



Rayat Shikshan Sanstha's

## Radhabai Kale Mahila Mahavidyalaya, Ahmednagar

Accredited with 'A' Grade by NAAC/An ISO 9001:2015 Certified College  
Affiliated to Savitribai Phule Pune University, Pune

### Skill Based Certificate Course Certificate Course in Beauty Care 2022-2023

#### REPORT

The skill based "Certificate Course in Beauty Care" has been regularly conducted in the academic year 2022-2023 in the college. The course has been conducted in the month of April-May. Total 74 students were trained and are benefited by the certificate course that will be a source of self-employment for them in future.

Course information at a glance:

Batch-I: F.Y.BSC.

Batch-II: F.Y.B.A, F.Y.B.Com, F.Y.BBA.

Timing: Batch- I (9:30am -10:30am) and Batch-II (12:30pm to 1:30pm).

Name of the Course	Batches	No. of admitted students	No. of beneficiaries	Course duration	Trainer
Beauty Care	I	39	21	60 hrs	Ms. Sonali Ganesh Phasale
	II	134	53		

  
Chairman  
Skill Based Courses



  
PRINCIPAL  
Radhabai Kale Mahila Mahavidyalaya



Rayat Shikshan Sanstha's

## Radhabai Kale Mahila Mahavidyalaya, Ahmednagar

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Affiliated to Savitribai Phule Pune University, Pune (PU/AN/ASC/034)

### SKILL BASED CERTIFICATE COURSE

2022-2023

#### Course Completion Report

Name of the Course: - **Beauty Care**

The college is running Skill Based Short Term Courses for giving professional training and inculcating practical approach among students. These courses provide the training in fewer fees. It is the need of an hour to provide skill based education along with university curriculum.

**Name of the Trainer:** Ms. Sonali Ganesh Phasale

**Name of the Course Coordinator:** Batch-I Ms. Indapure Mamta Jayram  
Batch-II Ms. Abak Swati Sudam

**Duration of the Course:** 60 Hours

**No. of Beneficiaries for the course:** 74

**Skills Acquired:** 1- Knowledge of beauty therapies.

2- Get the knowledge of professional beautification.

Chairman  
Short Term Courses



PRINCIPAL  
Radhabai Kale Mahila Mahavidyalaya  
Ahmednagar



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**Radhabai Kale Mahila Mahavidyalaya, Ahmednagar**

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Affiliated to Savitribai Phule Pune University, Pune

**Skill Based Short Term Course**  
**Certificate Course in Beauty Care (CC-BC)**

2022-2023





GPS Map Camera



Google

**Ahmednagar, Maharashtra, India**  
4P3R+JPR, Tarakpur, Ahmednagar, Maharashtra 414001, India  
Lat 19.103811°  
Long 74.74159°  
24/04/23 10:00 AM GMT +05:30



GPS Map Camera



Google

**Ahmednagar, Maharashtra, India**  
4P3R+9GG, Karachiwala Nagar, Tarakpur, Ahmednagar, Maharashtra 414001, India  
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GPS Map Camera

Ahmednagar, Maharashtra, India  
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Google



GPS Map Camera

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Google



 **GPS Map Camera**  
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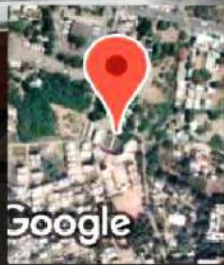


 **GPS Map Camera**  
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Ahmednagar, Maharashtra, India  
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Ahmednagar, Maharashtra, India  
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**Ahmednagar, Maharashtra, India**  
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414001, India  
Lat 19.10458°  
Long 74.741382°  
27/05/23 11:42 AM GMT +05:30



**Ahmednagar, Maharashtra, India**  
Near, RTO Office Rd, Tarakpur, Ahmednagar, Maharashtra  
414001, India  
Lat 19.104574°  
Long 74.741394°  
27/05/23 12:01 PM GMT +05:30



रयत शिक्षण संस्थेचे,

राधाबाई काळे महिला महाविद्यालय, अहमदनगर

नॅक 'अ' मानांकन / ISO ९००१ : २०१५ प्रमाणित महाविद्यालय  
संलग्न सावित्रीबाई फुले पुणे विद्यापीठ, पुणे (PUAN/ASC/034)

