

Shri Shivaji Arts, Commerce & Science College, Akot

Department of Physics

Introduction:-

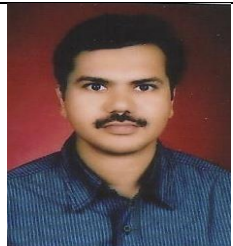
Department of Physics has adopted student centric approach from the beginning of 2013 as per the UGC. Our department students belong to the rural area they required the development in the academic as well as the personalities. It was only possible when students were more focus in the studies and maximum participation in a co-curricular activity. As per the syllabus of Sant Gadge Baba Amravati University Amravati designed such way that students were developed in overall manner. Taking the benefits of this department planned to increase the academics percentage of marks of the students as well as the participation of the students in co-curricular activity. Department organized unit wise test on each unit of the syllabus for all B.Sc. students and Viva. It would prepare and practice on written examination and oral for remember the answer of the questions. Also department organized various activities such as series of guest lecture, poster competition, Science model competition, science exhibition, Science Day competition and essay written and reading competition. In all the activities of the department students' actively participation was necessary. For increasing the participation, department felicitate the entire participant in the competition with the award of certificate also students who shows extraordinary performance in the competition they are felicitate by the gift and certificate. Department had felicitated maximum students as possible about (7-10 prizes in numbers). This initiation of the department students had participated in various activity regarding to the science and co-curricular activities and ultimately this benefitted to students regarding personality's developments. 62%- 65% of students had participated & involved in annual gathering event and earn the prizes. Also it will be seen that average percentage of students increase in graduate level as compared to 12th examination. So it is success of the department in a student centric approach.

B.Sc. Physics Program Outcomes:

- Create the facilities and environment in all the educational institutions to consolidate the knowledge acquired at +2 levels and to motivate and inspire the students to create deep interest in Physics, to develop broad and balanced knowledge and understanding of physical concepts, principles and theories of Physics.
- Learn, design and perform experiments in the labs to demonstrate the concepts, principles and theories learned in the classrooms.

- Develop the ability to apply the knowledge acquired in the classroom and laboratories to specific problems in theoretical and experimental Physics.
- Expose the student to the vast scope of Physics as a theoretical and experimental science with applications in solving most of the problems in nature spanning from 10^{-15} m to 10^{26} m in space and 10^{-10} eV to 10^{25} eV in energy dimensions.
- Emphasize the discipline of Physics to be the most important branch of science for pursuing the interdisciplinary and multidisciplinary higher education and/or research in interdisciplinary and multidisciplinary areas.
- To emphasize the importance of Physics as the most important discipline for sustaining the existing industries and establishing new ones to create job opportunities at all levels of employment.

Faculty Profile:-

Name of Permanent Faculty and Designation	Qualification	Date of joining/ transfer	Photo
Mr. Umar. T. Bhatia Assistant Professor and Head	M.Sc. SET, GATE	From 12.04.2012 onward	
Dr. Shrikant.H. Nimkar Assistant Professor	M.Sc. Ph.D.	Form 21.09.2019 till date	
Dr. Ashish. R. Chaoudhari Assistant Professor	M.Sc. Ph.D.	Form 21.09.2019 till date	
Dr. Poonam A. Fartode Assistant Professor	M.Sc. M.Phil. Ph.D.	Form 23.09.2019 till date	
Prof. Dipali P. Rathod Assistant Professor	M.Sc. SET	Form 24.09.2019 till date	
Transfer Staff Member			
Dr. D.S. Thakare Associate Professor and Head	M.Sc., PhD	Transfer on 6 th Oct 2016	

Dr. V. B. Bhatkar Associate Professor and Head	M.Sc., PhD	Transfer on 30.06.2013	
Non-Teaching			
Mrs. L.P. Sanap	B.A	Laboratory Assistant	
Mr. Ananta Kalmegh	B.A	Laboratory Attendant	
Clock Hour Basis			
Mr. D. P. Chaudhari	M.Sc.	1 st July 2018 to 15 th April 2019	
Ms. S. S. Joat	M.Sc.	1 st July 2018 to 15 th April 2018	

University Examination Results

Results → 2013-14

Sr. No .	Name of Teacher	Class & Semester	Paper	Total No. of students	Appeared	Student score below 20 marks	Passe d	Depart ment Result
<u>University Examination Result – Winter 2013</u>								
1.	DST,UTB	B.Sc. I Semester – I	1S	100	98	05	78	79.59%
2.		B.Sc. II Semester – III	3S	74	73	01	60	82.19%
3.		B.Sc. III Semester – V	5S	43	43	00	30	69.76%
<u>University Examination Result - Summer 2014</u>								
1.	DST,UTB	B.Sc. I Semester – II	2S	98	96	03	83	86.47
2.		B.Sc. II Semester – IV	4S	74	72	01	45	62.50
3.		B.Sc. III Semester – VI	6S	43	41	01	40	97.56

DST- Dr.D.S. Thakare & UTB- Mr. U.T. Bhati.

Results → 2014-15

<u>University Examination Result – Winter 2014</u>								
1.	DST,UTB, ASS	B.Sc. I Semester – I	1S	117	111	17	62	55.85
2.		B.Sc. II Semester – III	3S	95	93	03	68	71.57
3.		B.Sc. III Semester – V	5S	73	71	01	54	76.05
<u>University Examination Result - Summer 2015</u>								
1.	DST,UTB, ASS	B.Sc. I Semester – II	2S	112	109	10	78	71.56
2.		B.Sc. II Semester – IV	4S	93	92	03	69	75
3.		B.Sc. III Semester – VI	6S	72	72	01	58	80.66

DST- Dr.D.S. Thakare & UTB- Mr. U.T. Bhati, ASS- Abdul Shafique

Results → 2015-16

Sr. No	Name of Teacher	Class & Semester	Paper	Total No. of students	Appeared	Student score below 20 marks	Passed	Department Result
<u>University Examination Result – Winter 2015</u>								
1.	DST, UTB	B.Sc. I Semester – I	1S	130	128	05	84	63.28
2.		B.Sc. II Semester – III	3S	92	91	07	64	70.32
3.		B.Sc. III Semester – V	5S	76	76	00	53	69.73
<u>University Examination Result - Summer 2016</u>								
1.	DST, UTB,	B.Sc. I Semester – II	2S	124	119	17	76	63.87
2.		B.Sc. II Semester – IV	4S	89	82	15	47	57.32
3.		B.Sc. III Semester – VI	6S	76	74	00	56	75.68

DST- Dr.D.S. Thakare & UTB- Mr. U.T. Bhati,

Results → 2016-17

Sr. No	Name of Teacher	Class & Semester	Paper	Total No. of students	Appeared	Student score below 20 marks	Passed	Department Result
<u>University Examination Result – Winter 2016</u>								
1.	DST, UTB DPC PMS	B.Sc. I Semester – I	1S	117	117	02	82	70.08%
2.		B.Sc. II Semester – III	3S	103	102	00	64	62.74%
3.		B.Sc. III Semester – V	5S	72	71	02	55	76.38%
<u>University Examination Result - Summer 2017</u>								
1.	UTB DPC	B.Sc. I Semester – II	2S	117	114	10	70	61.40%
2.		B.Sc. II Semester – IV	4S	102	96	02	75	78.13%
3.		B.Sc. III Semester – VI	6S	71	70	01	62	88.57%

DST- Dr.D.S. Thakare & UTB- Mr. U.T. Bhati, DPC- Mr. D. P. Chaudhari

Results → 2017-18

Sr. No .	Name of Teacher	Class & Semester	Pape r	Total No. of studen ts	Appear ed	Student score below 20 marks	Passed	Departm ent Result
<u>University Examination Result – Winter 2017</u>								
1.	UTB DPC SSJ	B.Sc. I Semester – I	1S	117	117	02	82	70.08%
2.		B.Sc. II Semester – III	3S	103	102	00	64	62.74%
3.		B.Sc. III Semester – V	5S	72	71	02	55	76.38%
<u>University Examination Result - Summer 2018</u>								
1.	UTB DPC SSJ	B.Sc. I Semester – II	2S	117	114	10	70	61.40%
2.		B.Sc. II Semester – IV	4S	102	96	02	75	78.13%
3.		B.Sc. III Semester – VI	6S	71	70	01	62	88.57%

UTB- Mr. U.T. Bhati, DPC- Mr. D. P. Chaudhari & SSJ- Miss Surbhi S. Joat

Awards:-**Teacher:-**

- Dr. V.B. Bhatkar has been elected as a member of “Board of studies in Physics, SGB Amravati University, Amravati” in Academic year 2013-14
- Mr. U. T. Bhati Taluka Co-ordinator of NAAC on 2018-19

Students:-

- Ku. Mamta Palaspagar Stood 2nd in the merit list of Sant Gadge Baba Amravati University Amravati Feb-2016.
- Ms. Madeeha Maharosh Mohammad Saquib had been awarded 03golds and one silver in Physics in 34th convocation of SGBAU & stood 1st Rank in University Merit list for Summer 2017 Examination.
- Ms. Suchita Zade stood 5th in merit list of SGBAU in A.Y. 2017.
- Ms. Pratiksha Rekhate stood Probably stood 1st in merit A.Y. 2018
- Ms. Pratiksha Kulat stood 9th in merit A.Y. 2018



Ms. Pratiksha stood 2nd Rank in University Merit list for Summer 2015 Examination



Ms. Madeeha Maharosh Mohammad Saquib had been awarded 03golds and one silver in Physics in 34th convocation of SGBAU & stood 1st Rank in University Merit list for Summer 2017 Examination

Ms. Suchita Zade stood 5th Rank in University Merit list for Summer 2017 Examination



Ms. Pratiksha Rekhate stood 1st Rank in University Merit list for Summer 2018 Examination



Ms. Pratiksha Rekhate stood 9th Rank in University Merit list for Summer 2018 Examination

***Research publications in Journals:-**

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Link of the recognition in UGC enlistment of the Journal
Generation of power (Electricity) in fitness centre through Daily Exercise- A Review	Dr. D. S. Thakare & Mr. U. T. Bhati	Physics	Akanksha an International Indexed, refereed peer reviewed interdisciplinary Multilingual multi subject monthly research journal	2015-16	ISSN -2395-759X	
Purification techniques of salty water:- A Review	Dr. D. S. Thakare & Mr. U. T. Bhati	Physics	Akanksha an International Indexed, refereed peer reviewed interdisciplinary Multilingual multi subject monthly research journal	2015-16	ISSN -2395-759X	
Studies on Physicochemical properties of drinking water of Akola city	Dr. S. N. Patole & Mr. U. T. Bhati	Botany & Physics	IJBAT, Special Issue (2), Vol-V, July 2017	2017-18	ISSN No. 2347-517X (Online)	
Influence of L-lysine on optical and dielectric traits of cadmium thiourea acetate complex crystal"	Mr. U. T. Bhati	Physics	OPTIK-International Journal for Light and Electron Optics. Elsevier GmbH	2017-18	Optik - International Journal for Light and Electron Optics 170 (2018) 43–47 0030-4026	https://doi.org/10.1016/j.ijleo.2018.05.076

Publication of Books:-

Sl. No.	Name of the teacher	Title of the book/chapters published	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Relevant link
1	Dr. D. S. Thakare & Mr. U. T. Bhati	Research to the Beginners-	2016-17	ISBN-978-81-932950-0-7	SSAC&S Akot affiliated to SGBAU	Akanksha	
2	Dr. D. S. Thakare & Mr. U. T. Bhati	Step toward Research paper Writing	2016-17	ISBN-978-81-932950-1-4	SSAC&S Akot affiliated to SGBAU	Akanksha	
3	Mr. U. T. Bhati	Practical Physics Volume I	2017-18	ISBN 978-819322950-6-9	SSAC&S Akot affiliated to SGBAU	Akanksha	
4	Mr. U. T. Bhati	Practical Physics Volume II	2017-18	ISBN 978-81932950-7-6	SSAC&S Akot affiliated to SGBAU	Akanksha	

Presentation in conference:-

Sl. No.	Name of the teacher	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / international	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication
1	Dr. D. S. Thakare & Mr. U. T. Bhati	Phosphors for Medical Applications (Review)	NSRTMPC-2014	NSRTMPC-2014	National	2013-14	ISBN - 978-81-929395-2-0	SSAC&S Akot affiliated to SGBAU
2	Dr. D. S. Thakare & Mr. U. T. Bhati	Study of Magnetic Property of $[\text{Cu}(\text{NH}_3)_4]\text{SO}_4$ & $[\text{Ni}(\text{NH}_3)_6]\text{Cl}_2$	NSRTMPC-2014	NSRTMPC-2014	National	2013-14	ISBN - 978-81-929395-2-0	SSAC&S Akot affiliated to SGBAU
3	Dr. D. S. Thakare & Mr. U. T. Bhati	Preparation & Study of Dielectric Property of $[\text{Cu}(\text{NH}_3)_4]\text{SO}_4$ & $[\text{Ni}(\text{NH}_3)_6]\text{Cl}_2$	NSRTMPC-2014	NSRTMPC-2014	National	2013-14	ISBN - 978-81-929395-2-0	SSAC&S Akot affiliated to SGBAU
4	Dr. D. S. Thakare & Mr. U. T. Bhati	Review of Up converting Phosphors and its Application	NSRTMPC-2014	NSRTMPC-2014	National	2013-14	ISBN - 978-81-929395-2-0	SSAC&S Akot affiliated to SGBAU
5	Dr. D. S. Thakare & Mr. U. T. Bhati	Review of use of Probability theory in the statistical mechanics	NSRTMPA-2014	NSRTMPA-2014	National	2013-14	ISBN 978-81-929160-2-6	SSAC&S Akot affiliated to SGBAU
6	Dr. D. S. Thakare & Mr. U. T. Bhati	Review of Laser and its Application	NCRTMPA-2014	NCRTMPA-2014	National	2013-14	ISBN 978-81-929160-2-6	SSAC&S Akot affiliated to SGBAU

Major Research Project

Proposal of 01 Major Research project is submitted by Dr. D. S. Thakare

S. N.	Name of Faculty	Minor/ Major	Topic	Remarks
1.	Dr. D. S. Thakare	Major R P	Development Of VUV Phosphor For Mercury Free Lamp	Offline
2.	Dr. D. S. Thakare	Minor	Development Of VUV Phosphor For Mercury Free Lamp	** ID mention below
**MRP ID : ROMRP-WRO-PHYS-2015-16-5552 Regional Office : Western Regional Office (WRO) Research Project : Minor Broad Subject : Physics/Biophysics Areas of Specialization : Materials Science and Theoretical Physics				

Minor Research Project

Proposal of 01 Minor Research project is submitted by Mr. U. T. Bhati

S. N.	Name of Faculty	Minor/ Major	Topic	Remarks
2.	Mr. U. T. Bhati	Minor R P	Synthesis of Some Medicinal and VUV Phosphors	** ID mention below
**MRP ID : ROMRP-WRO-PHYS-2015-16-1576 Regional Office : Western Regional Office (WRO) Research Project : Minor Broad Subject : Physics/Biophysics Areas of Specialization : Condensed Matter Physics				

Professional development of faculty:

Sr. No.	Name of teacher	Programme	Duration	Organized by
1	Mr. U. T. Bhati	Faculty Development Programme	12 th December 2013 to 24 th December 2013	Shri Sant Gajanan Maharaj College of Engineering, Shegaon
2.	Mr. U. T. Bhati	32 nd orientation Programme	14 th September 2015 to 12 th October 2015	HRDC, SGBAU, Amravati (UGC)
3.	Mr. U. T. Bhati	Summer School programme	20.05.2016 to 9.06.2016	HRSC, Pt. Ravishankar Shukla university, Raipur

Conference and Seminar attended by the faculty:

Mr. U. T. Bhati.

