

DEPARTMENT OF MATHEMATICS



Contact

Email ID: aracs.maths@gmail.com

Departmental Blog: www.aracsmaths.blogspot.com

Vision:

To provide mathematical knowledge in business, finance and industry, in order to help develop the discipline and also the nation.

❖ Mission:

To provide an environment where students can learn and become competent users of mathematics and mathematical application.

❖ About Department:

Anandibai Raorane Arts, Commerce and Science College, Vaibhavwadi has rendered services to the community, by the way of providing educational facilities, particularly to the rural students.

In our college, the department of mathematics has been established in **academic year 2015-16** and students who had dreams and desire to enrich their competence in the field of mathematical sciences. We know the fact that the prosperity and progress of faculty depends on the fundamental facilities. Our faculty member always tried their level best for all round development of the department. Due to sincere efforts of Principal Dr. C.S. Kakade, today we have fundamental facilities.

It is a matter of pride to mention that our one staff member is doing Ph.D. Our staff members acquired not only good academic qualification,

but they are also ahead in extra-curricular and social activities like participation in seminars and workshop, participation in Blood Donation camp etc.

Innovative curricular and extra-curricular activities such as Seminars, Guest Lectures, National workshops were conducted successfully. All these programmes have added a great value to our teaching and learning programme.

In our department, various activities like quiz competition, poster presentation competition, power point presentation etc. are organized.

Students of Mathematics actively participated in university level as well as district level Avishkar research competition, Poster presentation competition, organized by university of Mumbai as well as by different institutions department of Mathematics. This activity enhances scientific attitude and popularize science in the society.

❖ Department Faculty:

Sr. No.	Name of Faculty	Designation	Qualification
Teaching Faculty			
1	Miss P.M. Manjarekar	Assistant Professor	M.Sc., SET
2	Mr. V.V. Shinde	Assistant Professor	M.Sc., SET, B.Ed
Non- Teaching Faculty			
1	Mr. M. G. Raorane	Lab. Assistant	B.Com.
2	Mr. Umesh Raorane	Lab. Attendant	S.S.C.

❖Strength of Department:

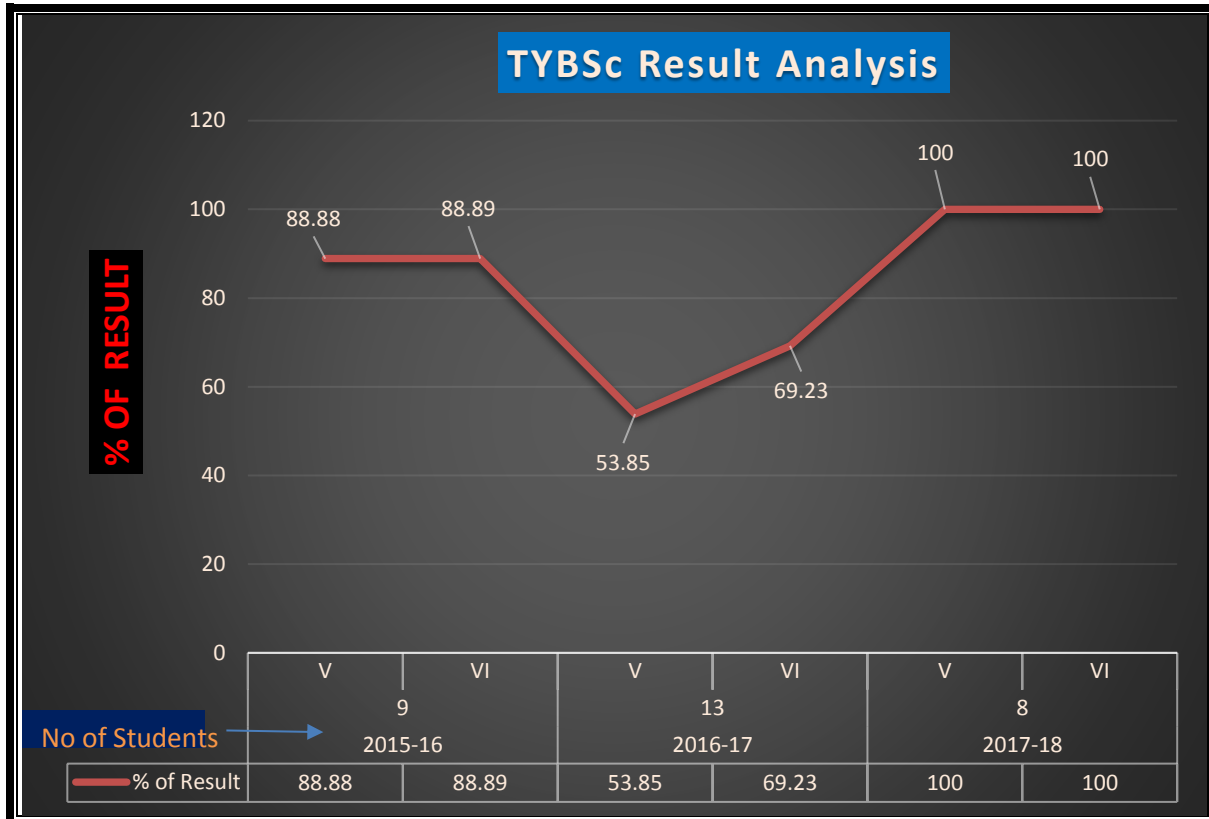
Sr.No.	Academic Year	B.Sc. Part I	B.Sc. Part II	B.Sc. Part III	Total
1	2015-16	17	29	09	55
2	2016-17	31	15	15	62
3	2017-18	25	25	08	58
4	2018-19	34	22	05	61
5	2019-20	28	23	02	53

