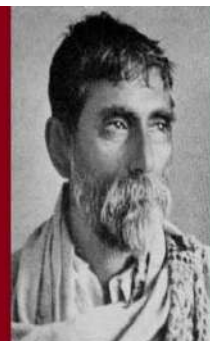


DEPARTMENT OF CHEMISTRY



Courses Offered:

1. B.Sc. in Chemistry (UG)
2. M.Sc. in Organic Chemistry (PG)

Vision

- To produce capable chemistry graduates and post-graduates with an aptitude for research and leadership.

Mission

- To impart quality education through demanding academic programmes.
- To advance the chemical sciences through the education of undergraduate students by providing them with quality classroom, laboratory and service opportunities.
- To enhance career opportunities for students through exposure to society and industry.
- To inculcate sensitivity forward society and a respect for the environment.

What is Chemistry?



About Department:

Anandibai Raorane Arts, Commerce and Science College, Vaibhavwadi has aptly rendered services to the community, by the way of providing educational facilities, particularly to the rural students. Chemistry is a laboratory science that is based on observations of changes that occur when different materials are mixed. In our college, the department of chemistry has been established in **academic year 2012-13** with nineteen students who had dreams and desire to enrich their competence in the field of chemical 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 such as well-maintained store room, well equipped laboratories, laboratory drainage etc.

From academic year 2019-20 M.Sc. in Organic Chemistry (PG programme) started for providing the higher education facility for rural students with able guidance of our Management, Hon. Principal Dr. C. S. Kakade

It is a matter of pride to mention that our two staff members are completed Ph.D. and two staff members are pursuing. Our staff members acquired not only good academic qualification, but they are also ahead in extra-curricular and social activities like, participation and presentation of research paper in various national and international conferences, seminars and workshop, participation in Blood Donation camp etc.




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

Innovative practice chemistry club have been established from academic year 2014-15 and various activities like study tour, quiz competition, poster presentation competition, essay writing competition, science festival, Rasayan Jatra etc. are organized through chemistry club.

Students of Chemistry 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 chemistry. This activity enhances scientific attitude and popularize science in the society.

Departmental faculty

Sr. No.	List of Faculty	Designation & Qualification
Teaching Faculty		
1		<p>Name: Dr. D. M. Sirsat</p> <p>Designation: Head & Assistant Professor</p> <p>Qualification: M.Sc., Ph.D., SET, NET-UGC-JRF, GATE</p> <p>Experience: 6 Years</p> <p>Area of Expertise: Organic Synthesis</p> <p><u>Curriculum Vitae</u></p>
2		<p>Name: Mr. K. S. Pakhare</p> <p>Designation: Assistant Professor</p> <p>Qualification: M.Sc., SET, GATE</p> <p>Experience: 5 Years</p> <p>Area of Expertise: Material Science</p> <p><u>Curriculum Vitae</u></p>
3		<p>Name: Mr. S. M. Karape</p> <p>Designation: Assistant Professor</p> <p>Qualification: M.Sc., NET-CSIR-JRF (2), GATE</p> <p>Experience: 4 Years</p> <p>Area of Expertise: Material Science</p> <p><u>Curriculum Vitae</u></p>
4		<p>Name: Dr. V. B. Gopula</p> <p>Designation: Assistant Professor</p> <p>Qualification: M.Sc., Ph.D. NET</p> <p>Experience: 3 Years</p> <p>Area of Expertise: Organic Synthesis</p> <p><u>Curriculum Vitae</u></p>

5		Name: Miss. K. M. Sutar Designation: Assistant Professor Qualification: M.Sc. Experience: 1 Years Area of Expertise: Material Science Curriculum Vitae
Non-Teaching Staff		
1		Name: Mr. M. G. Raorane Designation: Laboratory Assistant Qualification: B.Com. Experience: 6 Years <u>Curriculum Vitae</u>
2		Name: Mr. B. L. Bavdane Designation: Laboratory Attendant Qualification: S.S.C. Experience: 25 Years <u>Curriculum Vitae</u>
3		Name: Ms. M. S. Pednekar Designation: Laboratory Attendant Qualification: H.S.C. Experience: 4 Years <u>Curriculum Vitae</u>

Laboratory Facilities

- Two well-equipped Laboratory
- Well-furnished classroom with LCD projector
- All necessary equipment's to perform the experiments
- All necessary glassware's for regular work
- Computer set with printer

Strength of Department

Sr. No.	Academic Year	B.Sc. Part-I	B.Sc. Part-II	B.Sc. Part-III	M.Sc. Part-I	Total	Students Teachers Ratio
1	2012-13	19	--	--	--	19	19:1
2	2013-14	27	19	--	--	46	46:2
3	2014-15	51	27	12	--	90	90:3
4	2015-16	35	43	20	--	98	90:3
5	2016-17	60	29	27	--	116	116:3
6	2017-18	37	36	22	--	95	95:4
7	2018-19	51	29	29	--	109	109:4
8	2019-20	73	28	20	20	141	141:4

Results of T.Y. B.Sc.