- National conference on innovative research trends in Biological sciences on 8th and 9th September 2012 at Shri Shivaji College, Akola.
- National Seminar on Recent Trends in material Preparation & Characterization (Attended) on 24.02.2014
- National Level Two Days Laboratory workshop on Physics for UG Teachers 27-28 June 2014
- Awareness of Training & placement Activities for T.P.O.'s on 28th March 2015
- Mr. U. T. Bhati attended State level Seminar on Teaching, Learning and Evaluation on dated 20th Jan 2017.
- International conference on Recent trends in Science and technology at Shri Shivaji Science College, Nagpur on dated 12th -13th July 2017.
- National conference on "Recent Advances in Chemical Science" organized by Shri Shivaji College of Arts, Commerce and Science Akola on dated 26th -27th Feb 2018.
- Prof U. T. Bhati attended One day University Level workshop on "Pursuing Research in New context at SGBAU Amravati" organized by Vidya Bharati Mahavidyalaya, Amravati on dated 12th August 2018
- Mr. U. T. Bhati attended workshop on the occasion of "world youth Skill day" by SGBAU Amravati on dated 15.07.2018.
- Workshop on IQAC at Shri Shivaji Science College, Amravati on 26.03.2019
- Workshop on IQAC at Shri Shivaji Science College, Akola on 28.03.2019

***Seminars/conferences/workshop/guest lecture/competition to be organized: -**
(Curricular and Co-curricular Activities)

1. UGC sponsored National Seminar On “**Recent trends in Materials Preparation & characterization**” 24th February 2014 jointly organized by Department of Chemistry & Physics of Shri Shivaji Arts, commerce and Science college Akot.
2. Institutional level -One day workshop on Experiment in Physics jointly organized by Department of Physics of Shri Shivaji Arts, commerce and Science College Akot and Department of Physics of Smt. R. S. College, Anjangaon total 164 students were Participated in workshop on 17.02.2018
3. The department organized “Essay writing & Reading competition on 28th February 2014” for B.Sc.-I, II & III Students.
4. Department organized the guest lecture of Prof. R.B. Mankar, Department of Physics, Smt. Radhabai Sarada College, Anjangaon Surji on 20.12..2018
5. Science poster presentation on 02.10.2014
6. Science poster presentation-September 2016
7. Advance learner Participation in Seminars and competition.(2013-19)
8. “Essay writing & Reading competition”—Important of Science On 28th February 2014
9. Research Scholar Mr. V. B. Korde, Laxminarayan institute of Technology, Nagpur On date 6th August 2016. On topic “Effect of impurities and characteristic on ferrometric single crystal.
10. राष्ट्रमाता जिजाऊ व स्वामी विवेकानंद जयंती तसेस राष्ट्रीय युवा दिन निमित्त एक दिवसीय कार्यक्रमाचे आयोजन-१२ जानेवारी २०१५ (Celebrate the birth anniversary of the Rashtramata Jijau and Swami Vivekananda Organizing a one-day event for National Youth Day - 12 January 15)
11. राष्ट्रमाता जिजाऊ व स्वामी विवेकानंद जयंती साजरी -१२ जानेवारी २०१६ (Celebrate the birth anniversary of the Rashtramata Jijau and Swami Vivekananda - 12 January 2016)
12. राष्ट्रमाता जिजाऊ व स्वामी विवेकानंद जयंती साजरी तसेस राष्ट्रीय युवा दिन निमित्त एक दिवसीय कार्यक्रमाचे आयोजन-१२ जानेवारी २०१७ (Celebrate the birth anniversary of the Rashtramata Jijau and Swami Vivekananda Organizing a one-day event for National Youth Day – 12 January 17)
13. राष्ट्रमाता जिजाऊ व स्वामी विवेकानंद जयंती तसेस राष्ट्रीय युवा दिन निमित्त एक दिवसीय कार्यक्रमाचे आयोजन-१२ जानेवारी २०१८ (Celebrate the birth anniversary of the Rashtramata Jijau and Swami Vivekananda Organizing a one-day event for National Youth Day - 12 January 18)
14. राष्ट्रमाता जिजाऊ व स्वामी विवेकानंद जयंती तसेस राष्ट्रीय युवा दिन निमित्त एक दिवसीय कार्यक्रमाचे आयोजन-१२ जानेवारी २०१९ (Celebrate the birth anniversary of the Rashtramata Jijau and Swami Vivekananda Organizing a one-day event for National Youth Day - 12 January 19)
15. Pre Model and Model competition organized by department on 20th December 2016 for B.Sc. I

16. Science Exhibition on the occasion of 119th Jayanti Utsav (Birth Anniversary Celebration) of Founder President Shikshanmaharshi Dr. Panjabrao Deshmukh.
17. Science Exhibition on the occasion of 120th Jayanti Utsav (Birth Anniversary Celebration) of Founder President Shikshanmaharshi Dr. Panjabrao Deshmukh.
18. "Science Model Competition" 12th March 2014
19. Science Model Competition" 10.10.2015
20. Science Model Competition" 30.09.2016
21. Project-Paper Presentation competition For B.Sc. & III
22. "Renewable energy source and it's important to society" on date 12.10.2017 For B.Sc.-I
23. One day workshop on "Video conferencing and tonner refilling" on dated Educational tour for Science- Nature- Spirituality- Superstition on March 2019
24. Quiz competition on "Structure of Earth and Atmosphere" on 30.07.2018
25. Lecture Series organized by Department of Physics
26. One Day Workshop on "Awareness of Google Apps :- Google Docs and Google Translator" on 27.11.2018
27. Science Model and Poster Presentation and Online Quiz Competition Jointly organized by Department of Physics, Shri Shivaji Arts, Commerce and Science College, Akot and Smt. Radhabai Sarada College, Anjangaon Surji.
28. Field project :- Awareness campaign in Society:-"Renewable Energy sources and E-Waste Management" 2018.
29. Field project :- Awareness campaign in Society:-"Renewable Energy sources and E-Waste Management" 2019
30. Field project: - "Remove fear, take participation & create Interest in Science"-2017.
31. Field project: - "Remove fear, take participation & create Interest in Science"-2018.
32. Lecture series through Video Conferencing in Academic Year 2018-19.

Collaboration:-

- MOU has signed with Department of Physics, Smt. Radhabai Sarada Arts, Commerce and Science College, Anjangaon Surji on Jan 2018.
- Science Model and Poster Presentation and Online Quiz Competition Jointly organized by Department of Physics, Shri Shivaji Arts, Commerce and Science College, Akot and Smt. Radhabai Sarada College, Anjangaon Surji.
- Institutional level -One day workshop on **Experiment in Physics** jointly organized by Department of Physics of Shri Shivaji Arts, commerce and Science College Akot and Department of Physics of Smt. R. S. College, Anjangaon total 164 students were Participated in workshop on 17.02.2018.

Consultancy

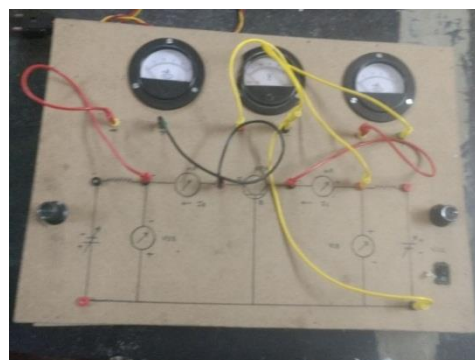
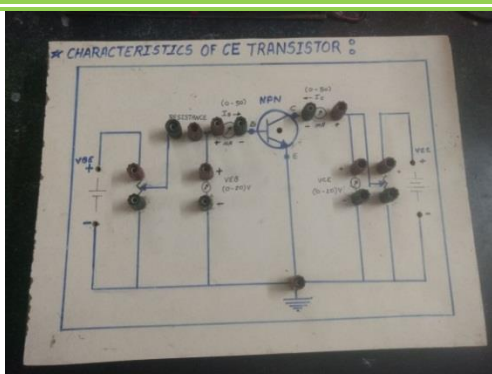
- Prof. D.S. Thakare had guided the 11th & 12th Standard student of Sant Paul Academic & junior college Akot on topic “Fabrication of Basics instrument for Physics Laboratory”.
- Organizing training programmed for the student “Fabrication of basics instrument for Physics laboratory, in which 05 kits was fabricated by B.Sc.-II Student having a cost of approx. Rs. 10,000/- and handover to department.

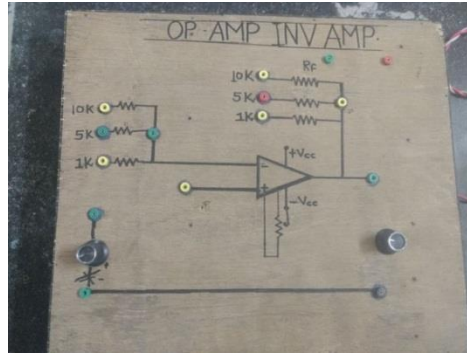
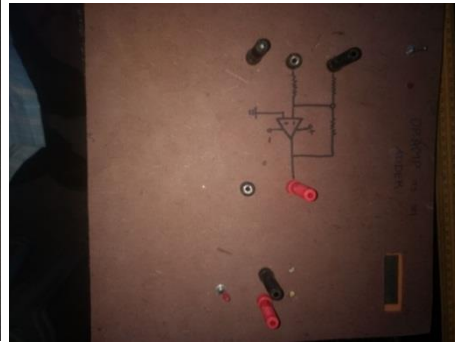
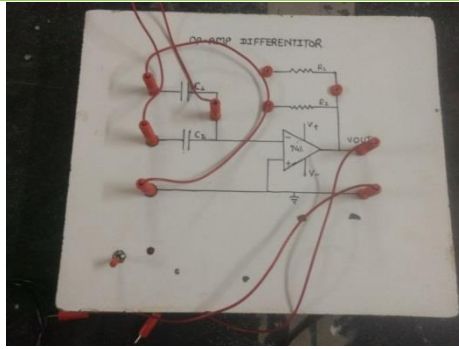
The following kits were constructed by the students.

- CE mode of transistor Approximately cost Rs. 2100/-
- Zener regulated power supply Approximately cost Rs. 1800/-
- OP- Amp as non-inverting Approximately cost Rs. 2000/-
- OP-Amp as differntiater Approximately cost Rs. 2200/-
- OP-Amp as Adder Approximately cost Rs. 1900/-



Dr. D.S. Thakare delivering the guest lectures on the topic Fabrication of instrument of 12th Std.





B.Sc. II Students fabricates electronics kit

Best practices of the department

- **Meeting of failure student has taken:-**

Department had policy to concentrated to the slow learners. Department evaluate the result of every semester and find out the students who were fail in this semester. Notice was circulated in the classes and display on the notice board regarding to the meeting of failure students. Failure means something was going to be wrong. So two way communications were set up between the students and teachers in this meeting & the difficulty of the students was tried to solve in this meeting.

- **Prepared important question from them.**

Department arranged unit wise test on each unit of the syllabus for every class. The admission from the under graduation to the post-graduation is on the basis of the percentage of the mark obtained in all semesters. There were Limited seats for the post-graduation in the university. So, department has worked for better percentage of the result of the students. There is a great possibility in this rural area if the students fail then he or she may be dropped out from the college. Department teachers have arranged the unit wise test on each unit to cover the important questions in the unit. Such type of activities improved the writing skill of the student with the knowledge.

- **Felicitatation maximum students for their co-curricular activity as well as academic achievement.**

For overall development of the students it is necessary to participated in co-curricular activities with academic activities. The BSc student needed for continuous motivation from the Teachers for their academic and personality development. They are fear to participate in the activities. As we know that, participation in any types of the activity improved the personality and knowledge. Department /college arrange the different types of activities but if students are not participated then the outcome of the program is definitely bad. In any activities/competition we were felicitated very less number of students as compared to the participant. So, department has decided to felicitate each and every participant in the competition by the certificate. Similarly department tried to felicitate more than 5 to 10 students in each competition. So, in the last few year students of the department participate in maximum number in college activities. The ratio of participant is increases due to the felicitation of the students. If felicitate the students it was make them more confidence and improve their personalities and knowledge. This result in annual gathering approximately 69% students has participated in competition and earned prize and participant certificates.



Participation of students in Annual Jayanti Utsav

- **E-learning materials developed by students in department.[Through Video Recording]**

Department try to generating the E resources for the knowledge, as all you know that if you search anything on the Google, YouTube do you got the information regarding to the to the topics. Also in modernization in rural area, camera phone was easily available in family members. So, department teacher explain the some topics by using the ICT tools and showing some videos from the YouTube's, NPTEL Virtual lab for gain extra knowledge regarding to the topics.

Department students also motivated by seeing this video & try to record their own presentation regarding to the practicals, seminar and some co-curricular activities. Some students had got the success to generate the own E resources. But after seeing their own recording they realized that there was scope for better improvement in the communication skill, presentation and knowledge. So such types of a material are available to the department created by the students in the laboratory. Micro personality development of students has taken place through self-seminar video recorded.

- **Supportive roll play by department of Physics in Merit Mission Concept.**

Department play a supportive role in a merit mission of the college. Our students are very talented but they missed their opportunity scoring few marks less in the merit list. For advanced learner it is necessary guidance. The talented students had enrolled in Merit

mission by the co-coordinator Dr. R.M. Jumle. So, department teachers play a supporting role in this committee in guidance Dr. R. M. Jumle. As result of this in a previous few years department students are come in the merit list.



Dr. R. M. Jumle guided the student of B.Sc.-I year Merit Mission concept of college with committee members.

- **Use to student for email & online application.**

Today's era, we can't be imagining without Technology. So it is necessary the use of Technology for betterment of the education. Also students are aware how to use these Technologies for education.

The basic for the use of Technology to know how to send email and read email from own email ID. Teacher asked a question in the class how many students have an email id, very few students Rises hand. Department tried students to use of email id and know the basic concept regarding to the read write email. So, department decided if we collect the project of the students through email then it gives the better used to work for the student. For that purpose, department were continuously motivating the student to use their email id. As a result of this now most of the students having their own email ID which is necessary for online applications and many other government schemes.

Group discussion:-

Department of Physics organized the group discussion for the BSc final year students keeping in the point of view to express their knowledge in a group. Department allotted the some topics in the syllabus of the BSc final year to the group of the students and told him to express their

own view up to the one minute and then you had given the 5 minutes to discuss the topic in a group and finally one of them from you give the final conclusion regarding to the topics. All BSc final year students approximately participated in these activities with the group of the 8 to 10 student in which 2-3 boys and remaining were girls.

Firstly, all the students hesitated to express their knowledge in front of their classmates but few students were breaking this ice and actively express their knowledge with the group. These activities help them to remove shyness and fear in their mind.



Group discussion Activity- Students of B.Sc-II year participated and shared their views on given topics



Group discussion Activity- Students of B.Sc-II year participated and shared their views on given topics



Group discussion Activity- Students of B.Sc-II year participated and shared their views on given topics

Alumni Visit to Department of Physics in A.Y. 2018-19

Academic year 2018-19, department of Physics organized the various Alumina lecture regarding the guidance to the post -graduation admission and competitive examination. In this academic year Mr. Ashish Khotre, Mr. D. P. Chaudhari, Miss. Pratiksha Kulat, Ms Priyanka Raghuwanshi visited to the department and guided to the BSc final year and 2nd year students.

Innovative Activities:-

1. Under **“Save Electricity and Save Nature”** the department of Physics decided to switch off electric power supply of whole college on every Tuesday & Wednesday for ½ hour intentionally without suffering regular work.
2. Innovative Activity: Creation of E-resources.
3. Gain Knowledge, solve Problem.

Extension activity:-

- Participate in N. S. S. Camp at Jalgaon Nahate and Blood donation Camp.
- From Dept. Mr. U. T. Bhati Actively collaborated with NSS and participated “Birth day ceremony of Tree and Environment workshop” at Khairkhed on dated 20/10/2016.
- Green Initiative of Department.
- “Model Selfies”- Scientific Model on renewable energy source made by student has explained to relative and post selfies to department.
- Mr. D. P. Chaodhari (CHB) had delivered the guest lecture to M.Sc. (Physics) Student in W-2016 of subject Classes at Shri Shivaji College of Arts, Commerce & Science Akola.
- Mr. U.T. Bhati worked as examiner in poster competition on topic Bio diversity and its conservation organized by the department of Botany on db. 28.01.2017.
- In Extension Activity, Student presented Science Model to school and college under the Awareness Programme **“Remove fear, take participation & create Interest in Science”- 2017. In this extension total no. of student are participate 50 and benefitted to 1000 student in nearby village of Akot.**
- Department organized 2hr lecture for class X student regarding Practical in Physics for Babu Jagjeevanram Highschool Akot.
- Blood donated by U. T. Bhati on 19/10/2017
- “Remove fear, take participation & create Interest in Science”-2017.
- “Remove fear, take participation & create Interest in Science”-2018.
- “Remove fear, take participation & create Interest in Science”-2019.
- Field project :- Awareness campaign in Society:- **“Renewable Energy sources and E- Waste Management”**

Co-curricular Responsibility:-

S. N.	Name of Faculty	Session 2013-14 onward	Event
1.	Dr. D. S. Thakare	Officer In-charge	University Examination W-2013 & S-2014
2.	Mr. U. T. Bhati	As Coach/ Manager of Team	Intercollegiate Soft ball competition
3.	Mr. U. T. Bhati	Assistant officer Incharge	S-2013,W-2013,S-2014,W-2014,S-2015,S-2017 University Examination
4.	Dr. D. S. Thakare	Co-officer	W-2015 & S- 2015University Examination

Report

UGC sponsored National Seminar on
‘Recent Trends in Material Preparation & Characterization’
24th February 2014

Organized by Department of Chemistry & Physics, Shri Shivaji Education Society Amravati's
Shri Shivaji College, Akot,-444101

- The National Seminar jointly organized by the Department of Chemistry and Physics on the topic “Recent Trends in Material Preparation & Characterization” on 24th February 2014 sanctioned by UGC.
- Seminar was inaugurated by Hon’ble Dr. Mohd. Samiullah, Dean, Faculty of Arts, SGB Amravati University, Amravati, in presence of Hon’ble Adv. Arunbhau Shelke, President Shri Shivaji Education society’s Amravati and other executive member of society’s.
- The seminar was beneficial to the young scientists working in the field of material science. In this seminar the interaction with the resource persons was boosted and channelized the existing methods of materials preparation. In recent times, there is much advance in the characterization of the materials. The Nano materials preparation and study of their morphology to suit various applications is the major field of research. Their shall be specific discussion on the novel synthesis of bio- materials, Phosphors etc. has taken place in seminar.
- Dr. Rajendra Prasad, Professor, School of Chemical Sciences, Devi Ahilya University, and Indore were delivered key notes address on recent trend in material synthesis.
- Dr. N. G. Belsare, Associate Professor & Head, Department of Physics, Vidyabharati Mahavidyalaya, Amravati has delivered the talk on Historical contribution of Indian to Research and Dr. D. T. Mahajan, Vice Principal & Head, Department of Chemistry, Vidyabharati Mahavidyalaya, Amravati, was chairperson of technical session
- 41 Research paper were published in proceeding of National seminar.
- Nearby 60 delegates and 40 students participating in seminars.
- E- Copy of souvenir was available on website of college.