### मोडी लिपी प्रशिक्षण कार्यशाळा अहवाल

सावित्रीबाई फुले पुणे विद्यापीठ, पुणे विद्यार्थी विकास मंडळ, रयत शिक्षण संस्थेचे, राधाबाई काळे महिला महाविद्यालय अहमदनगर व पेमराज सारडा कॉलेज अहमदनगर इतिहास विभाग यांचे संयुक्त विद्यमाने दि. ०२ व ०६ मार्च २०२३ रोजी मोडी लिपी प्रशिक्षण कार्यशाळा संपन्न झाली. कार्यशाळेचे उदघाटन ०२ मार्च रोजी डॉ. धम्मपाल माशाळकर यांच्या हस्ते झाले. या कार्यशाळेस पेमराज सारडा कॉलेजच्या इतिहास विभाग प्रमुख डॉ. सुरेखा गांगुर्डे उपस्थित होत्या. कार्यक्रमाचे अध्यक्ष महाविद्यालयाचे प्राचार्य डॉ. एस.आर. थोपटे हे होते. आजच्या जागतिकीकरणामध्ये नव्या भाषा, कला आपण निश्चितच शिकल्याच पाहिजेत, पण त्याबरोबरच आपल्या मातृभाषेचा अमूल्य ठेवा जतन करणे ही सुद्धा नैतिक जबाबदारी आपलीच आहे. भुतकाळातील गोष्टींचा आढावा, अभ्यास भविष्यकाळातील वाटचालीस महत्वाचा ठरू शकतो. मध्ययुगीनकाळात वापरात असलेल्या मोडी लिपीची कोट्यावधी कागदपत्रे, दस्तऐवज महाराष्ट्र व देश, विदेशात उपलब्ध असून ती अभ्यासकांना साद घालीत आहेत. त्याचे वाचन होणे अद्यापि बाकी आहे. मोडी लिपी ही आज दुर्बोध होत चालली आहे. त्यामुळे आपण इतिहासाच्या सत्यापर्यंत पोहोचत नाही. परिणामी लाखो उपलब्ध दस्तऐवज वाचनाअभावी नष्ट होत आहेत. म्हणूनच मराठी भाषेची मुळ असलेली मोडी लिपी जर पुन्हा वापरात आणली गेली तर मराठी भाषेचा प्रभाव वाढेल असे मत डॉ. धम्मपाल माशाळकर यांनी व्यक्त केले. डॉ. धम्मपाल माशाळकर यांनी सात दिवसांच्या या प्रशिक्षण शिबिरात विद्यार्थिनींना मोडी लिपीची वर्णमाला, त्याचे अंक, मोडी गिरविण्याची पद्धती, बाराखडी शिकवून त्यांच्या कडून त्या अक्षरे गिरवून घेतले. शेवटच्या दिवशी काही विद्यार्थिनींनी स्वतःचे, गावाचे आणि महाविद्यालयाचे नाव मोडी लिपीत लिहून दाखवले.

दि. ०६ मार्च २०२३ रोजी कार्यशाळेच्या समारोप प्रसंगी डॉ. जगदीश सोनवणे यांनी मोडी लिपीची ऐतिहासिक पार्श्वभूमी विषद करून मोडी लिपी ही काळानुसार विकसित होत कशी लोप पावत गेली याचा आढावा घेतला. तसेच मोडी लिपीचा वापर वाढला तर ऐतिहासिक दस्तऐवजांचे वाचन करणे सहज सुलभ होऊन मराठ्यांचा इतिहास पुढे आणणे शक्य होईल असे स्पष्ट केले. अध्यक्षीय मनोगतामध्ये महाविद्यालयाचे प्राचार्य डॉ. एस.आर.