[illegible]

Departmental Rank Holders

Sr. No.	Academic year	Sem.	Name of student	Grade	Departmental Rank
1	2014-15	V	Mr. Kamble Praful Dhondiram	O	I st
			Mr. Pawar Deepak Prakash	O	II nd
			Mr. Raut Tofik Hamid	O	III rd
2	2014-15	VI	Mr. Kamble Praful Dhondiram	O	I st
			Mr. Pawar Deepak Prakash	O	II nd
			Mr. Raut Tofik Hamid	O	III rd
3	2015-16	V	Miss. Thange Nikat Ismail	O	I st
			Miss. Thange Nagma Ismail	O	II nd
			Miss. Sutar Kalavati Maruti	O	III rd
4	2015-16	VI	Mr. Warang Girish Shrikrishna	O	I st
			Miss. Thange Nagma Ismail	O	II nd
			Miss. Sutar Kalavati Maruti	O	III rd
5	2016-17	V	Miss. Chavan Pratiksha Prasad	O	I st
			Miss. Rahate Ankita Suresh	O	II nd
			Miss. Raorane Shraddha Sunil		
			Mr. Mestri Kuldeepak Shamsudar	O	III rd
6	2016-17	VI	Miss. Rahate Ankita Suresh	O	I st
			Miss. Chavan Pratiksha Prasad	O	II nd
			Miss. Raorane Shraddha Sunil	O	III rd
7	2017-18	V	Miss. Patankar Jagruti Shridhar	O	I st
			Miss. Gurav Sonal Madhukar	O	II nd
			Mr. Shelar Prafulla Shivaji	O	III rd
8	2017-18	VI	Miss. Patankar Jagruti Shridhar	O	I st
			Miss. Gurav Sonal Madhukar	O	II nd
			Miss. Kokate Rekha Vijay	O	III rd
9	2018-19	V	Miss. Naik Rinaj Farukh	O	I st
			Miss. Tamhankar Anuprita Bhalchandra	O	II nd
			Miss. Joil Arati Sunil	O	III rd
10	2018-19	VI	Miss. Joil Arati Sunil	O	I st
			Miss. Tamhankar Anuprita Bhalchandra	O	II nd
			Miss. Naik Rinaj Farukh	O	III rd

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

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ge
Co

urse for F.Y.B.Sc. Students

2. Remedial Coaching

Types of learner		
Slow learner	Remedial	Extra lecture individual problem solving etc.
Medium learner	Improvement	Test, problem solving etc.
Advance learner	Enrichment	Projects, students seminars etc.

Research Project

Sr. No.	Title of Project	Name of Investigator	Sanctioned Amount	Year	Status
1	"Diversity Oriented Synthesis of Thiazole and Pyrazole Integrated Chalcones as Potent Leads for the Development of Anti-microbial and Anti-inflammatory Drugs"	Mr. D. M. Sirsat	30000/-	2018-19	Completed
2	"Facile Synthesis and Characterization of CdO-ZnO nano-composite"	Mr. K. S. Pakhare	30000/-	2019-20	Ongoing
3	"Applications of Organocatalysis in the Synthesis of Heterocyclic Framework"	Mr. S. M. Karape	20000/-	2019-20	Ongoing
4	"New Synthetic Method for the Regioselective Synthesis of 1,2,3-Triazole Derivatives"	Dr. V. B. Gopula	30000/-	2019-20	Ongoing

Research Publication, Book Publication & Achievements of Faculty

Sr. No.	Name of Faculty	Achievements
1	Mr. D. M. Sirsat	Curriculum Vitae
2	Mr. K. S. Pakhare	Curriculum Vitae
3	Mr. S. M. Karape	Curriculum Vitae
4	Dr. V. B. Gopula	Curriculum Vitae