**Inauguration function of National Seminar on the topics
“Recent Trends in Material Preparation & Characterization”**



Dr. N. G. Belsare Associate Professor and Head, Department of Physics, Vidyabharti Mahavidyalaya Amravati sharing knowledge with participant in National seminar



Velidatory function of National Seminars



Dr. Rajendra Prasad, Professor, School of Chemical Sciences, Devi Ahilya University, Indore was observing the research articles and interact with participant in seminars

Report

“Essay writing & Reading competition”—Important of Science

On 28th February 2014

Department of Physics organized the essay writing and reading competition on the occasion of Science Day. The topic of the essay writing and reading was importance of science. Mr. U. T. Bhati had given the introduction regarding to the competition. In this competition B.Sc. first year students participated. Firstly 20 minute was allotted to write an essay on the topic. It was surprised competition so simultaneously teacher in the department guided students how to write the essay on the importance of the science. This was a one part of the competition after that student had been given next 10 minute for preparation to read the essay in front of the other. Firstly the student were hesitated to read the essay in front of the classmates but continuous motivation of the teachers of the department finally student got confidence and one by one read the essay which had written by them. The aim of the competition was student make them confidence to speak in front of the other. Simultaneously, had known the important of science. Show some few students were coming and read their essays in front of the class. In this competition approximately 38 student were participated. Most of the student had written essay on the importance of the science. Students belonged to science steam, they were well known of the importance of the science. They put the positive side of the science as well as at the same time overuse of any Technologies would be harmful to the human being was also mentioned by the students. The competition had organized with the help of Mr. Umar Bhati. On this occasion Dr. D. S. Thakare express their viewed on the importance of the science and gave the best wishes to the student for future participation and academic growth.



Mr. U. T. Bhati, Assistant professor in Physics interact and guided the student on science day



Essay writing and reading competition on occasion of science days



Essay writing and reading competition on occasion of science days

Report

SCIENCE POSTER PRESENTATION

On the occasion of Mahatma Gandhi Jayanti, department of Physics organized the science poster presentation competition For B.Sc.1st year. Competition was took place in room number 16. The inaugurator of the competition was Dr. S.V. Kolhe Associate professor in Chemistry. In the inauguration speech Dr. S.V.Kolhe appreciated the students who participated in the competition also motivate the student participate in the annual gathering for science exhibition. On this occasion Dr. D. S. Thakre Associate professor and head in Physics has shown satisfaction about the poster made by the students. It was the first time that B.Sc. (Mathematics+ CPS) students involved in the competition in large quantity. The examiner of the competition was Prof. G. B. Andhale and Prof. A. R. Somwanshi evaluated each poster with the presentation of the participant .Examiner had shown the satisfaction of the explanation of the poster given by the students. At the same time examiner has given the suggestion to the students for future prospective.

In this competition approximately 60 students' participated and 5 posters were numbered for their work. The effort has taken by the Mr. U.T. Bhati, Assistant professor in Physics to organize the competition with support of non-teaching staff Ms. L. B. Sanap and great effort had taken by the students to make them the posters. In this occasion all the teachers had shown satisfaction of the success of the competition as well as appreciated each and every poster of the competition.

In the speech of Dr. D.S. Thakare head department of Physics, promised the students arranged such types of competition on regular basis.

Following students got prizes for their outstanding work in competition.

S. N.	Name of Students	Prize
Poster Presentation Competition		
1	Ku. Kanchan A. Baywar	1 st Prize
2	Ku. Madhuri V. Shende	
3	Ku. Rohini N. Sapkal	
4	Mr. Gayatri G. Shelkar	
5	Ku. Rita R. Singh	2 nd Prize
6	Ku. Pooja S. Khandelwal	
7	Ku. Pooja K. Berad	
8	Ku. Shabana H. Sheikh	
9	Ku. Kirti s. Deulkar	3 rd Prize
10	Ku. Sharaddha D. Chaudhari	
11	Ku. Pooja A. Agrawal	

Photos

Report

SCIENCE POSTER PRESENTATION

Department of Physics organized the science poster presentation competition For B.Sc.1st year. Competition was took place in Physics Laboratory. The inaugurator of the competition was Dr. S.V. Wagh, Associate professor in Chemistry and head of faculty of Science. In the inauguration speech Dr. S.V. Wagh, appreciated the students who participated in the competition also expression satisfaction regarding the poster made by the students. On this occasion they guided and motivated the students to participate in Avishkar competition in next academic year. On this occasion Dr. D. S. Thakre, Associate professor and head department of Physics has shown satisfaction about the poster made by the students. Dr. Thakare had motivated to students to participate each and every competition of department for development of personality of students and gain knowledge. The examiner of the competition was Dr. V. B. Bhagat and Prof. R. S. Mankar evaluated each poster with the presentation of the participant .Examiner had shown the satisfaction of the explanation of the poster given by the students. At the same time examiner has given the suggestion to the students for future prospective.

In this competition approximately 60 students participated and following posters were numbered for their work. The effort has taken by the Mr. U.T. Bhati, Assistant professor in Physics to organize the competition with support of non-teaching staff Ms. L. B. Sanap and great effort had taken by the students to make them the posters. In this occasion all the teachers had shown satisfaction of the success of the competition as well as appreciated each and every poster of the competition.

In the speech of Dr. D.S. Thakare head department of Physics, promised the students arranged such types of competition on regular basis.



Inaguration function of Poster presentation Competition Dr. S.P. Wagh president of programme, Dr. V. B. Bhagat & Prof. R. S. Mankar Examiner and Special guest with Dr. D. S. Thakare Head department of Physics.



Prof. R. S. Mankar evaluate and interact with students



Dr. V. B. Bhagat & Prof. R. S. Mankar evaluate and interacte with students

Report

“Science Model Competition” **12th March 2014**

Department of Physics organized the science Model competition on 12th March 2014 for B.Sc. students. Working and non-working model had given the idea about the concept & principle in science. Also something different, students of the science must create science models which explain the theoretical idea of the Physics. Hon'ble Principal Dr. A. L. Kulat, had inaugurated the competition. The chief guest of this competition Dr. S. P. Wagh head of the Science faculty had specially present for this competition. In the introductory speech head of the department of Physics Dr. D. S. Thakre sir introduced the need of the model for explaining the concept of Physics. Also he appreciated the students for large number of quantity of participation. In the inaugural and the presidential speech principal guided the student for continuously participated co-curricular activity and academic growth. Also the guide of student to use a multimedia for clearing the doubts. Principal sir had observed each and every model through the interactive conversation between the students and teacher regarding to the models. Firstly the students had hesitated but at once they got the confidence they were explaining their model very well manner. The examiner of the competition was Dr. V. B. Bhagat sir and Prof. R. S. Dhande who evaluated each and every model. The following students got a rank in this competition.

S. N.	Name of Students	Prize 2013-14
Science Models Competition		
1	Ku. Ankita s. Manekar	1 st Prize
2	Ku. Neha Vijay Vaidhya	
3	Ku. Shubhangi R. Patond	
4	Mr. Amol A. Jaiswal	
5	Ku. Dipika N. Dixit	2 nd Prize
6	Ku. Pooja V. Yeul	
7	Ku. Pranali M. Shamskar	
8	Ku. Nidhi S. Thakur	
9	Ku. Poonam K. Raut	3 rd Prize
10	Ku. Roshani A. Pinjani	
11	Ku. Pooja R. Gawande	
12	Ku. Bhagyashri R. Ambalkar	

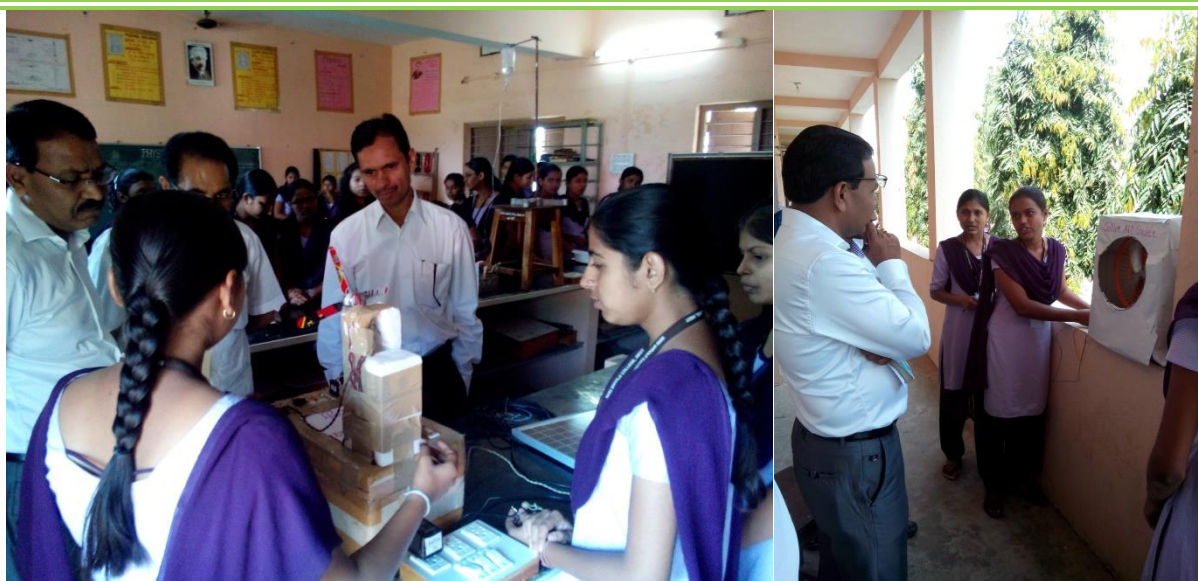
Rank's students had felicitated by the hand of Head of department and examiner of competition..

On this occasion Dr. V. B. Bhagat and Prof. R.S. Dhande guided students for how to make the model in Avishkar competition. And motivated the students to participate in Science Exhibition on the occasion BHAU SAHEB JAYANTI UTSAV.

this competition was success with the help of department teacher supporting staff and the students of B.Sc. 1st year and 2nd year student.



Inugration of Science model competition by the Dr. A. L. Kulat, Principal Shri Shivaji Arts, Commerce and Science College, Akot



Principal and teachers Obseved and interact with student in Science model competition



teachers Obseved and interact with student in Science model competition



teachers Obseved and interact with student in Science model competition



Prize distribution ceremony of Science model competition

Report
Project-Paper Presentation competition
For B.Sc. & III
(Call project on email approximately 70% student participated)

In Sant Gadge Baba Amravati University Amravati new syllabus of BSC included the project in the Physics. Now it was a compulsory to the all the students to do the project on 3rd semester onward. The project was given the idea about the student regarding to the understanding of the Physics. Department of Physics allotted the project to the student in the starting of the semester. The topic was belonging to their syllabus. The format of the project had given to the student like paper presentation which contain abstract, introduction, literature survey, experiment technique etc. So students simultaneously did their study and also write a project on one of the topic of the syllabus in a research paper format. To make more interesting and advance, department introducing the step to collected the project in a soft copy through email of the respected teacher. Department had known the students got difficult to send the email because most of the no email ID and they were not used to how to send the email. Now in a modernization email ID was necessary for online applications, downloading forms and most of the cases it was a mandatory. Department decided to collect the project and created the habit to the students to write and read the email. Department decided all the Student of the BSc must send the project on email ID of the teacher. In this step about 70% of the students send their project on mail. In the modernization and the globalization of the world there was great opportunity in research field. Our students were under-graduate but definitely they will do post-graduation in one of the subject of the science. In science there was a great scope of research. So students must know contain and heading of research paper.

For appreciation of this, department publish a book of articles of the students. Edited book were to be published first step toward a research and how to write research articles in which B.Sc. final year student articles were published.

Our students had made lot of the mistake in project, but it was kindly appreciated because in a under graduation level they were thinking like a research scholar. This work was appreciated by the head of the department Dr. D. S. Thakre sir. Every activity got the success when students were participated actively. Department teachers had taken effort to support and clear the idea regarding to the project of students. This initial step of the students must be very appreciable.



Teachers interact with students in the project paper competition



Inauguration function of project paper competition



Introductory Speech of Dr. D. S. Thakare for Project paper presentation competition



Inauguration of booklet of project paper presentation competition



Inauguration project paper presentation competition



Prize distribution of project paper presentation competition



Prize distribution of project paper presentation competition



Teacher interact with student in project paper presentation competition



Teacher Dr. S. N. Patole Sir guided studentst in project paper presentation competition



Teacher interact with studentst in project paper presentation competition

Report

Guest Lecture of
Research Scholar Mr. V. B. Korde, Laxminarayan institute of Technology, Nagpur
On date 6th August 2016.
On topic “ Effect of impurities and characteristic on ferrometric single crystal.”

Department of Physics every year organized the guest lectures of the eminent personality who share their knowledge and experience with the freely and friendly talk with the students. This had given the idea about out the current trend regarding to the science. We all know that experience gave the better knowledge than merely the study of the book. So department organized the guest lecture of research scholar of Laxmi Narayan Institute of Technology who pursuing they are PhD in Physics. BSc final year had been benefited through this lecture. The president of the guest lecturer Dr. D. S. Thakare, Associate professor and head department of Physics, Shri Shivaji Arts, commerce and Science College Akot. Through the introductory speech Umar Bhati had given the idea about the lectures. Final year students benefited through this lectures because in the next year they admitted to the higher study in Physics, Mathematics, Computer science, Chemistry , then this is a time to select and create interest in one of the subjects. Mr. Vivek Korde shared his experience and knowledge on the topic “Effect of impurities and characteristic on ferrometric single crystal”. In his lecture he motivated the students to participate seminar, workshop and conferences. During higher education, there was a great influenced of the personalities on our career point of you. In presidential speech of Dr. D.S. Thakre guided the student to clear the one of the examination such as SET, GATE & NET when they were pursuing the post-graduation. This would give the opportunity to student for research work. This lecture was arranged with the help of department teaching and supporting staff. The final year student asked many different type of question to guest and clear their doubt. Department hoped that at this lecture had given the idea to the students to select a subject for higher studies we were very thankful to the principal of the college Dr. A. L. Kulat had given continuous support to arranged lecture for the students. We also thankful to the head of the department of Physics Dr. D. S. Thakre and Assistant professor Umar bhati, supporting teacher Prof. Chaudhari and supporting staff Ananta Kalmegh.



Research Scholar Mr. V. B. Korde, Laxminarayan institute of Technology, Nagpur shared knowledge with B.Sc.-III year students



Research Scholar Mr. V. B. Korde, Laxminarayan institute of Technology, Nagpur shared knowledge with B.Sc.-III year students



Students ask the question to the guest lecture Research Scholar Mr. V. B. Korde, Laxminarayan institute of Technology, Nagpur

राष्ट्रीय युवा दिनानिमित्त एक दिवसीय कार्यशाळेचे आयोजन :- 12 जानेवारी 2015



आकोट : स्थानिक श्री शिवाजी कला, वाणिज्य व विज्ञान महाविद्यालय, आकोट येथे भौतिकशास्त्र विभागाच्या वतीने 12 जानेवारी 2015 राष्ट्रीय युवा दिनाचे औचित्य साधून एक दिवसीय कार्यशाळेचे आयोजन करण्यात आले. सर्वप्रथम महाविद्यालयाच्या युवकांचे प्रेरणास्थान स्वामी विवेकानंद व राष्ट्रमाता जिजाऊ यांना अभिवादन करण्यात आले. या कार्यक्रमाच्या मराठी विभाग प्रमुख डॉ. शंकर राऊत व इंग्रजी विभाग प्रमुख जेष्ठ प्रा. कृष्णकर्णी यांनी दोन्ही महापुरुषांना अभिवादन केले या प्रसंगी महाविद्यालयाचे सर्व कर्मचारी हजर होते.

