The Jamner Taluka Education Society's

GITABAI DATTATRAY MAHAJAN ARTS, SHRI KESHARIMAL RAJMAL NAVALKHA COMMERCE AND MANOHARSETH DHARIWAL SCIENCE COLLEGE, JAMNER. DIST. JALGAON
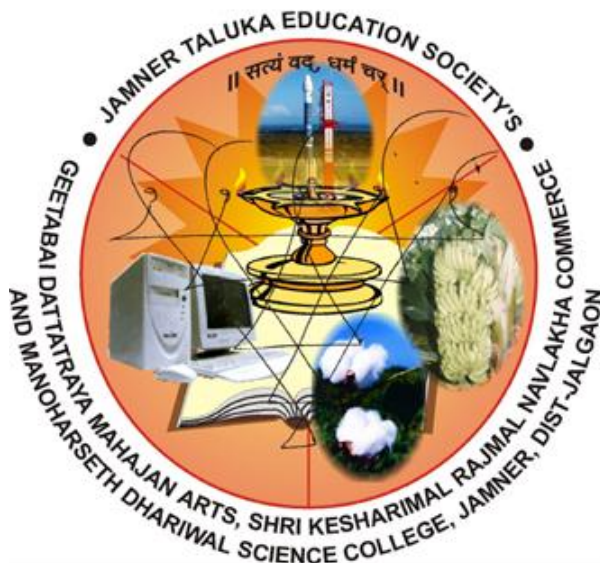
Affiliated to

K.B.C. North Maharashtra University, Jalgaon,

DEPARTMENTAL PROFILE

DEPARTMENT OF MATHEMATICS

2018-2023

Dr. A. R. Patil (M. Sc. Ph. D)

Head   of the Department of Mathematics

Board of studies member, K.B.C N. M. U. Jalgaon

INDEX

1. **INTRODUCTION**

2. **PROFILE OF STAFF MEMBERS**

3. **TOTAL STRENGTH & RESULT ANALYSIS PASS %**

4. **DEPARTMENTAL ACTIVITIES**

5. **INNOVATIONS IN TEACHING AND LEARNING PROCESS**

6. **HIGHLIGHTS**

7. **ALUMNI**

1. Introduction :

The Mathematics department came into existence in 1989, with the inception of the faculty of Science. At that time, the department was represented by one teacher namely Mr. P.R. Kolhe. In the year 1990 a new appointment of Mr. A. R. Gotmare. Mathematics at special level was started in 1991. This initiated the progress of department on all fronts. At that time Prof. Mrs. P.S. Mahajan was appointed. Mr. A .R. Gotmare was appointed as H.O.D. in 1991. In the year 1993-94 Mr. I. M. Jadhav was appointed. In 2015, Post Graduate Department was established. Miss. K. C. Rajput, Mr. P. S. Sharma, Mr. V. P. Khatik are working as contractual basis.

GOALS & OBJECTIVES:

1. To make the students aware about higher study in mathematics.

2. To promote independent Mathematical thinking among the students.

3. To inculcate numerical skills among the students.

4. To enhance knowledge about Public Sector & Mathematical Examination.

5. To acquaint students with various concepts of Mathematics.

DEPARTMENT OF MATHEMATICS

1. Name of the department: **Department of Mathematics**

2. Year of Establishment: : 1989

3. Names of Programs / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :   **B. Sc**. Mathematics and **M. Sc**. Mathematics

4. Names of Interdisciplinary courses and the departments/units involved Quantitative Techniques Commerce Department

Interdisciplinary Courses	Department Involved	Level Of Study
Quantitative Techniques B.Com.	**Department of Commerce**	UG
Remedial Coaching .B.A.	**Department of Arts**	UG
Banking Mathematics. B.A.	**Department of Arts**	UG

5. Annual/ semester/choice based credit system (programme wise)   Semester

B. Sc.   Mathematics Semester System

M. Sc.   Mathematics Semester System NEP 2020

6. Participation of the department in the courses offered by other departments

B. Com. Quantitative Techniques

B.Com. Business Mathematics

7. Courses in collaboration with other universities, industries, foreign institutions, etc. : Nil

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of teaching posts: 03

Teaching Posts Undergraduate	Sanctioned	Filled
Professors	01	01
Associate Professors	01	01
Asst. Professors	01	01

