



Government of Maharashtra



RAJARAM COLLEGE, KOLHAPUR

CRITERIA- 5

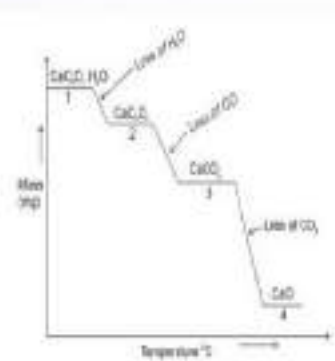
5.3.3 – Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

Departmental activities 2021-22

Sr.No	Activity	Date
1.	Lead College Activity :Instrumental techniques of Analysis 1. Dr.VishwajeetKhot(Assistant Professor, D.Y. Patil College ,Kolhapur) 2. Dr. Gajanan Rashinkar(Professor , Shivaji University, Kolhapur) 3. Shri. Pramod Mane (Analyte Pharma Job Training Institute, Kolhapur)	18/01/2022
2.	Guest Lecture: Dr.PratikGholkar Nanomaterials :An emerging and interdisciplinary field for future	06/04/2022
3.	Guest Lecture: Ajay Parle Director, AsquareAnalytical,Industrial training center	20/04/2022
4.	Chem Club competitions: Guest: 1. Dr. P.D.Talap Poster presentation Competition	28/05/2022
5.	Value added course'Preparation of Household Chemicals'	25/04/2022 to 27/05/2022
6.	Workshop on 'Preparation of Household Chemicals'	17/05/2022
7.	Industrial Visit (M.Sc.): Analytical Pharma Laboratory	21/05/2022

Lead College Activity

Recording... LIVE 44 Participants in Viewing Session



Calcium Oxalate Decomposition

- 1st Step $\text{CaC}_2\text{O}_4 \cdot \text{H}_2\text{O} (\text{s}) \rightarrow \text{CaC}_2\text{O}_4 (\text{s}) + \text{H}_2\text{O} (\text{g})$
Calcium Oxalate Monohydrate Calcium Oxalate
- 2nd Step $\text{CaC}_2\text{O}_4 (\text{s}) \rightarrow \text{CaCO}_3 (\text{s}) + \text{CO} (\text{g})$
Calcium Oxalate Calcium Carbonate
- 3rd Step $\text{CaCO}_3 (\text{s}) \rightarrow \text{CaO} (\text{s}) + \text{CO}_2 (\text{g})$
Calcium Carbonate Calcium Oxide

© Pearson Education

Recording... 44 Participants in Viewing Session


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Rejwan College
Rejwan College

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Recording... 44 Participants in Viewing Session

Rejwan College Rejwan College Mahvajan Rhet Rattqa Sater Tarek Ghadman... 3

Rejwan College Rejwan College Rejwan College Rejwan College Rejwan College Rejwan College



44 Participants in Viewing Session

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Guest Lecture : Job opportunities in Chemistry



Guest Lecture : Nanomaterials :An emerging and interdisciplinary field for future





Chem Club : Poster Presentation Inauguration





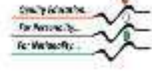
Quiz Competition





राजाराम महाविद्यालय कोल्हापूर

रसायनशास्त्र विभाग



Value Added Course
on

Preparation of Household and Domestic Chemicals

कार्यक्रम पत्रिका

कार्यक्रम आरंभ :- दृ. 12.30 वा. दि. 17.05.2022

अध्यक्ष	: डॉ. एस. बी. महाराज पाटील, प्राचार्य राजाराम महाविद्यालय कोल्हापूर
प्रमुख वक्ते	: डॉ. किशोर गायकवाड, उप प्राचार्य, राजर्षी छत्रपती शाहू कॉलेज, कोल्हापूर
प्रस्तावना	: डॉ. के. के. पाटिल, विभागप्रमुख, रसायनशास्त्र विभाग
परिचय	: श्री. एस. ए. सोनवणे
प्रमुख वक्ते मनोगत	: डॉ. किशोर गायकवाड
अध्यक्षीय मनोगत	डॉ. एस. बी. महाराज पाटील, प्राचार्य राजाराम महाविद्यालय कोल्हापूर
आभार	: डॉ. ए. जे. बोडके

Hands on training - Chemistry Laboratory 1.30 onwards

Value added Course: Preparation of Household Chemicals



Hands on Training



Report of Alumni Activity

The alumni have a very strong affinity towards the department and are eagerly willing to contribute towards overall upliftment of the Department.

KAL-AAJ-AUR-KAL :This concept has started from the experiences of past students to share their thoughts with the present students to help them achieve a better future.

Academic year 2021-22

Under KAL –AAJ-AUR –KAL activity these alumini visited our college and they guided our students on various topics

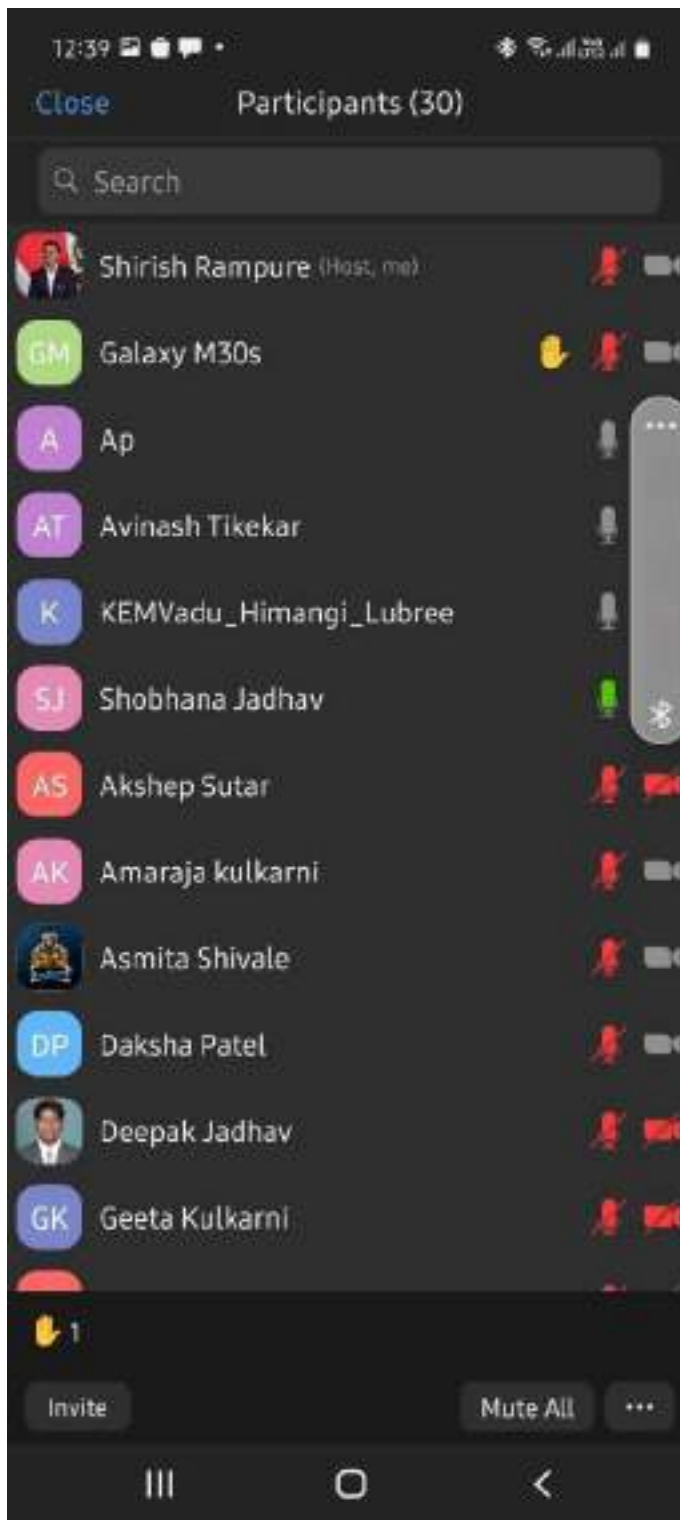
Sr. No	Name of the student	Designation	Topic of lecture
1.	Sunny khandelwal	M.Sc student	Preperation of M.Sc entrance exam
2.	Aniket Kumbhar	M.Sc student	Preperation of NIV entrance exam
3.	Shailen Jadhav	Teacher	Career in Microbiology

Along with this, in this year our alumini Sujit Powar donated some books for our department.



Alumini meet

This year Alumini meet was conducted on 6th February 2022.



RAJARAM COLLEGE, KOLHAPUR

DEPARTMENT OF ZOOLOGY

2021-2022

ACTIVITIES

Sr. No.	Name of Activity	Date
1	World Wildlife Week Celebration	08/10/2021
2	Lead College Workshop on “Wildlife Conservation and Photography”	12/01/2022
3	Bird watching activity at Rankala Tank, Kolhapur	06/03/2022
4	World Sparrow Day Celebration	20/03/2022
5	Visit to “Natural Historical Museum”, New Palace, Kolhapur	29/04/2022
6	Excursion of B.Sc. III Zoology Students at “Dajipur Wildlife Sanctuary”, Radhanagari, Kolhapur	13/05/2022
7	Seminar Presentation by B.Sc. III Students	Semester V & VI
8	Projects Completed by B. Sc. III students (2021-22)	Semester VI

1. World Wildlife Week Celebration

Department of Zoology, Rajaram College, Kolhapur organized Online Guest lecture, on the occasion of WILD LIFE WEEK, 2021 on 08/10/2021. Speaker for this guest lecture was eminent wildlife conservator **Mr. Jaydeep B. Patil**. During the session, he delivered talk on **“Wildlife Conservation: Paulkhuna”**, For this programme, Total 115 participants were reported, including students, faculty and non-academic people interested in conservation. At the end of the session, students were fruitfully interacted with speaker on new ideas of youth regarding conservation and human-wildlife conflict and its measures.

Quality Education...
For Personality...
For Nationality...