भौतिकशास्त्र विभागाचे वतीने स्वामी विवेकानंद व त्यांचे विचार या विषयांवर निबंधस्पर्धेचे लिखन व वाचनाचे आयोजन करण्यात आले, या स्पर्धेचे उद्घाटन वाणिज्य विभाग प्रमुख डॉ. सुनिल पांडे यांनी केले. त्यांनी स्वामी विवेकानंदाचे विचार व भारतीय युवकांना मिळालेली प्रेरणा या विषयांवर उत्कृष्ट व प्रभावी भाषणामधून विद्यार्थ्यांना मार्गदर्शन केले. या निबंधस्पर्धेत एकूण 11 विद्यार्थ्यांनी निबंधाचे वाचन केले व 25 विद्यार्थ्यांनी आपले निबंध कार्यशाळेत सादर केले. कार्यक्रमाला प्रमुख उपस्थिती मध्ये विज्ञान विभाग प्रमुख डॉ. संजय वाघ होते.

दुपारी 1.00 वाजता विज्ञान फलक स्पर्धेचे (Science poster competition) उद्घाटन सांस्कृतिक कार्यक्रमाचे प्रभारी डॉ. संजय कोल्हे यांनी केले व उत्कृष्ट फलकांचे क्रमांक काढून दिले. फलक स्पर्धेमध्ये एकूण 72 विद्यार्थ्यांनी सहभाग दिला.

निबंध स्पर्धेचे प्रथम पारितोषिक कु. तेजस्विनी पिंपराळे, द्वितीय कु. मयुरी चेडे व कु. मुक्ता खोटे यांना विभागातून देण्यात आले तर तृतीय बक्षिस कु. प्रणाली शामस्कर हीला देण्यात आले. फलक स्पर्धेचे खालिल संघातून उत्कृष्ट सादरीकरण या बद्दल बक्षिस देण्यात आली. प्रथम क्रमांक atomic model द्वितीय क्रमांक Transfromer तृतीय क्रमांक Poloides व प्रोत्साहनपर बक्षिसे Trorsonla Pendulum व surface tension या संघांना देण्यात आली.

बक्षिस वितरणासाठी प्राणिशास्त्र विभागाचे प्रा. डॉ. विजय भगत व प्रा. संजय कोल्हे उपस्थित होते. या कार्यक्रमाचे संचलन कु. दिक्षा दिक्षीत, कु. पुजा अग्रवाल, कु. पुजा खंडेवाल व कु. नेहा वैद्य यांनी केले तर पाहुण्याचे आभार कु. पुजा येवुल, कु. पुजा बेराड यांनी केले, वरील सर्व कार्यक्रमाचे आयोजन प्राचार्य डॉ. ए. एल. कुलट यांच्या मार्गदर्शनात, विभाग प्रमुख डॉ. दिनदयाल ठाकरे यांच्या समन्वयाक प्रा. यु. टी. भाटी, कु. एल. बी. सानप, श्री निशांत वाघ व बि.एस. सी द्वितीय वर्षाच्या विद्यार्थ्यांच्या साहाय्याने पार पडले.



Dr. S. V. Kolhe inagurate the poster competition on the ocassion of Swami Vivekanand Jayanti



Felicitation winner students in poster competition



Dr. V. B. Bhagat, Associate professor in Zoology expressed views and guide the student on poster competition



Dr. S. V. Kolhe evaluate and interact with the participant in the poster competition



Students enjoying the one day workshop on occasion of Youth day



Student read her essay in "Essay writing & reading competition"



Student read her essay in "Essay writing & reading competition"

राष्ट्रीय युवा दिनानिमित्त एक दिवसीय कार्यशाळेचे आयोजन :-12 जानेवारी 2016

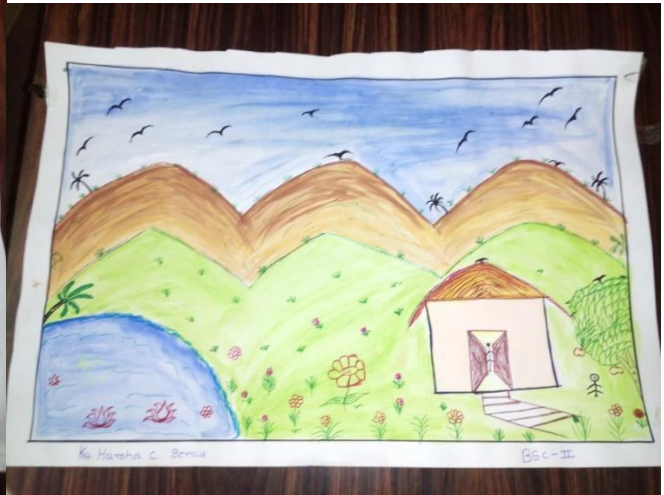
आकोट : स्थानिक श्री शिवाजी कला, वाणिज्य व विज्ञान महाविद्यालय, आकोट येथे **राष्ट्रीय युवा दिनानिमित्त एक दिवसीय कार्यशाळेचे आयोजन** भौतिकशास्त्र विभागाच्या वतीने 12 जानेवारी 2016 राष्ट्रीय युवा दिनाचे औचित्य साधून एक दिवसीय कार्यशाळेचे आयोजन करण्यात आले होते. सर्वप्रथम महाविद्यालयाच्या युवकांचे प्रेरणास्थान स्वामी विवेकानंद व राष्ट्रमाता जिजाऊ यांना अभिवादन करण्यात आले होते. या कार्यक्रमाच्या मराठी विभाग प्रमुख डॉ. शंकर राऊत यांनी दोन्ही महापुरुषांना अभिवादन केले या प्रसंगी महाविद्यालयाचे सर्व कर्मचारी हजर होते.

भौतिकशास्त्र विभागाचे वतीने स्वामी विवेकानंदाचे विचार व आजचा युवक या विषयांवर निबंधस्पर्धेचे **लिखन व वाचनाचे** आयोजन करण्यात आले,या स्पर्धेचे उद्घाटन मराठी विभाग सहयोगी प्राध्यापक डॉ. विलास तांडे यांनी केले. त्यांनी स्वामी विवेकानंदाचे विचार व भारतीय युवकांना मिळालेली प्रेरणा या विषयांवर उत्कृष्ट व प्रभावी भाषणामधून विद्यार्थ्यांना मार्गदर्शन केले. या निबंधस्पर्धेत एकूण 25 विद्यार्थ्यांनी निबंधाचे वाचन केले व 25 विद्यार्थ्यांनी आपले निबंध कार्यशाळेत सादर केले. सचिन कोटेकर,यांनी परिक्षाकाचे काम पाहिले व कार्यक्रमाला प्रमुख उपस्थिती मध्ये इंग्रजी विभागाचे गजानन तांडे होते.

सकाळी 10.00 वाजता चित्रकला स्पर्धेचे उद्घाटन गृहअर्थशास्त्र विभागाचे प्रमुख प्रा. स्वाती वैद्ययांनी केले. डॉ. माणिक ढोरे वनस्पतीशास्त्र विभाग प्रमुख व प्राध्यापक सचिन कोटेकर, साहायक प्राध्यापक इतिहास यांनी परिक्षाकाचे काम पाहिले व उत्कृष्ट फलकांचे क्रमांक काढून दिले. फलक स्पर्धेमध्ये एकूण 68 विद्यार्थ्यांनी सहभाग दिला.

निबंध स्पर्धेचे प्रथम कु. नेहा मिसाल, द्वितीय कु.वैष्णवी झामरे व तृतीय बक्षिस कु. अंजली बेराड हीला देण्यात आले. चित्रकला स्पर्धेचे . प्रथम क्रमांक कु. वैशाली सरोदे द्वितीय क्रमांक मोनिका गायकवाड तृतीय क्रमांक निता वानखडे यांना देण्यात आली.

कार्यक्रमाचे आयोजन महाविद्यालयाचे प्राचार्य डॉ. ए. एल. कुलट यांच्या मार्गदर्शनाखाली व भौतिकशास्त्र विभागाच्या वतीने महाविद्यालयात विभाग प्रमुख प्रा. यु. टी. भाटी, प्रा. ज्ञानेश्वर चौधरी ,श्री अनंता काळमेघ व कु. प्रियंका रघुवंशी, कु. पायल जैन, कु. मिनल सिरसकार बि.एस. सी तृतीय वर्षाच्या विद्यार्थ्यांच्या साहाय्याने पार पडले.या कार्यक्रमाचे संचलन कु. नेहा भदे, प्रास्ताविक कु. अपूर्वा निबोकार,यांनी केले तर पाहुण्याचे आभार कु.वैष्णवी झामरे यांनी केले.



Drawing competition on the occasion of Youth day



Drawing competition on the occasion of Youth day

राष्ट्रीय युवा दिनानिमित्त एक दिवसीय कार्यशाळेचे आयोजन :-12 जानेवारी 2018

आकोट : स्थानिक श्री शिवाजी कला, वाणिज्य व विज्ञान महाविद्यालय, आकोट येथे **राष्ट्रीय युवा दिनानिमित्त एक दिवसीय कार्यशाळेचे आयोजन** भौतिकशास्त्र विभागाच्या वतीने 12 जानेवारी 2016 राष्ट्रीय युवा दिनाचे औचित्य साधून एक दिवसीय कार्यशाळेचे आयोजन करण्यात आले होते. सर्वप्रथम महाविद्यालयाच्या युवकांचे प्रेरणास्थान स्वामी विवेकानंद व राष्ट्रमाता जिजाऊ यांना अभिवादन करण्यात आले होते. या कार्यक्रमाच्या महाविद्यालयाचे प्राचार्य डॉ. ए. एल. कुलट यांनी दोन्ही महापुरुषांना अभिवादन केले या प्रसंगी महाविद्यालयाचे सर्व कर्मचारी हजर होते.

भौतिकशास्त्र विभागाचे वतीने स्वामी विवेकानंदाचे विचार व आजचा युवक या विषयांवर निबंधस्पर्धेचे **लिखन व वाचनाचे** आयोजन करण्यात आले, या स्पर्धेचे उद्घाटन इतिहास विभागाचे सहाय्यक प्राध्यापक सचिन कोटेकर यांनी केले. त्यांनी स्वामी विवेकानंदाचे विचार व भारतीय युवकांना मिळालेली प्रेरणा या विषयांवर उत्कृष्ट व प्रभावी भाषणामधून विद्यार्थ्यांना मार्गदर्शन केले. या निबंधस्पर्धेत एकूण 15 विद्यार्थ्यांनी निबंधाचे वाचन केले व 25 विद्यार्थ्यांनी आपले निबंध कार्यशाळेत सादर केले. इंग्रजी विभागाचे गजानन तायडे यांनी परिक्षकाचे काम पाहिले व कार्यक्रमाला प्रमुख उपस्थिती मध्ये होते.

निबंध स्पर्धेचे प्रथम कु. पायल जेस्वाणी, द्वितीय कु.वैष्णवी झामरे व तर तृतीय बक्षिस कु. अपूर्वा निंबोकार हीला देण्यात आले.

विद्यार्थ्यांमध्ये खेळाची आवड निर्माण व्हावी या करिता प्रा. यु. टी. भाटी यांनी बि.एस.सी भाग 2 च्या विद्यार्थ्या करिता बास्केटबॉल स्पर्धेचे आयोजन करण्यात आले होते त्यामध्ये दोन संघांनी सहभाग घेतला. विद्यार्थ्यांमध्ये खेळाची आवड निर्मिती करितम हा प्रयत्न यशस्वी ठरला.

यशस्वी विद्यार्थ्यांचे सत्कार प्राणिशास्त्र विभागाचे प्रमुख डॉ. वि. बी. भगत यांच्या हस्ते करण्यात आले तसेच त्यांनी विद्यार्थ्यांना मार्गदर्शन केले व भविष्याच्यासाठी शुभेच्छा दिल्या.

कार्यक्रमाचे आयोजन महाविद्यालयाचे प्राचार्य डॉ. ए. एल. कुलट यांच्या मार्गदर्शनाखाली व भौतिकशास्त्र विभागाच्या वतीने महाविद्यालयात विभाग प्रमुख प्रा. यु. टी. भाटी, प्रा. ज्ञानेश्वर चौधरी, श्री गंगाधर अरबट व कु. वैष्णवी झामरे, कु. पायल जैन, बि.एस. सी तृतीय वर्षाच्या विद्यार्थ्यांच्या साह्याने पार पडले. या कार्यक्रमाचे संचलन कु. नेहा भदे, प्रास्ताविक कु. अपूर्वा निंबोकार, यांनी केले तर पाहुण्याचे आभार कु.वैष्णवी झामरे यांनी केले.



Basket Ball Competition on the occasion of Youth's Day

श्री शिवाजी कला वाणिज्य व विज्ञान महाविद्यालय आकोट येथे युवक दिनानिमित्त विविध कार्यक्रमांचे आयोजन

आज दिनांक 12 जानेवारी 2019 राष्ट्रमाता जिजाऊ व स्वामी विवेकानंद जयंती निमित्त श्री शिवाजी कला वाणिज्य व विज्ञान महाविद्यालय आकोट येथे विविध स्पर्धांचे आयोजन करण्यात आले सर्वप्रथम राष्ट्रमाता जिजाऊ व स्वामी विवेकानंद यांच्या प्रतिमेचे पूजन विज्ञान शाखा माननीय डॉ. संजय वाघ सर यांनी केले. याप्रसंगी महाविद्यालयाचे शिक्षक, शिक्षकेतर कर्मचारी व विद्यार्थी उपस्थित होते. भौतिकशास्त्र विभागात विद्यार्थ्यांसाठी निबंध लेखन व वाचन, परिसंवाद व बास्केटबॉल स्पर्धेचे आयोजन करण्यात आले होते. या स्पर्धेत मध्ये प्रथम ते तृतीय वर्षातील विद्यार्थ्यांनी सहभाग नोंदविला या कार्यक्रमाला अध्यक्ष म्हणून लाभलेले वाणिज्य विभाग प्रमुख माननीय डॉ. सुनील पांडे सर व उद्घाटक म्हणून लाभलेले कला शाखा प्रमुख मा.डॉ. प्रशांत कोठे व प्रमुख उपस्थिती मध्ये प्राणिशास्त्र विभागातील सहाय्यक प्रा. राजेश मानकर व सांस्कृतिक मंडळाचे समन्वयक प्रा. सचिन कोठेकर उपस्थित होते. कार्यक्रमाचे आयोजन भौतिकशास्त्र विभागात च्या वतीने करण्यात आले होते . विद्यार्थ्यांनी आजचा युवक व स्वामी विवेकानंदांचे विचार याच्यावर निबंध लिहून त्याचे वाचन सर्वासमोर करण्यात आले. त्याचप्रमाणे विद्यार्थ्यांमध्ये खेळाची आवड निर्माण व्हावी याकरिता बास्केटबॉल कॉम्पिटिशन चे आयोजन करण्यात आले. या स्पर्धेमध्ये सहभागी विद्यार्थ्यांना प्रमाणपत्र देऊन सन्मान करण्यात आला. या कार्यक्रमाला अध्यक्ष म्हणून लाभलेले वाणिज्य विभाग प्रमुख सुनील पांडे सर यांनी विद्यार्थ्यांना आपल्या मार्गदर्शन भाषणांमधून राष्ट्रमाता जिजाऊ आजचा युवक व स्वामी विवेकानंदांचे विचार कसे आचरणात आणता येईल याबद्दल मार्गदर्शन केले. त्याच प्रमाणे कार्यक्रमाला उद्घाटक म्हणून लाभलेले कला शाखा प्रमुख डॉ.प्रशांत कोठे सर यांनी विद्यार्थ्यांना राष्ट्रमाता जिजाऊ साहेब व स्वामी विवेकानंद यांचे विविध इतिहासामधील प्रसंग सांगून त्यांनी केलेल्या कार्याची माहिती व मार्गदर्शन विद्यार्थ्यांना केले. भौतिक शास्त्र विभागाच्या वतीने करण्यात आलेल्या या स्पर्धांच्या आयोजनात तृतीय वर्षातील विद्यार्थ्यांचा मोठ्या प्रमाणात आयोजक म्हणून सहाय्य लाभले कार्यक्रमाचे संचलन कु. नेहा मिसाळ प्रस्तावना कु.घिये आभारप्रदर्शन कु. झांमरे तर कार्यक्रमाला आयोजन करण्यासाठी तृतीय वर्षातील कु.पायल जेस्वणी, विपुल पालेकर, रोशन सोनोने, शुभम लकडे, कु. पूजा पाटकर या विद्यार्थ्यांचा सहयोग लाभले त्याचप्रमाणे माननीय प्राचार्य डॉ. ए.