Post Graduate	Sanctioned	Filled
Asstt. Prof.	**03**	**03**

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,):   **Under Graduate**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students
Dr. A.R. Patil	M.Sc. Ph.D.	Professor	Mathematics Algebra	33	02
Sau.P.S.Mahajan	M. Sc.	Associate Professor	Mathematics	32	----
Mr. I. M. Jadhav	M.Sc.	Asst. Professor	Mathematics	30	----

POST GRADUATE:

Dr.A.R.Patil	M.Sc. Ph.D.	Contributory
Mr. P. S. Sharma	M.Sc., SET	Contractual
Miss. B. S. Jaiswal	M.Sc.	Contractual
Miss. K. A. Hadap	M.Sc.	Contractual

11. List of senior visiting faculty

Prof. S. R. Chaudhari	KBC NMU Jalgaon
Dr. H L Tidake	KBC NMU Jalgaon

12. Percentage of lectures delivered and practical classes handled (programme wise)
    By temporary faculty   : Nil

13. Student -Teacher Ratio (Programmed wise)

Year	F. Y. B. Sc.	S. Y. B. Sc.	T. Y. B Sc.	Student Teachers ratio
2017-18	102	74	32	69:1
2018-19	90	61	26	59:1
2019-20	62	73	22	52:1
2020-21	57	61	20	46:1
2021-22	45	48	13	35:1
2022-23	66	30	11	36:1

Year	M.Sc.-I	MSc-II	Students – Teachers Ratio
2017-18	29	30	20:1
2018-19	10	13	8:1
2019-20	09	09	6:1
2020-21	15	09	8:1
2021-22	07	13	7:1
2022-23	02	06	3:1
2023-24	01	02	3:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: **One lab attendant.**

15.   Qualifications of teaching faculty with   Ph.D. / PG.

16.   Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17.   Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: NIL

18.   Research Centre /facility recognized by the University: Yes

19. Publications:

Name of the Faculty Member	No. of paper published in peer reviewed journals		No. of publications listed in International data base	Monograph	Chapter in book	Books edited	Books with	Citation Index	SNIP	SJR	Impact Factor	h-index
	National	International										
Dr. A. R. Patil	10	05	-	--	24	--	15	-	--	--		
Mr. I. M.Jadhav	--	01	--	--	14	--	14	--	--	--	--	--
Mrs. P.S. Mahajan	-	-	-	-	-	-	-	-	-	-	-	-

20. Areas of consultancy and income generated: Nil

21. Faculty as members in

    a) National committees   : NIL
    b) International Committees : NIL
    c) Editorial Boards   : Dr. A. R. Patil

22. Student projects

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

    b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: Project Presented by Third Year Students In **"AVISHKAR "conducted by N M U Jalgaon 20%**

23. Awards / Recognitions received by faculty and students : Nil
24. List of eminent academicians and scientists / visitors to the department
    Prof. K. F. Pawar, KBC NMU, Jalgaon

    Prof. J. N. Chaudhari, M. J. College, Jalgaon

    Dr. C. T. Aage, KBC NMU, Jalgaon

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

Conference/workshops	National	Funding Agency
F. Y. B. Sc. Mathematics Syllabus Restructuring Workshop 22nd September 2023	University	College Funded

Syllabus Framing Workshop Of F.Y.BSc Mathematics As Per NEP – 2020 On 22nd Septmber 2023

b) International : NIL

26. Student profile programme/course wise:

Name of the Course/programme (refer question	Applications received	Selected	Enrolled		Pass percentage
			M	F	
B.Sc. 2018-19	26	26	05	21	92%
B.Sc. 2019-20	22	22	04	18	100%
B.Sc. 2020-21	20	20	03	17	100%
B.Sc. 2021-22	13	13	01	12	92%
B.Sc. 2022-23	11	11	01	10	91 %

*M = Male   *F = Female

27. Diversity of Students: All students enrolled in every year one from same state.

28.   How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? NET – 01, SET-06

29.   Student progression

Student progression	Against % enrolled
UG to PG	75%
PG to M.Phil.	-
PG to Ph.D.	20%-
Ph.D. to Post-Doctoral	-
Employed • Campus selection • Other than campus	-
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities

a) Library: The Central Library which is

quite rich in collection of old and new

300 books.

DEPARTMENTAL BOOKS- 70 Books- 05

Journals and Periodical : No

b) Internet facilities for Staff & Students : Yes

c) Class rooms with   ICT   facility : Yes

d) Laboratories: No.

31. Number of students receiving financial assistance from college, university, Government or other agencies: Government scholarships and freeship available.