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RAJARAM COLLEGE, KOLHAPUR

World Wildlife Week Celebration
At
Department of Zoology
Rajaram College, Kolhapur

Speaker: Shri. Jaydeep C. Patil

“Wildlife Conservation: Paulkhuna”

Date: 08/10/2021 Time: 11.30 am to 12.30 noon

Platform: Online mode (Google meet)

*Kindly confirm your participation through registration.
For registration use the following link:
<https://forms.gle/TPBdzr1EGkuJfxBS7>*

Dr. Lata P. Bhopale
Head, Zoology

Dr. S. C. Maharaj Patil
Principal, Rajaram College

Attendance bot: dev(Pavan:p2pdops@gmail.com) on 2021-10-08 : 12:15:
<https://meet.google.com/ayf-wzjk-qhp?authuser=0>

Department of Zoology, Rajaram College, Kolhapur Organised Guest lecture on the Occasion of V
Wildlife Week Celebration by **Shri. Jaydeep Patil** on "**Wildlife Conservation: Paulkhuna**"

Members present : 115 (Duplicates removed)

Sr. No.	Name of Participant	Sr.No.	Name of Participant	Sr.No.	Name of Participant
1	A N Potdar	42	Pavan Sutar	83	Sourav Patil
2	ANAND NAIK	43	Pooja Dhende	84	Suhasi Kamble
3	Aarya Devekar	44	Prachi Giri	85	Supriya Chavan
4	Aditi Magar	45	Pradnya Dalvi	86	Suraj Patil
5	Aishwarya Dhembre	46	Prajakta Santosh Bhilugade	87	Surekha Mane
6	Amit Dhakane	47	Prajyot Lagade	88	Sushant Mahajan
7	Anagha Bhakare	48	Pramod Katkar	89	Swaleha Mujawar
8	Anjali Kumbhar	49	Prathmesh bhandigare	90	Swara Patil
9	Arati Bhaskar	50	Pravin Survase	91	Tasneem Mhetar
10	Arya Patil	51	Preeti Ghatage	92	Teja durve
11	Arya Pote	52	Prerana Kore	93	Tejas Kumbhar
12	Atula Patil	53	Priyanka Mane	94	Tushar Javir
13	Bhakti Khichade	54	ROHINI MALI	95	Vaishali Kesarkar
14	Bushra Ichalkaranjkar	55	Rajesh Maharaj	96	Vaishnavi Asvale
15	Chetan Choudhari	56	Rohan Latkar	97	Vaishnavi Chodankar
16	David Valvi	57	Rohit kurane	98	Vaishnavi Kamble
17	Dipali Dhavane	58	Rutuja Patil	99	Vaishnavi Kesarkar
18	Dipali Kamble	59	Rutuja Paymal	100	Varsha Sutar
19	Disha Kaulave	60	Rutuja chavan	101	Vijaya Patil
20	Dr. Ashwini Salunkhe	61	Rutvik Lad	102	Viraj Suryawanshi
21	Dr. Vishwanath Bite	62	SAKSHI APTE	103	Vitthal Jadhav
22	Harshada Bandhekar	63	SAYALI VARANDEKAR	104	akanksha wagh
23	Huda Faras	64	SWARALI PATHAK	105	akash dalavi
24	Ishita Khomane	65	Sadichchha Kamate	106	chandrasah patil
25	Jaydeep Patil	66	Sanika Chougale	107	kajal sakhare
26	JunedAli Patel	67	Savita Gaikwad	108	khatija makandar
27	Jyoti Chavan	68	Sejal Khandekar	109	prajakta patil
28	Kshitija Kirpekar	69	Sharvari Patil	110	rashmi aphali
29	Lata Bhopale	70	Shital Sutar	111	sakshi patil
30	Lata Jadhav	71	Shital Taware	112	seema tiwari
31	Madhusudan Chavan	72	Shivaraj Parit	113	sonal karande
32	Manasi Patil	73	Shravani Kotare	114	swati dawar
33	Manaswi Band	74	Shreya Nerlikar	115	vijay baramatkar
34	Mayuri Kumbhar	75	Shrinivas Pawar		
35	Mitali Maharaj	76	Shruti Patil		
36	Mrunali Gurav	77	Shubha Maharaj		
37	Mukta Lad	78	Siddhi Gharal		
38	NIKET MUNGURWADE	79	Siddhi Suryawanshi		
39	Nupur Joshii	80	Sneha Kadolkar		
40	PURVA GADGIMATH	81	Sohan Jadhav		

2. Lead College Workshop on “Wildlife Conservation and Photography”

Department of Zoology, Rajaram College Kolhapur, organized workshop on “**Wildlife Conservation and Photography**”, on **12th January, 2022**, under Lead College Scheme, D. R. K. College of Commerce Cluster, Shivaji University, Kolhapur. This workshop was conducted on Online platform (Google meet), attended by total 104 participants, of which 72 participants are Students, Research Scholars and Teachers from various Colleges, Universities and Research institute, and from Colleges under D. R. K. College of Commerce Cluster. Feed Back Link was provided to the registered participants only. E- Certificate was issued to participant who attended the entire workshop and submit the feedback form.

PROGRAMME SCHEDULE

Session	Details	Time
For Registration use given link before 10 th of January https://forms.gle/zdPj5aWcmEWz4RNdA WhatsApp group link: https://chat.whatsapp.com/Be3wU9E1aaNDZzYB0T7g5U		
Morning Session	Inaugural Function: Introductory Speech: Dr. L. P. Bhopale Presidential Talk: Hon. Prin. Dr. S. B. Maharaj-Patil	10:30 am to 11:00 am
Morning Session	Chief Guest & Speaker 1: Dr. Santosh B. Walvekar Topic: Man-Wild Animal Conflict & its Management	11:00 am to 12:00 pm
Afternoon Session	Speaker 2: Dr. R. S. Shikalgar Topic: Role of Remote Sensing in Wildlife Conservation	12:00 pm to 1:00 pm
Lunch Break (1:00 pm to 2:00 pm)		
Afternoon Session	Resource person: Shri. Ashish Pilani Demonstration of Field Photography	2:00 pm to 3:00 pm
	Evaluation of Photographs (Participant activity)	3:00 pm to 4:00 pm
Evening Session	Valedictory function	4:00 pm to 4:30 pm
	Distribution of Certificates via Feedback Link	5:15 pm



Government of Maharashtra's
Department of Zoology

RAJARAM COLLEGE, KOLHAPUR

Under lead college activity
D.R.K. College of Commerce Cluster, Kolhapur
Shivaji University Kolhapur

Organizes

Workshop on

“Wildlife Conservation and Photography”

Resource Persons:

Dr. Santosh B. Walyekar (Vet. Officer, Kolhapur Forest Department)
Dr. R. S. Shikalgar (Associate Prof. Geography, Rajaram College Kolhapur)
Shri. Ashish Pijani (Wildlife Photographer)

President of the Function:

Hon. Prin. Dr. S.B. Maharaj-Patil

Venue: Botany Lecture Hall, Rajaram College, Kolhapur

Date: 12th Jan., 2022 Time: 9:00 a.m. to 5:15 p.m.

For Workshop participant activity:

Participant can submit soft copy of a photograph with details at the time of registration.

Dr. S. S. Taware — **Dr. J. A. Chavan**
Convener Organizing Secretary

Dr. L. P. Shengule
Co-ordinator

Dr. S. E. Maharaj-Patil
Principal,
Rajaram College, Kolhapur

Inaugural Session



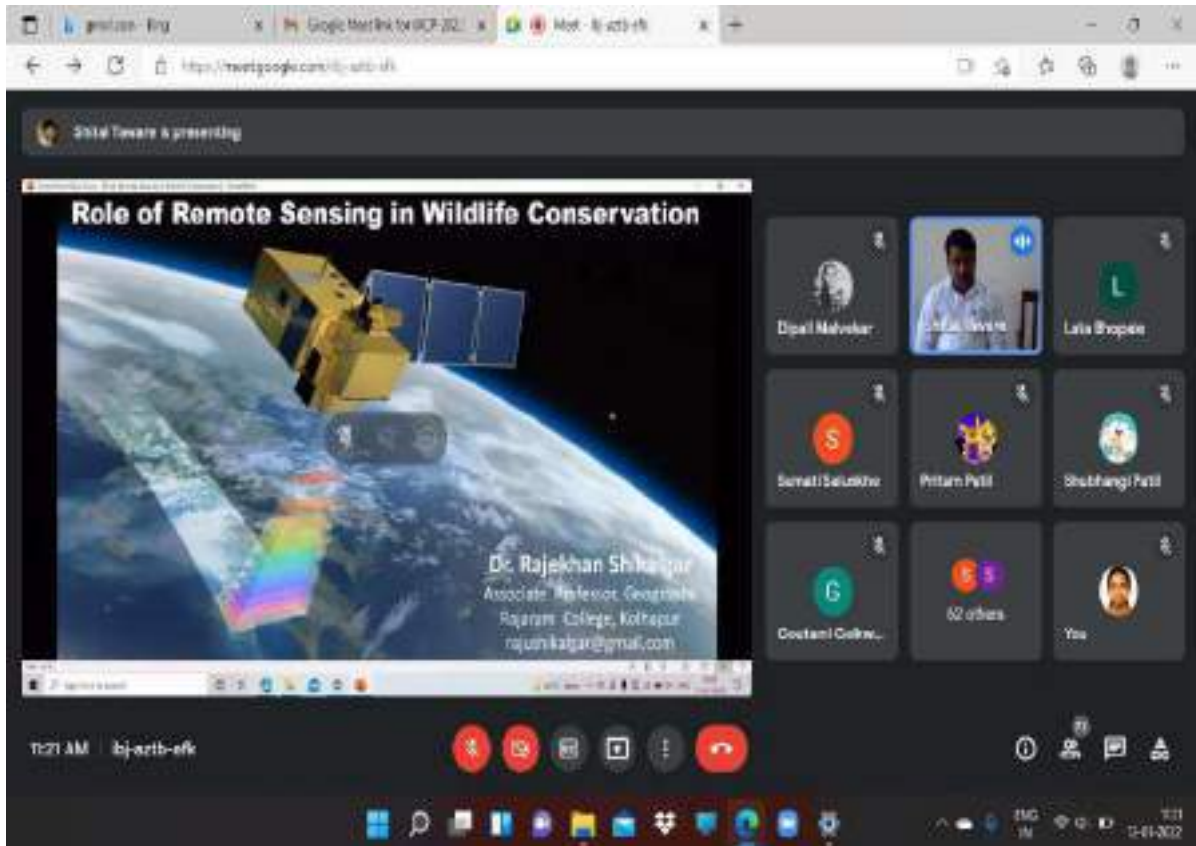
Felicitation of Dr. S.B. Walvekar (Resource Person)