Honors, Awards and Rewards of Students

Sr. No.	Name of Student	Class	Achievement	Year
1	Miss. Kalavati Maruti Sutar	T.Y.B.Sc.	Student of the Year	2015-16
2	Miss. Pratiksha Prasad Chavan	T.Y.B.Sc.	Student of the Year	2016-17
3	Miss. Ankita Suresh Rahate	T.Y.B.Sc.	Best Reader	2016-17
4	Miss. Sonal Madhukar Gurav	T.Y.B.Sc.	Student of the Year	2017-18
5	Miss. Jagruti Shridhar Patankar	T.Y.B.Sc.	Best Reader	2017-18
6	Miss. Sonal Madhukar Gurav	T.Y.B.Sc.	G.S.	2017-18
7	Mr. Amit Rajkumar Sonkar	T.Y.B.Sc.	Student of the Year	2019-20

Achievements in Co-curricular & Extra-curricular Activities

Sr. No.	Name of Student	Class	Name of Activity	Achievement	Date
1	Miss. Kalavati M. Sutar	T.Y.B.Sc.	District Level Avishkar Research Convention	Selection to University Level	28 th Nov. 2015
2	Miss. Pratiksha P. Chavan & Miss. Kajol C. Panchal	T.Y.B.Sc F.Y.B.Sc	District Level Avishkar Research Convention	Selection to University Level	13 th Dec. 2016

3	Miss. Pratiksha P. Chavan	T.Y.B.Sc	State Level Research Paper Presentation Competition-2017	First Prize	11 th Feb. 2017
4	Miss. Vaibhavi G. Malavade & Mr. Ninad S. Panchal	S.Y.B.Sc S.Y.B.Sc	District Level Avishkar Research Convention	Selection to University Level	9 th Dec. 2017
5	Mr. Amit R. Sonkar & Miss. Supriya C. Narkar	S.Y.B.Sc T.Y.B.Sc	District Level Avishkar Research Convention	Selection to University Level	16 th Dec. 2018
6	Miss. Supriya C. Narkar	T.Y.B.Sc	District level Essay Writing Competition	First Prize	20 th July 2018
7	Miss. Manasi Padval	F.Y.B.Sc.	District Level Avishkar Research Convention	Selection to University Level	14 th Dec. 2019

Collaboration/ MoU With Other Institutes/ Industry

Sr. No.	Name of Other Institute/ Industry	Details
1.	Abasaheb Marathe Arts & New Commerce, Science College, Rajapur, Dist-Ratnagiri	Click Here
2.	Smile Additional Mineral Water, Vaibhavwadi	Click Here

Activities Conducted by Department

Academic Year 2014-15

Inauguration of Chemistry Club



Inauguration of chemistry club on 7th August, 2014 Chief guest Prin. Dr.C.S Kakade, Vice-Prin. Dr. N. V. Gawali, Prof. A. M. Kamble & Head, Dept. of Chemistry Prof. D. M. Sirsat

Poster Presentation Competition Dated on 7th August 2014





Poster Presentation Competition on 7th August, 2014, Chief guest Hon. Prin. Dr. C. S. Kakade, Vice-Prin. Dr. N. V. Gawali, Prof. A. M. Kamble & Head, Dept. of Chemistry Prof. D. M. Sirsat. Examiner of Poster competition Prof. R.P. Kashetti, Prof. S.B. Kadam & Dr. V. S. Jadhav

Academic Year 2015-16



Inauguration of Chemistry Club (14th August, 2015) Chief guest Joint Secretary of Maharana Pratapsinh Shikshan Sanstha Mumbai's Hon. Vijay B Raorane.

Rasayan Jatra Festival 2015-16





Poster Presentation Competition dated on 14th August, 2015, Chief guest Hon. D. P. Raorane
Secretary of M.P.S.S. Mumbai's & Joint Secretary Hon. Vijay B Raorane

Study Tour





Industrial visit at Padmashree Dr. D.Y. Patil Sugar Factory Asalaj, Tal-Gaganbawada, Dist-Kolhapur on 18th January, 2016.

Inauguration of Departmental Library



Chemistry Festival dated on 30th August, 2016, Chief guest Hon. Prin. Dr. C.S. Kakade, Hon. Vice-Prin. Dr. N.V. Gawali, Office superintendent Mr. Sanjay Raorane.

Academic Year 2016-17

University Level One Day Workshop on F.Y.B.Sc. Revised syllabus.



