



Shri Shivaji Education Society, Amravati's
Shri Shivaji Science College

KALEIDOSCOPE

An IQAC Newsletter



Volume VII / Issue I & II - January to December 2020

From the Chief Editor

I am delighted to convey all our well-wishers that, to impart a more attractive gesture, the IQAC Newsletter of the college will be called as 'Kaleidoscope' and will be published online to reach up to the greater number of readers easily from this new academic year. As the new name signifies, this newsletter will cover a spectacular spectrum of varied events imparting a more symmetrical and splendid view with a broader insight.

I hope, the readers will welcome and appreciate this new change and will rejoice in its comprehensive and enlightening coverage just as they enjoy a prismatic view by looking through a Kaleidoscope

Dr. W. S. Barde

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From the Desk of the Principal...

Publishing this IQAC Newsletter is one of the best practices of this renowned institution. It is observed that, since the important events and programmes have got the authorised and dignified platform for their appreciation, publicity and propaganda, there has been a significant increase in the organization of such academic, research, co-curricular, cultural, and outreach activities by the college. The teachers, students and all the other stakeholders of the college are being engaged in more number of innovative or creative and productive activities in the college.



It is important to review such activities to ensure that the college administration has a proper understanding of the challenges and opportunities facing its stakeholders. Moreover, keeping the stakeholders informed about our college developments confirms that they are aware of the college reputation as an innovative, committed and dedicated institution.

I congratulate and appreciate the Editorial Board, the dynamic IQAC team and the teachers for their painstaking efforts in making this 'Kaleidoscope' a genuine and fascinating medium of information, promotion, motivation, and relationship-building.

Dr. V. G. Thakare

Cover story

2nd Degree Distribution Ceremony
of Under-graduates & Post-graduates- 29 January 2020
Students were conferred upon with
the 34 GOLD Medals



2nd DEGREE DISTRIBUTION CEREMONY -2020



The Second Degree Distribution Ceremony of the Students Passed out in Summer-2019 Examination of Sant Gadge Baba Amravati University, Amravati, was held on Wednesday, 29 January 2020, at 11 am in C.V. Raman Auditorium of the college. The Chairman of the function was Shri Gajananraoji Pundkar, Vice-President, Shri Shivaji Education Society, Amravati and The Chief Guest was Hon. Dr. Vilas Sapkal, Former Vice-Chancellor. The Principal, Dr. V.G. Thakare and all heads of the department along with IQAC coordinator were present on the dais.

The degrees were distributed at the hands of chief guest and the chairman of the function. Initially Dr. V. G. Thakare elaborates the motive of the function and expresses the hope that in future the same trend of achievements will be seen.

On this occasion Dr. Vilas Sapkal guides the students about acquiring the advanced skills in their subjects so that they will get the job or may start their own business by which they can offer the jobs to the other candidates.

Workshops, Trainings & Academic Activities

Workshop on Mushroom Cultivation Technology and Farming

Workshop on Mushroom Cultivation Technology and Farming was organized by the Dept of Botany, Vinayak idnyan Mahavidyalaya, Nandgaon Khandeshwar on 17th February, 2020 in which 63 Students participated. Dr. D. V. Hande, Associate Professor, Dept of Botany, Shri. Shivaji Science College, Amravati was the resource person of this event. Dr. Hande guided the students on the



importance of Mushroom cultivation and its medicinal values. This college has been taking keen initiative to promote Mushroom cultivation and its propagation since years. The students were made acquainted with the latest methods of growing high-quality mushrooms and also the marketing opportunities by Dr. Hande. The students were very happy to attend this enlightening workshop.



National Science Day Celebration



A Guest Lecture on the topic “Women in Science” was organized by the Department of Environmental Science on the occasion of National Science Day on 28 February, 2020. The alumna of the department Ms. Sujata Pachghare, who has been working as a City Coordinator of Swaccha Bharat Abhiyan of the Govt. of Maharashtra in Morshi delivered an encouraging lecture for the students of PG and B.Sc.II students.