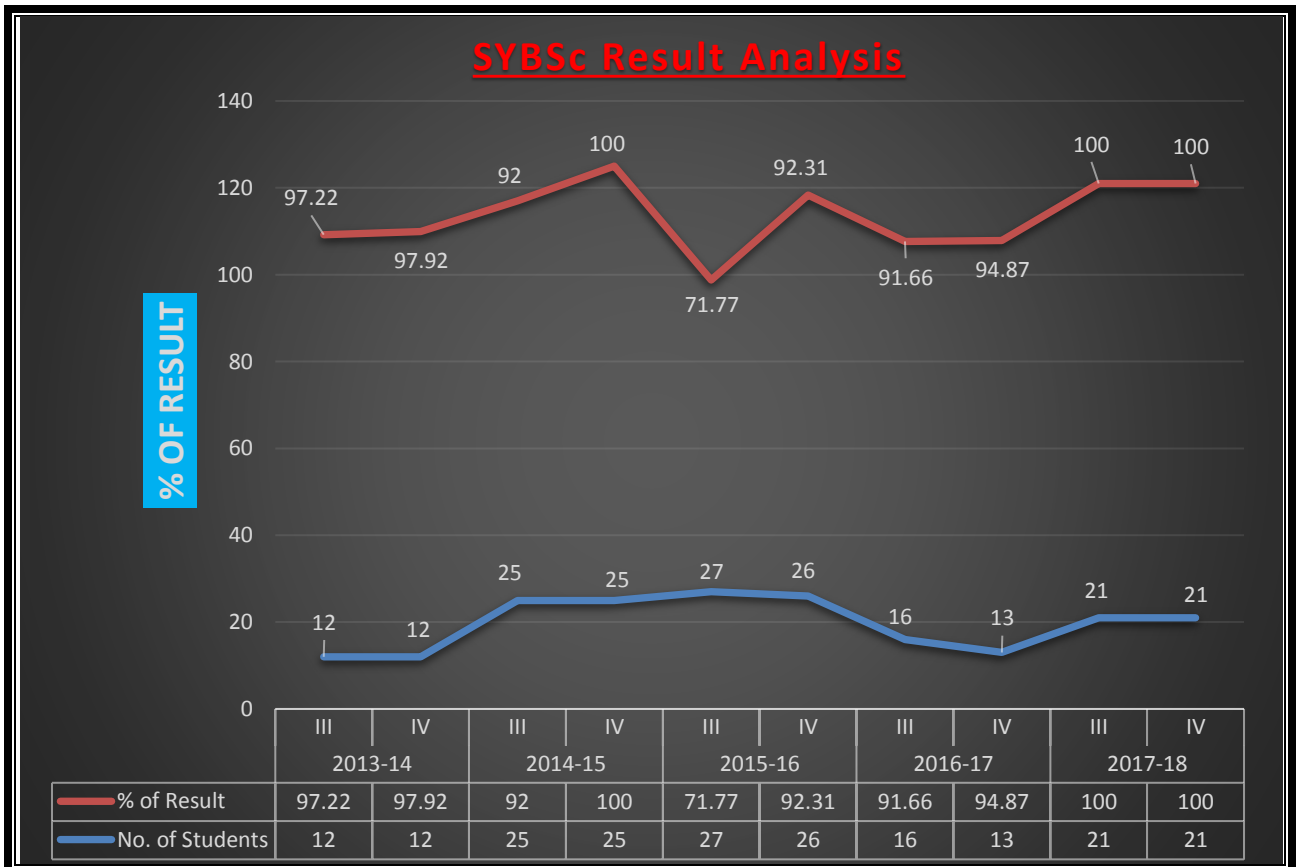