एल. कुलट सर यांच्या मार्गदर्शनात भौतिक शास्त्र विभागाचे विभाग प्रमुख प्रा. यु. टी. भाटी यांनी या स्पर्धेचे आयोजन केले व विभागाचे प्रयोगशाळा परिचर श्री अनंत काळमेघ यांचे साह्याने पार पडला.



राष्ट्रमाता जिजाऊ व स्वामी विवेकानंद यांच्या प्रतिमेचे पूजन करताना विज्ञान शाखा प्रमुख माननीय डॉ. संजय वाघ सर



आजचा युवक व स्वामी विवेकानंदांचे विचार याच्यावर निबंध लिहून त्याचे वाचन सर्वासमोर करण्यात द्वितीय वर्षातील विद्यार्थिनी



विद्यार्थ्यांमध्ये खेळाची आवड निर्माण व्हावी याकरिता बास्केटबॉल कॉम्पिटिशन चे आयोजन

शिवाजी महाविद्यालयात युवकदिनी कार्यक्रम

अकोट : स्थानिक श्री शिवाजी महाविद्यालय येथे १२ जानेवारी रोजी राष्ट्रमाता जिजाऊ व स्वामी विवेकानंद जयंतीनिमित्त विविध स्पर्धांचे आयोजन भौतिकशास्त्र विभागाच्यावतीने प्राचार्य डॉ. ए. एल. कुलट यांच्या मार्गदर्शनाखाली करण्यात आले होते. अध्यक्षस्थानी डॉ. सुनील पांडे हे होते, तर उद्घाटक डॉ. प्रशांत कोठे, डॉ. एस. पी. वाघ, प्रा. राजेश मानकर, प्रा. सचिन कोठेकर, प्रा. यू. टी. भाटी यांची प्रमुख उपस्थिती होती. या कार्यक्रमांमध्ये आजचा युवक व त्याचे विचार, या विषयावर निबंध लिहून त्याचे वाचन करण्यात आले. त्याचप्रमाणे खेळाची आवड निर्माण व्हावी म्हणून बास्केटबॉल स्पर्धेचे आयोजन करण्यात आले होते. डॉ. सुनील पांडे व डॉ. प्रशांत कोठे यांनी राष्ट्रमाता जिजाऊ व स्वामी विवेकानंद यांच्या जीवनावर प्रकाश टाकला. कार्यक्रमाचे प्रास्ताविक धिये यांनी केले. संचालन नेहा मिसाळ यांनी केले. आभार झामरे हिने मानले. कार्यक्रमाच्या यशस्वीतेसाठी पायल जेसवानी, विपुल पालेकर, शुभम लकडे, पूजा पाटकर, प्रयोगशाळा परिचर अनंत काळमेघ यांनी परिश्रम घेतले, असे प्रसिद्धिप्रमुख प्रा. अरुण हिंणकर यांनी कळविले.

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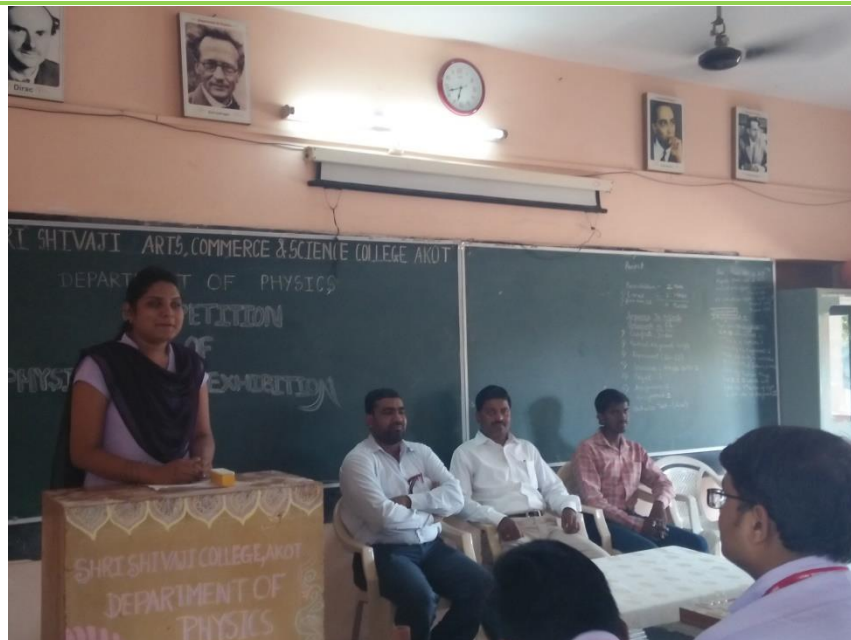
Report
Pre Model and Model competition
organized by department on
20th December 2016 for B.Sc. I

In this year the department of Physics got an opportunity to arranged science exhibition in Jayanti Utsav. So, department tried to work maximum science students participated in this competition. To motivate the students and remove the fear of preparation of model, department decided to arrange the pre model competition so that at students asked their difficulties to the respected teachers. In the pre model competition the president of the program was head of Science faculty Dr. S. P. Wagh and examiner of the science model was Prof. R.S. Dander. In introductory speech Mr. Umar Bhati Assistant professor in Physics was introducing the concept to arrange the pre model competition. All teachers had guided students in interactive manner. In the presidential speech Dr. S. P. Wagh said that participation in the competition made them you had more confidence and clear your ideas and got the practical hand. After successful an organization of the pre-modern competition. On the occasion of the Jayanti Utsav-118, Number of students of science faculty had participated in the competition. they had not only participated but also they are very active explaining their model and it was a great success of the competition that student explaining their model with the idea of the science.

Principal Dr. A.L.Kulat sir inaugurated the competition and had shown the satisfaction regarding to the effort of the students. Examiner Dr. S. V. Kolhe and Dram's. M. M. Dhore evaluated the each and every model.

Examiner Dr. S. V. Kolhe and Dr.Ms. M. M. Dhore told students that the improved their science model such a way that in next year you are participated in the national and State Level Competition.

This competition was arranged in the guidance of principal of the college Dr. A.L.Kulat sir , who to continuously guide to arrange such type of a competition for the students, head of faculty Dr. S. P. Wagh provided a continuous motivation and support for arranging this competition. The in charge of the competition Prof. R. S. Dhande and Mr. U. T. Bhati had motivated the students to participated in the science exhibition on the occasion of the Jayanti Utsav. Supporting staff had taken great effort with this teacher staff to arrange this competition. This competition was successes with the active participation of science students. Student's Council member Ms. Pratiksha Rekhate, Alpesh bhute, Lahane, Sharma had taken the initiative to arrange this competition.



Inaguration fuction of Science Model competition-2017



Students explain the model to teacher in science model competition



Teacher evaluate science model and interact with students in science model competition



Teacher interact and observed poster in science exhibition



Appriciation of Arts students to participate in Science Exhibition



Guest and examiner evaluated the poster in Science exhibition



Guest and examiner evaluated the poster in Science exhibition

**Report
of
Educational tour for
Science- Nature- Spirituality- Superstition**

In the session 2018 19, a trip was organized for the final year and second year students of BSc in conjunction with the Department of Physics and Mathematics. This trip went to Balajiipuram, Muktagiri on .6.09.2018 and Ajanta and Shegaon on 17.01.2019. Balajipuram is known as the fifth Dham in Hinduism, and Muktagiri is also known as the center of spirituality of the saints in Jainism. There is a famous temple of Shri Sant Gajanan Maharaj at Shegaon. The reason for organizing a tour at this place is to make the students aware of the relationship between science, nature, spirituality and superstitions. Along with science, it is necessary to have nature changes and spirituality. Similarly, students should realize that they do not believe in superstitions. Students thoroughly enjoyed the trip. Also, since Muktagiri and Ajantha was in a high place, the students got to know the atmosphere of the place as well as the peace and spirituality there. At Muktagiri, the student got the experience of "No MobileNetwork Zone". Balajiipuram received information about the journey of Chardham and Ramayana to students through various art works and architecture. During this trip, students gained experience organizing and planning. This tour was headed by Dr. Elkar and Prof. Bhati. Prof. Chaudhari and Prof.Ms.Ganorkar has supported and assist to tour.



Start of Journey to Muktagiri and Balajipuram



Group Photo of Students at Muktagiri



Group Photo of students at Balajipuram



Group Phot of students at Muktagiri



Group Photo of students at Ajintha



Group Photo of students at Ajintha



Students are visited to cave in Ajintha and observing painting and architecture.

**Report of
Quiz competition on
“Structure of Earth and Atmosphere”**

In the academic year 2018-19 Department of Physics organized the quiz competition for B.Sc. second year students on the topic “structure of the earth and atmosphere”. second year student are participated in this competition in the group. The topic has included in their B.Sc. semester Third syllabus and it was a great opportunity to the students to show their talent in this competition. On the occasion of this quiz competition, president of the quiz competition was head of the faculty of science Dr. S.P. Wagh and the judge of this competition Prof.G. B. Andhale o and Prof. D.P. Choudhari. The nature of this competition is allotted the three different topics to three groups of students and said to explain this topic to the other audiences and participates. on the basis of their presentation, participants of other group were asking the question to the group and group with response this question and each correct answered get 10 marks. At the end of the competition, the atmosphere group win the competition and Ms. Vaishnavi Patkar got the prize in this competition. On this occasion, Dr. S. P. Wagh guided the students regarding their participation in co-curricular activities and felicitated the winner of the competition. Behalf of the department we were thankful to the Principal Dr. A.L. Kulat for their continuous guidance and support. This competition had arranged with the help of contributory teacher Prof. D. P. Chaudhari and supporting staff and students.



Intorduction and wel-come to dignataries in Quiz competition organised by Department of Physics



Student explain and responding the question in the quiz competition.

Report of Lecture Series organized by Department of Physics

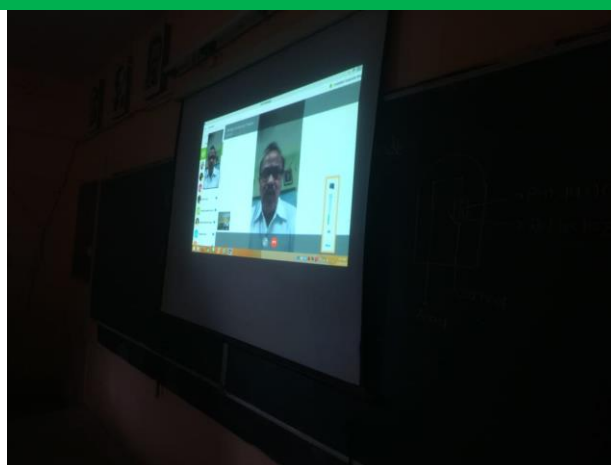
In the academic year 2018-19, department of Physics organized the lecture series through video conferencing with the eminent personality in the field of Physics and Physical education. For the overall development of the student, it was necessary to interact with the different personalities in the field not only limited to the Physics but also from the other interdisciplinary subject. In this year, department of Physics organized guest lecture of Dr. Vashishtha Khodaskar Physical director, Nehru Mahavidyalaya Art, commerce and Science, Nersopant on the topic of “yoga and meditation”. Today's youth so much busy in their daily routine work and completely neglecting his physical and mental health. This is indirectly affected their studied. Dr.Khodaskar had explained the importance of yoga and meditation and also told job opportunity of science students in the physical education. Similarly Dr. Yuvraj tamgadge Mahatma Fule Arts, Commerce & Sitaramji Choudhari Science Mahavidyalaya, Warud delivered the lecture through video conferencing on the topic of “Physics and job opportunity” he had explained in his lecture the criteria to take the admission in the post- graduation and opportunity, career in the subject Physics. Dr. D. S. Thakre, associate professor and head, J.D. Patil Sangludkar Mahavidyalaya Daryapur has delivered a lecture on the same topic and he guided the students opportunities and challenges in Physics. In the world of globalization, English language have very important. In this lecture series, Prof. M. I. Baig, Assistant professor in Physics, Prof. Ram Meghe Engineering and Management College, Badnera, had delivered lecture through video conferencing on the topic of “Personality development and communication skills in English”. He explained in his lecture about the fear of the English language in the students and how to overcome this difficulty. Participation is only the solution to improve the personality.

This lecture series was very useful to B.Sc. students for their future prospective. All the lecture were conducted in the guidance of faculty in-charge Dr. S. P. Wagh with the support of the head of department Physics and supporting staff.

Beside this, the support of B.Sc. final year students had very appreciated to set up and organized lecture-series through video conferencing.



Dr. Yuraj Tamgadge delivered the lecture through video conferencing to B.Sc students on the topic



Dr. D. S. Thakare, Associate professor and head delivered the lecture through video conferencing to B.Sc students on the topic

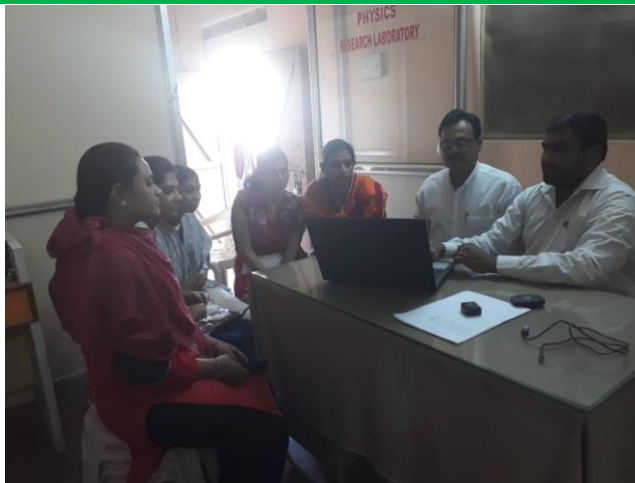
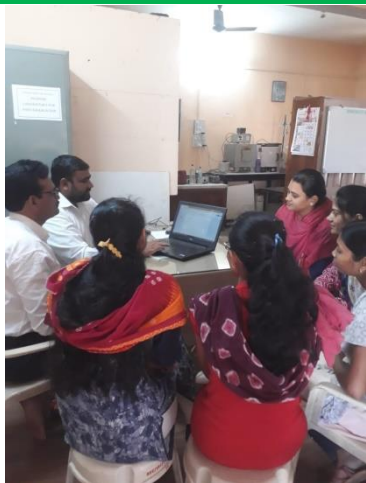


Mr. M. I. Baig delivered the lecture through video conferencing to B.Sc students on the topic

Report
One Day Workshop on “Awareness of Google Apps :- Google Docs and Google Translator”

In the academic year 2018-19, with the initiative of the IQAC, department of Physics and department of computer science jointly organized the one day workshop on the “Awareness of Google app:- Google doc and Google translator”. In this workshop, head of the department of Physics Mr Umar Bhati demonstrated the working of Google app, Google Docs and Google translator to the teaching and non-teaching staff. Nowadays Google provided the large range of services which are very useful to the offices and the institution for the education field. Google Docs is a very important tool to prepare the document through voice typing. Documents can be stored and save on the Google Drive. Similarly Google translator is useful to our teaching and non-teaching staff difficult English documents to translate in the regional languages. The teaching and supporting staff had participated and takes the hand of training of the working of Google docs and Google translator. All were showing the satisfaction and usefulness of this app.

Now it has become easy to the teaching and non-teaching staff to prepare the reports, news writing, letter writing in the many languages Hindi Marathi and English. With the initiative of the IQAC, this workshop has useful to the teaching and non-teaching staff.