Summer Research Training Programme (S RTP) under CSIR

Outreach Activity under CSIR NORTH EAST INSTITUTE OF SCIENCE AND TECHNOLOGY, JORHAT Project Mentor Dr. Dinesh D. Khedkar Project Title: Trapping Cidal Spray Constituents by Using Blend Masks in Agricultural practices. 33 Students Participated. Indiscriminate use of pesticides in the agricultural field is a matter of concern. Lack of awareness regarding the toxicity of

most of the pesticides have created a havoc among the farmers that ultimately lead to innumerable health issues. To assess the magnitude and intensity of occupational intoxication, this study was conducted all over the north, south, east and western region of India. We shortlisted the pesticides based on the threats and health issues caused by them .



Online One Month National Training on “Instrumental Techniques and their Practical Applications for PG & Research Students” – 01.08.2020 to 31.08.2020

Now a days, candidates with core analytical skills, sound knowledge and practical significance, trouble shooting of different sophisticated analytical instruments are appreciated and required by all the research, manufacturing, processing and contract manufacturing industries as well as by the government and Public Testing Laboratories.

This course has been designed considering a huge scope and ample opportunities in different industries like food, pharmaceuticals, agrochemical, fine Chemicals, cosmetics, oil and paints,

ISRO–Workshop

In April, 2020 a workshop in association with ISRO, Bangalore was organized by the Department of Environmental Science. For this event, 40 students had participated. According to MOU signed between Shri Shivaji Science College Amravati, Department of Environmental Science and Geotech GIS Training Institute, Aurangabad, guidance and facility is provided for the research, teaching, and data sharing by GIS expert in Geotech. The Department of Environmental Science of this college is recognized as a study center of ISRO. ISRO has conducted 5-day online workshop on Rain Water

perfumery, beverages, rubber, plastic, clinical research, forensic, public testing laboratories, etc. The department of Chemistry, Shri Shivaji science college, Amravati organized this one-month value-based National Training Course for PG and Research student from 1. 8.2020 to 31.8.2020 under the guidance of Prin. Dr. V.G. Thakre, Dr. H.S. Lunge, Coordinator, IQAC, Dr. G.N. Chaudhari, Head, Department of Chemistry, Dr Shrikant Wadhal, Course Coordinator, Mr. Amol Gawande, Scientist, Peaks Analytical and Research Centre, Nagpur

Harvesting in which P.G. students of the department participated. In this workshop application of GIS in rainwater harvesting is taught to the students.



Career Opportunities in Geology

The Earth Science Week was organized by the Department of Geology, Shri. Shivaji Science College, Amravati between 13-16 October, 2020. During this week, A Four-day Online Lecture Series on “Career Opportunities in Geoscience” was held online on Zoom platform and YouTube live between 13-16

October, 2020. The aim and objective of this Online Lecture Series was to make the 10+2 level school and college students aware about the various Career Opportunities in Geosciences. The students were highly benefitted by this workshop.

Short Term Course on Material Synthesis and Characterizations

An enriched short term course on Material Synthesis and Characterizations for postgraduate and research students was organized by Department of Physics during 09th to 14th December, 2019. The sessions were held on material synthesis by the faculty members of the department followed by the hands on training in the laboratory on first three days. The next three days were totally devoted for the material characterization and analysis at CIC of the college.



Effective Enforcement of IPR: Patent and Copyright

The Library and IQAC organized an online workshop on “Effective Enforcement of IPR: Patent and Copyright” on Wednesday, 17 June, 2020. The workshop was conducted using Zoom app through which 145 participants registered for the workshop. The workshop started with an introduction by the librarian

Dr. Revati Khokale. Hon’ble Principal Dr. V.G. Thakare, IQAC Coordinator Dr. H.S. Lunge and all the Heads of the departments and staff members participated in the workshop. The first session started at 11.15 a.m. with the lecture of Dr. Vijaya S. Sangawar, Professor, Dept. of Physics, GVISH, Amravati, on “Patent: Know

Your Right”, in which Dr. Sangawar oriented the participants about the nature and importance of IPR, Patent , Patent Drafting and processing, and also the Patent Rights. The second session started at 12.30 p.m.in which Dr. Mangala A. Hirwade, Associate Professor, Dept. of Library and Information Science,

RTMNU, Nagpur commented on the Copyright and Plagiarism issues in context to UGC. In her lecture, she covered very important topics like Copyright, UGC regulations, and Plagiarism. The workshop concluded with the vote of thanks by the librarian Dr.Revati R. Khokale.