32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts

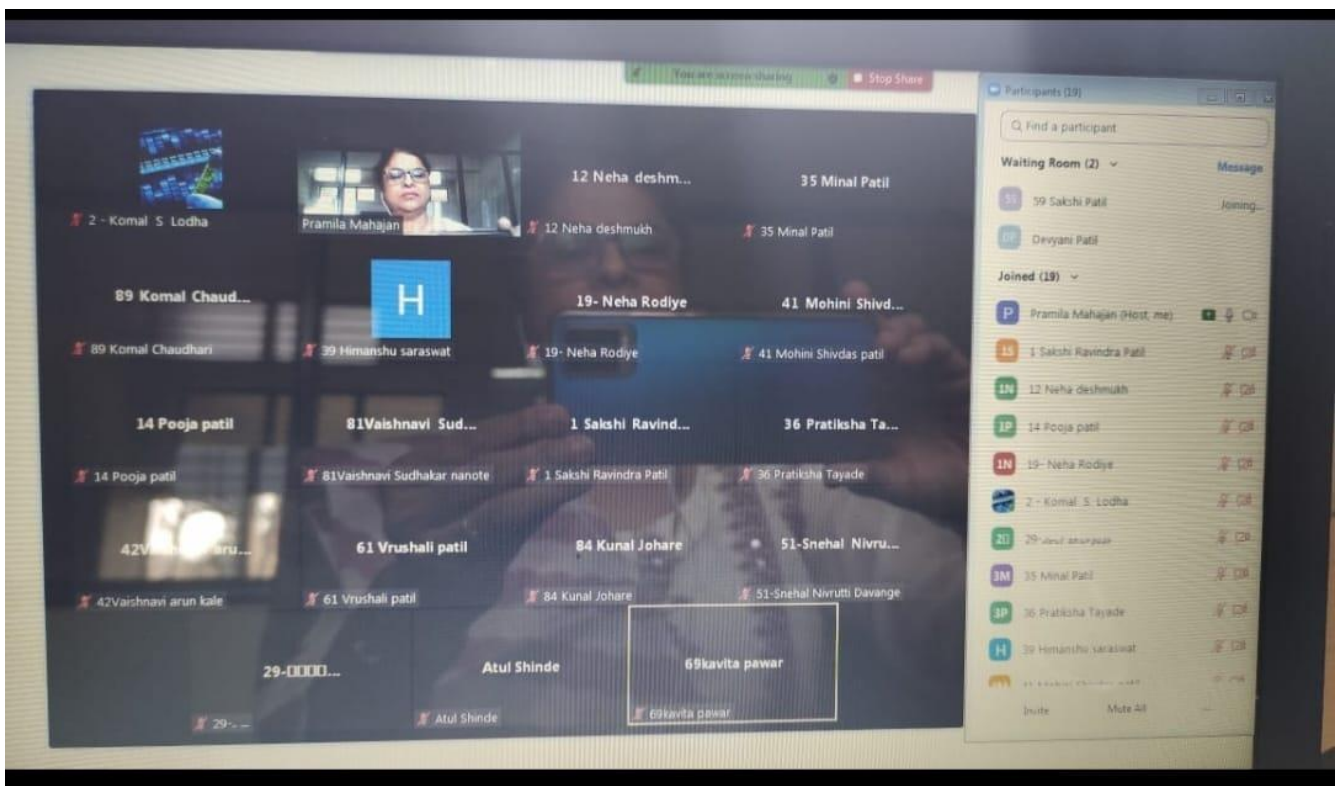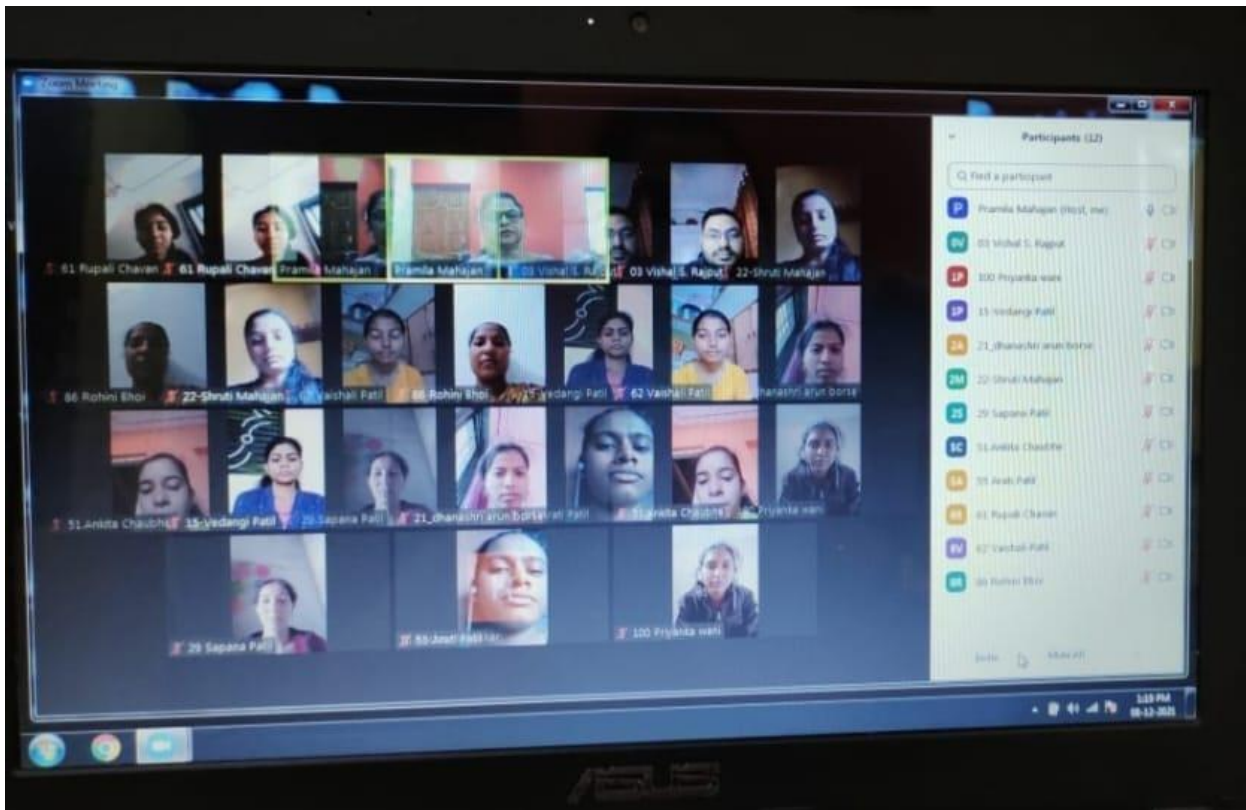| Year	Title / Type of programme	Name of Resource Person
2017-18	For Net / Set preparation.	Dr. C. T. Aage