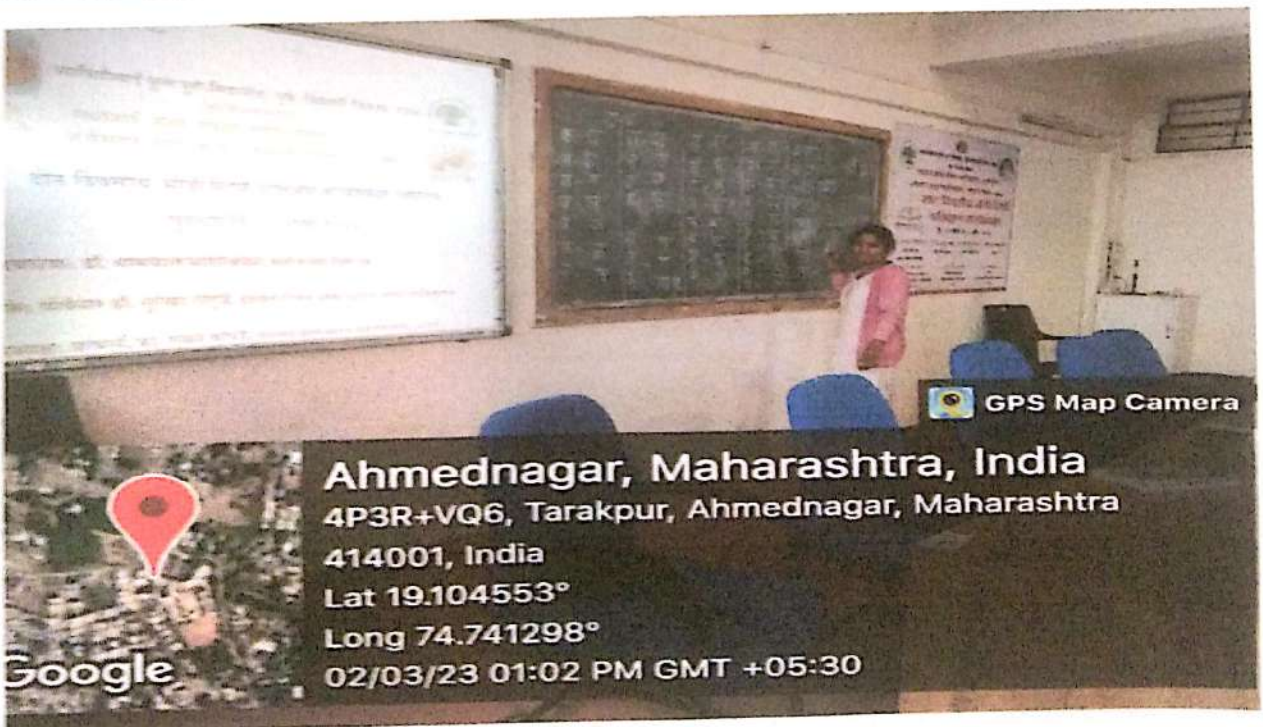
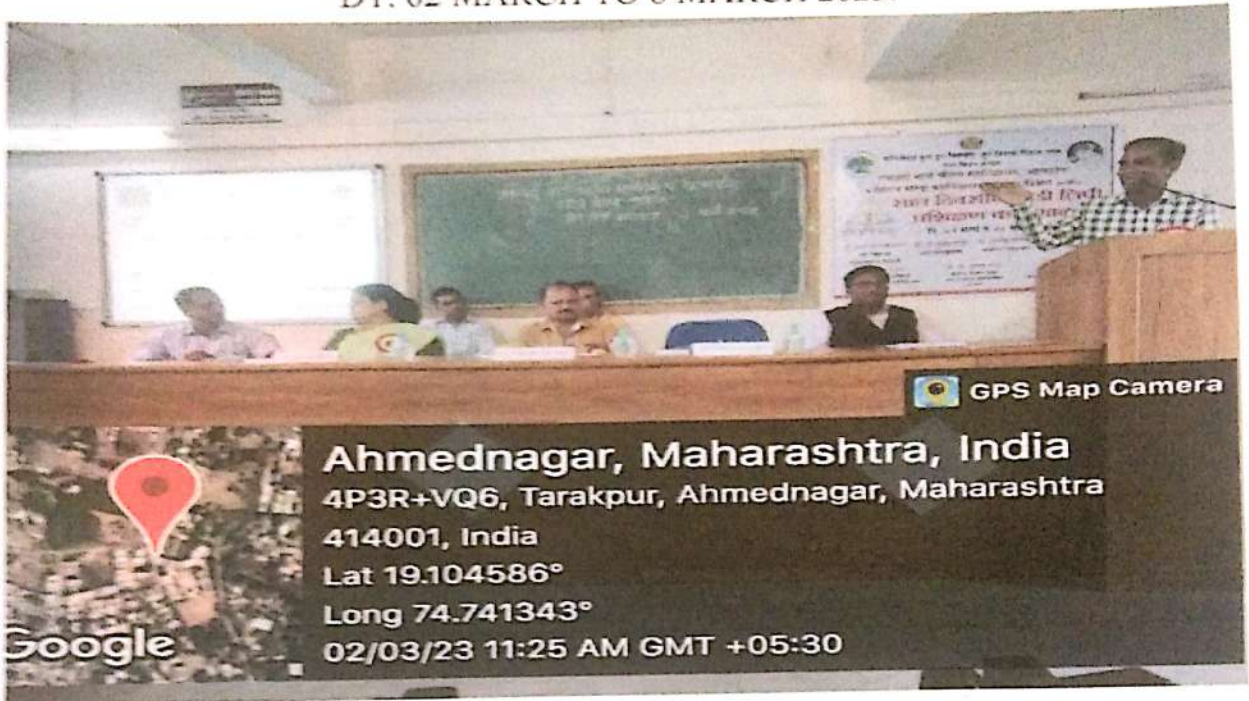
थोपटे यांनी समकालीन सामाजिक शास्त्राच्या विद्यार्थ्यांपुढे नोकरीच्या संधीचा अभाव ही मोठी समस्या आहे; मात्र या विद्यार्थ्यांकडे एखादे कौशल्य असेल तर ते या समस्येवर सहजपणे मात करू शकतील. १९५० पूर्वीच्या शेतीसंबंधीच्या नोंदी, जन्म-मृत्यू नोंदी, खरेदीपत्रे तसेच या काळातील न्यायालयीन दावे यासंबंधीची सर्व कागदपत्रे मोडी लिपीतच उपलब्ध आहेत. मोडी लिपीचे ज्ञान असणारी व्यक्ती अशा कागदपत्रांचे लिप्यंतर करून समाजास आपले योगदान देऊन आपल्या उपजिविकेचा प्रश्नही सोडवू शकते असे मत व्यक्त केले. या सात दिवसीय कार्यशाळेचे प्रास्ताविक व स्वागत विद्यार्थी विकास मंडळाचे प्रमुख डॉ. गणेश विधाटे यांनी केले. कार्यक्रमाचे सूत्रसंचालन वनस्पतीशास्त्र विषयाच्या डॉ. अंजली खिलारी, व प्रा. प्रजा वाघ यांनी केले तर आभार प्रा. अमोल बुचुडे यांनी मानले. या कार्यक्रमास विद्यार्थी विकास मंडळाचे सदस्य, विविध विभागांचे विभाग प्रमुख, शिक्षकेत्तर कर्मचारी उपस्थित होते. ही कार्यशाळा यशस्वी करण्यासाठी डॉ. सुरेखा गांगुर्डे, डॉ. कृष्णा पाटील, डॉ. गणेश विधाटे, प्रा. अमोल बुचुडे यांनी प्रयत्न केले. या कार्यक्रमास पेमराज सारडा कॉलेज व राधाबाई काळे महिला महाविद्यालयातील विद्यार्थिनी मोठ्या संख्येने उपस्थित होत्या.

