

Shri Shivaji Education Society Amravati's  
**SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR**  
DEPARTMENT OF MATHEMATICS  
**INTERNAL ACADEMIC AUDIT**  
**2019-2020**

1. Vision and Mission of the Department.

**Vision:**

To motivate and simulate the students to develop their knowledge, basic concept in subject mathematics that ignites them for excellence and skills, which contributes to society.

**Mission:**

- To provide excellent knowledge of Mathematics for suitable career and groom them for National recognition
- To offer the courses that ensures to develop critical thinking, reasoning, problem solving and formulating the skills among the students
- To train the students for interdisciplinary application and research
- To build life skill through value –based education and service oriented programs

2. A. Faculty Strength:

Faculty	Recruited	Vacant	Remarks
Regular	02	1	
CHB	02		
Adhoc	01+ 03 CHB		
Non-teaching	01		

## B. Faculty profile

Name	Highest Qualification	Designation	Specialization	Teaching Experience
1 Dr. G. R. Avachar	M. Sc. Ph. D	Associate Professor	Theory of Relativity	32 Years
2. Dr. A. M. Pund	M.Sc., M. Phil, Ph.D	Assistant Professor	Relativity and Cosmology	7 Years

## 3. Students strength

Year	Group	Number of Students Admitted
B.Sc. Semester I	PCM,PCSM.SCSM,ECSM	203
	PEM,CGM	
	Total-06	
B.Sc. Semester III	PCM,PCSM.SCSM,ECSM	191
	PEM,CGM	
	Total-06	
B.Sc.Semester V	PCM,PCSM.SCSM,ECSM	204
	PEM,CGM	
	Total-06	
M.Sc. I		22
M.Sc. II		23
Ph.D		03
Value Added Program		-

#### 4. Students Performance

##### A. Result Analysis (Winter 2019 )

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	196	161	82.14
	M.Sc.	Mathematics	23	12	52.17

Result of EVEN Semester is not available due to COVID-19

##### B. Achievements (Medals/Awards/Prizes at University level)

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

#### 5. Students Progression:

- (i) Students' publication in Extracurricular activity: Nil
- (ii) Students' Extension Activity : Quiz Competition on the occasion of National Mathematics Day b) Intercollegiate Mathematic Quiz Competitions organized by VMV College Nagpur and got IInd prize
- (iii) No. of Students pursuing higher course: Record is not available
- (iv) Students' participation in seminar : Yes, Mathematical Quiz Competition
- (v) Students' Learning course through online: Not required as the course was completed

#### 6. Faculty

##### I. Research Paper Publications:

##### A. Total Number of publications:

- i) International \_\_\_\_ Nil

B.National \_\_\_\_\_Nil

C. 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 publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citation
Nil						

D. 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. G. R. Avachar	National Workshop on Recent Research Trends in Mathematics	5-6 <sup>th</sup> December 2019 held at Government Vidarbha Institute of Science and Humanities, Amravati	National Level	Invited Talk	--
Dr. G. R. Avachar	Guest Lecture under Academic / Seminar Activities for M. Sc. Students	31 <sup>st</sup> Jan 2020 held at Department of Mathematics, S.G. B. Amravati University, Amravati	University Level	Invited Talk	--



	2020 organized by Rashtrasant Tukadoji Maharaj Nagpur University ,Nagpur.				

D. Awards to Faculty members : Nil

7.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			

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

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

## 9. Books Published

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

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

Name of the guide	Ph.D		
	Awarded	Submitted	Registered
Dr G. R. Avachar	--	--	03

## 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
- Student faculty exchange program
- Guidance facility for the preparation of Competitive examinations
- Inter-College Quiz, Seminars, Guest lectures, Science Exhibition, Yuva Mahotsav every year.
- 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

Date: 04/09/2020



Head  
Department of Mathematics