33. Enrichment Courses
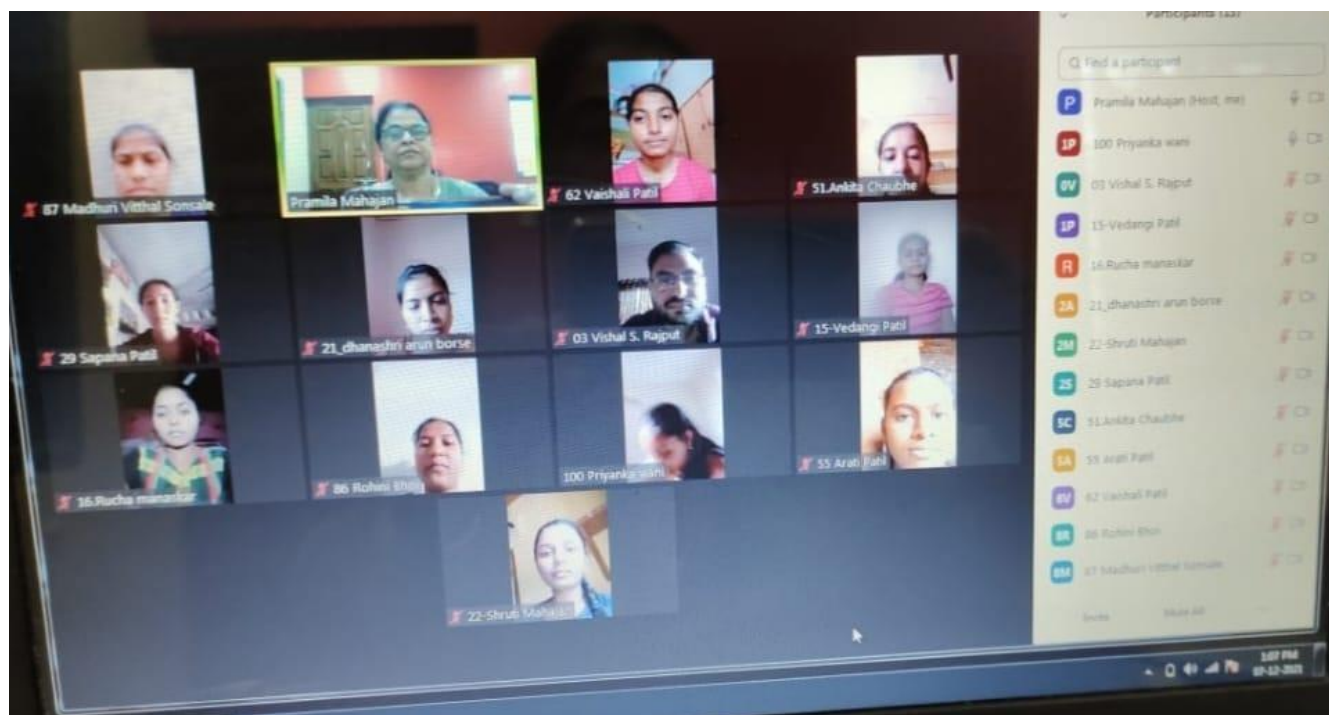
Class tests regularly conducted.

Extra Classes for revision of important chapters

Providing study materials and notes on selected topics.

Remedial Course: Special Attention for weak students.

Audio Visual Mode of mode of teaching (ZOOM Meet, Google Meet)

34.Teaching methods adopted to improve student learning ICT Based, Group Discussion, Question answer Method, Students Seminar.
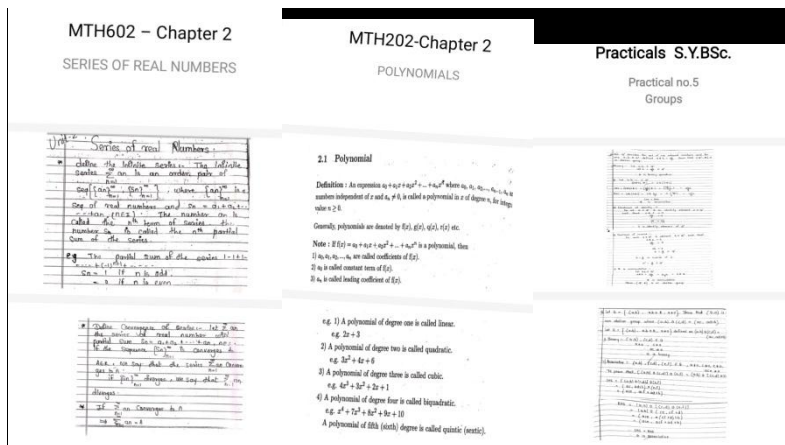
Interactive Sessions

Games and quizzes

Presentation and project based learning.

Use of Mathematical Software like MATLAB, LATEX

Home Assignments.

Power Point Presentation

Sr. no	Class	Name of Course	Topic
1	FYBSc	**MTH 101**	**Matrix Algebra**
2		**MTH202**	**Theory of Equation**
3	SYBSc	**MTH302(A)**	**Group Theory**
4		**MTH404**	**Vector Calculus**
5		**MTH 502**	**Real Analysis I**
6	TYBSc	**MTH602**	**Real Analysis II**
7		**MTH 503**	**Algebra**
8		**MTH 603**	**Linear Algebra**

MTH602 – Chapter 2

SERIES OF REAL NUMBERS

MTH202-Chapter 2

POLYNOMIALS

Practicals S.Y.BSc.

Practical no.5
Groups

35. Participation in Institutional Social Responsibility (ISR) and Extension activities

*The students and faculty members regularly participate in the institutional Social responsibilities and Extension activities organized by the college. One faculty Mrs. P.S .Mahajan takes active role in IRS. She organized Rubella Vaccination camps, woman's empowerment workshops and she is also the chairperson of women's Harassment redressal cell of the college.

36. SWOT analysis of the department and Future plans

Strength: Dedicated and Qualified faculty

Good stock of Books in Departmental library.
Good reference books are available.

Opportunities: Career oriented courses such as Financial Mathematics, could be designed. Students passed out with good result in Mathematics from this department get opportunities for higher studies in various fields like pure and applied Mathematics in different universities.

Challenges:
Improving research output.

Work hard for betterment of the students.

To make the students academically strong.