F.Y.B.Sc. revised syllabus workshop dated on 30th July, 2016, Chief guest Hon. Arjun Raorane & Hon. Shailendra Raorane Member of Maharana Pratapsinh Shikshan Sanstha Mumbai's. Principal of ARACS college Vaibhavwadi Dr. C.S.Kakade & Head Dept. of Chemistry Mr.D.M.Sirsat. Resource person of Workshop Prin. Dr. S.B. Dharap (Principal Bhausaheb Nene college, Pen), Dr. P.P.Kulkarni (Gogate-Jogalekar College, Ratnagiri), Dr. S.N. Gawale (D.B.J. College, Chiplun), Prof. Anand Pukale (Dr. Babasaheb Ambedkar College, Mahad), Prof. Dr. G.S.Nadkarni (Head, Dept. of Chemistry Goa University, Goa)

Chemistry Festival

a) Rangoli competition



b) Poster competition



Chemistry Festival dated on 30th August, 2016, Chief guest Hon. Prin. Dr. C.S. Kakade, Hon. Vice-Prin. Dr. N.V. Gawali, Office superintendent Mr. Sanjay Raorane.

C) Organized Guest Lecture



Prof. C. D. Bhenki (S. H. Kelkar College, Devgad)

D) Study Tour At National Chemical Laboratory Pune



Two days Study tour of T.Y.B.Sc. students (17 students & two faculty Prof. K.S. Pakhare & Prof. S. M. Karape) at National Chemical Laboratory Pune on 13th & 14th February, 2017. Memorial photographs with Scientist **Dr. P. P. Wadgaonkar sir**

Academic Year 2017-18

Chemistry Club Inauguration



Chemistry club Inauguration on 27th July, 2017, Chief guest Hon. Pramodji Raorane (secretary Local Management committee) Hon. Prin. Dr. C.S. Kakade, Hon. Vice-Prin. Dr. N.V. Gawali

Guest Lecture



Guest Lecture Organized for TYBSc students on 7th March, 2018. Chief Guest Asst. Prof. D. D. Bhenki



Guest lecture organized for SYBSc students on 17th March, 2018. Chief Guest Dr. S. S. Karhale



Guest lecture organized for FY/SY/TYBSc students on 17th March, 2018. Chief Guest Dr. Sharad K. Pasale

Educational Trip



Educational Trip of SYBSc Students at Dr. Babasaheb Ambedkar Marathwada University Aurangabad on 5th to 7th Feb. 2018



Educational Trip of TYBSc Students at Bangalore, Mysore & Ooty on 26th to 29th January, 2018

Academic Year 2018-19

Inauguration of Chemistry Club



Inauguration of Chemistry Club 2018-19 on 14th August, 2018

Power Point Presentation Competition



Power Point Presentation Competition on "Environment & Sustainable Development" on 14th August, 2018

District Level Essay Writing Competition





महाराणा प्रतापसिंह शिक्षण संस्था मुंबईचे,
आनंदीबाई रावराणे कला, वाणिज्य व
विज्ञान महाविद्यालय, वैभववाडी
ता. वैभववाडी, जि. सिंधुदुर्ग, पिन-४१६८१०
रसायनशास्त्र विभाग
आयोजित

जिल्हास्तरीय महाविद्यालयीन निबंध स्पर्धा
-:स्पर्धेचा विषय:-
“पर्यावरण व शाश्वत विकास”
शब्दसंख्या:- ८०० ते १२०० शब्द
परितोषक
प्रथम क्रमांक - रु. २०००/-, प्रशस्तीपत्र व सन्मानचिन्ह
द्वितीय क्रमांक - रु. १५००/-, प्रशस्तीपत्र व सन्मानचिन्ह
तृतीय क्रमांक - रु. १०००/-, प्रशस्तीपत्र व सन्मानचिन्ह
उत्तेजनार्थ - प्रशस्तीपत्र व सन्मानचिन्ह

-:आयोजक:-
प्राचार्य डॉ. सी. एस. काकडे
उप-प्राचार्य डॉ. बी. डी. इंगवले
प्रा. डी. एम. सिरसट, विभाग प्रमुख रसायनशास्त्र
प्रा. के. एस. पाखरे, रसायनशास्त्र विभाग
प्रा. एस. एम. करपे, रसायनशास्त्र विभाग
डॉ. बी. गोपुला, रसायनशास्त्र विभाग

मा. नाम. श्री. विनोदजी तावडेसाहेब
राज्यपरिमिद्ध, उच्च व तंत्रशिक्षण, क्रीडा व सांस्कृतिक विभाग मंत्री
व
महाराणा प्रतापसिंह शिक्षण संस्थेचे अध्यक्ष
यांना ५५ व्या वाढदिवसाच्या