  
**HEAD**  
 Department of History  
 Radhabai Kale Mahila Mahavidyalaya  
 Ahmednagar



  
**प्राचार्य**  
 राधाबाई काळे महिला महाविद्यालय,  
 अहमदनगर

DEPT. OF HISTORY ORGANIZED 7 DAYS MODI LIPI SCRIPT COURSE.  
DT. 02 MARCH TO 8 MARCH 2023.





रयत शिक्षण संस्थेचे,

राधाबाई काळे महिला महाविद्यालय, अहमदनगर

नेक 'अ' मानांकन / ISO ९००१ : २०१५ प्रमाणित महाविद्यालय  
संलग्न सावित्रीबाई फुले पुणे विद्यापीठ, पुणे (PUAN/ASC/034)

राधाबाई काळे महिला महाविद्यालय, अहमदनगर इतिहास विभाग व वसुंधरा भाषा मोडी लिपी  
संवर्धन आणि संशोधन केंद्र पुणे यांच्या संयुक्त विद्यमाने आयोजित  
अभिलेखागारशास्त्र व वस्तुसंग्रहालयशास्त्र मार्गदर्शनपर व्याख्यान'

शुक्रवार दिनांक दि. २६ मे २०२३

कार्यक्रम पत्रिका

- प्रतिमा पूजन : मान्यवरांचे हस्ते ११.३० ते ११.३२
- प्रास्ताविक व स्वागत : डॉ. गणेश विधाटे, प्रमुख, इतिहास विभाग ११.३२ ते ११.३५
- मान्यवरांचा परिचय : कुमारी फिरदोस शेख ११.३५ ते ११.३७
- अतिथींचा सत्कार : डॉ. महेश जोशी हस्ते- प्राचार्य, डॉ. एस.आर. थोपटे ११.३७ ते ११.४०
- प्रमुख पाहुण्यांचे मनोगत : डॉ. महेश जोशी ११.४० ते १२.३०
- आभार : कुमारी पायल राजपुरोहित १२.३० ते १२.३२
- सूत्रसंचालन : प्रा. अमोल बुचुडे, इतिहास विभाग





रयत शिक्षण संस्थेचे,

राधाबाई काळे महिला महाविद्यालय, अहमदनगर

नेक 'अ' मानांकन / ISO ९००१ : २०१५ प्रमाणित महाविद्यालय  
संलग्न सावित्रीबाई फुले पुणे विद्यापीठ, पुणे (PUAN/ASC/034)

## अभिलेखागारशास्त्र व वस्तुसंग्रहालयशास्त्र मार्गदर्शनपर व्याख्यान अहवाल

राधाबाई काळे महिला महाविद्यालय, अहमदनगर इतिहास विभाग व वसुंधरा भाषा मोडी लिपी संवर्धन आणि संशोधन केंद्र पुणे यांच्या संयुक्त विद्यमाने दि. २६ मे २०२३ रोजी वस्तुसंग्रहालयशास्त्र व अभिलेखागारशास्त्र या विषयावर डॉ. महेश जोशी यांचे मार्गदर्शनपर व्याख्यान आयोजित करण्यात आले होते. या व्याख्यानामध्ये डॉ. महेश जोशी यांनी वस्तुसंग्रहालयाची ऐतिहासिक संकल्पना, त्याचे मांडणीचे तंत्र, त्याची उपयुक्तता, विभागणी, राष्ट्र विकासामध्ये त्याचे महत्व विषद केले. तसेच अभिलेखागारशास्त्राच्या संदर्भात अभिलेखागाराची पार्श्वभूमी स्पष्ट करून त्याचे प्रकार, अभिलेखागाराचे तंत्र, अभिलेखांची मांडणी, वर्गीकरण व त्याचे ऐतिहासिक महत्व यावर प्रकाश टाकला. तसेच या विषयातील कोर्सवर्कची माहिती देऊन त्यातील रोजगाराच्या संधी कोणत्या यासंबंधी मार्गदर्शन केले. कार्यक्रमाच्या प्रास्ताविकेमध्ये डॉ. गणेश विधाटे यांनी वस्तुसंग्रहालयशास्त्र व अभिलेखागारशास्त्र या विषयाची रूपरेषा स्पष्ट करून विद्यार्थिनींना वस्तुसंग्रहालयशास्त्र व अभिलेखागारशास्त्र या संबंधी कोणत्या विद्यापीठात सदर कोर्स चालविले जातात त्याची माहिती दिली. कार्यक्रमाचे सूत्रसंचलन प्रा. अमोल बुचुडे यांनी केले तर आभार कुमारी पायल राजपुरोहित या विद्यार्थिनीने मानले. या कार्यक्रमास महाविद्यालयातील विद्यार्थिनी मोठ्या संख्येने उपस्थित होत्या.