Highlights

Departmental Prides:

Sr. No.	Name of the Student	Event	Date	Level	Rank
1.	Patil Vaishnavi Dnyaneshwar	Student Seminar	15th October 2022	University	Second
2.	Patil Sakshi Ravindra				--
3.	Savankar Aachal Jitendra	Poster Presentation	3rd Sept 2022	College	First
4.	Lodha Komal Surendra				Second
5.	Patil Vaishanvi Dnyaneshwar				Third
6.	Lodha Komal Surendra	Essay Writing Competition	26th November 2022	College	Second
7.	Savankar Aachal Jitendra				Third
8.	Patil Sakshi Ravindra Lodha Komal Surendra Deshmukh Neha	Science Quiz Competition	28Feb.2023	College	First

Photo Gallery:

University level student Seminar organized by Science Association

Miss Vaishnavi Patil Stood IInd rank

Science Quiz Competition .Winner Team With Rank I st

Department of Mathematics
G. D. M. Arts, K. R. N. Commerce and M. D. Science College, Jamner, Dist. Jalgaon.
List of Alumni

Sr. No.	Name of Alumni	Degree	Present Position
1.	Ritesh Pandit Jadhav	M. Sc., SET	Lecturer at SSVPS Science College, Dhule
2.	Dr. Golhare Pradip Gunwant	M.Sc., NET, Ph. D.	Lecturer in Sr. College, Soygaon.
3.	Dr. Dnyaneshwar R. Nhavi	M. Sc., SET, Ph. D.	Lecturer in Sr. College at Jalgaon
4.	Dr. Nikam Vidya Ramdas	M.Sc., NET, Ph. D.	Lecturer At Nasik
5.	Sharma Pramodkumar Sohanlal	M. Sc., SET	Lecturer in Sr. Collage.
6.	Patil Hemant Bhagawat	M.P.S.C.	Tahsildar. Dhamangaon Railway Dist. Amrawati
7.	Patil Vaishali Deoram	M.Sc.	Lecturer in Jr. College
8.	Kapse Neha Gajanan	M. Sc.	Lecturer in Engineering College at Jalgaon
9.	Khatik Vijay P.	M. Sc, B.Ed.	Assistant Teacher in Lord Ganesha English Medium School, Jamner
10.	Gavhane Ajay Dnyaneshwar	M. Sc., B. Ed	Lecturer in Govt. Polytechnic college, Jalgaon.
11.	Teli Gajanan Mohan	B. Sc., M. A.	Trackman at Indian Railway.
12.	Mahajan Rameshwari D.	M.Sc, B.Ed.	Lecturer in Jr. Collage..Dombiwali.
13.	Bagul Pandhari	M. Sc., SET	Lecturer in Engineering College at Pune
14.	Vanjari Gajanan Santosh	M. Sc., SET	Lecturer in Engineering College at Pune
15.	Janjal Pranav Mukuknda	M. Sc.	Pursuing M. B. A. at Manipal
16.	Sonni Shital Dnyaneshwar	M. Sc.	--
17.	Saiyyad Saniya Sharafa Ali	M. Sc. B.Ed.	Working at Coaching Classes
18.	Saiyyad Faeeza Jahangir Ali	M. Sc	--
19.	Patil Gayatri Sarangdhar	M. Sc., B. Ed.	Working at Coaching Classes
20.	Karad Bhagyashri Sunil	M. Sc.	--
21.	Tayade Smita Santosh	M. Sc., B. Ed.	--
22.	Patil Sumit Nivrutti	M. Sc., B. Ed.	Studying Germany Language
23.	Pol Yogesh Ashok	M. Sc. B. Ed.	Working at Junior College in Jamner
24.	Tadvi Amin Sherkha	M. Sc., B. Ed.	Working in School

25.	Pawar Pradipkumar V.	M. Sc., B. Ed.	Working at Coaching Classes
26.	Rane Puja Milind	M. Sc.	--
27.	Ahirrao Shital Manoj	M. Sc.	--
28.	Patil Nikita Sunil	M. Sc.	--
29.	Gadakh Nayana Madhukar	M. Sc.	--
30.	Savkare Vishakha Pandurang	M. Sc.	--
31.	Chaudhari Harshada Bapu	M. Sc.	--
32.	Chaudhari Kanchan Suresh	M.Sc.	--
33.	Rajput Shraddha Rajendra	M. Sc.	--
34.	Tahakale Hema S.	M. Sc.	--
35.	Umbarkar Mittal Rajendra	M. Sc.	--
36.	More Dipali Raju	B. Sc.	--

Future plans :

- o To organize National Level Conference.
- o To start certificate courses
- o To make department with well-equipped computer laboratory.
- o To make teachers training programmers for Mathematics
- o To bring more research   projects   for the Department.
- o To organize classes for NET/SET Exam.
- o To organize educational tours.