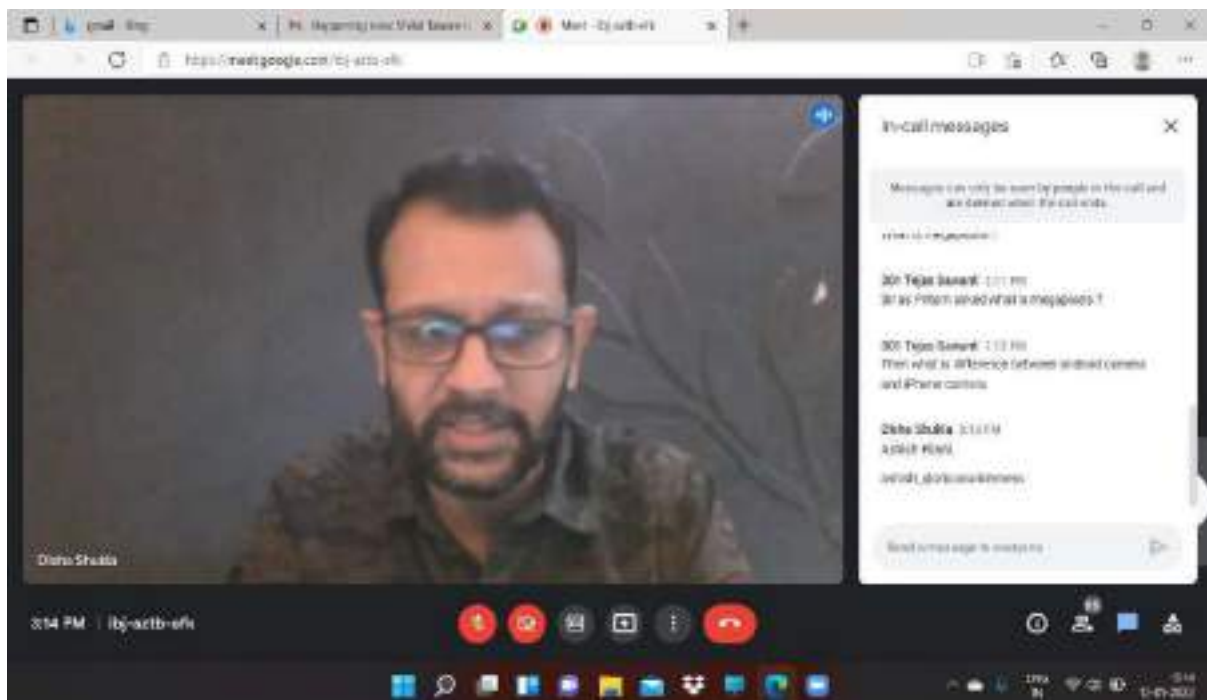
Felicitation of Dr. R.S. Shikalgar (Resource Person)



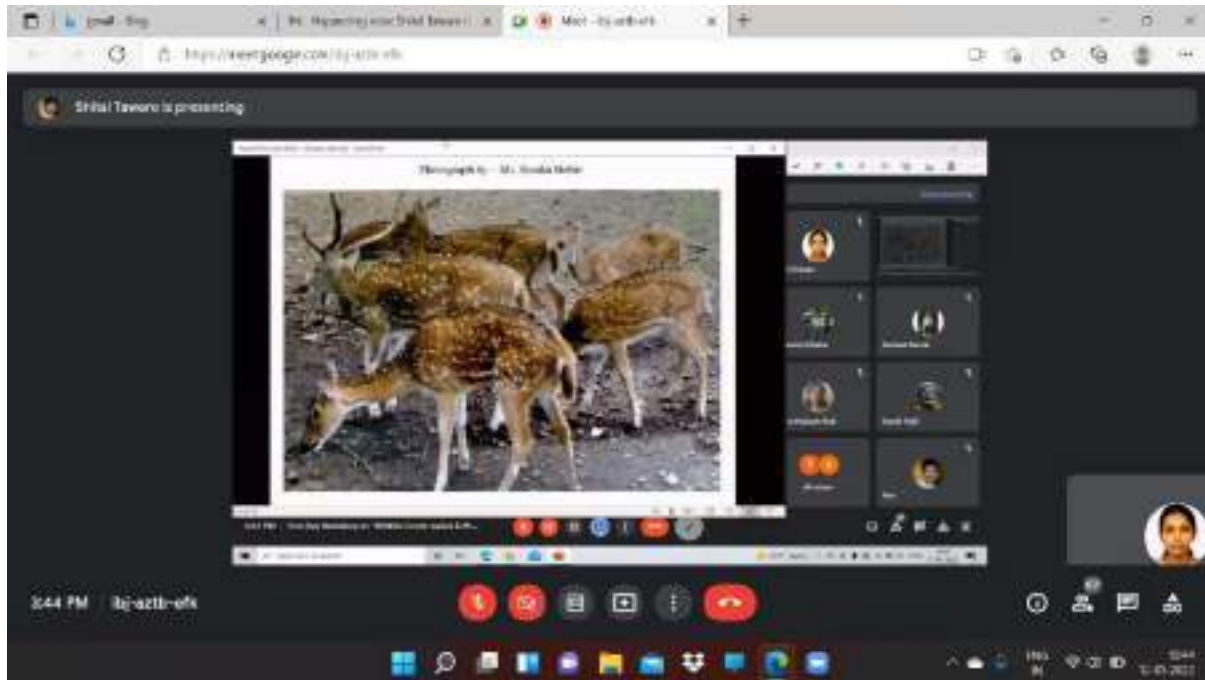
Session I by Dr. R.S. Shikalgar



Session III by Shri. Ashish Pilani



Student Activity: Photograph Evaluation session



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RAJARAM COLLEGE, KOLHAPUR
Lead College Scheme – Shivaji University, Kolhapur
D.R.K. College of Commerce Cluster Group

NAAC 'A' Grade

One day Workshop on "Wildlife Conservation and Photography"

CERTIFICATE

This is to certify that, **Dr./Mr./Ms. {{Full Name}}** of **{{Other Identifier}}** has actively Participated / Worked as Resource Person / Worked as Member of Organizing Committee in the One Day Workshop on **"Wildlife Conservation and Photography"** on 12th January, 2022, organised by Department of Zoology, Rajaram College, Kolhapur under Lead College Scheme.

Dr. L.P. Bhopale
Co-Ordinator
HOD, Zoology

Dr. S.S. Taware
Convenor & Co-ordinator
Lead College Committee

Dr. J.A. Chavan
Organizing Secretary

Dr. S.B. Maharaj-Patil
Principal, Rajaram College, Kolhapur

3. Bird watching activity at Rankala Tank, Kolhapur

Date: 06/03/2022

Department Of Zoology, organized bird watching activity at Rankala for all faculty members dated on 06/03/2022 at 6.30 am. In this activity variety of Garden birds and waders were observed and captured in camera.

List of Birds: Small Minivet, Pied Kingfisher, Small blue Kingfisher, White throated Kingfisher, magpie robin, Indian Robin, Brahmni Starling, Indian Maina, great teal, Purple sun bird, Purple rumper sunbird, green bee eater, black drongo, Indian Gray Hornbill, Brhamni Kite, Oriental White eye, Tailor bird, Fantail flycatcher, Black winged stilt, Purple moorhen, Common Coot, Spotbill duck, Indian Shag, Purple heron, Pond heron, Small egret, Intermediate egret, Waterhen, Cormorant, Painted stork, River turn, etc.







4. World Sparrow Day Celebration

20th March, 2022

Department Of Zoology, celebrated “**World Sparrow Day**” by installing earthen pots at different sites in Rajaram College campus, to facilitate water and grains for birds. This activity was led by B.Sc. III Zoology students under Eco-Prithvi Club of department.



5. Visit to “Natural Historical Museum”, New Palace, Kolhapur

Date: 29/04/2022

As a part of curriculum, Department of Zoology, organized Visit to “Natural Historical Museum”, New Palace, Kolhapur dated on 29/04/2022 at 7.30 am. During this visit, morning period was utilized for nature trail in and around Museum, exploring scenic beauty of dense canopy, lake and garden present in premises, along with variety of biota in their natural habitat. By 11: 00, am. All students were allowed to enter museum by authority. Students were fascinated with our historical items, especially with biodiversity richness and wealth preserved in the form of different artifact and stuffed carcasses. For this visit, total 101 students of B.Sc. I, 03 teachers and 01 peon, were present.





6. Excursion of B.Sc. III Zoology Students at “Dajipur Wildlife Sanctuary”, Radhanagari, Kolhapur

Date: 13/05/2022

As a part of curriculum, Department Of Zoology, organized Excursion to **“Dajipur Wildlife Sanctuary”, Radhanagari, Kolhapur** dated on 13/05/2022 from 6.00 am. to 7:00 pm. During this visit, We have started morning safari at 8:30 am. During 4 hr. safari, we have visited various spots, like, Savrai sada, Konkan Darshan Waghache Pani, etc. Fauna like Gaur, Barking Deer, Giant Squirrel, Grey Jungle fowl, Green vine snake, Amboli Bush frog in their natural habitat, were the highlights of visit. Safari was concluded with Museum visit at Dajipur Forest office Booking counter, which highlights biodiversity richness and wealth preserved in the Dajipur wildlife Sanctuary. During return journey, we have visited Broiler Poultry farm at Bargewadi. For this visit, total 18 students of B.Sc. III along with 03 teachers were present.







7. Seminar Presentation by B.Sc. III Students



8. Projects Completed By B. Sc. III students (2021-22)

Sr. No.	Title of the Project
1	Dairy Production and Economics in Karveer Tehsil, Kolhapur
2	Spider diversity in Rajaram College Campus, Kolhapur, MS, India.
3	Diversity of Coleoptera and Hemiptera from Gudal (Tal - Radhanagari) and Kaneriwadi (Tal - Karveer), Kolhapur
4	Diversity of Reptiles from Rajaram College, Kolhapur
5	Study of Goat farming in Siddhagiri Math, District Kolhapur
6	Diversity of Butterflies from Radhanagari, Maharashtra, India

Rajaram College, Kolhapur
National Service Scheme Report
(2021-2022)

The purpose of the National Service Scheme is education through public service and public service through education. If you live, you should feel like living in such a world, while living for someone else, you should shed a little blood. Rashtriya Seva Yojana is a constructive system to make students live a social life along with academic life and motivate them to serve the country.