Webinar On "Patent: An Introduction, Retrieval and Career Opportunities"



Shri Shivaji Science College, Amravati organized a scheduled Zoom meeting from Dept. of Library on 14 Oct 2020 guest for this webinar Mr. Rishabh S. Dahake, Libran Bhartiya Mahavidayla Amravati has given lecture, for this event 326 students were participated.

Four-day Webinar Series on Application of Remote Sensing in Hydrology and Environment

A four-day Webinar Series on Application of Remote Sensing in Hydrology and Environment was jointly organized by the Dept. of Environmental Science and Dept. of Geology to celebrate the World Environment Day- 2020 during 5 - 8 June 2020 with an objective of creating awareness and sensitizing people for their action to conserve and protect our environment. For this event, 528 students were present

Seminar/Quiz Competitions

Drug Discovery Hackathon 2020 (DDH2020)

Drug Discovery Hackathon 2020 (DDH2020) is a joint initiative of AICTE, CSIR supported by the Office of the Principal Scientific Advisor, Govt. of India, NIC and My Gov. The mission of DDH2020 is to establish 'Open Innovation Model' for in-silicon drug discovery against Covid-19 virus and covers the various processes in drug discovery. The targets/ tools/ lead molecules identified through this process of DDH 2020 will be further taken forward for synthesis followed by subsequent steps in routine drug discovery program. Eight-member team named as "Bioentra" participated in Phase I, that include Mr. Shyam Ingle from P. G. Dept of Bioinformatic, Shri Shivaji Science College, Amravati.

Online college-level Seminar Competition

The three-day online college-level Seminar Competition was organized on Google Meet Platform by the Department of Geology, Shri Shivaji Science College, Amravati from 10-12 December 2020. The aim of this seminar was to explore the role and importance of mountains in human life. On the opening day of the online lecturer series, Head of the Department of Geology of the college Dr. Mayura M. Deshmukh, introduced Dr. P.S. Parimal, Head, Department of Geology, G.S. Tompe Arts, Commerce and Science College, Chandur Bazar and Mr. M.S. Falke, Assistant Professor, Shri Shivaji Science College, Akola.

The competition was organized for B.Sc..II& III students in which 60 students actively participated. Dr. P.S. Parimal, and Mr. M.S. Falke worked as the examiners of the competition. The winners were felicitated at the hands of the guests.

Video Contest

On the occasion of the World Environment Day-2020, Event was on 5th June 2020 Department of Environmental Science Organize as event Video Contest with United Nation Environment Programme. Video Contest is organized by Department of Environmental Science and IQAC (Internal Quality Assurance Cell), Shri. Shivaji Science College Amravati on three themes i.e. Effect of lockdown on Environmental quality, Message to COVID-19 warriors and Lockdown life style. The length of Video is up to 3 minutes. Prize is given to best three video in all three themes.

Environmental Science GIS Based Quiz

Department of Environmental Science, Shri. Shivaji Science College, Amravati & Geotech GIS Training Institute, Aurangabad organized Environmental Science GIS-based Quiz during the period of COVID 19 Lockdown on 5th June, 2020. To Understands the responsibility towards society, the department has been conducting this Environmental GIS-based quiz. About 55 students participated in the quiz. This quiz will certainly help our students and the society to understand the situations of pandemics like Covid-19.