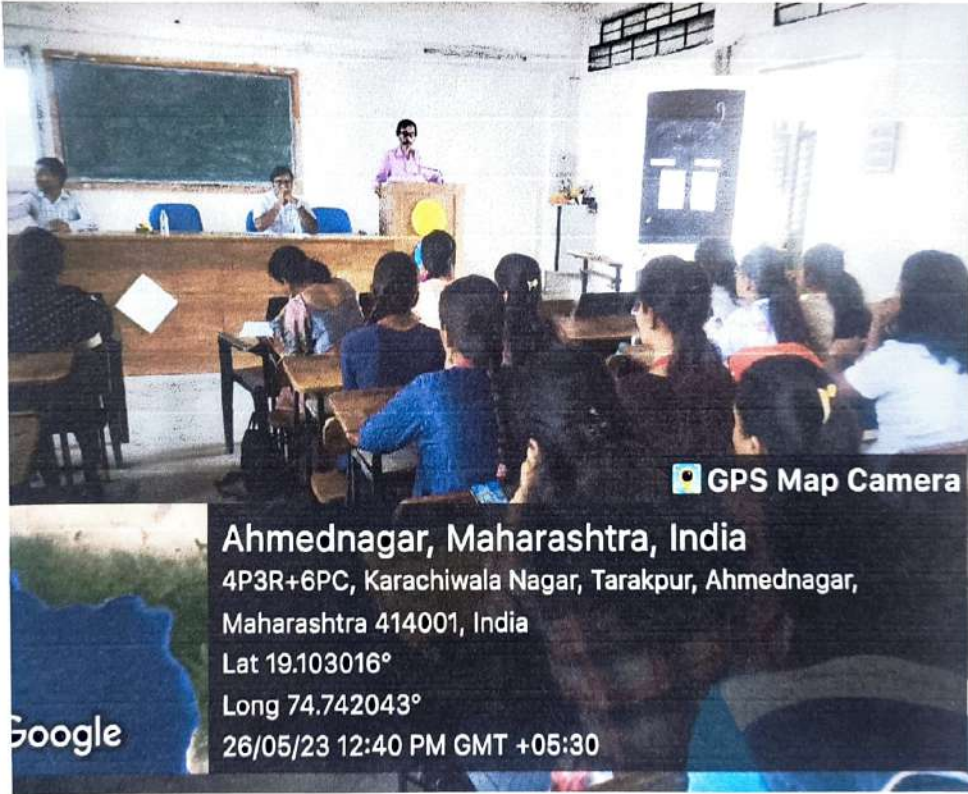
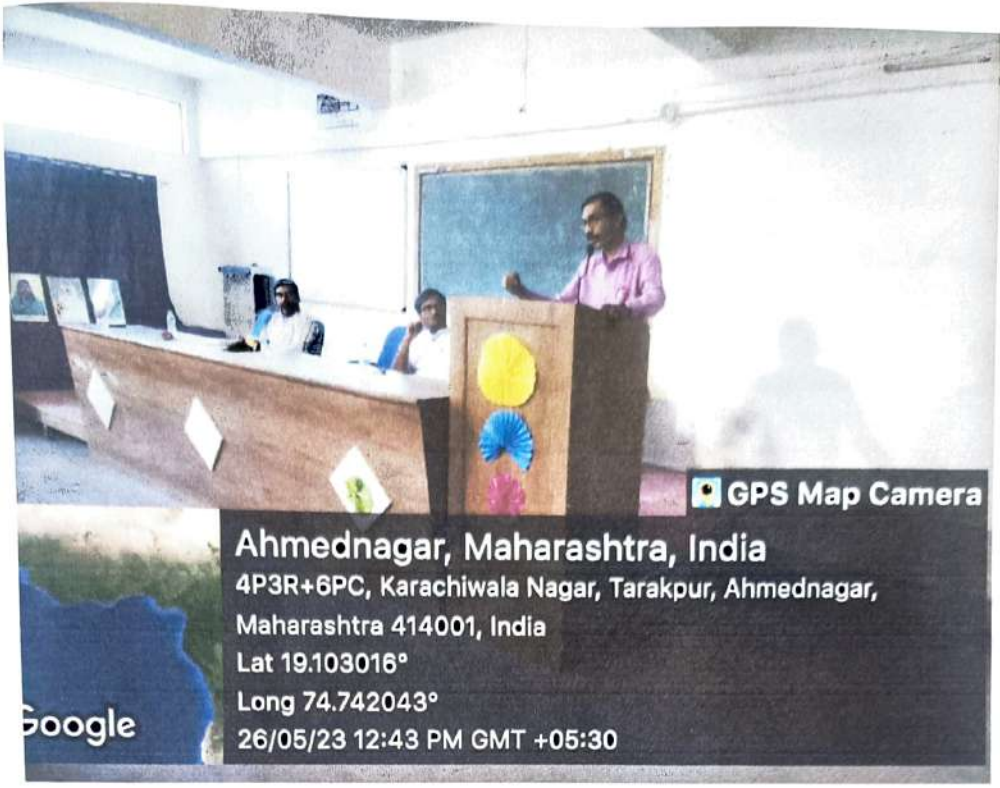
HEAD

Department of History  
Radhabai Kale Mahila Mahavidyalaya  
Ahmednagar



प्राचार्य

राधाबाई काळे महिला महाविद्यालय,  
अहमदनगर



प्रा. डॉ. महेश जोशी वस्तुसंग्रहालयशास्त्र व अभिलेखागारशास्त्र या विषयावर  
विद्यार्थिनींना मार्गदर्शन करतांना