A total of 100 volunteers were admitted in the academic year 2021-22. Volunteers who came to the National Service Scheme with the motto 'NOT ME BUT YOU' are working with the awareness of the reality of 'Swachh Bharat Sunder Bharat'. From the platform of National Service Scheme, famous and good people have been born in the fields of literature, acting, music and art. Volunteers are always reminded of this. In the academic year 2021-22, the following activities were implemented and volunteers participated in various activities.

National Service Scheme Day 24.09.2021



Chief Guest: Shri. Munde Sir (NSS Dept. Shivaji University, Kolhapur)

1. **Volunteers participating in a rally organized under the initiative “Azadi Ka Amrit Mahotsav” at Shivaji University, Kolhapur on 29.9.21.**



2. **Volunteers participating in “Mahatma Gandhi Jayanti” cleaning at Tapovan Maidan, Kolhapur on 2.10.21.**



3. On 10.10.21 at Bhawanimandap volunteers involved in assisting policemen in security at Mahalakshmi Temple on the occasion of Navratri.



4. Date: 20.10.21 Volunteers and staff involved in the cleanliness campaign conducted in the college.



5. Date: 30.10.21 Vaccination campaign was conducted in the college with participation of Hon. Principal, Hon. Joint-Director, Faculty and NSS Volunteers.



6. Date: 2.1.22 Volunteers involved in plastic eradication campaign conducted in college.



7. Date: On 23.2.22 at Shivaji University, Kolhapur volunteers participating in cleaning the university premises under the initiative “Sant Gadgebaba Swachhta Abhiyan”.



8. Date: 13.3.22 Mahamarathon competition was organized by Lokmat News Paper. Participating volunteers to see the arrangements.



**9. Date: 22.4.22 Panchganga Swachhta Abhiyan conducted by Sakal Group
Volunteers participating in the Abhiyan.**



10. On the occasion of Chhatrapati Shahu Maharaj Gratitude Festival- Lecture by Dr. Prakash Pawar



11. Date: 7. 6. 22 to 13.6.2022 “Mazi Vasundhara” campaign was conducted in the college Volunteers participating in the campaign.





“Majhi Vasundhara” Abhiyan Swayamsevak while cleaning



NSS VOLUNTEERS II YEARS (2021-22)

Sr.No.	Name of The Volunteers
1	ADINATH MADHUKAR KAMBLE
2	ADITI SHIVAJI GAVALI
3	AKANKSHA SUNIL WAGH
4	ASHISH RAGHUNATH PARALE
5	ASHWINI SOMANATH PUJARI
6	BHARATJEEVAN CHARUDATTA PRABHUKHOT
7	BHUSHAN BAPU MAGADUM
8	GOURI SANDEEP WADKAR
9	GOURI PRATAP NAIK
10	GURUNATH DILIP SHELAR
11	HARSHADA ANIL PANCHAL
12	HARSHADA NARAYAN BANDHEKAR
13	HUDA SHAKIL FARAS
14	JANHAVI JANARDAN PATIL
15	MADHURA RAJENDRA DESAI
16	MAYURI SANJAY KUMBHAR
17	NANDINI RAMCHANDRA GURAV
18	NIHAL DILAWAR MAHAT
19	OMKAR ABASAHEB KAMBLE
20	OMKAR RANGRAO PATIL
21	PANDURANG RAVINDRA KHOT
22	PARTH SANDEEP DESAI
23	PRADUMNA RAJENDRA BHOSALE
24	PRATIKSHA PRAKASH MALI
25	RADHIKA RAJENDRA BURANDE
26	RADHIKA VIJAY KIKALE
27	RAVIRAJ BIRU RANAGE
28	ROHAN JAYAVANT BHAVAD
29	ROHIT TANAJI PATIL
30	RUSHIKESH VILAS DEVKAR
31	RUTUJA ANANDA KHUTALE
32	RUTUJA VIVEK PATIL
33	SAMADHAN VILAS KAMBALE
34	SAKSHI POPAT CHOUGULE
35	SHIDDHI SUBHASH TAVADE
36	SHIVANI JAYSING BOGAR
37	SHRADDHA PRAKASH PATIL
38	SHREYA MAHESH NERLIKAR
39	SHRIRANG SHIVA BHOJE
40	SHUBHAM DATTATRAY KAMBLE

41	SHUBHAM NIVRUTTI PATIL
42	SWPNIL SUNIL GHULE
43	SWETA SHIVAJI TADE
44	SNEHAL BABASAHEB DIPANKAR
45	TEJAS UMAJI PATIL
46	TEJASHRI SACHIN PATIL
47	TRUPTI BALKRUSHNA GURAV
48	VAIBHAV BHIMRAO BARALE
49	VAIBHAV MAHAVIR GOVARDHANKAR
50	VAISHNAVI ANANDA BARAD
51	VARSHA ASHOK SALUNKHE
52	YASHODA TANAJI CHOUGULE

NSS VOLUNTEERS I YEARS (2021-22)

1	ANURUDDHA VILAS MORE
2	AMISHA TUKARAM PATIL
3	PRUTHVIRAJ JAYWANT PATADE
4	JEEVAN KUMAR KAMBLE
5	GAYATRI SUDHIR SAWANT
6	ISHA CHANDRAKANT BHOSALE
7	SANDHYA PRAKASH KHOT
8	RUTUJA VIKAS CHAVAN
9	PALLAVI CHANDRAKANT WAKAREKAR
10	JYOTI EKANATH GURAV
11	LAXMI SHANKARAPPA MELKERI
12	AMRUTA ANIL PATIL
13	UJWALA MARUTI CHOUGULE
14	ABHISHEK LAXMAN PHUTANE
15	PRASHANT NILKANTH PUSHKARAJ
16	NIMISH SANJEEV KULKARNI
17	SNEHAL SUNIL GHULE
18	GRANTH DEEPAK BHOSALE
19	ROHIT ANANDA PATIL
20	VISHWAJIT DAYANAND BHAT
21	SHAMAL JAYASINGRAO SURYVANSHI
22	SAKSHI SANJAY MANE
23	HARSHVARDHAN ASHOK KAWADE
24	NEHA DIPAK BAGUL
25	ANIKET ANANDA PATIL
26	SHWETA DEEPAK POWAR
27	SHAMAL BALKRISHNA SHINDE
28	NEHA SANJAY PACHRUT

29	SAYALI DATTATRAY VARANDEKAR
30	HARSHALI VISHAL ABDAGIRE
31	AISHWARYA SANJAY GAIKWAD
32	DHANASHRI BAJIRAO JADHAV
33	SAMINA FIROZ MULANI
34	SNEHAL RAMCHANDRA SALUNKHE
35	RADHIKA RAMCHANDRA MALVEKAR
36	SANIYA SIRAJ MUJAWAR
37	PRAJAKTA BABURAV KHOT
38	SAKSHI SUNIL PACHHAPURE
39	SAKSHI SHASHIKANT GURAV
40	SWATI LAXMAN GOTHANKAR
41	PRAJAKTA JALANDAR PATIL
42	PRASHANT JARICHANDRA GAIKWAD
43	ABHISHEK SURESH AWALE
44	SHUBHAM DILIP KAMBLE
45	SAURABH SANTAJI VASUDEV
46	AMUY SURESH MITHARI
47	PRATHAMESH RAJENDRA KAKADE
48	POOJA DIGAMBAR WAGATKAR

RAJARAM COLLEGE, KOLHAPUR
DEPARTMENT OF BOTANY AND ENVIRONMENT STUDIES
EXPERIENTIAL AND PARTICIPATIVE LEARNING
DEPARTMENT REPORT 2021-22

Sr. No.	Date & day	Name / Nature of Activity	Objectives	Level	Name and Designation of Chief guest/ resource person	No. of Beneficiaries / students/ Participants
1	29/4/ 2022	Workshop in collaboration with Geology Department and NGO The Conservation Foundation of India	MY ENVIRONMENT- MY RESPONSIBILITY Environment awareness programme in Zilla Parishad School, Suryawanshiwad, Sangli	School	Separate report attached	1) B.Sc. III Students-17 2) 1-4 th Std 59 students 3) Staff and Research students-10
2	29/3/2022	Hands on training program in collaboration with Geology Department	MEDICINAL HERBS AND MINERALS IN DRUG AND COSMETIC PRODUCTION* Hon. Shri. Annasheeb Dange Ayurved Medical College, Ashra, Sangli.	B.Sc. III	Separate report attached	B.Sc. III Students -17
3	2021-22	Student Research Project	SEED BALLS: NOVEL PROPAGATION METHOD FOR CONSERVATION OF PLANT SPECIES	B.Sc. I	Separate report attached	B.Sc. I -166
4	2021-22	Certificate course in Skill Development in collaboration with Geology and Zoology Department	LABORATORY AND FIELD SKILLS IN LIFE AND EARTH SCIENCES	B. Sc. I	Separate report attached	B.Sc. I-50

5	21-23/3/2022	Lead Botanical Garden, Shivaji University, Kolhapur visit	STUDY OF PLANT BIODIVERSITY	B.Sc.I	Separate report attached	B.Sc. I -166
6	2021-22	Shivaji University, Kolhapur, Research sensitization scheme for college students in collaboration with Department of Geology and Microbiology	STUDY OF DIVERSITY OF CRYPTOGAMS INCLUDING CHAEMOORGANOTROPHS IN RELATION TO GEOLOGICAL AND CLIMATIC FACTORS FROM PANHALA, SHAHUWADI, CHANDGAD AND GADHINGLAJ TEHSILS OF KOLHAPUR DISTRICT (M.S.)	B.Sc.III	Separate report attached	B.Sc. III -04
7	20/01/2022	Lead College, Scheme: One day workshop	BOTANY AND INDUSTRY	UG and PG	Separate report attached	98 participants UG/PG/ Research Scholars and Teachers
8	22-26/3/2022	Hands-on training program in collaboration with Department of Geology and Serum Biotech, Talasde	APPLICATIONS OF BIOTECHNOLOGY, SOIL AND WATER ANALYSIS	B.Sc. III	Separate report attached	B.Sc. III-17
9	24/12/2021	Visit to Garden Exhibition	GARDEN AND FLOWER EXHIBITION	B.Sc. I, II, III	Separate report attached	Total students-120

		organized by Gardens Club of Kolhapur and Agriculture College, Kolhapur				
10	2021-22	Project work	Recycle and Reuse	B.A. II B.Com. II B.Sc. II	Separate report attached	B.A. II-193 B.Com.II137 B.Sc. II-267