हादिक शुभेच्छा

महाविद्यालया विषयी थोडक्यात . . .
 महाराणा प्रतापसिंह शिक्षण संस्था, मुंबईचे आनंदीबाई रावराणे कला, वाणिज्य व विज्ञान महाविद्यालयची स्थापना इ. स. १९९२ साली झाली. उत्कृष्ट वैयक्तिकी लक्षपूर्वकरीन इंगीत शिक्षणाला महाविद्यालय बसू करवालय आहे.
 संदर्भ **अध्यक्ष मा. नाम. विनोदजी तावडे, शिक्षण मंत्री, महाराष्ट्र राज्य** यांचा मार्गदर्शनाने महाविद्यालय दमनीकडे मार्गक्रमण करत आहे. शिक्षणक्षेत्रात विद्यार्थ्यांचा उदरगत पूर्णतः याच शास्त्रातील महाविद्यालयाचे कला, शिक्षण व सांस्कृतिक असे विविध उपक्रम यंत्रणे अन्वयेत. याचो आस्था महाविद्यालयाच्या विद्यार्थ्यांची बसविली विद्यार्थी, राज्य व राष्ट्रीय स्तरावर निवडणार आहे.

रसायनशास्त्र विभागाविषयी थोडक्यात . . .
 आनंदीबाई रावराणे कला, वाणिज्य व विज्ञान महाविद्यालयतील रसायनशास्त्र विभाग गेली पाच वर्षे महाराष्ट्रराज्यात विद्यार्थ्यांना वेदविशु मातृ लयाव्यतीत विविध कलाप्रदर्शना प्रोत्साहन देत आला आहे. या विभागातर्फे कोमटरी कलायुक्त मातृमातृ रसायनशास्त्र, कोमटरी पेटरीकल, पॉस्टर तयारी, शैक्षणिक रहस्य व बायोस विषय तयारी मातृदर्शन आहे. विविध उपक्रम आयोजित करण्यात आले. या विभागातील विद्यार्थ्यांनी महाराष्ट्रराज्यात व राष्ट्रीयस्तरीय स्तरावर निवड सादरीकरण स्पर्धा, बायोस्तर सार्वी जगा विविध उपक्रमालाच महाराष्ट्रराज्यात निवडिले जाते. या सर्वोत्ती विद्यार्थी उदरगत विचार करून **मा. मा. विनोदजी तावडे** यांना ५५ व्या वाढदिवसाचे अविश्व मातृत्त रसायनशास्त्र विभागाचा शांति निवृत्तरीय मातृदर्शनाने निवृत्त सार्वी आयोजित करण्यात आले आहे.

-: निबंध पाठविण्याचा पत्ता :-
रसायनशास्त्र विभाग, आनंदीबाई रावराणे कला,
वाणिज्य व विज्ञान महाविद्यालय, वैभववाडी
ता. वैभववाडी, जि. सिंधुदुर्ग, पिन-४१६८१०
संपर्क - ९४०३८६७२९३/९०९६५४३१५२

निबंध पाठविण्याचा अंतिम दिनांक ०५ ऑगस्ट २०१८

District Level Essay Writing Competition on “Environment & Sustainable Development”
on 20th July, 2018

Guest Lectures



Guest lecture of Dr. S. S. Karhale (Abasaheb Marathe College, Rajapur) on 1/10/2018



Guest lecture of Asst. Prof. B. A. Bulakhe (Abasaheb Marathe College, Rajapur) on 21/10/2018



Guest lecture of Dr. S. S. Karhale (Abasaheb Marathe College, Rajapur) on 9/3/2019

One Day Workshop on Importance of Medicinal Plants



Chief Guest Mr. Ramson (General Manager Himalaya Drugs), Dr. Shrinath Kavade (Director, SEBC) on 13/10/2018

One Day Workshop on Voice Culture & Personality Development



Chief Guest Mr. Nilesh Pawar (Zee Marathi Serial Actor)

One Day Workshop on Laboratory Safety



Chief Guest Prof. C. D. Bhenki (S. H. Kelkar College, Devgad)

Academic Year 2019-20

Inauguration of Chemistry Club 2019-20



Inauguration of Chemistry Club 2019-20 on 20th August, 2019

Celebration of International Periodic Table Year



Celebration of International Periodic Table Year by Organizing Poster Competition as well as quiz competition on Periodic Table on 20th August, 2019