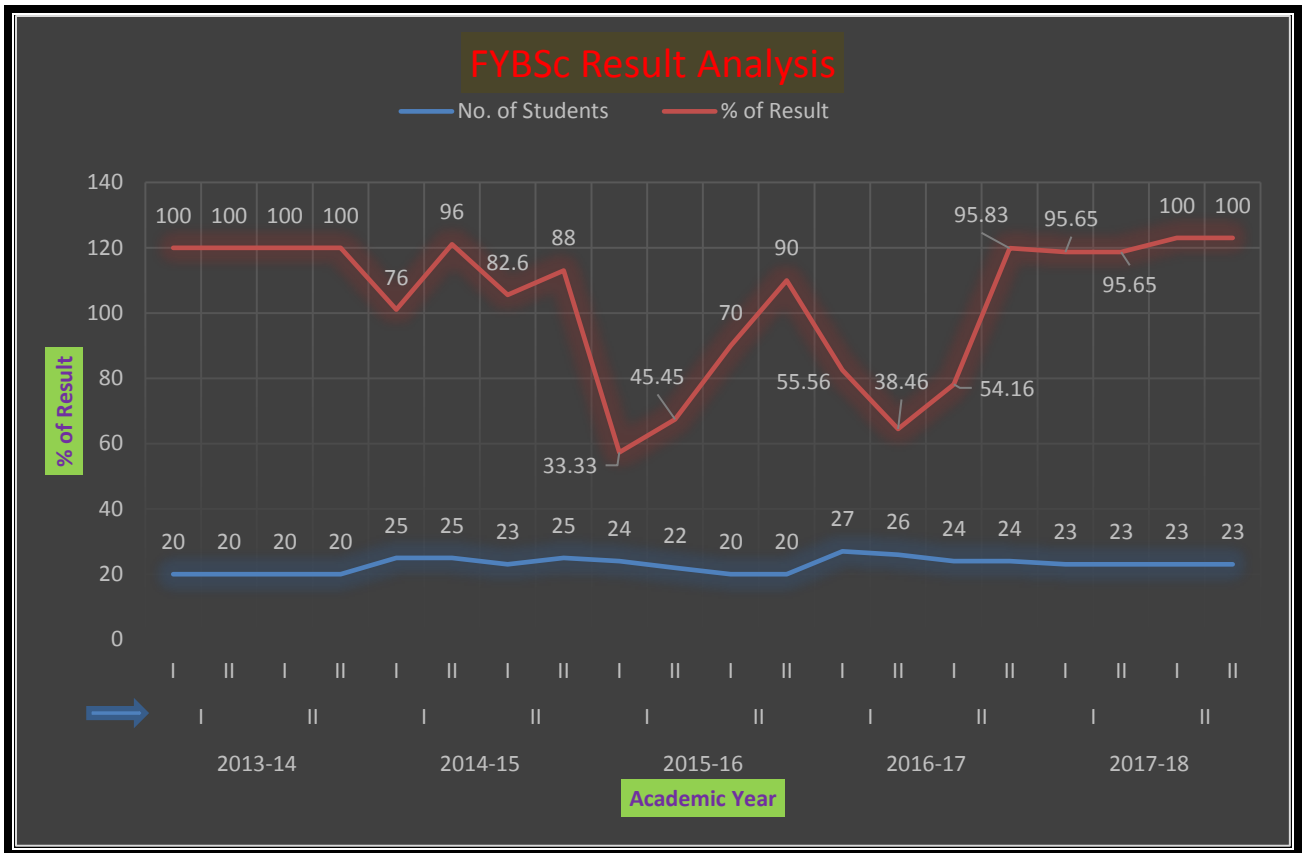
❖Results of T.Y.B.Sc :