HEAD  
Department of History  
Radhabai Kale Mahila Mahavidyalaya  
Ahmednagar



प्राचार्य  
राधाबाई काले महिला महाविद्यालय,  
अहमदनगर



Rayat Shikshan Sanstha's

**Radhabai Kale Mahila Mahavidyalaya, Ahmednagar**

Accredited 'A' Grade by NAAC/An 9001:2015 Certified College

**DEPARTMENT OF ZOOLOGY**

**In Collaboration With**

**REHEKURI GREAT INDIAN BUSTARD**

**(OLD BLACKBUCK) SANCTUARY**

**Celebrate**

**"Wild Life Week"**

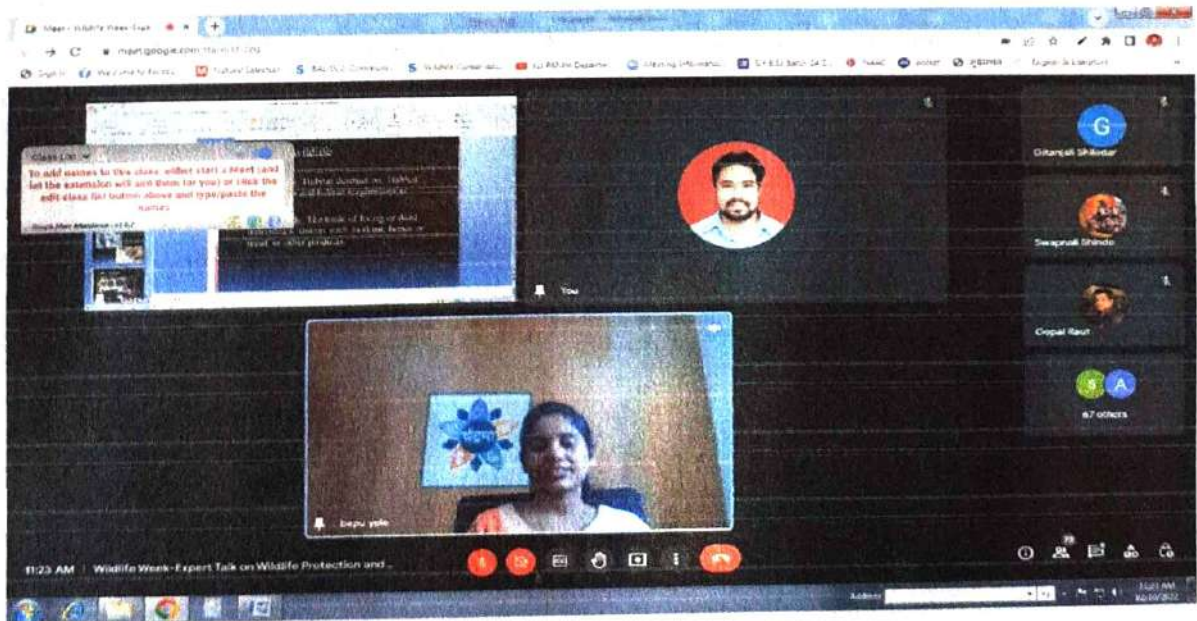
**2<sup>nd</sup> to 8<sup>th</sup> October, 2022**

**Activity Report**

With the objective of increasing awareness regarding wild life a *Wild Life Week* is observed in collaboration with Rehekuri Great Indian Bustard (Old Blackbuck) Sanctuary, Karjat from 2<sup>nd</sup> to 7<sup>th</sup> October, 2022 by Department of Zoology. In this occasion expert lectures are organized on different topics and online Quiz and poster competitions on the theme of Wild Life is organized on 03/10/2022 and 08/10/2022. A Memorandum of Undertaking is also signed between Radhabai Kale Mahila Mahavidyalaya, Ahmednagar and Rehekuri Great Indian Bustard (Old Blackbuck) Sanctuary, Karjat to strengthen research and knowledge exchange.

### Inauguration 02/10/2022

The event was inaugurated with the talk of Mrs. Manisha Bhinge Deputy Director, Chandrapur Forest Academy. She delivered a talk on Wild Life Protection and Sustainable Development. During the event students and faculties of the Department are present. Total beneficiaries are 72.



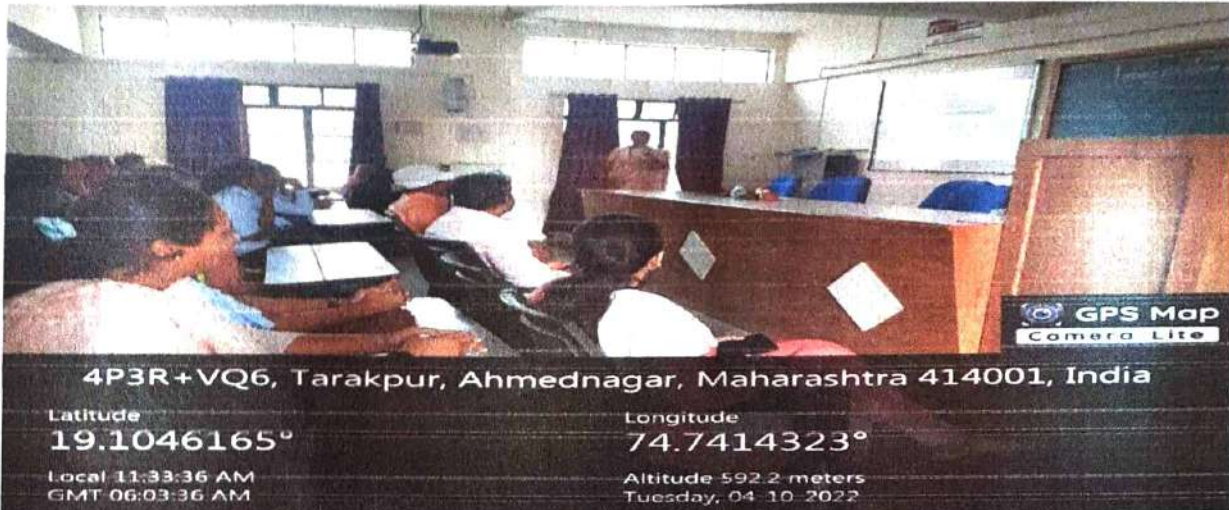


### Online Quiz 03/10/2022

Online quiz on Wildlife are taken using Google form in which **88** responses are received.

