State	National	International

3.5 Ph. D.'s awarded during the year (*applicable for PG College, Research Center*)

Name of the Department	No. of Ph. Ds Awarded

3.6 Research Publications in the Journals notified on UGC website during the year

	Department	No. of Publication	Average Impact Factor, if any
National			
International	Microbiology		

3.7 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	No. of publication

3.8 Bibliometrics of the publications during the last Academic year based on Average Citation Index in Scopus/ Web of Science or Pub Med/ Indian Citation Index

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations

3.9 h-index of the Institutional Publications during the year. (Based on Scopus/ Web of science)

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication

3.10 Faculty participation in Seminars/Conferences and Symposia during the year:

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops		02		
Presented papers				
Resource Persons				

3.11 Number of extension and outreach programmes conducted in collaboration with Industry, Community and Non- Government Organizations through during the year

Title of the Activities	Organizing unit/ agency/ collaborating agency	Number of teachers coordinated such activities	Number of students participated in such activities
-	-	-	-

3.12 Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited
-	-	-	-

3.13 Students participating in extension activities with Government Organizations, Non-Government Organizations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated such activities	Number of students participated in such activities
-	-	-	-	-

3.15 Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of Activity	Participant	Source of financial support	Duration
-	-	-	-

3.16 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
-	-	-	-	-

3.5.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
-	-	-	-

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1.2 Details of augmentation in infrastructure facilities during the year		
Facilities	Existing	Newly added
Laboratories	03	-
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	-	-
Value of the equipment purchased during the year (Rs. in Lakhs)	-	-
Others	-	-

4.3.4 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/ NMEICT /any other Government initiatives & institutional (Learning Management System (LMS) etc			
Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e - content

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1.2 Number of capability enhancement and development schemes such as Remedial coaching, Bridge courses, Personal Counselling and Mentoring etc.,			
Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved

5.2.2 Student progression to higher education in percentage during the year

From UG to PG 4%

From PG to Higher Education 20%

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to

2019	04	B.Sc.	Microbiology	S.S.E.S.A's Science College, Congress Nagar, Nagpur LIT Campus.	M.Sc.
2019	01	M.Sc.	Microbiology	Nagpur	M.Sc.

5.2.3 Students qualifying in state/ national/ international level examinations during the year (e.g.: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET	Ms. Mamta Marar (June 2019)	
SET		
SLET		
GATE		
GMAT		
CAT		
GRE		
TOFEL		
Civil Services		
State Government Services		
Any Other		

5.3.2 No. of enrolled Alumni of the department:

CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1.4 Inclusion and Situatedness						
Enlist most important initiatives taken to address locational advantages and disadvantages during the year						
Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-----to-----)	Number of participants

7.1.7 Initiatives taken by the department to make the campus eco-friendly

7.2 Best Practices: Describe at least two best practices of the department

Microbiology Society Student Unit established in which 102 students from UG and PG Microbiology are enrolled.

7.3 Institutional Distinctiveness: Provide the details of the performance of the department in one area distinctive to its vision, priority and thrust

Provide the weblink of the institution in not more than 500 words

8. Future Plans of action for next academic year (500 words)

Our Future Plans

To further intensify the activities to reach every student of this department from the very First year and securing a bright future and career pathways for 100% students.

- To initiate new techniques in developing the students to face modern methods of Personality Tests and Interviews.

- To Develop, Setup & Upgrade laboratories as per the revised syllabus and recent industry trends.
- To conduct competitions like Debate, Rangoli, Agar art etc.
- To organize Workshops, Virtual Lectures and Guest lectures. etc.
- To give guidance regarding Competitive Examinations.
- To recommend the P.G. students for further studies in India and Abroad.
- To introduce the lifelong learning courses for students.
- To implement the proper use of ICT.

Signature of the Head / Coordinator of the Department

Name _____

Date: _____



Mrs InJmadhugri
HEAD
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NAGPUR.