Patil
Dr. Anjali R. Patil
Head,
Department of Botany

RAJARAM COLLEGE, KOLHAPUR
BOTANY DEPARTMENT, ENVIRONMENT STUDIES AND GEOLOGY
DEPARTMENT

WORKSHOP REPORT 29TH APRIL 2022

MY ENVIRONMENT- MY RESPONSIBILITY

Botany department, Environment studies, Geology and The Conservation Foundation of India was organized a environment awareness programme for 1st to 4th std students in Zilba Parishad School, Suryawanshivadi, Sangali, on 29th April 2022 under the theme of My environment- My Responsibility. The theme was adopted to inculcate environment values amongst students as well as develop skills in the students, which will in the long run help in environment conservation as well as entrepreneurship development. Total fifty nine students are participated in this workshop. Four programmes were organized during the Workshop:

I. Lecture on My Nature: My Responsibility

Mr. Aashish Ghewade, President, The Conservation Foundation of India



List of Participants:

Sr. no	Class	Name of the Students
1	Play group	Miss. Swara Arun Suryavanshi
2	Play group	Miss. Durwa Pradip Suryavanshi
3	Play group	Mr. Harshvardhan Taranji Suryavanshi
4	Play group	Mr. Shrivardhan Arun Mane
5	Play group	Mr. Shivraj Rajaram Mane
6	1 st	Miss Janhavi Umesh Sorate
7	1 st	Miss Swara Swapnnil Mandale
8	1 st	Miss. Iqara Irshad Kalekar
9	1 st	Mr. Shourya Jotiram Suryavanshi
10	1 st	Mr. Siddharth Amol Suryavanshi
11	1 st	Mr. Shreyash Nitin Suryavanshi
12	1 st	Mr. Shrawan Vikram Suryavanshi
13	1 st	Mr. Devraj Pradip Mane
14	1 st	Miss. Siddhi Ramesh Suryavashi
15	1 st	Miss Vidya Vikas Suryavanshi
16	1 st	Miss. Yashashri Vikas Suryavanshi
17	1 st	Miss. Riddhi Vishal Suryavanshi
18	1 st	Miss Vaishanvi Kiran Suryavanshi
19	2 nd	Mr. Kushagra Harshad Vagaj
20	2 nd	Miss. Shravani Kiran Suryavanshi
21	2 nd	Miss. Shreya Vijay Suryavanshi
22	2 nd	Miss. Sanchita Sambhaji Suryavanshi
23	2 nd	Miss. Vedika Chandrakant Suryavanshi
24	2 nd	Miss. Taiseen Javid Kalekar
25	2 nd	Miss. Aaliya Firoj Kalekar
26	2 nd	Miss. Sai Vishal Patil
27	2 nd	Mr. Anuj Pramod Suryavanshi
28	2 nd	Mr. Mukund Dipak Suryavanshi

29	2 nd	Mr. Rajvardhan Suresh Suryavanshi
30	2 nd	Mr. Aviraj Nandkumar Patil
31	2 nd	Mr. Rajveer Ashok Pisal
32	3 rd	Mr. Pradnesh Rahul Suryavanshi
33	3 rd	Mr. Swaraj Rajaram mane
34	3 rd	Mr. Sambhav Ravindra Suryavanshi
35	3 rd	Mr. Rajdeep Ajit Suryavanshi
36	3 rd	Mr. Aayush Sunil Suryavanshi
37	3 rd	Miss. Siddhi Amit Suryavanshi
38	3 rd	Miss. Piyusha Surjerao Suryavanshi
39	3 rd	Miss. Shweta Ashok Suryavanshi
40	3 rd	Miss. Siddhi Mahesh Suryavanshi
41	3 rd	Miss. Arpita Vaibhav Suryavanshi
42	4 th	Miss. Sharyu Ravindra Suryavanshi
43	4 th	Miss. Anjali Suresh Suryavanshi
44	4 th	Miss. Arpita Sambhaji Suryavanshi
45	4 th	Miss. Madhuri Suresh Suryavanshi
46	4 th	Miss. Aaditi Netaji Mnoe
47	4 th	Miss. Sai Tanaji Suryavanshi
48	4 th	Mr. Sai Sunil Suryavanshi
49	4 th	Mr. Sujal Jaywant Suryavanshi
50	4 th	Mr. Viraj Pramod Suryavanshi
51	4 th	Mr. Aryan Mahesh Suryavanshi
52	4 th	Mr. Prajwal Mohan Suryavanshi
53	6 th	Miss. Sanvi Kapil Vagaj
54	6 th	Mr. Nilesh Sunil Suryavanshi
55	7 th	Mr. Jayash Tanaji Suryavanshi
56	7 th	Mr. Rudra Sunil Suryavanshi
57	7 th	Mr. Sulraj Santosh Suryavanshi
58	8 th	Mr. Mahesh Sunil Suryavanshi
59	9 th	Miss. Aaditi Dipak Suryavanshi

**2. Exhibition, Organizer- Dr. Sanjay Vijaykumar Pathare
Head, Geology Department, Rajaram College, Kolhapur**

In the workshops an exhibition of medicinal products, wild edible vegetables, natural colour yielding plants, rocks and minerals was organised. Fresh plant specimens were displayed. All the medicinal plant products and natural colour samples were also kept for display. Charts with the relevant information were kept near the specimens. Colourful Flex charts with information of all the plants were exhibited on the walls. Volunteer students trained to give information regarding any specimens exhibited were enthusiastically giving verbal information to the visitors. The exhibition was visited by a very large number of students and teachers.

List of medicinal products:

Sr.no	Name of the Products
1	Ginger flex
2	Adulasa-Kadha
3	Awala candy
4	Tea masala
5	Makka oil
6	Uttar

List of wild edible vegetables:

Sr no	Botanical Name	Vernacular Name
1	<i>Colocasia esculenta</i>	Alu
2	<i>Musa paradisiacal</i>	Kelphul
3	<i>Tamarindus indica</i>	Chinchpan
4	<i>Portulaca oleracea</i>	Ghol
5	<i>Amaranthus</i>	Tandali
6	<i>Ficus racemosa</i>	Umbur
7	<i>Cassia tora</i>	Takala
8	<i>Bidens biternata</i>	Morshend

List of Natural dye yielding plants:

Sr. no	Botanical Name	Vernacular Name	Colour
1	<i>Hibiscus rosa-sinensis</i>	Jaswand	Brown
2	<i>Beta vulgaris</i>	Beet	Red

3	<i>Cassia fistula</i>	Babawa	Yellow
4	<i>Spinacia oleracea</i>	Palak	Green
5	<i>Tagetes species</i>	Zendu	Orange
6	<i>Bougainvillea spectabilis</i>	Bogarvel	Pink
7	<i>Jacaranda mimosifolia</i>	Nimchar	Purple

EXHIBITION



**3. Scientific Games, Organizer- Dr.Anjali Rajendra Patil
Head, Botany Department, Rajaram College, Kolhapur**

Sr. no	Class	Name of the Competition	Name of the Winners
1	Play group and 1 st Std	Drawing Competition Theme- Nature	1. Miss.Sarvi Navnath Jadhav 2. Miss.Yashashri Vikas Suryavanshi 3.Mr. Devraj Pradip Mane Consolation- Miss.Durva Suryavanshi Miss.Vaishnavi Suryavanshi
2	2 nd Std	Biodiversity Collection	1. Mr.Kushagra Vagaj Mr.Mukund Suryavanshi 2. Miss.Taiseen Kalekar Miss.Sancheets Suryavanshi 3. Miss.Sai Patil Miss.Shreya Syryavanshi
3	3 rd and 4 th Std	1 st Round- Picture Presentation 2 nd Round- Songs 3 rd Round- Identification of Smell 4 th Round- Video Presentation 5 th Round- Identification of objects 6 th Round- Rapid fire questions	1.Mr. Sujal Suryavanshi Mr.Viraj Suryavanshi 2.Miss.Aaditi Mane Miss.Arпита Suryavanshi 3.Mr.Prajwal Suryavanshi Mr. Aryan Suryavanshi

SCIENTIFIC GAMES



4. Prize distribution Ceremony, Asst. Prof. Reshma Shahabuddin Nagarkatti
Environment Studies, Rajaram College, Kolhapur

PRIZE DISTRIBUTION CEREMONY



List of Volunteers:

Sr. no	Name of The Students
1	Miss. Mayuri Sanjay Kumbhar
2	Mr. Prathamesh Bhivaji Bhandigare
3	Mr. Pratik Sanjay Bandgar
4	Mr. Rushikesh Rangrao Kamble
5	Mr. Vinayak Mahadev Patil
6	Mr. Sourabh Sudhakar Jadhav
7	Miss. Divya Sunil Dalvi
8	Miss. Shreya Ananda Warke
9	Miss. Kavita Ramdas Vaghmare
10	Miss. Harshali Vishal Abdagire
11	Miss. Mansi Mahesh Parale
12	Miss. Ankansha Rajendra Patil
13	Miss. Hada Shakti Faras
14	Miss. Shreya Mahesh Nerlikar
15	Mr. Aditya Ashok Yadav
16	Miss. Aishwarya Nagesh Potdar
17	Mr. Pratik Dinkar Nagare
18	Miss. Kalyani Nandkumar Satpute
19	Mr. Sumedh Jayant Chandanshive
20	Mr. Pratik Vasant Ekale
21	Miss. Sakshi Sidheshwar Patil
22	Miss. Sarvesh Subhash Desai
23	Mr. Prathamesh Mahesh Karvekar
24	Mr. Aman Vinod Waghela
25	Mr. Nihal Dilawar Mahat
26	Miss. Snehal Sudhir Biranje
27	Mr. Yogesh Sadashiv Patil
28	Mr. Sushant Ishwar Bornaik


29	Miss Shivranjani Parshram Sutar
30	Mr. Niket Thangaram Murgurwade

List of Staff Members:

Sr. no	Name of the staff
1	Dr. Anjali Rajendra Patil
2	Dr. Sanjay Vijaykumar Pathare
3	Miss. Reshma Shahabuddin Nagarkatti

Coordinators;

Shri. Ashish A. Ghewade
President
C.F.O.I, Kolhapur


Dr. Anjali R. Patil
Head
Department of Botany

Dr. Sanjay V. Pathare
Head
Department of Geology

Department of Botany and Geology

Rajaram College, Kolhapur

Hands on training program entitled

"MEDICINAL HERBS AND MINERALS IN DRUG AND COSMETIC PRODUCTION"

On

29th March 2022

Hon. Shri. Annasaheb Dange Ayurved Medical College, Ashta, Sangli

PG and Ph.D. recognized center affiliated with AYUSH, Govt. of India, NCISM, New Delhi

and Maharashtra University of Health Sciences (MUHS), Nashik



**VISIT TO
DR. ANNASAHEB DANGE COLLEGE OF AYURVEDA, ASHTA SANGLI
29th MARCH 2022**



Visit to Dr. Annasaheb Dange College of Ayurveda , Ashta Sangli was arranged for the students of Rajaram College Kolhapur representing the faculty of Botany and Geology.