Sr. No.	Academic Year	No. of Students Appeared	Sem	Grade							% of Result
				O	A	B	C	D	E	F	
1	2015-16	09	V	5	3	0	0	0	0	1	88.89%
2	2015-16	09	VI	0	1	4	3	0	0	1	88.89%
3	2016-17	13	V	0	1	3	2	1	0	6	53.8%
4	2016-17	13	VI	0	8	11	2	0	0	6	77.8%
5	2017-18	08	V	0	6	2	0	0	0	0	100%
6	2017-18	08	VI	0	0	2	6	0	0	0	100%

				O	A ⁺	A	B ⁺	B	C	D	F	
7	2018-19	05	V	0	0	0	4	0	0	0	1	80%
8	2018-19	05	VI	0	0	1	2	2	0	0	0	100%
9	2019-20	02	V	0	0	0	0	1	0	0	1	50%

ACADEMIC YEAR 2015 TO 2018





❖ **Departmental Rank Holders:**

Sr. No.	Academic year	Sem	Name of student	Rank
1	2015-16	V	Miss. Pawar Yogita Satish	I st
			Miss.Sarwankar Sonali Dashrath	II nd
			Miss.Chaware Neeta Prakash	III rd
2	2015-16	VI	Miss. Sarwankar Sonali Dashrath	I st
			Miss.Chaware Neeta Prakash	II nd
			Miss. Sukanti S Palkar	III rd
3	2016-17	V	Miss. Snehal R. Patil	I st
			Miss. Akshata V. Salvi	II nd
			Miss. Ashlesha V. Yadav	III rd
4	2016-17	VI	Miss. Akshata V. Salvi	I st
			Miss. Snehal R. Patil	II nd
			Miss. Ashlesha V. Yadav and Miss. Manjusha Shinde	III rd
5	2017-18	V	Mr. Akshay B. Jaitapkar	I st
			Mr. Nitesh N. Panchal	II nd
			Mr.Rahul P. More	III rd
6	2017-18	VI	Mr. Rahul P. More	I st
			Mr. Harshad V. Suryawanshi	II nd
			Mr. Suraj S Salunkhe	III rd
7	2018-19	V	Miss Prachi M. Khandekar	I st
			Miss Vrushali V. Parab	II nd
			Mr. Akshay S Garathe	III rd
8	2018-19	VI	Miss Prachi M. Khandekar	I st
			Miss Vrushali V. Parab	II nd
			Mr. Akshay S. Garathe	III rd

❖ Is there any method of assessing the Student's academic performance in order to enrichment and/ or Remedial Course?

- 1) Bridge Course for F.Y.B.Sc. Students for academic year 2016-19
- 2) Certificate Course in "Business Calculus" for academic year 2018-19
- 3) E-Test Program (Online MCQ Test for FYBSc and SYBSc Students) for academic year 2018-19

❖ Facilities:-

1) Library:-

Sr.No.	Particulars	Quantity
1	Reference books in central library	183
2	Textbooks in central library	86
3	No. of books in central library	269
4	Some personal copies are kept in the department as references	15

2) Computer:-

- 1) Computer contains all academic data
- 2) wxMaxima, LaTeX, Turbo C++, Python softwares

3) Teaching Aids:-

- 1) Video Lectures
- 2) Educational Model as Identify derivative by given function
- 3) Projector

❖ **Achievements:-**

- 1) Department student Miss. Vrushali Parab and Miss. Prachi Khandekar actively participated and presented one research project in district level Avishkar research competition organized by Dept. of student Welfare, University of Mumbai at Vaibhavwadi College on 28th Nov. 2018.
- 2) SYBSc (PM group) student Miss. Manyata Sawant actively participated in Intercollegiate Kabaddi Tournament during the academic year 2019-20 and secured 3rd Prize.

