Shri Shivaji Education Society Amravati's

# SCIENCE COLLEGE,

Congress Nagar, Nagpur

#### **DEPARTMENT OF GEOLOGY**

# <u>Annual Report</u>

# 2020-2021

#### **1.** Vision and Mission of the Department:

#### Mission

### STUDENT CENTRIC TEACHING –LEARNING PROCESS AND PERSONALITY BUILDING OF STUDENTS' FOR CAPACITY BUILDING OF THE NATION.

#### Vision

1. All inclusive, innovative, intensely involving teaching-learning process.

2. Encouragement and exposure to students for extracurricular activities.

3. Enhancement in research activity.

# 2. A. Faculty Strength:

Faculty	Recruited	Vacant	Remarks
Regular	3	-	
СНВ	-	-	
Ad-hoc	-	-	
Non-teaching	2	-	

# **B. Faculty profile:**

Name	Highest Qualification	Designation	Specialization	Teaching Experience
Dr. K. C. Shah	M.Sc., Ph.D	Associate Professor and Head	Environme ntal Geology	35 Years
Ms. P. B. Zamarkar	M.Sc., SET, PhD*	Assistant Professor and HOD	Petrography	2 years
Ms. A. D. Fuladi	M.Sc.,SET, PhD*	Assistant Professor	Hydrogeology	2 Years

# 3. Students strength:

# A. (Summer 2021)

Year	Group	Number of Students Admitted
B.Sc. Semester II	CGM	17
	CBG	26
	PCG	17
	Total	60
B.Sc. Semester IV	CGM	15
	CBG	19
	PCG	21
	Total	55
B.Sc. Semester VI	CGM	27
	CBG	37
	PCG	32
	Total	96

# **B.** (Winter 2020)

Year	Group	Number of Students Admitted
B.Sc. Semester I	CGM	17
	CBG	26

PCG	17
Total	60
CGM	15
CBG	20
PCG	21
Total	56
CGM	27
CBG	36
PCG	32
Total	95
	Total         CGM         CBG         PCG         Total         CGM         CBG         PCG         CGM         CGG         PCG

# 4. Students Performance:

# A. Result Analysis (Winter 2020) UG & PG

Programme Code	Programme Name	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG	B.Sc. III SEM V	95	95	100 %

### B. Result Analysis (Summer 2021 ) UG & PG

Programme Code	Programme Name	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG	B.Sc. III SEM V	96	96	100 %

## A. Achievements

#### A- (Medals/Awards/Prizes at University level)

Sr.No.	Name of the Students	Class	Title
1.	Lokita P. Patle	B.Sc. III (PCG)	Gold medalist

# B- Merit Position of PG Students in RTMNU (for PG Dept. only)

# **5. Students Progression:**

Year	No. of students enrolling into higher Education	Program graduated from
	UG to PG	
	PG to Research	
	Placement	
	On campus	
	Off campus	

# (i) Students' publication in Extracurricular activity

Title of the Paper	Name of Author	Title of journal	Year of publication

# (ii) Students' Extension Activity

Sr. No.	Name of Student	Participation
1.	Shreya C. Thakre	Geology Quiz competition
2.	Parul Dhakate	Online quiz examination
3.	Vedant Patwa	Online quiz examination
4.	Janhavi S. Kholkute	Career start workshop
5.	Shreya Thakre	Geology Quiz competition
6.	Bhuvan Pashine	Workshop on Fundaments of remote sensing with QGIS hands on
7.	Parul Dhakate	Poster competition on world nature conservation day
8.	Aditi Chaware	Content writing master course
9.	Aditi Chaware	The fundamentals of digital marketing

10.	Akanksha T. Lakhmapure	Online lecture series on Earth Science week 2020
11.	Anchal Khate	Online quiz on engineering Geology
12.	Aditi S. Joardar	Covid -19 awareness campaign
13.	Aditi S. Joardar	Online quiz on engineering Geology
14.	Yash Jadhav	workshop on Advances in SAR- Polarimetry and Interferometry
15.	Yash Jadhav	Online course in Geoinformatics for disaster management

# (iii) No. of Students pursuing higher course - 17

(iv) Students' participation in seminar -

## Student of M.Sc. Sem IV Physics participated in conference

Sr. No.	Name of Students	Conference type	Participation as
1.			
2.			
3.			