This visit was organised on 29th March 2022 . Students of Botany and Geology reported at the conference hall around 11am Prof. Dr. Mahesh Inamdar(HOD) gave the introduction to Ayurveda and Ayurvedic Formulation and superficial knowledge about Triphala Churna , Kwath Kapala , Aduisa Kadha, Herbal Shampoo as follows,



AYURVEDA : Ancient art of Healing. The word meaning of ayurveda is, AYUSH (Life) +VED (Knowledge)

Rather than a system of medicine it is a way of life Ayurveda believes in a close relationship between a man and universe and a flow of cosmic energy in different forms between all living and nonliving things.

AYURVEDA GOALS :

1. To promote and maintain the health of healthy people.
2. To cure and remove illness / disease of people.
3. To restore balance between mind, body and spirit.
4. To improve quality of life.
5. To prolong longevity.
6. To eliminating impurities



MAJOR DISCIPLINES OF AYURVEDA :

Ayurveda Siddhanta (Fundamental Principle of Ayurveda)	Ayurveda Samhita (Dealing with Ayurvedic classic)
Sharira Rachana (Anatomy)	Sharira Kriya (Physiology)
DravyaGuna Vigyan (Materia medica and pharmacology)	Rasa Shashtra (Metals and minerals processing)
Bhaishijya Kalpana (Pharmaceuticals)	Kaumarabhritya (Pediatrics)
Prasuti Tantra (Obstetric and Gynecology)	Swasthavritta (Social and Preventive medicine)
Kayachikitsa (Internal medicines)	Roga Nidana (Etiopathology)
Shalya Tantra (Surgery)	Shalakya Tantra (Eye and ENT)
Manasa Roga (Psychiatry)	Agada Tantra (Toxicology and Forensic medicines)

AYURVEDIC FORMULATION

<u>Kashth aushadhi</u> (Herbal Medicines)	<u>Rasa Aushadhi</u> (Contains Metal and Minerals)
<ol style="list-style-type: none">1. Single Substance/Drug e.g. Amalaki, Ashwagandha2. Multi-ingredient e.g. Triphala churna, Sitopaladi churna	<ol style="list-style-type: none">1. Single Substance/Drug e.g. Godanti tankan, swarna2. Multi-ingredient e.g. Tribhuvan kirti rasa

Later they showed us and explained the different standardization methods of preparation of Churna, Kadha, Herbal Shampoo, Hair Oil and Minerals & Stones present in the museum. And different Departments and Museums

1. STANDARDIZATION OF CHURNA :-

- Organoleptic evaluation :
 1. Colour
 2. Odour
 3. Taste
- Microscopic evaluation
- Physical evaluation
 1. Loss on drying at 105°C
 2. Total ash
 3. Acid insoluble ash
 4. Water soluble extractive
 5. pH
- Phytochemical evaluation
 1. Qualitative analysis
 2. TLC
 3. HPTLC & HPLC
- Particle size
 1. Churna : 80-120 mesh
 2. Kwatha Churna : 40-60 mesh
- Microbial Contamination
 1. Total aerobic count
 2. Enterobacteria count
 3. Total fungal count
- Test for specific pathogen
 1. E.coli
 2. Salmonella spp
 3. Pseudomonas spp

2. TRIPHALA CHURNA :-

In Ayurveda, Triphala is a combination of three fruits named Harad, Baheda and Amla. All these herbs are taken in a defined ration to produce Triphala powder. It is good for Vata dosha (Haritaki), Kapha dosha (Bibhitaki) and Pitta dosha (Amalaki).



Triphala - 3 fruits

1. Haritaki (Terminalia chebula)
2. Bibhitaki (Terminalia bellerica)
3. Amalaki (Emblic officinalis)

reference/procedure to prepare TRIPHALA CHURNA -

- A. All powders in equal proportions
- B. Haritaki - 1 part
- Bibhitaki - 2 part
- Amalaki - 4 part

Benefits of Triphala :-

1. Triphala with Sugar - Acid peptic disease
2. Triphala with Hot water - Laxative
3. Triphala with Honey - Kapha disease
4. Triphala with Ghee - Pitta disease
5. Triphala with Rocksalt - Vata disease
6. Triphala as powder - Sensitive gums
7. Triphala with Balc ash - Asthma
8. Triphala with Decoction - Liver disease
9. Triphala with Oil - Non Healing Ulcer
10. Triphala as facepack - Complexion promoter
11. Triphala with Ghee+Honey - Eyesight promoter



3. Kwath Kalpana Decoction :-

Kwath Kalpana is the most significant and widely used dosage form in Ayurvedic pharmaceuticals. This dosage form is acquired by boiling of herbal drugs with water in a specific proportion and is reduced to desired quantity provided the heat is moderate.

Pharmaceutical factors needed to be controlled such as : vessel, temperature, proportion of water, particle size of crude drug, duration of heating and quantity of Prakshep Dravya.

Kwatha Manimala describes about 394 kwath preparation used in various disease condition.

Kwath Decoction :

It is the aqueous extract of a drug , prepared after boiling the drug with water



Methods of preparation :

1. Crush herbs coarsely (yavakut), add water 4/8/1 times to coarse powder quantity, boil till the reduction of liquid to one fourth/one eighth and then filter.
2. 4/5 water reduces to 1/4th liquid for soft herbs (leaf, stem, flower).
3. 16 times water reduces to 1/8th liquid for hard herbs (ht.wood , bark etc.)
4. 8 times water reduces to 3/4th liquid quantity for hard+soft herbs.

Examples :

Punarnavashatak Kwath - indicated in sotha, sula, swasa roga etc

Maharasnadi Kwath - indicated in vata vyadhi

Dosage of Kwath - 4 tola

To increase its potency some dravya like honey, sugar, jiraka can also be added.

Quantity :

Churna - 1 shana (3g approx)

Madhu - 1/16th , 1/8th, 1/4th part of vata, pitta and kapha rog

Sugar - 1/4th, 1/8th, 1/16th part of vata, pitta and kapha rog

Drava - 1 karsha (1 tola)

6. Decoction of Adulsa :-

Adulsa Kadha is a traditional Indian drink, often consumed as a chai or tea and is considered to be effective against cough and cold and seasonal flu. Made with Indian herbs and spices, Kadha is a natural immunity booster and is said to be the best remedy against fever and sore throat. It also cures cough and is loaded with antioxidants.

Preparation Method -

1. Fresh leaves of Adulsa (Adathoda Vasaca) 100gm.
2. Water 1600 ml.
3. Mild heating on the gas stove till 1/8th part of water remains i.e. 200ml.
4. Filter mixture with cloth.
5. Adulsa decoction is ready to use.



Adulsa leaves contains -



- The chemical compound includes essential oils, fats, resins, sugar, gum, amino acid, proteins and vitamin C.
- The Phytochemicals analysis shows Phenols, Tannins, Alkaloids, Anthraquinone, Saponins, Flavonoids, and Reducing sugars.
- The leaves contain two major alkaloids called vasicine and vasicinone.

Parts Used - Leaves, Flowers and Bark.

Therapeutic Uses - Respiratory tract diseases like Bronchitis, Asthma, Dental ailments. It relieves cough and breathlessness. Its local use gives relief in Pyorrhea and in bleeding gums. Useful in bleeding disorder.

5. SNEHA KALPANA (MEDICATED OIL/GHEE) :

Sneha kalpana is one of the secondary dosages derived from panchavidh kashaya kalpana . Sneha kalpana is said to be an advanced formulation including kwath and kalka.

Snehapak is the process of preparing medicinal oil and ghrita using plants, herbs, mineral and animal fats.

Sneha siddh (fat soluble) drugs have better pharmacokinetic action in comparison to other dosage forms because of the lipid nature of the biomembrane , as lipid soluble substances readily permeate into the cell.

Methods of preparation :

There are three essential components in the manufacture of Sneha kalpana,

1. Kalka dravya (fine paste of the specified drug)
2. Sneha dravya (fatty media - Ghrita/Oil)
3. Drava dravya (water, milk, kwath etc)

General method of preparation on Sneha:

- Proportion of above mentioned dravya for Sneha kapaala,
- Kalka dravya (Powder) - 1 part
- Sneha (Grita/Oil) - 4 part
- Drava (Liquid) - 16 part
- Mix together and heat by mandagni till attainment of Snehasiddh lakshana
- Filter and store
- Application of low heat is important.



6. BHRINGRAJ TAILA :-

Ayurveda, there's a special significance of oils derived from herbs, also known as herbal oils. Centuries-old Ayurvedic text describes many useful herbs for hair. Among all of them, there stands out a clear winner - Bhringraj, the king of herbs!

