

Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE, Congress Nagar,
Nagpur

DEPARTMENT OF MATHEMATICS

INTERNAL ACADEMIC AUDIT

2021-2022

1. A. Faculty Strength:

Faculty	Recruited	Vacant	Remarks
Regular (UG)	03	01	
CHB(UG)	02	-	
Adhoc (PG)	01 Adhoc + 02 CHB	-	
Non-teaching	01	-	

B. Faculty profile

Name	Highest Qualification	Designation	Specialization	Teaching Experience
1. Dr. G. R. Avachar	M.Sc., M. Phil, Ph.D.	Professor	Relativity and Cosmology	34 Years
2. Dr. A. M. Pund	M.Sc., M. Phil, Ph.D.	Assistant Professor	Relativity and Cosmology	10 Years
3. Dr. V.D. Chavan	M.Sc., M. Phil, Ph.D.	Assistant Professor	Relativity and Cosmology	6 Years

2. Students strength

Year	Group	Number of Students Admitted
B.Sc. Semester I	PCM	54
	PCSM	55
	SCSM	41
	ECSM	33
	PEM	27
	CGM	17
	Total-	227
B.Sc. Semester III	PCM	54
	PCSM.	55
	SCSM	45
	ECSM	33
	PEM	28
	CGM	17
	Total-	232
B.Sc. Semester V	PCM	51
	PCSM	51
	SCSM	34
	ECSM	33
	PEM	21
	CGM	17
	Total-	207
M.Sc. I		25
M.Sc. II		29
Ph.D		04
Value Added Program		-

3. Students Performance

A.Result Analysis (Winter 2021) UG & PG

Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
B.Sc.	Mathematics	207	207	100
M.Sc.	Mathematics	29	29	100

B.Result Analysis (Summer 2022) UG & PG

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
	B.Sc.	Mathematics	207	206	99.51
	M.Sc.	Mathematics	29	29	100

C.Achievements

A. (Medals/Awards/Prizes at University level)

Sr. No	Name of the Students	Class	Title
	Nil	--	--

B. Merit Position of UG students in RTMNU

Sr. No	Name of the Students	Merit Position
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C. Merit Position of PG students in RTMNU

Sr. No	Name of the Students	Merit Position
1.	Ku. Priyanka Arun Bhasarkar	3 rd

4. Students Progression:

Name of Students enrolling into higher Education	Name of institution joined	Name of Program admitted to
UG to PG		
1.Ku. Priya Maity 2.Abhishek Yadav 3.Ku. Trupti Akhare 4.Ku. Prachi Meharkule 5. Lalit Rajgrie	Shivaji Science College, Nagpur	M.Sc.
6. Ku. Vishnuprya Singh 7.Ku. Shruti V. Ugemuge	RTMNU, Nagpur	M.Sc.
PG to Research	-	-
Placement		
On Campus		-
1. Ms. Payal Hemraj Bopche	TCSL, Pune	
Off Campus		-
1. Vrushali Lokhande	eClerx, Pune	
2. Amisha Waghade	FDCM office Kuhi	
3. Ambika Pardhi	Constable(GD), in CRPF, Nagpur	
4. Krutik Bhongade	Assimilate solutions India Pvt. Limited	

(i) Students' publication in Conferences/Journals

Sr. No	Title of the paper	Name of Author	Title of Journal	Year of Publication
1.	1. Massive Scalar Field Kaluza-Klein Cosmological Model in Lyra's Manifold	P. M. Lambat	Journal of Scientific Research. Volume 65, Issue 6. P.N.106-110.	August 2021
2	Bianchi Type-VI0 Inflationary Model in Lyra Geometry	P. M. Lambat	Journal of Scientific Research, 14 (2), 435-442 (2022)	2021
3	Axially Symmetric Bulk Viscous Cosmological Model in F(R,T) theory of Gavity.	D.R.Golechha	Journal of Dynamical and Geometric Theories. Vol. 19(1)pp.35-49	June 2021

(ii) Students' participation in Seminar/Conferences

Sr. No.	Name of the Student	Conference type	Participation as
	Ms. P. M. Lambat	National	Paper presentation.
		International	Paper Presentation
2.	Ms. Samikha S. Ganvir	National Seminar	Participation
3.	Ms. Deepika Goechha	National e-Conference	Paper presentation
		International Webinar	Paper presentation

(iii) Students' Extension Activity/Extracurricular activity

Sr. No.	Name of the activity	Number of students Participated
1.	Quiz Context on the occasion of National Mathematics Day-2021 RTMNU Nagpur.	04
2.	One week online FDP program on Mathematical software MAPLE with Simulation-2021`organized by G H Raison College of Engineering, Nagpur	02
3	Online Quiz Competition on the occasion of National Science Day 2021 organized by department of computer science Phulsingh Naik Mahavidyalaya, Pusad .	01
4	Trends and Opportunities in cloud Technology and information security organized by department of computer science RTMNU, Nagpur	01
5	Inter-collegiate online Quiz competition on Information communication technology Awareness Organized by department of computer science, Shivaji science college, Nagpur	01`
6	International online workshop on Research insights in Scientific writing and publication organized by dept. of Microbiology and Biotechnology in association with IQAC of shivaji science college, Nagpur.	03
7	online Poster competition on the occasion of National science Day organized by Shivaji science college Nagpur	01

(iv) Participation of Students in online/MOOCs courses/NPTEL/SWAYAM

Sr. No.	Name of the Students	MOOCs /NPTEL/SWAYAM
1.	Nil	-
2.		