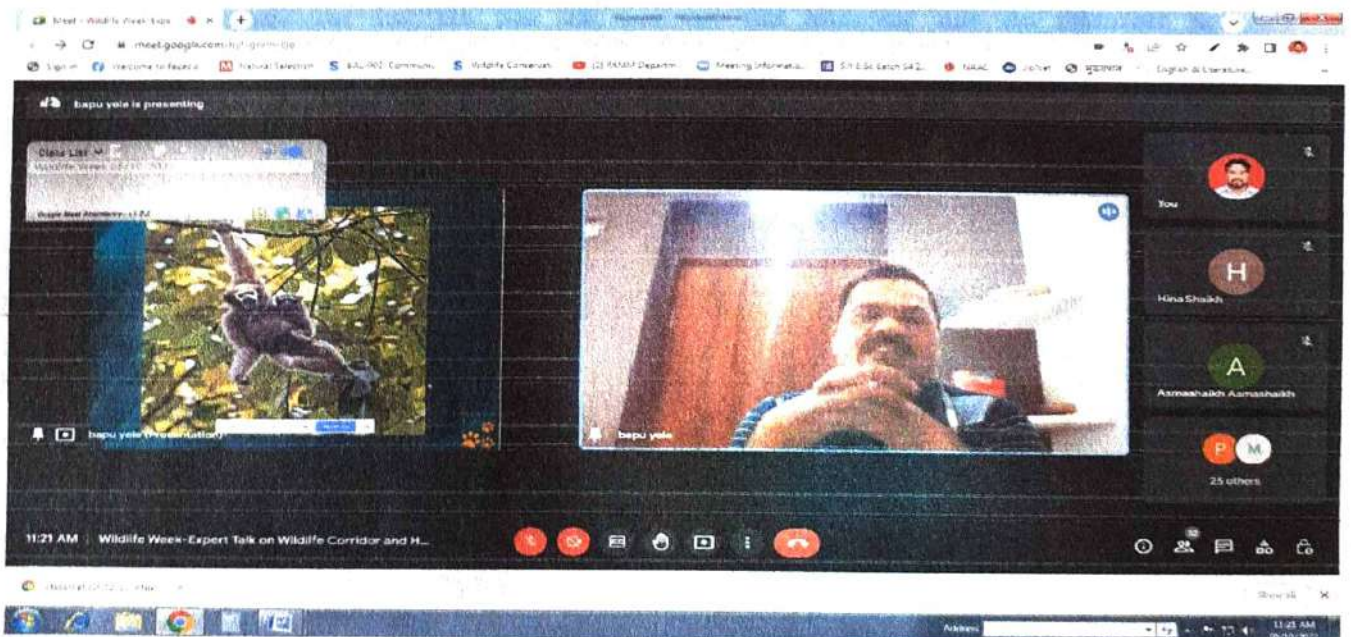
### Expert Talk 4/10/2022

An Expert Talk on Wild Life Conservation by Dr. Ms. S. A. Pawar, Head, Department of Zoology, Dada Patil Mahavidyalaya, Karjat is arranged in which students and faculties are actively participated. Total beneficiaries are **62**.