❖ **Avishkar Research Activity:-**

- 1) Department student Miss. Ashlesha Yadav & Miss. Snehal Patil actively participated and presented one research project in district level Avishkar research competition organized by Dept. of student Welfare, University of Mumbai at S.H. Kelkar college, Devgad on 13th Dec. 2016.
- 3) Department student Miss. Vrushali Parab and Miss. Shruti Angavalkar actively participated and presented one research project in district level Avishkar research competition organized by Dept. of student Welfare, University of Mumbai at S. R. M. College, Kudal on 9th Dec. 2017.
- 4) Department student Miss. Vrushali Parab and Mr. Gaurav Lad actively participated and presented one research project in district level Avishkar research competition organized by Dept. of student Welfare, University of Mumbai at Vaibhavwadi College on 28th Nov. 2018.
- 5) Department student Miss. Akshata Haryan and Miss. Vidya Bavdane actively participated, presented one research project in

district level Avishkar research competition 2019-20 organized by Dept. of student Welfare, University of Mumbai at P. B.V. Mahavidyalaya, Pandurtitha on 14th Dec. 2019 and selected for University level.



- 6) Department student Mr. Aniket Ghadi actively participated and presented one research project in district level Avishkar research competition 2019-20 organized by Dept. of student Welfare, University of Mumbai at P. B.V. Mahavidyalaya, Pandurtitha on 14th Dec. 2019.

❖ Extension activities

College Teaching: Faculty of the department conducts lectures on 12th STD students in various colleges:

- Delivered guest lecture on “Limits and Derivative” organized by Padmashri Dr. G. G. Jadhav Mahavidyalaya, Gaganbawada, Tal.Gaganbawada, Dist. Kolhapur 416 205 on 14th October 2018.

- Delivered guest lecture on “Derivative and Integration” organized by Achirne Junior college of Science, Achirne Tal. Vaibhavwadi, Dist. Sindhudurg on January 16, 2019.
- Delivered guest lecture on “Differential Equations” organized by Harche Junior college of Science, Harche Tal. Vaibhavwadi, Dist. Sindhudurg on January 16, 2019.

❖ STUDY TOUR:-



Educational Trip of TYBSc Students and Industrial visit at University of Kolhapur on 18th January, 2016.

❖ Departmental Activity:

- Our department always promotes to the students for PG admission guidance and tries to help them to career guidance.
- Our department organizes various departmental activities through Science Association.
- Department also organizes Study tour, Celebration of National Mathematics day, Expert lectures, Bridge course, Seminars, Certificate courses, E-Test Program to motivate the students and to develop their skill.

Academic Year 2015-16

1) Mathematics Day Celebration





Title: “Ramanujan Day Celebration”

Date: 22nd December, 2016


On this occasion Dr. C. S. Kakade (Principal), Mr. S.B.Kadam (Hod.Dept. of Mathematics), Mr.D.M.Sirsat, Mr.Kashetti were present.

Academic Year 2016-17

1) National Level One Day Workshop on “Group Theory and its Applications”