Also known as False Daisy, Bhringraj is a miraculous herb hailing from the sunflower family. The leaves of Bhringraj tree are used to prepare Bhringraj oil, the most beneficial oil for hair growth. Bhringraj (also known as Mahabhingraj hair oil) oil is an oil derived from the leaves of the Bhringraj plant that is cultivated in the humid tropical regions across the world. The oil has special significance in Ayurveda and medical science. Enriched with the goodness of nature, Bhringraj oil is rich in nutrients such as Iron, Vitamin E, magnesium, polypeptides, steroids, calcium, vitamin D. The oil is also rich in proteins that make it even more beneficial for hair.

Preparation of Bhringraj Hair Oil :-

1. Bhringraj hair oil is derived from the leaves of the Bhringraj plant.
2. Spread Bhringraj leaves outside in the sun to dry for two to three days.
3. After that, immerse these dried leaves in a jar of coconut oil or sesame oil.
4. Leave the pot in the sun for another two to three days until the color of the oil changes to light green. Though Bhringraj oil can be prepared at home, Bhringandi leaves can be hard to find, and the process of making the oil can be time-consuming. Hence, it's recommended to buy Bhringraj oil from certified Ayurvedic brands.

The addition of certain other hair-friendly herbs makes Bhringraj oil even more effective for hair. Kama Ayurveda combines Bhringraj with other hair-friendly herbs like Amla, Indigo, Sesame, and Balloon Vines to create a unique hair oil known as Bringadi. Together, these herbs make the oil an intensive hair treatment that prevents hair loss, scalp irritations, dandruff and premature graying.



7. HERBAL SHAMPOO :-

Basic Ayurvedic concept of washing hair is utilisation of the decoction of medicinal plants like Shikakai, Reetha, Jaswanti, Triphala, Kantakari, Kumari etc. But now shampoo is very popular in cosmetic companies.

Green Method for Synthesis of HS Part - 1:- Preparation of Herbal Extract:

Herbal Shampoo

Objective: To prepare herbal shampoo using natural herbs.

Materials: Shikakai, Reetha, Aloe Vera, Glycerin, CAPB, Methyl Paraben, Sodium Benzoate, EGMS, Water.

S. No.	Ingredients	Quantity	Preparation
1.	Shikakai	10g	Wash with water
2.	Reetha	10g	Wash with water
3.	Aloe Vera	10g	Wash with water
4.	Glycerin	10g	Wash with water
5.	CAPB	10g	Wash with water
6.	Methyl Paraben	10g	Wash with water
7.	Sodium Benzoate	10g	Wash with water
8.	EGMS	10g	Wash with water
9.	Water	100g	Wash with water

Procedure:

1. Wash the herbs with water.
2. Grind the herbs into a fine powder.
3. Mix the powder with water to form a paste.
4. Add the other ingredients to the paste.
5. Stir the mixture thoroughly.
6. Transfer the mixture to a bottle.

Result: Herbal Shampoo is prepared.



Part - 2:- Preparation of Shampoo:

In the beaker add SLES (30%), glycerin (18%) and CAPB (6%) followed by stirring gradually. Add Herb extract with lemon juice in it and stir gradually to avoid foaming. Preservative methyl paraben(0.5%) and sodium benzoate (1.5%), for pearlescing pack with EGMS (4%) to it. Pour Aloe vera(12%) in it, with small concentration of cocamono (2%) in it, add water in it in small proportions.



Around 1.00 pm we had Lunch Break and later we went to see different departments of college , instruments and museum with respective staff.

Different instruments used in the lab :



MUSEUM WE VISITED :-

(A) Minerals and Stones



(B) Instruments made of stone



(C) Herbal Garden

Around 2:30 pm the staff of a particular department took us to the Herbal Garden and showed various medicinal plants and explained its importance in nature and for humans in day to day life.



(D) Human Anatomy



(E) Various Medicinal Plants and Fruits



It was a really nice experience, we got to know more about Ayurveda, Medicinal plants, its medicinal use and benefits for humans. How nature plays an important role in people's life. We got to see human organs and different plants.



राजाराम महाविद्यालय, कोल्हापूर
राष्ट्रीय सेवा योजना
आजादी का अमृत महोत्सव अहवाल
(कालावधी- ०९/०८/२०२२ ते १७/०८/२०२२)

शिवाजी विद्यापीठ कोल्हापूर राष्ट्रीय सेवा योजना विभाग व सहसंचालक कार्यालय, कोल्हापूर विभाग, कोल्हापूर यांच्या सूचनेनुसार आजादी का अमृत महोत्सव व स्वराज्य महोत्सव राजाराम महाविद्यालयात राष्ट्रीय सेवा योजना विभाग व इतर विद्यार्थी यांच्या सहभागाने दिनांक: ०९/०८/२०२२ ते १७/०८/२०२२ या कालावधीत आयोजित करण्यात आला. सदर कालावधीत विविध कार्यक्रमांचे आयोजन करण्यात आले ते खालीलप्रमाणे:

देशसेवेचे अनुभव कथन - दिनांक : १०/०८/२०२२



१ महा. आर्टी बॅटरी एनसीसी
राजाराम महाविद्यालय, कोल्हापूर

सत्कार समारंभ
एस एस वी कोशल्य मार्गदर्शिन

सत्कारमूर्ती
लेफ्टनंट प्रमोद कोळी
(एसएस-कॅप्टन, महा. आर्टी बॅटरी एनसीसी,
राजाराम महाविद्यालय, कोल्हापूर)

प्रमुख उपस्थिती
लेफ्टनंट कर्नल एम सी मृथ्यन्ना
(ऑफिसर कमांडिंग, १ महा. आर्टी बॅटरी एनसीसी, कोल्हापूर)

कार्यक्रमाचे अध्यक्ष
मा डॉ एस वी महाराज-पाटील
(प्राचार्य, राजाराम महाविद्यालय, कोल्हापूर)

समन्वयक
लेफ्टनंट डॉ. विश्वनाथ बिटे
(कंपनी कमांडर, १ महा. आर्टी बॅटरी एनसीसी,
राजाराम महाविद्यालय, कोल्हापूर)

तारीख आणि वेळ
१० ऑगस्ट २०२२, सकाळी ११ ताजता

स्थळ
यशवंतराव चव्हाण सभागृह, राजाराम महाविद्यालय, कोल्हापूर



प्रमोद कोळी (लेफ्टनंट सैन्यदल)



लेफ्टनंट कर्नल एम. सी. मूत्थन्ना

चित्रकला स्पर्धा (स्वातंत्र्याचा इतिहास, स्वातंत्र्य वीरांचे चित्र)- दिनांक: १२/०८/२०२२



चित्रकला स्पर्धेत सहभागी महाविद्यालयीन विद्यार्थी



हर घर तिरंगा उपक्रमात रासेयो स्वयंसेवक व महाविद्यालयीन कर्मचारी यांचा सहभाग-

दिनांक: १३/०८/२०२२ ते १५/०८/२०२२









‘हर घर तिरंगा’ अभियानात सहभागी महाविद्यालयीन कर्मचारी





‘हर घर तिरंगा’ अभियानात सहभागी महाविद्यालयीन कर्मचारी



स्वच्छता मोहीम राष्ट्रीय सेवा योजना स्वयंसेवक- दिनांक: १४/०८/२०२२



विभाजन विभिषिका स्मृति दिन आयोजन – दिनांक: १४/०८/२०२२



मा. प्राचार्य व सहसंचालक, कोल्हापूर विभाग समवेत महाविद्यालयीन कर्मचारी



राष्ट्रीय छात्र सेना रॅलीचे आयोजन- दिनांक: १४/०८/२०२२



ऐतिहासिक पुरुषांचे विचार-साहित्यांचे प्रदर्शन – दिनांक: १५/०८/२०२२ ते १७/०८/२०२२

NAAC-A Grade

महाराष्ट्र शासन

स्वातंत्र्याचा अमृत महोत्सव

राजाराम महाविद्यालय, कोल्हापूर

| इतिहास विभाग | राष्ट्रीय छात्र सेना | राष्ट्रीय सेवा योजना |

स्वातंत्र्याचा अमृत महोत्सव

अंतर्गत आयोजित

स्वातंत्र्य सैनिक, इतिहास संशोधक कै. बा. बा. महाराज यांच्या संग्रहातील

भारतीय स्वातंत्र्य चळवळीशी निगडित दुर्मिळ साहित्याचे प्रदर्शन

स्थळ : शाहू स्मारक भवन, दसरा चौक, कोल्हापूर
१५ ऑगस्ट ते १७ ऑगस्ट २०२२ | वेळ : सकाळी १०.०० ते सायंकाळी ८.००

प्रवेश विनामुल्य

कार्यक्रम पत्रिका

आमंत्रण

भारतीय स्वातंत्र्याच्या अमृत महोत्सवी वर्षात,
या स्वातंत्र्य दिनी

स्वातंत्र्य सैनिक, इतिहास संशोधक, कै. बा. बा. महाराज संकलित,
स्वातंत्र्य चळवळीच्या (सन १८५७ ते १९४७) कालखंडाशी निगडित
दुर्मिळ साहित्याचे प्रदर्शन आयोजित केले आहे.

- उदघाटक : श्री राहुल रेखावार भा.प्र.से.
जिल्हाधिकारी, कोल्हापूर
- प्रदर्शन : उदघाटन तारीख १५-८-२०२२,
- स्थळ : शाहू स्मारक भवन, दसरा चौक, कोल्हापूर
- वेळ : सकाळी ९ वा., प्रदर्शन ता. १५ ते १७ ऑगस्ट,
सकाळी १० ते सायंकाळी ८ पर्यंत खुले राहिल.