Teacher of Commerce Faculty participated in Workshop and takes Hand on training of Google Apps



Teacher of Arts Faculty participated in Workshop and takes Hand on training of Google Apps



Non- Teaching staff of office and Laboratories participated in Workshop and takes Hand on training of Google Apps

**Report
Of
One day workshop on “Video conferencing and tonner refilling”**

In the academic year 2018-19 with the collaboration of IQAC, computer science and department of Physics jointly organized a one day workshop on the “video conferencing and toner refilling” for teaching and non-teaching staffs and students were the participants in the workshop. workshop was inaugurated by the head of the faculty of Arts Dr. P. P. Kothe. On the occasion of Inaugural function Dr. kothe has explained the importance of video conferencing in the era of globalization and technology and also explained the importance of the reuse of the toner in the printer. Mr. Umar Bhati, head, department of Physics explained the idea of video conferencing to participants by using the IMO software, Skype. Similarly “refilling of toner” has important in daily routine work of the offices. Mr Kishore Ladhe has explained and demonstrated the refilling of the tonner. All the participants teaching, non-teaching and student has been giving hands on training to the setup of video conferencing and toner refilling. Mostly the girls students were taken the initiative to set up the video conferencing by using laptop, projector and internet connection Jio router and also had taken the hands on training of toner refilling. All the participants shows the satisfaction on the content of the workshop. The workshop has successfully organized in the guidance of the principal of the college Dr. A.L. Kulat and head of the faculty of Arts, Commerce and Science with the help of the coordination of the department of Physics and computer science with the initiation of the IQAC..



Prof. Umar Bhati has demonstrated the set up of video conferencing to students



Mr. kishor Ladhe has given the demonstration of tonner refilling to participants

Report of Alumni Visit to Department of Physics in A.Y. 2018-19

Academic year 2018-19, department of Physics organized the various Alumina lecture regarding the guidance to the post -graduation admission and competitive examination. In this academic year Mr. Ashish Khotre, Mr. D. P. Chaudhari, Miss. Pratiksha Kulat, Ms Priyanka Raghuwanshi visited to the department and guided to the BSc final year and 2nd year students regarding the current trend in the competitive examinations and post-graduation. Mr. Ashish Khotre has guided the students to take the admission in Physics and new syllabus of the post – graduation, in a similar manner Mr. D. P. Chaudhari Guided to the student for the NET/SET examination. Ms. Priyanka Raghuwanshi guided the B.Sc. 2nd year student for the MH-CET and entrance exams for the MBA and Pratiksha Kulat guided the students for basic requirement of admission in Mathematics and the new syllabus of the post -graduation in Mathematics. This all lectures were very useful to the B.Sc. final year and 2nd year students to know the challenge and requirements for the admission of the post- graduation in the subject of Physics and Mathematics. Similarly for the MBA and MCA, students must start the preparation of entrance examination at the undergraduate level. Ms. Priyanka Raghuwanshi explained the opportunity and admission process of the MBA and MCA courses. This lectures were very useful the department students for their future prospective. In the guidance of head of the faculty and head of the department these lectures were conducted. Behalf of the department we were thankful to the Alumni for their cooperation.



Alumni Mr. Ashish Khotre Interaction with the B.Sc. III students and guided for
PG admission



Alumni Mr. D.P.Chaudhari Interaction with B.Sc. III students and guided for NET/ SET examination and new syllabus



Alumni Ms. Pratiksha Kulat Interaction with B.Sc. II students and guided for admission in PG in Mathematics



Alumni Ms. Priyanka Raghuwanshi Interaction with B.Sc. II students and guided for admission in MBA

Report
Institutional level -One day workshop on

Experiment in Physics

Jointly organized by Department of Physics of Shri Shivaji Arts, commerce and Science College Akot
and Department of Physics of Smt. R. S. College, Anjangaon
Total 164 students were participated in workshop.

Department signed the moment of understanding with the department of Physics Smt. Radhabai Sarda Mahavidyalaya Anjangaon surji related to the teaching, learning and research. The department collaboratively arranged the one day institutional level workshop on the topic of experiment in Physics on dated 17 Feb 2018. The workshop was held at department of Physics, Shri Shivaji Arts Commerce and Science College Akot. The inauguration of the workshop was done by the Dr. Sanjay Wagh, head of the science faculty Shri Shivaji College Akot, in their inaugural speech he had appreciated department to arrange such type of a collaborative work in the department. Also he shared the history of the college to the participant in this workshop. In introductory speech of programme Mr. Umar Bhati, head of the department of Physics explained the need of workshop in our local region. The distance between the Anjangaon surji and the Akot was about approximately 32 km. It needs the colleges in nearby region worked for excellence in higher education through collaboration. The first step regarding to the collaboration we both were arranged the one day institutional level workshop in “experiment in Physics”. In this workshop the group of the three student explaining the experiment prescribed by the Sant Gadge Baba Amravati University Amravati. The total 164 student were participated in this workshop. All students interact with the each other and explaining their practical's .About 32 experiments explaining in this workshop. The following students awarded with the certificate and prize. Every participant awarded with the certificate. In the valedictory function and the prize Distribution Ceremony Dr. V. B. Bhagat sir told the students participation in the workshop and the other competition was necessary to enhance our personality and knowledge. Today's students must become extroverted so that he/ she would explain their knowledge to the others and it was only being possible if you were participated.

Workshop had been successfully arranged by the Mr. Umar Bhati and Prof. Rajesh Mankar with the support of students of final year.

Both the coordinator were thankful to the principal of our colleges who gives this opportunity students in the workshop also we were very thankful to all the students participated in this workshop also thankful to the supporting staff, students who organized this event successfully.



Inauguration function of One day workshop “Experiment in Physics” jointly organized by department of Physics, Smt. R. S. College Anjangaon Surji and Shri Shivaji Arts, Commerce and Science College Akot on 17.02.2018



Valedictory function- Dr. V. B. Bhagat, Associate Professor and Head Department of Zoology (BOS member) as Chief Guest.



Students Explaining the practicals in workshop



Felicitation of students in workshop

Report of Collaboration Activities
Science Model and Poster Presentation and Online Quiz Competition
Jointly organized by Department of Physics,
Shri Shivaji Arts, Commerce and Science College, Akot and
Smt. Radhabai Sarada College, Anjangaon Surji.

In the academic year 2018-19, Department of Physics of Shri Shivaji Art, Commerce and Science College, Akot and Smt. Radhabai Sarda Art, Commerce and Science College Anjangaon surji jointly organized the model Science model and poster competition for the BSc student. As per the plan, In Phase- I, the department of Physics of Shri Shivaji Arts, Commerce and Science College, Akot had organized the Science model and poster competition for the B.Sc. students. The inauguration function of the program, Dr. S. V. Kohle, Associate Professor in Chemistry inaugurated the function. Prof. R. M. Mankar, Assistant Professor in Physics, Smt. Smt. Radhabai Sarda Art, Commerce and Science College Anjangaon surji worked valuer with Assistant of Prof. D. P. Chaudhari and Prof. U. T. Bhati in competition. Students from Shri Shivaji Arts, Commerce and Science College had participated and present the model based on the concept of Physics. Also Some students had presented a poster on the topic “renewable energy sources” in this competition. In Phase II competition, department of Physics Smt. Radhabai Sarda Art, Commerce and Science College Anjangaon surji organized the Poster Competition. In inauguration function, Head , department of Mathematics had appreciated the collaboration activity and congratulated the participants for participation. Students of Smt. Radhabai Sarda Art, Commerce and Science College Anjangaon surji presented the poster on the topic “renewable energy sources” in a Phase II competition. Prof. U. T. Bhati from Shri Shivaji Arts Commerce and Science College and Prof. D. P. Chaudhari valued the poster in this competition. These collaboration activities had provided a platform to interact with the students with the faculty and chance to developed and shared knowledge.

In the third collaborative activity, with the help of the Google form online quiz competition organized for the BSc first, second and third year students. Based on the even semester Syllabus in subject Physics of Sant Gadge Baba Amravati University Amravati, large number of students participated in this quiz competition. This quiz competition not only benefited to the students regarding the competition but also benefited in the preparation of the University examination. This online tests were conducted with the Google form, it gave the immediate result after the submission of the test and also gave the correct answer regarding the wrong option opted by the student.

This collaboration activity had organized in the academic year 2018-19 by the department under the MOU's signed by both institutions. The coordinator of this program Prof. U. T. Bhati and Prof. R. M. Mankar had taken the effort to the success of this activities under collaboration.



Head of faculty Dr. S. P. Wagh addressing to students in Phase- I competition



Participants in the competition



Felicitatation of winner in the compititon with prize and Certificate



Felicitation of winner in the compititon with prize and Certificate.



Prof. U. T. Bhati guided and appricated the participant in Phase II Competition.



Group Photo with the winner and participants in the Competition.

Report-

Advance learner Participation in Seminars and competition.

For advanced learner, departments had taken few step to motivate them to participate in seminar workshop and other co-curricular activities organized by the other colleges in the region of Akola district. Students belonging to the department were low income group and rural area. They were hesitated to participate as no fund. So department circulate the notice regarding to the financial help of those students who score more than 60% of mark in summer 2013 examination. In this activity department helped them each students up to Rs.500/- for participation/ paper in conferences and journals. This fund was not too big but it attracted the students regarding to the presentation of paper in conferences seminars and workshop. The head of the department Dr. D. S. Thakare has continuously motivating and encouraging the students to participate in co-curricular activities. With the helped of Dr. D. S. Thakre sir students were started their initial stage for paper presentation. They were discussing the ideas regarding to the some basic experimental techniques and stared their project work. At the same time department had the chance to organize the UGC sponsored National seminar on the topic of “recent trend in in in Material preparation and characterization”. So department have decided to give the free entry for the students who want to be a present a paper in this conference. In this conference two students from B.Sc. 2nd year present the paper with the help of head of the department and Mr. U. T. Bhati. Similarly in the month of the February and March and National seminar was arranged in Khandelwal College Akola in this seminar also students published their research article.

The following student had participated in academic year 2013-14 onward and presented the research articles and the seminar workshop and conferences.

1. Ms. Mamta Palaspagar- B. Sc. - II- present paper in national seminar
- 2 Mr. Faizan Qureshi - B. Sc.- II present paper in national seminar
3. Mr. D. P. Chaudhari- B. Sc.- III present paper in national seminar
4. Mr. Sagar Agrawal- B. Sc.- II present paper in national seminar

The following student participated in academic year 2013-14 onward Avishkar competition.

S.N.	Name of Student	Stream	Class	Participation
1	Ms. Kanchan Arun Baywar	Science	B.Sc.-I	Model Presentation- Working of Geothermal Energy plant
2	Ms. Puja Kisan Berad	Science	B.Sc.-I	
3	Ms. Guri R. Pundkar	Science		Engg. & Tech.
4.	Mr. Shubham M. lakade	Science		Pure Science

The following student participated in academic year 2013-14 onward workshops on Practicals in Physics at Shri Shivaji Science College, Amravati.

S.N.	Name of Student	Class	Topic
1	Ku. Simran Sunil Sabhagchandani	B.Sc.-I	Verification of Kirchoff's law, using electrical network.
2	Ku. Shreya Rajendra Pachade	B.Sc.-I	Verification of Thevenin's theorem
3	Ku. Vaishnavi Gajanan Zamare	B.Sc.-II	To determine characteristics of CB transistor
4.	Ku. Payal Mahesh Jeswani	B.Sc.-II	Study of OP AMP as an inverting and non-inverting amplifier

This small financial helped of the student had cultivated research oriented view. When they were expressing views and share knowledge with the other students, positive atmosphere had created regarding to the research and study.

This activity has done with continuous motivation of Principal of college Dr. A. L. Kulat in guidance Head of the department of Physics Dr. D. S. Thakare and support of Prof. U. T. Bhati.

Photos:- of certificate





Shri Shivaji Education Society, Amravati's

Shri Shivaji Science College, Amravati

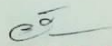
Accredited by NAAC with "A Grade" A College with Potential for Excellence

**A Competition on
Presentation and Demonstration of Physics Experiments**

Organised, in collaboration with Amravati University Physics Teachers' Association

CERTIFICATE

This is to certify that Mr./Miss. Simaran S. Sabhagchandani
of B.Sc. I from Shri shivaji Art, commerce & sci. college, Akot.
participated & secured _____ Rank in the competition organised by
Department of Physics on February 28, 2018.


Dr. V. G. Thakare
Principal


Dr. V. B. Bhatkar
Convener



Shri Shivaji Education Society, Amravati's

Shri Shivaji Science College, Amravati

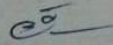
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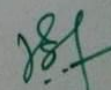
**A Competition on
Presentation and Demonstration of Physics Experiments**

Organised, in collaboration with Amravati University Physics Teachers' Association

CERTIFICATE

This is to certify that Mr./Miss. Shreya Pachade
of B.Sc. I from Shivaji Art, Commerce & sci college, Akot.
participated & secured _____ Rank in the competition organised by
Department of Physics on February 28, 2018.


Dr. V. G. Thakare
Principal


Dr. V. B. Bhatkar
Convener



Shri Shivaji Education Society, Amravati's

SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE & SCIENCE, AKOLA

NAAC Re-accredited with 'A' grade with CGPA -3.24 UGC status of "College with Potential for Excellence"

Recommended DST FIST Level-0



SANT GADGE BABA



AMRAVATI UNIVERSITY

Akola District Level Avishkar-2016

Certificate

This is to certify that Shri/Ku/Smt. Shubham Mohanrao Lakade
of Shri Shivaji College, Akot Participated in Akola District Level
Sant Gadge Baba Amravati University Research Festival **Avishkar-2016** in the Category U.C. (Pure Science)
held at Shri Shivaji College, Akola, on 28th September, 2016

Dr. Ashish Raut
Coordinator

Mr. S. M. Palhade
Co-convenor

Prof. (Dr.) S. P. Deshmukh
District Coordinator

Dr. S. G. Bhadange
Principal and Convenor



Shri Shivaji Education Society, Amravati's

SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE & SCIENCE, AKOLA

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Recommended DST FIST Level-0



SANT GADGE BABA



AMRAVATI UNIVERSITY

Akola District Level Avishkar-2016

Certificate

This is to certify that Shri/Ku/Smt. Gauri R Pundkar
of Shri Shivaji College, Akot Participated in Akola District Level
Sant Gadge Baba Amravati University Research Festival **Avishkar-2016** in the Category Engg & Tech
held at Shri Shivaji College, Akola, on 28th September, 2016

Dr. Ashish Raut
Coordinator

Mr. S. M. Palhade
Co-convenor

Prof. (Dr.) S. P. Deshmukh
District Coordinator

Dr. S. G. Bhadange
Principal and Convenor



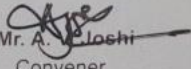
Shikshan Prasarak Mandal, Akola

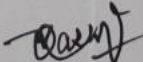
Shankarlal Khandelwal
Arts, Science & Commerce College, Akola (MS).

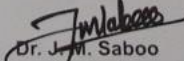
Accredited by NAAC, Grade "B" with CGPA 2.95

Certificate

This is to certify that Prof./Dr./Mr./Mrs./Ms. Dyoneshwar P. Choudhary
of Shri Shivaji College Akot,
has ~~actively participated~~ / delivered invited talk / chaired technical session / presented a paper (oral / poster) in one day National Conference on
'Recent Trends in Mathematics, Physics and their Applications' organized by the Departments of Mathematics and Physics on 19th March, 2014.


Mr. A. P. Joshi
Convener


Dr. H. J. Kharat
Organizing Secretary


Dr. J. M. Saboo
Principal

Education for Life and Life for Nation

Report

Green Initiative of Department

Department of Physics always played the support role for the green initiative of the college. As per the area allotted by the IQAC for the plantation and maintenance of the green initiative of college, Department had get area behind the science building. Department take care of the all the bamboo trees in this area. Department continuously had taken care of the bamboo trees for watering the plants, feeding of fertilizers etc. with the help of supporting staff Mr. Ananta Kalmegh and supporting teaching staff Mr. Chaudhari. With the result of their effort has been seen today greenery behind the science building.

Also department of Physics with the collaboration of the NSS and the gram panchayat of Khairkhed had celebrated the birth anniversary of the plants. The district collector was the chief guest of this function. The function and the workshop were arranged by the executive member of LMC Hon'ble Kesharaoji Metkar.

This workshop and the celebration of the birth anniversary of the tree and plants the rally was organized with the help of NSS students. The Awareness of the need and necessity of the plants had been spread among the students and the people of the village. This was the great initiative was taken by the executive member of LMC Hon'ble Kesharaoji Metkar and the Hon'ble principal Dr. A. L. Kulat.

Department played supporting role in this activity.