<p style="text-align: center;">National Workshop on 'Group Theory & its Applications' (NWGT-2017) Saturday 25th February, 2017</p> <p style="text-align: center;"></p> <p style="text-align: center;">Maharaja Pratapsinh Shikshan Sanstha, Member of Anandibai Raorane Arts, Commerce & Science College, Vaibhavwadi. Dist. Sindhudurg Organized by Department of Mathematics Patron PRIN. DR. C.S. KAKADE Advisory Committee DR. S. B. NIMSE Es. Vice Chancellor, Lucknow University, Lucknow. DR. J. N. SALUNKE Professor, School of Mathematical Sciences, S.R.T.M. University, Nanded. DR. S. A. KATRE Professor, Department of Mathematics, S.P. Pune University, Pune. DR. D. D. PAWAR Professor, School of Mathematical Sciences, S.R.T.M. University, Nanded. DR. A. R. PATIL Associate Professor, Department of Mathematics, SGGS IEAT, Nanded.</p>		<p>DR. SARTAJ UL HASAN Scientist C, DRDO, Delhi</p> <p>DR. S. K. PAWAR Associate Professor, Department of Mathematics, Sant Ramdas Mahajy College, Kudal</p> <p>DR. R. G. SAPRE Associate Professor, Department of Mathematics, Gogate Joglekar College, Ratnagiri</p> <p>DR. GANESH KADU Assistant Professor, Department of Mathematics, S.P. Pune University, Pune.</p> <p>DR. PRAMOD KUMAR KEWAT Assistant Professor, Department of Applied Mathematics, Indian School of Mines, Dhanbad.</p> <p style="text-align: center;">Convener MR. SHARAD B. KADAM Assistant Professor, Department of Mathematics</p> <p style="text-align: center;">Co-Convener MR. NANDU R. HEDULKAR Assistant Professor, Department of Zoology</p> <p style="text-align: center;">Secretary DR. VIJAY A. PAITHANE Assistant Professor, Department of Botany</p> <p style="text-align: center;">Joint Secretary MR. KESHAV S. PAKHARE Assistant Professor, Department of Chemistry</p> <p style="text-align: center;">Organizing Committee</p> <ul style="list-style-type: none"> • Mr. Dnyaneshwar M. Sirsat • Mr. Ramesh P. Kambhetti • Dr. Manik A. Chougale • Mr. Sachin S. Bhaskar • Mr. Sachin B. Patil • Mr. Satish M. Karape • Dr. Darshana S. Korgaonkar. • Mr. Pradeep M. Dhare • Mr. Kiran P. Patil • Mrs. Anita M. Patil 	<p style="text-align: center;">SPEAKERS</p> <p>DR. SUDHIR R. GHORPADE Professor, Department of Mathematics, Indian Institute of Technology Bombay</p> <p>DR. SAGAR D. DELEKAR Professor, Department of Chemistry, Shriwaji University, Kolhapur</p> <p>MR. NITIN S. DARKUNDE Assistant Professor, School of Mathematical Sciences, S.R.T.M. University, Nanded</p> <p style="text-align: center;">Theme Of The Workshop</p> <p>In mathematics, group theory studies the algebraic structures known as groups. The concept of a group is central to abstract algebra. Various physical systems, such as crystals and the hydrogen atom, may be modeled by symmetry groups. Thus group theory and the closely related representation theory have many important applications in Physics, Chemistry and Materials Science. Group theory is also central to public key cryptography.</p> <p style="text-align: center;">Who Can Participate?</p> <p>Faculty members, Research scholars & UGPG students of Mathematics & Chemistry. Registration fees for students is 100/- & for faculty members is 250/-. Certificate will be provided on successful completion of this workshop.</p> <p>For more details please visit: http://www.anandibaivaibhar.co.in</p>																							
<p style="text-align: center;">Maharaja Pratapsinh Shikshan Sanstha Mumbai's Anandibai Raorane Arts Commerce & Science College Vaibhavwadi, Dist- Sindhudurg (416810) Organizes One Day National Workshop On 'Group Theory & Its Applications' 25th February, 2017</p> <p style="text-align: center;">Schedule</p> <table border="1"> <thead> <tr> <th>Session</th> <th>Time</th> <th>Topic</th> </tr> </thead> <tbody> <tr> <td></td> <td>09.00 to 10.00</td> <td>Registration</td> </tr> <tr> <td></td> <td>10.00 to 11.00</td> <td>Inauguration</td> </tr> <tr> <td>Session-I</td> <td>11.00 to 12.00</td> <td>Prof. Dr. Sudhir Ghorpade (Symmetric Group)</td> </tr> <tr> <td>Session-II</td> <td>12.00 to 1.00</td> <td>Prof. Nitin Darkunde (Group Actions)</td> </tr> <tr> <td></td> <td>1.00 to 2.00</td> <td>Lunch Break</td> </tr> <tr> <td>Session-III</td> <td>2.00 to 3.00</td> <td>Prof. Dr. Sagar Delekar (Applications of Group Theory in Chemistry)</td> </tr> <tr> <td>Session-IV</td> <td>3.00 to 3.30</td> <td>Valedictory Function</td> </tr> </tbody> </table>		Session	Time	Topic		09.00 to 10.00	Registration		10.00 to 11.00	Inauguration	Session-I	11.00 to 12.00	Prof. Dr. Sudhir Ghorpade (Symmetric Group)	Session-II	12.00 to 1.00	Prof. Nitin Darkunde (Group Actions)		1.00 to 2.00	Lunch Break	Session-III	2.00 to 3.00	Prof. Dr. Sagar Delekar (Applications of Group Theory in Chemistry)	Session-IV	3.00 to 3.30	Valedictory Function	
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One day National workshop