Competition on Presentation and Demonstration of Physics Experiments

A competition on Presentation and Demonstration of Physics Experiments was organized on 29th February, 2020 by the Physics Department in collaboration with the Amravati University Physics Teachers Association (A.U.P.T.A.). The competition was inaugurated at the hands of Prin. Dr.V. G.Thakare. From B.Sc. I category, 16 students participated while from B.Sc. II and III, 18 and 11 students respectively participated in the competition. Session-1 included the experimental presentation, immediately followed by the inaugural ceremony. Parallel sessions were arranged in the A.V. Theatre and Physics laboratory of the department with a strong team of juries (referees) comprising Prof. Narendra Thakare, Dr A. W. Asole, Dr. S. J. Uke, Dr. J. T. Ingale. The demonstration of the Physics experiment was arranged in session-2. Miss. Sanjana Dondalkar of Shri Shivaji science college, Amravati bagged the first prize Miss. Samruddhi Mule of R.L.T. college of Science .Akola ,was awarded with ,second prize In B.Sc. second year category, Mr. Ganesh Sahatrabudhe of Shivaji college Akola , bagged the

first prize Miss Deepika Sharma of M.S.P. Sci. college Manora, Dist. Washim was awarded with second prize. In the B.Sc. first year category Mr Aakash Suradkar from Shivaji College ,Chikhali, dist .Buldana bagged the first ku. Sakshi Thakare of Shri Shivaji science college , Amravati bagged second prize.The cash prize and the certificate distribution was held during the valedictory function in the honored presence of Dr.S.K. Omanwar ,B.R.S. Fellow ,Former Professor and H.O.D. Department of Physics. S.G.B.A.U. Amravati. Dr.P.A. Nagpure proposed the vote of thanks at the end of the program.



Regional level Bird Quiz 2020

Dept. of Zoology and Amravati Forest department organize on 10 Nov 2020.In second week of November “A Regional level Bird Quiz 2020” was organized in collaboration with Amravati Forest department as a part of celebration Bird week 2020

for School & college students. Total 185 students were participated in Online Bird quiz from entire Maharashtra. Dr. G.A. Wagh was the coordinator of the Bird Quiz 2020’.

Online power Point Presentation Competition & Rangoli Competition

To mark the wildlife week 2020 celebration on 4-5 October 2020 Department of Zoology was organized the online power Point presentation Competition & Rangoli Competition in collaboration with Wildlife and Environment Conservation Society (WECS), Amravati. Theme for the Rangoli competition was ‘Face of Wildlife’ and for Power point presentation, “Save Wildlife”. In all 30 students were participated in Rangoli Competition & 11 students were participated in PPT creation & presentation

Competition. Dr. G. A. Wagh was the coordinator of the Wildlife week Program.

1stPrize in PPT





1st prize in Rangoli 2nd Prize Rangoli

Guest lectures, Field Visits & Educational tours

Motivational Lecture by Francis Patel for the participants of National Level Video Elocution Competition.

On the 6th of August, 2020, the department of Chemistry organized a Motivational Lecture for the 115 participants of National Level Video Elocution Competition organized by the college. It's a thing of great pride for the college that this Video Elocution Competition got registered in the prestigious U.N. Environment Programme-2020-21. Mr. Francis Patel, a well-versed teacher and motivational trainer provided his expert guidance to the participants of this competition. He inspired the

participants by telling some very inspiring stories in a playful way. He also guided the participants for their effective communication and presentation skills. This event helped inculcate reading, listening and speaking skills amongst the students. In all, 95 students and 20 teachers attended this programme. The students were highly benefitted by this event and could perform far more effectively in the competition.



Educational Visit



The visit was organized by the Department of Chemistry for B.Voc. Forensic science students on the occasion of Forensic Awareness Week on 22 nd January,2020. All Students with their guardian teachers Dr. S.P.Ingole and Ms. K.S. Mawande visited the lab. RFSL staff members welcomes us and brief us for further schedule. Through Power Point Presentation, working of forensic

laboratories and how it helps to track the different types of crime in zthe society. Also the information about the available facilities was given. Their presentation includes legal part and duties of experts to help judiciary system. Posters were also displayed in the lab to get knowledge about specificity and working of each department. The presentations and posters help student to get knowledge about department and working techniques in field of forensic science. After presentations students have conversation with all officers regarding their queries. The Deputy Director of RFSL, AMRAVATI also communicate with students to guide them about significance of forensic.