प्रवेश विनामुल्य

- संयोजन सहाय्य : राजाराम महाविद्यालय, कोल्हापूर : इतिहास विभाग;
राष्ट्रीय छात्र सेना ; राष्ट्रीय सेवा योजना
- प्रेषक : राजेश महाराज,
अध्यक्ष, स्वातंत्र्य संग्राम संकलन



उद्घाटन करताना मा. जिल्हाधिकारी समवेत मा. प्राचार्य व कर्मचारी



प्रदर्शन पाहताना मा. जिल्हाधिकारी समवेत विद्यार्थी व मान्यवर



सहभागी रासेयो विद्यार्थी व महाविद्यालयीन कर्मचारी




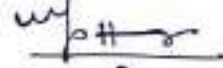
राष्ट्रगीत गायन आयोजन-दिनांक:१७/०८/२०२२



सहभागी महाविद्यालयातील विद्यार्थी व शिक्षक, शिक्षकेत्तर कर्मचारी




डॉ. विश्वनाथ म. देशमुख
कार्यक्रम अधिकारी, राष्ट्रीय सेवा योजना
राजाराम महाविद्यालय, कोल्हापूर


प्राचार्य,
राजाराम महाविद्यालय,
कोल्हापूर
प्राचार्य
राजाराम महाविद्यालय, कोल्हापूर



राजाराव महाविद्यालय
कोल्हापूर

राजाराव महाविद्यालय, कोल्हापूर

विद्यालय, वागव्याज, कोल्हापूर - ४१६ ००४

दूरध्वनी ०२३१ - २५३७८४२

Email: rajaramcollege@gmail.com

फॅक्स नं. - ०२३१-२५३१९८९

दिनांक - ०२.०५.२०२२

ज्या का समकालीन आदेशाचा क्र. २/२०२२/३०१६


कार्यालयीन आदेश :

विषय - लोकराजा राजर्षी छत्रपती शाहू महाराज कृतज्ञता पत्र कार्यक्रमवाचवत. .

दिनांक ०८.०५.२०२२ ते दि. २२.०५.२०२२ या कालावधीत लोकराजा राजर्षी छत्रपती शाहू महाराज कृतज्ञतापत्र कार्यक्रम कोल्हापूरच्या शाहू मितळच्या प्रागणात राबवून होत आहे त्याअंतर्गत शुक्रवार दि.०६.०५.२०२२ रोजी उच्च शिक्षण विभागामार्फत कार्यक्रम होत आहे या कार्यक्रमात राजर्षी शाहू चरित्र साधने प्रकाशन समिती, मुंबई याचेकडून प्राचार्य रा. कृ. कणबरकर लिहीत इगजी चरित्र मथाचा प्रकाशन समारंभ श्री शाहू छत्रपती मितळ, कोल्हापूर येथे आयोजित केले आहे त्याकरिता कार्यक्रमाचे नियोजन करणेसाठी सहसंचालक, उच्च शिक्षण, कोल्हापूर याचेकडून खालील प्रमाणे समिती गठीत करणेत आलेली आहे

अ.क्र.	नाव	पदनाम
१	डॉ. एस. व्ही. पाठारे	सहयोगी प्राध्यापक
२	डॉ. एच. डी. दळवी	सहायक प्राध्यापक
३	डॉ. आर. एस. शिकलंगार	सहयोगी प्राध्यापक
४	डॉ. शितल तापरे	सहायक प्राध्यापक
५	डॉ. उमेश जगताप	सहायक प्राध्यापक

तरी, समितीत सर्व सदस्यांनी सहसंचालक, उच्च शिक्षण, कोल्हापूर याचेशी संपर्क साधून पूर्ण नियोजन करावयाचे आहे


प्राचार्य,
राजाराव महाविद्यालय, कोल्हापूर

प्रति,

उपरोक्त सर्व संबधित,
समिती सदस्य,

प्रत : सहसंचालक, उच्च शिक्षण, कोल्हापूर विभाग, कोल्हापूर यांना

सूचना

महाविद्यालयवर्ती सर्व विद्यार्थ्यांना मुक्त करण्यात येते कि 'राजर्षी शाहू महाराज कृपज्ञता पर्व' निमित्ताने आपल्या महाविद्यालयत चिबिध कार्यक्रमाने खानील वेळापत्रकाप्रमाणे आयोजन करण्यात आले आहे. मदन कार्यक्रमाने सर्व विद्यार्थ्यांनी अधिकाधिक सहभाग नोंदवावा.

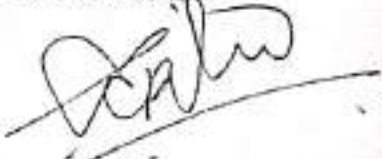
अ.क्र.	कार्यक्रमाचा दिनांक व वेळ	कार्यक्रमाचे नाव	ठिकाण	विषय
१	०५.०५.२०२२ वेळ: स.११.०० वा	व्याख्यान	राजर्षी शाहू महाराज मभागृह, रा.म.फौ.	लोकगजा उद्यपनी शाहू महाराज-डा. प्रकाश पवार
२	०६.०५.२०२२ वेळ: स.११.०० वा	शभर मेकड धडांजनी	राजागम महाविद्यालय, मुख्य उमागनी समोर	राजर्षी शाहू महाराज - धडांजनी
३	०६.०५.२०२२ वेळ: स.११.१० वा	ग्रंथ प्रदर्शन	ग्रंथालय, राजागम महाविद्यालय	राजर्षी शाहू महाराज ग्रंथ प्रदर्शन
४	०७.०५.२०२२ वेळ: स.१०.०० वा	पारंपारिक वेशभूषा स्पर्धा	कॅन्टीन मकंन, राजागम महाविद्यालय	ऐतीहासिक वेशभूषा
५	०९.०५.२०२२ वेळ: स.११.०० वा	चित्रकला स्पर्धा	कॅन्टीन मकंन, राजागम महाविद्यालय	राजर्षी शाहू महाराज यांचे कार्य
६	१०.०५.२०२२ वेळ: स.११.०० वा	काव्य वाचन स्पर्धा	राजर्षी शाहू महाराज मभागृह, रा.म.फौ.	१. स्वरचित २. मंकलीत

चिबिध स्पर्धेतील सहभागामाठी खानील संयोजन समितीशी मंपक साधावा

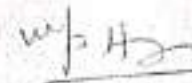
- १) पारंपारिक वेशभूषा स्पर्धा :- डॉ. व्ही. एम देशमुख, डॉ. बी. टी. भोमले, डॉ. एम व्ही पठारे, डॉ. ए. आर. पाटील, डॉ. ए. जे. बोडके, डॉ. एम. जी. गायकवाड आणि डॉ. व्ही. के. वीट
- २) चित्रकला स्पर्धा :- डॉ. ए. आर. पाटील, श्री. एम. के. महाजन, श्री. यु. एम. भागवत, श्री. एम. एन. गाडे, डॉ. ए. यु. पाटील डॉ. आणि डॉ. जे. टी. देशमुख
- ३) काव्य वाचन स्पर्धा :- डॉ. ए. जे. बोडके, डॉ. दिपानी धावणे, डॉ. टी. के. उदगीकर, डॉ. के. के. पाटील, डॉ. अश्विनी गाळुंगे आणि डॉ. आर. ए. कडाकणे श्री. पारं देमाई व श्री भागनजीवन प्रभुघोष

स्पर्धा संयोजकांनी (प्रथम नाव) स्पर्धेविषयीचे नियम नवार करून स्पर्धेची विस्तृत सूचना प्रदर्शित करावी


दिनांक: २०.०५.२०२२


प्राचार्य

महाविद्यालयातील सर्व विद्यार्थ्यांना सूचित करण्यात येते की 'छत्रपती शाहू महाराज कृतज्ञता पर्वच्या' अनुषंगाने गुरुवार दिनांक : ०५/०५/२०२२ रोजी 'छत्रपती शाहू महाराज यांचे कार्य' या विषयावर डॉ. प्रकाश पवार, अधिविभागप्रमुख, राज्यशास्त्र विभाग, शिवाजी विद्यापीठ, कोल्हापूर यांचे व्याख्यान आयोजित करण्यात आले आहे. तरी सर्व विद्यार्थ्यांनी उपस्थित राहावे.



W प्राचार्य,

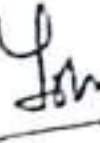
राजाराम महाविद्यालय, कोल्हापूर


दि.१०/०५

सूचना

विषय:- लोकराजा राजर्षी छत्रपती शाहू महाराज कृतज्ञता पर्व कार्यक्रम अंतर्गत राजर्षी छत्रपती शाहू महाराज यांच्याशी निर्गडित ग्रंथांचे प्रदर्शन

लोकराजा राजर्षी छत्रपती शाहू महाराज कृतज्ञता पर्व कार्यक्रम अंतर्गत महाविद्यालयात राजर्षी छत्रपती शाहू महाराज यांच्याशी निर्गडित ग्रंथांचे प्रदर्शन आयोजित केलं आहे. दि. ११.०५.२०२२ रोजी सकाळी १० वाजता डॉ. बाळकृष्ण ग्रंथालयामध्ये प्रदर्शनाचे उदघाटन मा. प्राचार्या, राजाराम महाविद्यालय सहाय्यक प्राचार्य, तसेच तसेच सदर कार्यक्रमासाठी सर्व विद्यार्थी, शिक्षक व शिक्षकेतर कर्मचारी यांनी उपस्थित राहिले पाहिजे.



समन्वयक

डॉ.बाळकृष्ण

विद्यार्थी, शिक्षक व शिक्षकेतर कर्मचारी,
सुत महाविद्यालय

राजाराम महाविद्यालय, कोन्हापूर
लोकराजा राजर्षी छत्रपती शाहू महाराज कृतज्ञता पर्व
१८/४/२०२२ ते २२/४/२०२२

चित्रकला स्पर्धा

दिनांक: ०९/०४/२०२२

वेळ: सकाळी ११.०० वा.

स्थळ: तनरपतिशास्त्र विभाग

विषय: राजर्षी शाहू महाराज यांचे कार्य

स्पर्धेचे नियम:

१. स्पर्धेत सहभागी होण्यासाठी विद्यार्थ्यांनी दि. ७/४/२०२२ रोजी दुपारपर्यंत नाते डॉ. अंजली पाटील, तनरपतिशास्त्र विभाग यांचेकडे द्यावीत.
२. माध्यम: वॉटर कलर, पोस्टर कलर, पेन्सिल कलर, इ.
३. कागद: कर्डशीट, स्लेच पेपर, कॅजवारा, नोस्टे पेपर, स्नोव्हाइट पेपर, इ.
४. साइज: A3
५. स्पर्धेसाठी सर्व साहित्य विद्यार्थ्यांनी स्वतः आणायचे आहे.
६. वेळ २ तास
७. परीक्षाकांचा निर्णय अंतिम राहिल.

समिति:

१. डॉ. अं. रा. पाटील- संयोजक
२. प्रा. यू. एस. भागवत- सदस्य
३. प्रा. एस. एस. गाडे- सदस्य
४. डॉ. ए. यू. पाटील- सदस्य
५. डॉ. जे. टी. देशमुख- सदस्य