Rally Collaboration & Extension Activity of Department of Physics with NSS to celebration of First Birth day of Tree and Environment workshop at Khairkhed on 20.10.2017



Hon'ble District collector Addressing to mob on the occasion of First Birth day of Tree and Environment workshop at Khairkhed on 20.10.2017



Hon'ble District collector with student occasion of First Birth day of Tree and Environment workshop at Khairkhed on 20.10.2017



Mr. U. T. Bhati , Department of Physics maintained of bamboo Plants (garden) allotted by IQAC



**Mr. Ananta Kalmegh, Department of Physics do maintained of bamboo Plants (garden)
allotted by IQAC**



**Mr. D. P. Chaudhari, Department of Physics do maintained of bamboo Plants (garden)
allotted by IQAC**

Report

Creation of E-resources

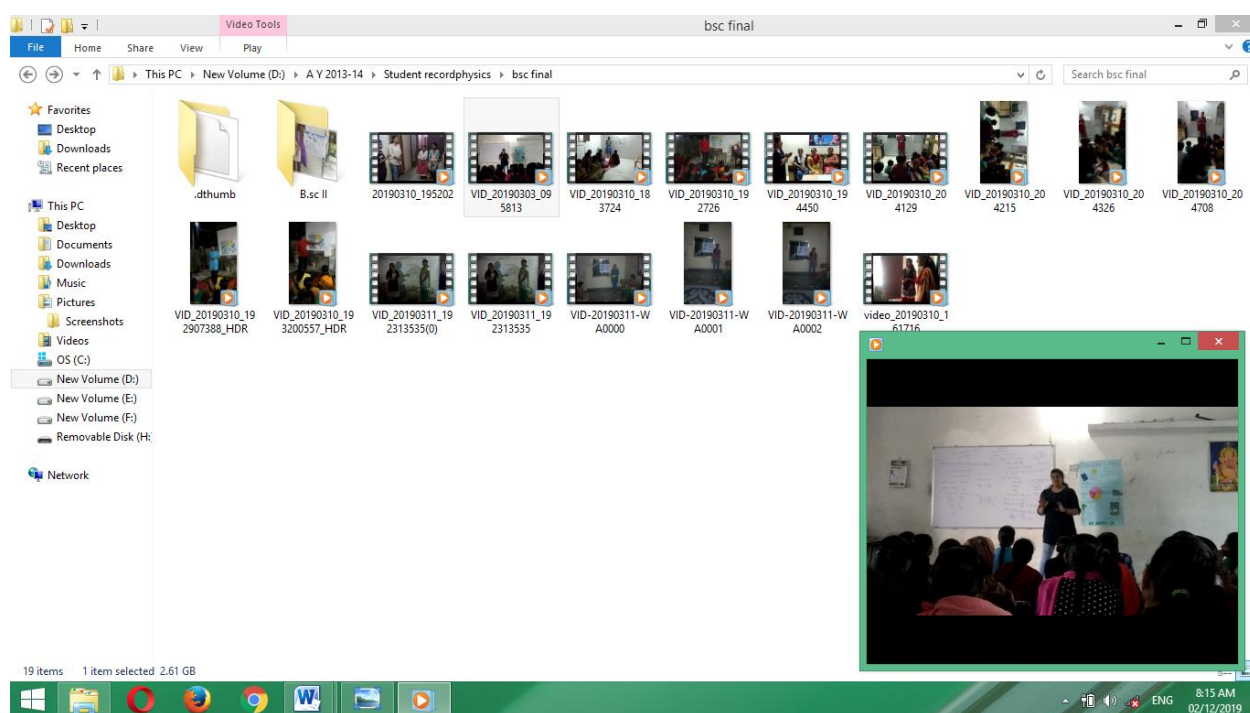
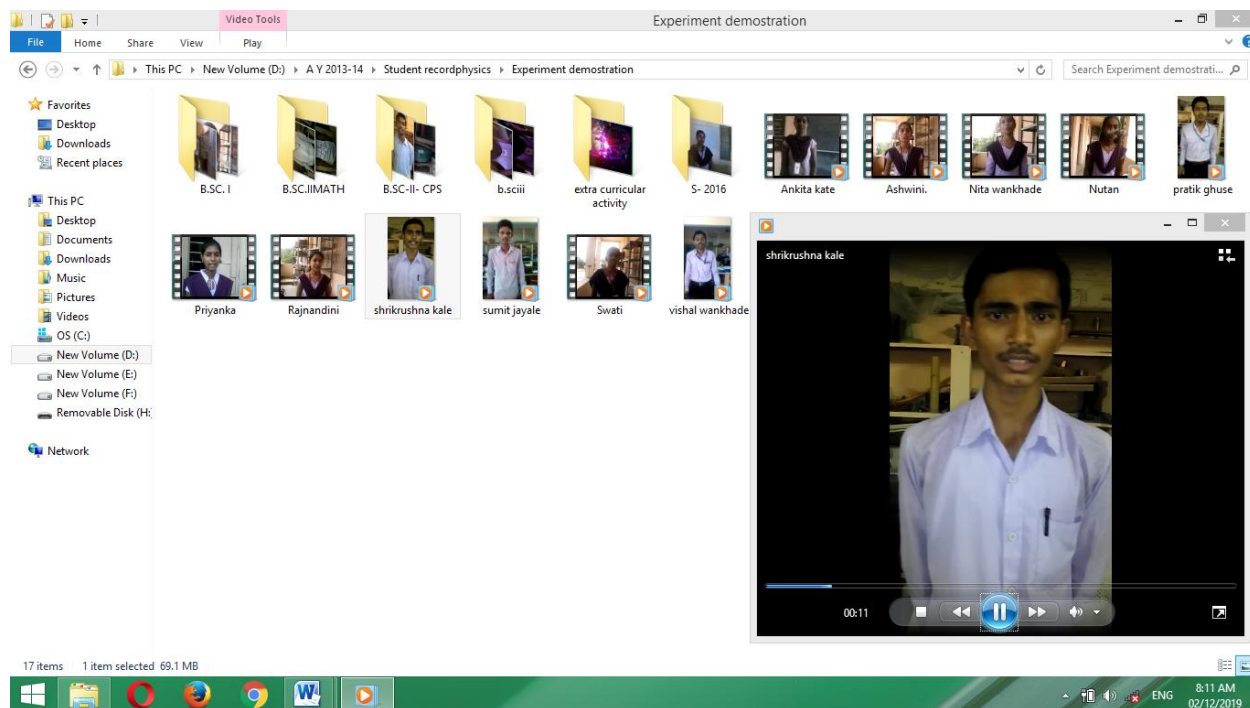
The syllabus of the Sant Gadge Baba Amravati University Amravati has been designed such a way that in which contain the practical demonstration/ Assignment, project and seminar. In the syllabus of the Physics student must perform the at least one experiment as a practical demonstration. Beginning of the every semester students had been allotted the one practical out of ten as practical assignment. Department of Physics teachers sometimes used YouTube video of IIT, NPTEL videos for demonstration of experiment for gaining better understanding of experiments .We had known that today's Era was of globalization, and about 50% of the students / family members/ friends have Android mobile phone . Department use Android mobile phone in a constructive manner so that it could be record the demonstration has given by the students. Also for the micro learning we tried add to record all the seminar of the student. In this activity we were allotted the group of the students practical and the seminar. In the beginning of the semester after the location of the practical and seminar teacher had explained each and every practicals to the students and also guided how to prepare the seminar to the student. Students tried to do the experiment and practices for the seminar. Once they prepared the seminars and practical assignment for demonstration, their classmate/ friends recorded the videos. The recording seminar/ practical demonstration had seen by the students repeatedly and the pointed out there micro defect in the personalities, speaking & communication skill, body language and tried to correct in the next seminar. As a student belonging to the rural area, these types of the activities made more confidence and knowledge full regarding their subject.

This activity had been started in academic year 2014 -15 onward. In this events/ activities many number of students are participated and recorded the experiment demonstration and their seminars.

The success of this activity was purely depending on the participation of the students and Technology we used. Few good demonstrated videos were kept by department to motivate their juniors for personality development and participation. Also this video sometimes used as e – resource.

After this activity we could see the very good changes in the student because actual had known their mistakes and fault in personalities. Student's confidence level increased and they actively participated in co-curricular activities.

Department was very thankful to the all the participated student students and principal of the college, head of the Science faculty and head of the department for continuous motivation and support for arranged and conducted an activities.



Report

Selfies''- Scientific Model

On renewable energy source

Department of Physics regularly arranged the model competition. Many students were participated in the competition in every year. The topic of the competition this time was a renewable energy sources. To understand the importance of the renewable energy sources department organised such type of a competitions. In this competition students were actively participated they were aware about the renewable energy sources but there was a need to spread this knowledge of renewable energy sources to the society. As we were very lucky, we were leaving such type of a Country where plenty of the solar energy but utilization of this energy was very less. As we know that in a few decades of the Year all conventional energy sources will be finished. Department understand the problem and decided spread the awareness & knowledge of the renewable energy sources in society. This competition was divided into two phase. In a first phase students prepared and present science model in the laboratory and in a second phase this model would be presented to their family, relatives and neighbors. And take a selfie of your explanation and post to the department. Some group of student were tried and got a success in which they collected the family members, relatives and neighbors on their home and explained the renewable energy sources and its importance to them. It was a great initiative of the department in which department had got less percentage of success but in future there will be a scope to take this activity in a new form. Department was Thanks to all the student who are participated in the event also thankful to the principal of the college Dr. A. L. Kulat, head of the Science faculties Dr. S. P. Wagh and head of the department and supporting staff for the continuous support to arranged and conducted such type of fun activities.



Scientific Model Selfie:- Student of B.Sc. explaining the working and advantages of solar cooler to relative & neighbours

Report of
Awareness campaign in Society:-
“Renewable Energy sources and E- Waste Management”

In the academic year 2018-19, department of Physics organized the awareness campaign regarding the “renewable energy sources and e waste management”. Department of Physics already had arranged the different model, poster essay competition regarding the “use of renewable energy sources and e waste management” from the academic year 2013 onward. Sant Gadge Baba Amravati University Amravati has already included renewable energy sources in the syllabus of B.Sc. semester IV. So, keeping all this point in the mind, department of Physics had motivated the students to demonstrate their poster in the society where, they had lived. In this activity, the group of two or three students had made and prepared a poster on the topic of “uses of renewable energy sources, its advantages and E-waste management. Students had made the poster and presented in their colony where, they called all the neighbor in the colony with their family members. They had demonstrated the poster in the regional languages with English, this activity has been performed by the all the B.Sc. 2nd year and final year students. This awareness campaign had made people aware in the colony about the “uses of renewable energy sources and e waste management”. More than 1000 people has benefited this activity. Also, this demonstration created the confidence in students to demonstrate their knowledge in the society/Colony.

This activity has been carried out in the guidance of the head of the faculty of science Dr. S. P. Wagh and with the corporation of head of the department Mr U. T. Bhati and CHB teacher Mr. D. P. Chaudhari.



Ms. Neha Misal (B.Sc.-III) Students delivered informative lecture on Renewable Energy sources and E- Waste Management in her society



Ms. Payal Jeswani (B.Sc.-III) Students delivered informative lecture on Renewable Energy sources and E- Waste Management in her society.



Ms. Gauri Patil (B.Sc.-III) Students delivered informative lecture on Renewable Energy sources and E- Waste Management in her society



(B.Sc.-III) Students delivered informative lecture on **Renewable Energy sources and E- Waste Management in her society**



(B.Sc.-III) Students delivered informative lecture on **Renewable Energy sources and E- Waste Management in her society**



Ms. Gauri Pundkar (B.Sc.-III) Students delivered informative lecture on **Renewable Energy sources and E- Waste Management in her society**

Report of

“Awareness of Science (through Science model):-

in nearby Schools and Junior Colleges of Akot.”

“ Remove fear, take participation & create Interest in Science”.

From academic year 2013 onward department organized the various activity in the department such as poster competition, science exhibition, various Guest lecture, drawing competition, essay writing and reading competition, poster paper presentation competition, and this all competition made the student more confidence in the classroom activities in the college. Now, it was the time to go field and demonstrated the knowledge to society. Also students are the member of the society and to create the sense of the responsibility towards the society, department had taken the initiative to increase the level of confidence in the students. So, department organized a field project for B.Sc. final year students of name **“Remove fear, take participation & create interest in science”**. In this project B.Sc. final year students were went to nearby School/ College and presented the science model in that school/ college. Students has already known how to create the model, how to present the model. Now it was chance for students to go and presented science model in their previous school/ Jr. college etc.

In this activity students selected the particular School as per convenient & had taken prior permission from administration of school. After getting the permission from the school our students went to the school and demonstrated the model/ project in front of the students that school. The aim of this competition was remove the fear of science from the Rural students. Many times students having the knowledge but they were fear not to participate in any competition. Remove fear, it was necessary and it was only possible when someone from their own village must got the success. So when our student had went to the School/ college demonstrated their project in front village students, they were motivated and asked many types of the question to our students and they realized that it was not be a very difficult to participate such type of a competition also this was setup the platform to the ruler student to ask a question.

In this academic session 2018-19, In this activity we were covered nearby 25 different School means they were demonstrated in 25 different the school and it got thousands or more number of the students was benefited by this activity.

The success of this activity was due to the large number of the participant of the B.Sc. final year students who went to the different school which not be possible for a single teacher to go such a large number of the schools and villages.

Really this activity is benefited to the society, benefited to the student of our college, benefited to the rural area students.

Department was very thankful to the final year student for their active participation in the activities. Department was also thankful to all the school who gave an opportunity to our students to demonstrate their model and project in their school. Department was also thankful all the teachers of the department who take continuously effort to make them this activity to be a successful.

S. N.	Name Of Project	Participate Student	Presentation Institution
1	Mini Inverter	1. Miss Aditi Gangane 2. Miss Gayatri Deshmukh 3. Mrunal Gawande	1. Radabai Gangane Jr. College, Mundgaon
2	Godown wiring and Android Microscope	4. Miss Vaishanvi Mangale 5. Miss Vaishanvi Zamare 6. Miss Vaishanvi Wankhade	2. Smt. Laximibai Gangane Middle And High School Wadali Deshmukh
3	Laser Security	7. Miss Pooja Sabale 8. Miss Anjali Asalkar	3. Smt. Laximibai Gangane Jr. College, Akot.
4	Drone Helicopter	9. Mr. Shubham Lakade 10. Mr. Malkasing Baghele 11. Mr. Gopal Raut	4. Nursing Vidyalaya Akot
5	Fire Alarm	12. Mr. Nishant Dhole 13. Priyanka Gupta	5. Nursing Vidyalaya Akot
6	Electricity generation from wind turbine	14. Miss Bharti Baghele 15. Miss Sayali Hagone	6. Nursing Vidyalaya Akot
7	Flying Drone	16. Mr. Shubham Lakade 17. Miss Sima Tade 18. Mr. Pritesh Rande	7. Nursing Vidyalaya Akot
8	Water Indicator	19. Miss Komal Yeul 20. Miss Vaishanavi Pawar	8. Lokmanya Vidyalaya, Umra.

		21. Miss Mayuri Dere	
9	Fire Indicator	22. Miss Pooja Yeul 23. Miss Sakshi Nathe	9. Lokmanya Vidyalaya, Umra.
10	Air Cooler	24. Miss Swati Hingankar 25. Miss Vaishanavi Walke 26. Miss Vaishanavi Wankhade	10. Z.P. School Akot
11	Electrical Door Bell	27. Miss Gauri Ponde 28. Miss Samiksha Bhamburkar 29. Miss Manisha Kedar	11. Z.P. Primary Marathi School, Panaj
12	Hydro- Electric Power Plant	30. Miss Shraddha Bramamkar 31. Miss Gauri Patil 32. Miss Pournima Shende	12. Shri Chhatrapati Sahu Vidyalaya, Jaulaka(warur) 13. Pandit Nehru Vidyalaya, Jaulaka
14	Water Alarm with Indicator	33. Miss Gouri Dhabadgaon 34. Miss Priyanka Rathod 35. Miss Gauri Chandurkar	14. Z.P. Middle and higher Middle School, Akot
15	Fire alarms	36. Miss Pranali Gawande 37. Miss Asyut Gangane 38. Anuradha Katore	15. Z.P. Middle and higher Middle School, Akot
16	Sewage Treatment Plant	39. Miss Vaishanavi Deshmukh 40. Miss Apurva Nimbokar 41. Miss Vaishanvi Wankhade	16. Shri Shivaji Vidyalaya, Akot
17	Automatic Street Light	42. Mr. Ajay Kapale 43. Mr. Roshan Sonone	17. Yashoda Middle and Higher middle School, Akot.
18	Auto system for Watering plant	44. Miss Gauri Pundkar 45. Miss Rakhi Wange 46. Mr. Akshay Palaspagar	18. Shri Saraswati Vidyalaya, Akot 19. Vasundhara Dnyanpeeth, Akot
19	Automatic Street Light	47. Mr. Vipul Palekar 48. Mr. Harsh Maniyar	20. Shri Arvind Middle School,

		49. Mr. Suhas Gawai	Akot.
20	Rain Water Harvesting	50. Miss Ashvini Rokade 51. Miss Priyanka Ingale 52. Mr. Kuldeep Dhumale	21. Vikash Vidyalaya, Wadnergangai
21	Water level Indicator	53. Mr. Gaurav Gawai 54. Mr. Nilesh Pradhanmol 55. Mr. Vaibhav Sawrkar	22. Shri Arvind Middle School, Akot.
22	Fountain and Tesla Coil	56. Miss Prajakta Patkar 57. Miss Sanobar Saheen	23. Vikash Vidyalaya, Wadnergangai
	22 Model	57 Students	23 School



Extension Activities- Students explain model in Z.P. Primary Marathi School, Panaj



Extension Activities- Students explain model in Smt. Laximibai Gangane Middle And High School Wadali Deshmukh



Extension Activities- Students explain model in Shri Arvind Middle School, Akot.