5. Faculty

I. 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 Authors	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citation
1. Massive Scalar Field Kaluza-Klein Cosmological Model in Lyra's Manifold.	P. M. Lambat and A. M. Pund	Journal of Scientific Research. Volume 65, Issue 6. P.N.106-110.	August 2021		Department of Mathematics, Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur India	
2. Wet Dark Fluid Cosmological Model in	S. C. Wankhade , A. S. Nimkar, A. M. Pund	Journal of Scientific Research, 13 (3), 869-878 .	2021		Department of Mathematics, Shri Shivaji Education	

Barber Self-Creation Theory of Gravitation					Society Amravati's Science College, Congress Nagar, Nagpur	
3 Bianchi Type-VI0 Inflationary Model in Lyra Geometry	P. M. Lambat, A. M. Pund*	Journal of Scientific Research, 14 (2), 435-442 (2022)	2021		Department of Mathematics, Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur(India)	
4. Axially Symmetric Bulk Viscous Cosmological Model in F(R,T) theory of Gavity.	G. R. Avachar, D.R.Golechha & S.D.Tade .	Journal of Dynamical and Geometric Theories. Vol. 19(1)pp.35-49	June2021		Department of Mathematics, Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur(India)	

C. 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 /paper published in Souvenir/Abstract Book

Dr. A. M. Pund	National e-Conference on Recent Advances for Innovative Research in Mathematics NCRAIRM-21	28 September, 2021	National/	Yes	yes
Dr. A. M. Pund	2 nd International Conference on Recent Advances in Material Science & Nanotechnology(RAMAN)	12-14 May 2022	International	yes	yes
Dr. V T Chauhan	One -week National Level online workshop	14- 18 February 2022	National	No	-
Dr. V T Chauhan	International workshop (online) on Research Insights in Scientific wrting and Publication (RISWP-2021)	17-18 December 2021	International	No	-
Dr. V T Chauhan	One week online FDP programme on Mathematical software MAPLE with Simulation-2021`organized by G H Raisoni College of Engineering, Nagpur	25-29 October 2021	International	No	-

D. Awards to Faculty members:

Name of Teacher	Title of the Award	Title of Agency/Conference	National/International
Nil	-	-	

6 .MoUs signed with institutions of national, international importance, other universities, industries, corporatehouses etc. during the year

Date of MOU	Organization	Purpose/Activity	Student Participate under MOU
Nil	-	-	-

7. 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
Nil	-			

8.Books Published

Name of the Author	Book		Book Edited
	Title	ISBN and Date	Chapter
Nil			

9. Research Guidance by Faculty during the year

Name of the guide	Ph. D		
	Awarded	Submitted	Registered
Dr G. R. Avachar	01	--	-
Dr. A. M. Pund	--	--	01

10. Alumni engagement

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

11. Action Plan of the Department

- To Celebrate National Mathematical day
- To Organize student's seminar on curriculum
- To Organize Inter Collegiate Quiz Competition in Collaboration with NUMTA
- To Organize Guest Lecture by external experts
- To Organize Poster Competition for UG and PG students.

12. Best Practices of the department

- Counseling to slow learner.
- Provided Question Bank as per university pattern.

13. SWOT Analysis

Strength

- Qualified & Competent Staff
- Enthusiastic and Encouraging Principal & Management
- No. of options are available with mathematics as one of the subjects
- Good results
- Recognized Research Centre

Weakness

- Lac of Interest of the students towards graduation in pure science and particularly in Mathematics
- Average students seek admission in B.Sc. Courses

- Limited job opportunities

Opportunities

- Remedial teaching is provided to desirous students
- Guidance facility for the preparation of Competitive examinations
- Inter-College Quiz, Seminars, Guest lectures, Science Exhibition, Bhausaheb Jaynti Celebration.
- Research guidance facility available for students.

Challenges

- Declining interest in pure science subjects
- Negative aspect of modern culture abetting students presence in classes
- Declining interest in pure science subjects particularly in Mathematics



Date: 18/01/2023

A handwritten signature in blue ink, appearing to be 'G. H. D.' or similar, written over a light grey rectangular background.

Head
Department of Mathematics