Industrial visit

Industrial visit to Raymond Luxury Cottons Limited Amravati for B.Sc. II as a part of departmental activity. The visit was organized on 7th March 2020 at 2 PM. During the visit

industrial management Mr. Madan Waghunde and Mr. Suraj Wankhade guided us during the visit. In all 82 students visited Spinning unit, dying unit and weaving unit officials explained all

mechanisms and working involved in fabrication of linen cloth. A four days tour on 20th and 24th was arranged. We have visited to Pune, Alandi, Mahad, Alibagh, Kashid beach, Janjira Fort. We arranged our tour from 20th February

Educational Visits



Department of Environmental Science organized visit of B.Sc. IInd & M.Sc. IInd year students to sewage treatment plant on 25th Feb. 2020. 33 students from B.Sc. IInd and 22 students from M.Sc. IInd were present along with 3 faculty members. On 4th March 2020, visit to Bamboo Garden to study afforestation programme run by forest department. Visit was organized for of M.Sc. IInd year students.

2020 of with the “Y.B. Travels Bus.” We had with us three teachers namely Dr.K.V.Puri , Dr. H.G. Wankhade, Ms. P.N. Dabhade and Non teaching member Mr. S. A. Hedau.

22 students from M.Sc. IInd were present along with 2 faculty members. Faculty member explained the students about afforestation programme. On 14th march 2020, study tour to Narnala Wildlife Sanctuary for P.G. students. There were 19 students and 5 faculty members who participated in the visit.



Visit to TIFR Mumbai

An Educational tour and visit to the research laboratory at Tata Institute of Fundamental research (T.I.F.R.), Mumbai was arranged during 23rd to 24th January 2020. 20 M.Sc. Physics students visited TIFR, Mumbai and HBCSE, Mumbai.



OUTREACH

Matiche Ganpati Basva: Environment Friendly Ganesha

Since 2015, students of Environmental Science department, in association with Mungsaji Maharaj Organization, has been participating in the awareness campaign of the use of Ganesh idols prepared from mud and clay. This year, on this occasion, 30 Students actively participated in the campaign. The students motivated the people to purchase Ganesh idols prepared by clay and by using natural colors.



Water Conservation: Construction of Nala Bund/Bandhar



The NSS unit of the college has organized two residential camps at village Naya Akola and Kamunja, 100 students actively participated in the "Water Conservation Mission" on 4th January, 2020.

The NSS volunteers constructed nala bunds/ bandharas at these adopted villages. The collected water passes through the channels made for run-off and collected in the adjacent dam developed by the forest department. This collected water is used for watering forest trees spread across 5 to 6 acres. Factors such as climate change will increase pressures on natural water resources, especially in manufacturing and agricultural irrigation. It is very important to realize the need for water conservation in the community as well as at personal level.

Blood Donation Camp

The college NCC unit, NSS and physical education department jointly organized a Blood Donation Camp during the Covid-19 pandemic, following all the norms to restrict the spread of the deadly virus, on the occasion of the Birthday of Former Agriculture Minister and NCP Supremo Shri. Sharadchandraji Pawar on 12th December, 2020. The chief guest of the camp was Shri. Harshvardhanji Deshmukh, President, Shri. Shivaji Education Society, Amravati. The guests Dr. A.T.

Deshmukh, Dean, Panjabrao Deshmukh Medical College, Amravati and Prin. Dr. V.G. Thakare shared the Dias. A team of doctors and supporting nurses of PDMC College were present for the collection of blood. Almost 20 cadets voluntarily donated the blood. The college teaching and non-teaching staff also donated the blood. A Certificates of Appreciation, refreshment was given to each donor as a token of gratitude.