Title: "Group theory and its applications"

Date: 25th February, 2017,

Speaker: 1) Hon. Sudhir Ghorpade (IIT Bombay)
2) Hon. Nitin Darkunde (Nanded University)

On this occasion Dr. C.S.Kakade (Principal),

Mr.S.B.Kadam(Hod.Dept. of Mathematics),Dr.S.K.Pawar (Head, Dept. of Mathematics in Kudal, Mumbai University), Mr.S.N. Sankeshwari, Mrs. Anita Patil were present.

Academic Year 2017-18

1) National Mathematics Day



Inauguration of Poster Presentation



Prof. Sagar N. Sankeshwari felicitating Mr. Shailendra Raorane





Title: “National Mathematics Day”

Date: 22th February, 2017,

On this occasion Dr. C. S. Kakade (Principal of ARACS college Vaibhavwadi), Mr. S.N.Sankeshwari (Dept. of Mathematics), Mr. Ramesh Kashetti (Science Association Chairman), Mr. Shailendra Raorane and Mr. Raorane were present.

2) National Science Day



Prof. Sagar N. Sankeshwari delivering lecture



All the college staff enjoying Exhibition



Title: "National Science Day"

Date: 28th February, 2018

On this occasion Dr.C.S.kakade(Principal),Mr.S.N.Sankeshwari(Dept. of Mathematics), Mr. Ramesh Kashetti (Science Association Chairman),Mr. D.M.Dhere(Dept. of Physics) were present.

Academic Year 2018-19

1) National Mathematics Day









Title: “National Mathematics Day”

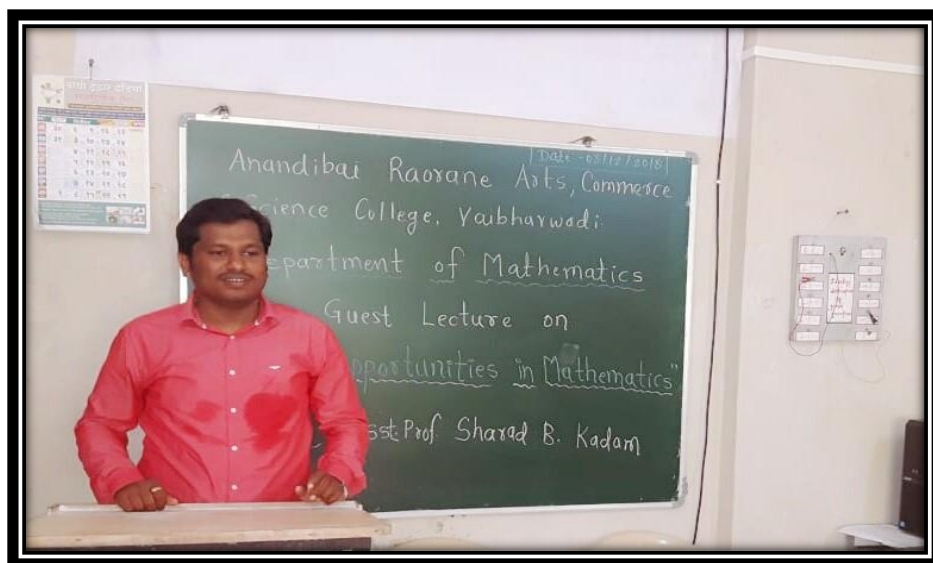
Date: 22th December, 2018.

On this occasion Dr. C. S. Kakade (Principal of ARACS college Vaibhavwadi), Mr. S.N.Sankeshwari(Dept. of Mathematics), Mr. B.D.Ingawale were present.

2) Guest lecture on “Career Opportunities in Mathematics”



Asst Prof. S.N.Sankeshwari delivering introduction speech



Asst.Prof S.B.Kadam delivering lecture on “Career Opportunities in Mathematics”

Title: Guest lecture on “Career Opportunities in Mathematics”

Speaker: Mr. Sharad B. Kadam(Assistant Professor, Shivaji College, Parbhani)

Academic Year 2019-20

1) National Mathematics Day