# (v) Students' Learning course through-on-line

The Geology Department is enrolled for the noodle centre with the ISRO/IIRS Dehradun.

# 6. Faculty

I.

# **II.** Research Paper Publications

**A.** Total Number of publications:

- i) International \_\_\_\_03\_\_\_\_
- ii) National \_\_\_\_01\_\_\_\_

# **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

Title of the Paper	Name of Author	Title of journal	Year of publicati	Citati on	Institutio nal	Number of
			on	Index	affiliation as mentione d in the publicatio n	citation s excludi ng self- citation
1.Remote Sensing and GIS Approach to the Morphological Characteristics of WRC- 1 Watershed, Chargarh River Basin, Central India.	Apurva D. Fuladi * and Manish S. Deshmukh* *	Journal Indian Geological Congress	June 2020			
2. Lithological studies of sedimentary rocks exposed at Wadi village (Jhura dome), Palanpur area, Kutch mainland, Gujarat.	Ms. Apurva D. Fuladi* Ms.Pushpa Zamarkar**	International Journal Of Science Technology And Management	April 2021			
3. The study of Quaternary sediments of the Manjra River,Near Chousala, Dist. Beed.	Ms.Pushpa Zamarkar* Ms. Apurva D. Fuladi**	International Journal Of Science Technology And Management	April 2021			
4. Short lived alkaline magmatism related to the Reunion plume in the Dewccan large igneous province: inferences from petrology, 40Ar. / 39Ar geochronology and paleomagnetism of lamprophyre from the Sarnu Dandali alkaline igneous complex.	Ashish Dongre, P. S. Dhote, P. Zamarkar, S. J. Sangode, G. Belyanin, D. C. Meshram, S. K. Patil, Aaheri Karmakar, Lokant Jain.	Geological Society, London, Special Publications	July 2021	1		

Name of the Faculty	Title of Conference/ Seminar/ workshop Attended	Period	Level Internati onal/ National/ State /Universi ty /College	Wheth er Presen ted papers	Whether abstract /paper published in Souvenir/Abstra ct Book
A. D. Fuladi* and M. S. Deshmukh**	International Conference On Emerging Technologies And Adaptation In Geotechnical Engineering (Meenakshi Sundararajan Engineering College Department Of Civil Engineering, (Managed by I.I.E.T Society) Approved By AICTE & Accredited By NBA, New Delhi Recognised By The Government Of Tamil Nadu And Affiliated To Anna University, Chennai)	8 May 2021	Internatio nal	Yes	
A. D. Fuladi	e-Training on "Application of Remote Sensing & GIS in Disaster Management" conducted by PGRS Division of GSI Training Institute, Hyderabad	23.04.2021 to 30.04.2021.	National		
A. D. Fuladi	e-training on "Refresher course on Integrated Thematic mapping in Sausar/ Sakoli Belt" conducted by RTD, CR, GSITI, Nagpur.	20.10.2020 to 26.10.2020.	National		
P. B. Zamarkar	e-training on "Basics of Structural Geology"	25-27 March 2021	National		

# **C.** Faculty participation in conferences/seminar/workshop and symposia:

P. B.	E- International Conference	23 March	Internatio	No	yes
Zamarkar	on "Queens of Era- 2021" Paper entitled "The study of	2021	nal		
	Quaternary sediments of the				
	Manjra River,Near Chousala, Dist. Beed."				
A. D. Fuladi	E- International Conference on "Queens of Era- 2021" Paper entitled "Lithological studies of sedimentary rocks exposed at Wadi village (Jhura dome), Palanpur area, Kutch mainland, Gujarat"	23 March 2021	Internatio nal	Yes	yes
A. D. Fuladi	National e-Conference on Advanced Modelling and Innovations in Water Resources Engineering (AMIWRF-2021), organised by the Department of Civil Engineering. National Institute of Technology Jamshedpur.	20-21 February 2021	National	-	-
P. B. Zamarkar	UGC sponsored online faculty induction programme.	23 Nov - 23 Dec.2020	UGC		
A. D. Fuladi	UGC sponsored online faculty induction programme.	23 Nov - 23 Dec.2020	UGC		