AIDS Awareness Program



At village Kamunja, 100 students participated with Red Ribbon Club, NSS unit of the college and District General Hospital. NSS unit of the college, in collaboration with Red Ribbon Club has organized World AIDS awareness program on 1st December on the occasion of "World AIDS Day".

In NSS Camp at village Kamunja AIDS awareness campaign was run and oath was taken by the students. This activity was organized in collaboration with Red Ribbon Club in interest to create awareness over HIV / AIDS. It's an opportunity for people worldwide to unite in the fight against HIV, to show support for people living with HIV, and to commemorate those who have died from an AIDS-related illness.



You-Tube Video prepared by the NSS Volunteers on Corona Awareness

During the Covid-19 pandemic lockdown, the NSS volunteers of the college prepared a You Tube Video with an aim of creating awareness among the society regarding the ghastly spread of Corona Virus. They also distributed masks and sanitizers among the public.



You-Tube Video prepared by the NSS Volunteers on Corona Awareness
You-Tube Link- <https://www.youtube.com/watch?v=FMqXSd17N88>

An online platform for International Yoga Day

The seventh International yoga day (IYD-2019) was celebrated through an online platform by 20 cadets of NCC and their family on 21st June 2020 at their homes. The program commenced with a warm-up exercise followed by various yoga mudras, Tadasana, Halasana, etc. as per the yoga protocol. The ANOs guided the students to perform yogasanas and also encouraged them to make it a regular practice of their everyday lives.




Swachh Bharat Abhiyan by NCC

On the eve of 151th Birth Anniversary of Rashtrapita Mahatma Gandhi i.e. on 2nd October, 2020, Swachha Bharat Abhiyan was organized in the college campus by the college NCC unit. Due to COVID Pandemic very few cadets were present for the cleaning of the college campus. The plastic bottles, litters were collected from the campus. In all, 15 NCC cadets vehemently participated in this activity.







Academic Achievements of the Students

Meritorious Students of B.Sc. secured positions in Sant Gadage Baba Amravati University, Amravati

| | | | | |
|--|--|---|--|--|
|  Ku. Shweta M. Sahu (PCM) 3RD MERIT |  Ku. Swati G. Anpat (MBZ) 4TH MERIT |  Ku. Shraddha D. Pawar (PCM) 7TH MERIT |  Ku. Vaishnavi S. Mahakal (PCM) 8TH MERIT |  Ku. Pranjali N. Vidhale (PCM) 10TH MERIT |
|--|--|---|--|--|

Meritorious Students of M.Sc. secured positions in Sant Gadage Baba Amravati University, Amravati

| | | | |
|---|---|---|--|
|  Ku. Namrata R. Ghanmode (Bioinformatics) 1ST MERIT |  Ashvin A. Bhosale (Bioinformatics) 2ND MERIT |  Ku. Priyanka R. Bharde (Bioinformatics) 3RD MERIT |  Ku. Gauri G. Lahane (Computer Software) 1ST MERIT |
|---|---|---|--|



Ku. Ali Sana Afeen S. Haroon
(Computer Software)
2ND MERIT



Ku. Rakshanda A. Kadu
(Computer Software)
3RD MERIT



Ku. Roshani M. Bhure
(Environmental Science)
2ND MERIT



Ku. Mehwish K.A. Razique
(Environmental Science)
3RD MERIT

Superannuation of Faculty & Staff



Dr. Mrs. N. V. Bhatkar, Associate Professor and Head, Department of Zoology, started her career as a lecturer in Zoology at Shri Shivaji College, Akot on dated 9/9/1988. She has rendered her 32 years of services to the field of education and retired on 31/05/2020.



Dr. Mr. V. B. Bhatkar, Associate Professor and Head, Department of Physics, started his career as a lecturer in Physics at Shri Shivaji College, Akot on dated 9/10/1982. He has rendered his 38 years of services to the field of education and retired on 31/08/2020.



Shri. G. A. Wankhade, Lab Assistant joined his on dated 19/9/1984. He has rendered his 36 years of services to the college and retired on 31/12/2020.

*Thank you for all of your hard and sincere work,
We will miss you! Happy retirement!*

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