Report

“Renewable energy source and it's important to society”

on date 12.10.2018

For B.Sc.-I

Today's we need a large amount of power/ energy for day to day uses if we are depending on the non-renewable or conventional energy sources then we know that it may be finish with the time. Now we must be thing to the renewable energy sources which can be a reproduce with the time such as solar energy, wind energy, hydrogen energy, biogas, hydrogen energy etc. For the Awareness of the renewable energy sources among the students department organised the model competition on renewable energy sources the topic of the competition was “Renewable energy source and it's important to society” the inaugurator & examiner of the program was Prof. S. A. Uke from J D Patil Sangludakar Mahavidyalaya Daryapur, the inaugurated the competition. In the inaugural speech they had given the detail knowledge through their lecture on the renewable energy sources and its importance to the society. After evaluation of the different model in the competition he had shown the satisfaction of the model and explanation. The following student had got the prizes in this competition. In their speech , he was explaining the crisis of energy sources in the world. How India was lucky in term of the solar energy but utilization of this energy was very less in our country. He was also explaining the drawbacks of the renewable energy sources but as compared to their drawbacks they were very useful to the society because it was a non-polluted energy sources. He appreciated each and every student for their participation he also appreciate explanation had given by the students in this competition. The organizer of the program Mr. Umar Bhati thanks to students for the participation and told the advantages of renewable energy sources.

This competition had spread the awareness among students regarding to the renewable energy sources. Every participant had awarded the certificate for their participation. This event was organised with the help of BSc final year students Ms. Payal jeswani and Ms.Komal Berad.

Winner students were felicitated by the Associate professor in chemistry Dr. R. M. Jumle.

This competition had organized under the supervision of Mr. Umar Bhati with the help of Mr. D. P. Chaodhari and BSc final year students and supporting staff of the department.

we were very thankful to the Hon'ble Principal Dr. A. L. Kulat continuously motivating to organize such type of an event in the department also we were thankful to the head of the Science faculty Dr. S. P. Wagh who were continuously supporting to the competition.



Inauguration function of Science model competition-2017 on the topics
“Renewable energy source and it's important to society”



Prof , S.A. Uke and Dr. V. D. Elkar interact with students on Science model competition



Felicitating of students on the occasion of Science model competition

Report
“ Remove fear, take participation & create Interest in Science”.

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In this activity students selected the particular School as per convenient & had taken prior permission from administration of school. After getting the permission from the school our students went to the school and demonstrated the model/ project in front of the students that school. The aim of this competition was remove the fear of science from the Rural students. Many times students having the knowledge but they were fear not to participate in any competition. Remove fear, it was necessary and it was only possible when someone from their own village must got the success. So when our student had went to the School/ college demonstrated their project in front village students, they were motivated and asked many types of the question to our students and they realized that it was not be a very difficult to participate such type of a competition also this was setup the platform to the ruler student to ask a question.

In this activity we were covered nearby 16 different School means they were demonstrated in 16 different the school and it got thousands or more number of the students was benefited by this activity.

The success of this activity was due to the large number of the participant of the B.Sc. final year students who went to the different school which not be possible for a single teacher to go such a large number of the schools and villages.

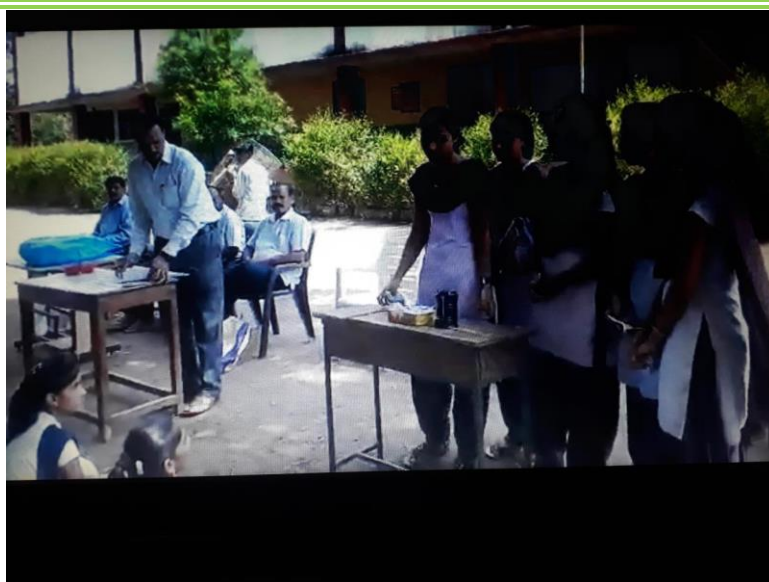
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“Remove fear, take participation & create Interest in Science”.			
S. N.	Name Of Project	Participate Student	Presentation Institution
1	To Use The Finger Print System For Safety Of ATM Machine	1. Miss Pooja B Badukale 2. Miss Vaishanvi Dhule 3. Ankita Dharma	1. Nagarparishad Middle School Anjangaon Surji
2	Room Heater	4. Mohibul Haq Ab Haq 5. Mateen Shaha	2. Boys Urdu Highschool Akot
3	Automatic Fan Controller	6. Geeta Thakare 7. Geeta Bhaskar 8. Rupali Dhude 9. Tejal Lahane 10. Triveni Lahane	3. Shivaji Vidyalaya Asegaon Bazaar
4	Automatic Cleaning Machine	11. Pratiksha Kulat 12. Alpesh Bute 13. Pratiksha Rekhate 14. Rahi Raut 15. Kanchan Dixit 16. Poonam Wankhade	4. Z. P. Boys Marathi School Adgaon Bk
5	Transaction In ATM Machine	17. Harsha Lahane 18. Priyanka Gupta	5. Vasundara Dnyapeeth Akot
6	Grass Cutter	19. Divya Demla 20. Krutika Gawande 21. Nikita Gour 22. Poonam Bute 23. Neha Gour	6. Freedom English School Akot
7	Flying Drone	24. Harsha Zade 25. Shrada Shende 26. Pooja Ravankar 27. Manju Pathrikar 28. Ilqa Sheikh 29. Snehal Shende	7. Smt. Laximibai Gangane Middle And High School Wadali Deshmukh
8	Earthquake Alarm	30. Mohine Wankhade 31. Trupti Wete 32. Bharti Chaukhade 33. Vashnavi Nemade 34. Harsha Berad	8. Smt. Shewantabai Kalmegh School And Arts, Science Jr. College, Chausala
9	Electricity From Water	35. Ashwini Wankhade 36. Rupali Gadekar 37. Priyanka Arbat 38. Kanchna Patange 39. Nutan Zade	9. Late Vasantao Naik Vidyalaya Raundala

10	Mosquito Killer	40. Divyani Kedar 41. Namrata Rekhate 42. Rutuja Zunjare 43. Swati Gujar 44. Nikita Makode	10. Yashoda Secondary Akot Higher School
11	Mini Microscope	45. Rupali Dharma 46. Vashanavi Kedar 47. Vashanvi Paygan 48. Rupali Tade	11. Yashoda Secondary Akot Higher School
12	Vacuum Cleaner	49. Monika Nadurkar 50. Arti Gawande	12. Yashoda Secondary Akot Higher School
13	Hair Dryer	51. Anjali Ingle 52. Subhangi Gadge 53. Nikita Payghan 54. Nutan Chopade	13. Z P Jr College Ad Bk
14	Mosquito Killing Cage	55. Akshay Telharkar 56. Akshay Rathod 57. Ajay Pande 58. Arvind Gaykwad 59. Aniket Solanke 60. Tushar Bijewar 61. Manoj Jawanjal	14. Shri Maharudra Highschool Sawara
15	Vacuum Cleaner	62. Nita Wankhade	15. Z P Primary School Alewadi
16	Grass Cutter	63. Harshal Galande 64. Hrushikesh Murhekar 65. Ajay Palaskar 66. Akshay Awandkar 67. Shoheb Khan 68. Tejas Thakare	16. Nursing Vidyalaya Akot



Extension Activities- Students explain model in Asegaon Bazar School(10Km)



Extension Activities- Students explain model in Manchanpur school (8Km)

Report
Lecture cum visit of class X student Babu Jagjeevanram Highschool Akot
On topic Practical in Physics

Class 10th students Babu Jagjeevanram Highschool Akot visited to the college. Department of Physics got an opportunity to interact with the students of standard 10th . This was a good opportunity for department teacher to understand and created interest regarding Sciences among the higher middle school students. Department set up the some experiment with the help of B.Sc. students. Department welcome all the students & teachers behalf of the college. Mr. U. T. Bhati had given the introductory speech and explained basics concept of science to the students. Firstly department teachers remove the fear of the students and interacted in friendly atmosphere. There were 10 different number of the experiments setup for this students and explained all these experiments one by one to the students. After completion of the introduction of the basic experiments, students tried to handle this experiment. Students cleared their doubts by asking the question and query to Mr. U. T. Bhati. This was really a very good experience to interact with higher Middle school students. We were thankful to the Head mistress and teacher of Babu Jagjeevanram Highschool Akot.



Mr. U. T. Bhati explain the working of travelling microscope to class X Students



Felicitation of teacher behalf of department and explain the experiments to students by Mr. U. T. Bhati

अहवाल
विज वाचवा व निसर्ग वाचवा

आकोट : स्थानिक श्री शिवाजी कला, वाणिज्य व विज्ञान महाविद्यालय, आकोट येथे भौतिकशास्त्र विभागाच्या वतीने आठवड्यातुन किमान एक तास “विज वाचवा व निसर्ग वाचवा” या उपक्रमा अंतर्गत महाविद्यालयात विज पुरवठा बंद करण्याचे ठरविले. विजेचा दिवसेंदिवस जानवू लागलेला तुटवडा या गांभीर विषयांची विद्यार्थ्यांना व समाजामध्ये जनजागृती व्हावी या उद्देशाने वरील उपक्रमचे आयोजन करण्यात आले. या वेळे दरम्यान महाविद्यालयाचे दैनंदिन कामकाज बंद न ठेवता इतर कामाला महत्व देवून कामकाज चालू ठेवण्यात आले. दि.16.09.2014 ला महाविद्यालयाचे प्राचार्य डॉ. ए. एल. कुलट यांनी स्वताः विज खंडीत करून या उपक्रमाला सुरवात केली. कार्यक्रमाला डॉ. विजय भगत, प्राणिशास्त्र विभाग, अधीक्षक श्री भालचंद्र फोकमारे उपस्थित होते. या प्रसंगी महाविद्यालयाचे प्राचार्य डॉ. ए. एल. कुलट यांनी सत्र 2014-15 मध्ये आठवड्यातुन किमान दोन दिवस मंगळवार व बुधवारी किमान अर्ध्या तास विद्युत पुरवठा बंद ठेवण्याचे जाहिर केले. प्रा. डॉ. दिनदयाल ठाकरे यांनी “विजेचे निर्मिती व विजेचे स्रोत” या विषयांवर विद्यार्थ्यांना मार्गदर्शन केले. वरील कार्यक्रमाला महाविद्यालयाचे सर्व प्राध्यापक, शिक्षकेत्तर कर्मचारी व विद्यार्थ्यांनी उत्स्फूर्त प्रतिसाद दिला. कार्यक्रमाचे आयोजन भौतिकशास्त्र विभाग प्रमुख प्रा. डॉ. दिनदयाल ठाकरे , प्रा. उमरभाटी, प्रयोगशाळा साहा. कु. लता सानप व भौतिकशास्त्र विभागाच्या विद्यार्थ्यांनी केले.



Inauguration of “Save Energy & Save Nature” by the Hand Hon’ble Principal Dr. A. L. Kulat
1 Hour power cut in week

Report

Gain Knowledge, Solve Problem

Department of Physics organised 3 week counselling session for the BSc student who offering the Physics in academic year 2015 -16. When department teachers continuously evaluated Performance students, they realized that something that were doing the mistake by the students so that they were not performing well in the University examination. Practically they were less confidence in their study. Department organised unit wise, seminar & project but the result as compared to the effort was very less.

Department teacher decided to arrange the counselling session in which students must be read their syllabus from the reference books, textbooks and notes then tried to remember this and then asked as many as questions to the teachers in free time. These types of steps were followed regarding to the theory. Students cleared doubt by asking many questions to the teachers beside the classroom and improve their knowledge.

This steps regarding to the theory improve their University result in Physics as well as other subjects. similarly technique was adopted for practical in Physics. In a practical teacher explaining the concept and demonstrated the practical to all students then make them to compulsory to read the theoretical background of the practicals and simultaneously do their practicals. They were doing the lot of the mistake but finally got success to do the practical accurately. They asked the many questions to the teachers regarding to practicals and cleared their doubts as maximum as and gain the knowledge.

Continuous counseling benefitted to students to gain higher % of marks in university examination and personality's growth.

department was thankful to all colleagues for continuously giving the feedback and also to the student who really were involved in this activity and cleared their doubt. Department was also thankful to the head of faculty of Science and head of the department and teachers for the continuous support for improvement of the status of the students.

Student –Teacher – Guardian Co-ordination Committee

First Meeting Report

Date: - 22nd September 2014

The department of Physics adopted the students of B.Sc. part-I having mathematics as optional subject for session A. Y. 2014-15. The total number of students adopted by the department is 60 & they are under the supervision of Dr. D. S. Thakare Head & Mr. U. T. Bhati, Assistance professor in Physics. The first meeting of adopted students was conducted on 22nd September 2014 at 1.15pm, for this meeting 54 students were presented. The meeting of conducted under the chairmanship of Dr. D. S. Thakare and he gave clear cut following instruction to the students.

1. The member of committee filled up the Bio Data of each student.
2. Everybody should be obey rules and regulation of the college & Should be always in dress code with i- card.
3. Use of mobile in the premises, class room and laboratory is strictly prohibited.
4. About any difficulties which may educational, Social and economical will be consider in the meeting of the committee.
5. The entire student was aware from the scheme, various scholarship & facilities available in the college.
6. Committee discuss about the future aims of the students.

STUDENT –TEACHER –GUARDIAN CO-ORDINATION COMMITTEE

Report 2014-15

In the meeting of committee incharge , it was decided to enlighten the objective of committee to the student academic year 2014-15

The committee has decided to take guardianship of each student of the college to remove the communication gap between the student and teacher and guardian. And this is the main motto of this committee. Committee has discussed on following issue.

1. Guardianship of the student has been distributed among the faculty.
2. In the science faculty for the team of 35 students appointed one teacher as a Guardian. Due the less number faculties in Arts & commerce the committee has decided to take class as a whole and appointed one teacher as guardian
3. It is also decided to look after the educational economical and social problems of the student.
4. By arranging the meeting of students, focus on the rules and regulation various activities going on in college and forced them for active participation.
5. To keep continuous contact between the student, teacher and guardian and convene the academic and other purpose of the student to the guardian.

PHASE ONE- The committee finds out the names of the student who were absent continuously and having presence less than 75% and such list sent towards the respective committee.

PHASE TWO – The committee has decided the following action plan for session 2014-15

1. To organize guest lecture on personality development, competitive examination.
2. To organize parent meet in the month of March-2015
3. To circulate the feedback form to the students and collect grievances and suggestions for further action.



Dr. R. S. Mankar, Teacher interact with student on the occasion of Student – Teacher Meet



Mr. U. T. Bhati, Teacher Interact with student on the occasion of Student – Teacher Meet



Dr. D. S. Thakare, Dr. V. H. Bhatkar, Dr. Capt. P. P. Kothé & Prof. Nalanada Borkar Madam interact with student in Student teacher meet

Co-curricular Responsibility:-

S. N.	Name of Faculty	Session 2013-14 onward	Event
1.	Dr. D. S. Thakare	Officer In-charge	University Examination W-2013 & S-2014
2.	Mr. U. T. Bhati	As Coach/ Manager of Team	Intercollegiate Soft ball competition
3.	Mr. U. T. Bhati	Assistant officer Incharge	S-2013,W-2013,S-2014,W-2014,S-2015,S-2017 University Examination
4.	Dr. D. S. Thakare	Co-officer	W-2015 & S- 2016 University Examination