# **D.** Awards to Faculty members

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

Date of MOU	Organization	Purpose/Activity	Student Participate under MOU

# 8. Research funds sanctioned and received from various agencies, industry and other organizations

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

# 9. Books Published

	Book	Book Edited
Title	ISBN and Date	Chapter
-	-	-

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

		une jean	
Name of the guide	Ph.D		
	Awarded	Submitted	Registered
-	-	-	-

# 11. Alumni engagement

**a.** Contributes significantly to the development of the institution through financial and other supports

-	-	-	-

**b.** Alumni contribution during the year

# 12. Action Plan of the Department

- *1*. Regular teaching learning as per the process in force.
- 2. To make advancement in teaching-learning and research facilities while maximum utilization of already available resources.
- 3. Conduct of add-on courses in Groundwater exploration.
- 4. Constitution of the executive body and editorial board of the Geological Society of the department and Geological Wall Magazine, respectively. Encouraging and guiding students to take up various activities and exams.
- 5. To take up
  - Research work for a research degree.
  - · Publications
  - · Research Projects
- 6. To attend conferences, seminars And workshops.
- 7. To organize Guest Lectures, Field Tours, Organizational Visits and Extension Activity.

# **13. Best Practices of the department**

- Students Counseling
- Involve students in high density reading and writing instruction
- Demonstrate instructional balance in learning
- Teacher Parents meeting
- · Involvement in extracurricular activity

# 14. SWOT Analysis

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Strength	<ul> <li>Infrastructure</li> <li>Projector</li> <li>Audio-visual</li> <li>Advanced Equipments Geochemical Lab and Instruments</li> </ul>		
Weakness	M.Sc. Research Centre, Offline Classes		
Opportunity	Research		
Threat	Increasing competition, Changing Government Policy and acceptance Pandemic threat		

# **15. Student Progression**

Following number of students qualified IIT-JAM / M.Sc. entrance and enrolled for higher courses :

# IIT JAM qualified students: 05

- 1. Vaishnavi M. Raut- IIT JAM (795 rank)
- 2. Mohit Shivane (898)
- 3. Namisha Badwaik (793)
- 4. Gitika Deshmukh
- 5. Sherya C. Kothare

Year	No. of students enrolling into higher education	Programme graduated from	Name of Institution joined	Name of programme admitted to
2020-21	01	B.Sc	Geology Department, NIT ROURKELA	M.Sc.
2020-21	01	B.Sc	Geology Department, NIT Durgapur	M.Sc.
2020-21	01	B.Sc	Geology Department, IIT BHUBANESHWAR	M.Sc.
2020-21	01	B.Sc	Geology Department, IIT ISM DHANBAD	M.Sc.

Year	No. of students enrolling into higher education	Programme graduated from	Name of Institution joined	Name of programme admitted to
2020-21	02	B.Sc.	Geology Department, Savitribai Phule Pune	M.Sc.

			University, Pune	
2020-21	02	B.Sc	Geology Department, Government Institute of Science, Aurangabad	M.Sc.
2020-21	08	B.Sc	Geology Department, RTMNU, Nagpur	M.Sc.
2020-21	01	B.Sc	Geology Department, BHU, Varanasi	M.Sc.
2020-21	01	B.Sc	K. J. Somaiya College of Science and commerce, Mumbai	M.Sc.
2020 - 21	01	B.Sc	Sagar University	M. Tech

Year	No. of students enrolling into higher education	Programme graduated from	Name of Institution joined	Name of programme admitted to
2020-	01	B.Sc	Intern in	Internship
2021			Kumaun	
			University,	
			Nainital	