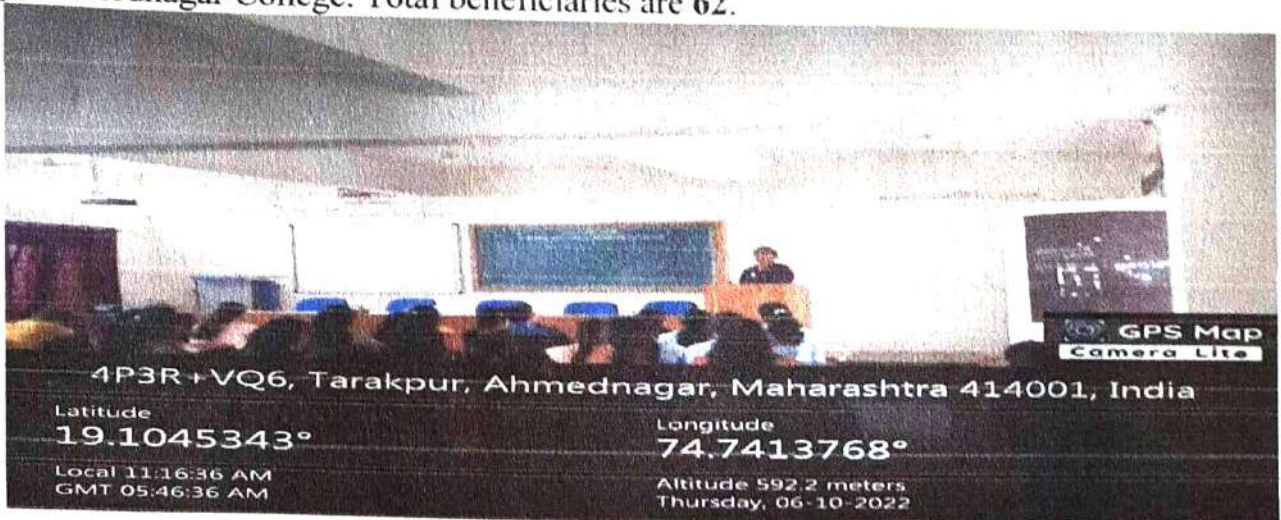
### Expert Talk 05/10/2022

Expert Talk on Wildlife Corridor and Human Development by Mr. Babu C Yele, Assistant Conservator of Forsest (ACF), Tadoba Andhari Tiger Reserve on 05/10/2022. Total beneficiaries are **32**.



**Expert Talk 06/10/2022**

Expert Talk on Fresh Water Wildlife Dr Avinash Vanjare, Assistant Professor, Department of Zoology, Ahmednagar College. Total beneficiaries are 62.



**Expert Talk 07/10/2022**



Expert Talk on Praying Mentis Dr Gopal Raut, Assistant Professor, Department of Zoology, Radhabai Kale Mahila Mahavidyalaya. Total beneficiaries are 48.

**HEAD**

Department of Zoology  
Radhabai Kale Mahila Mahavidyalaya  
Ahmednagar



**PRINCIPAL**

Radhabai Kale Mahila Mahavidyalaya  
Ahmednagar



Rayat Shikshan Sanstha's  
Radhabai Kale Mahila Mahavidyalaya, Ahmednagar  
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DEPARTMENT OF ZOOLOGY

In Collaboration With  
REHEKURI GREAT INDIAN BUSTARD (OLD BLACKBUCK) SANCTUARY

Celebrate  
"Wild Life Week"  
2<sup>nd</sup> to 8<sup>th</sup> October, 2022

Attendance Report of Guest Talk of Dr Avinash Vanjare

Venue- Hall No 33

Date 06/10/2022

Time 11:00 am

Sr.No	Full Name of the Student	Class	Signature
1)	Khan Shahista Abdul Wahid	F.Y.BSc	Shahista.
2)	Sayyed Samreen Sufi.	F.Y.B.Sc	Samreen
3)	Shaikh Bushra Zakir	F.Y.B.sc	Shaikh
4)	Shaikh Taiba Hamid.	F.Y.B.sc	Shaikh.T.
5)	saudagar Jirdous Sarfraz.	F.Y.B.sc	Jirdous
6)	Shaikh Mujeeb Rafique	F.Y.BSC	Mujeeb
7)	Khan Namra Saba Nazim.	F.Y.BSC	Namra
8)	Pawar Prachi Bhagwat	F.Y.BSC	P.Prachi
9)	Mhaske Shrovani Hiraman	F.y.B.sc	Shrovani
10)	Avhad Akanksha Ramesh	F.y.B.sc	Avhad/R.
11)	Gawali Mansi Bapu	F.Y.BSC	Mansi
12)	Jangam Aishwarya Revannath	F.Y.BSC	Aishwarya
13)	Keshwagar Kalyani Kakasabeb	F.Y.BSC	Kalyani
14)	Gaikwad Gayatri Antosh	F.Y.BSC	Gayatri
15)	Thorat Namrata Balasabeb	F.Y.BSC	Namrata
16)	Sarode Vaishnavi Navnath	F.Y.BSC	Sarode.V.N
17)	Makasare Suhani Sunil	F.Y.BSC	S.S.Makasare
18)	Dalvi Aarti Dattatray	F.Y.BSC	Dalvi A
19)	Adhav Sandhya Dnyandeo	T.Y.BSC	Adhav
20)	Walke Sushama Paraji	T.Y.BSC	Sushama
21)	Avhad Pooja Balasabeb	F.Y.Bsc	Avhad.P.A
22)	Avhad sonali Arjun	F.Y.Bsc	S.A.Avhad
23)	Wakade Sayali Vishal	F.Y.BSC	Wakade.S.V
24)	kale Bhagyashri shankar	T.Y.BSc	Bkale
25)	kale kamal Santosh	T.Y.Bsc	K.S.kale
26)	Shaikh Sujana Salim	F.Y.BSC	Sujana
27)	Sayyed Sayema Irfan.	F.Y.BSC	Sayema
28)	Shaikh Adhin Raisa	F.Y.B.Sc	Adhin
29)	Poujapati Anchal Ramsharan	T.Y.BSC	Anchal.P
30)	Awrekh Kavita shyamsingh	T.Y.BSC	Kavita





Rayat Shikshan Sanstha's

## Radhabai Kale Mahila Mahavidyalaya, Ahmednagar

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Affiliated to Savitribai Phule Pune University, Pune (PU/AN/ASC/034)

### Department of Chemistry

#### SHORT TERM COURSES

2022-2023

Skill Based Short Term Course

#### Certificate Course In Instrument Handling (CC-IH)

### Report

The skill based short term course "Certificate Course in Instrument Handling (CC-IH)" has been regularly conducted in the academic year 2022-2023 in the college. The course has been conducted from the month of January 2023 to May 2023. Total 28 students were trained and are benefited by the certificate course that will be a source of employment for them in future.

#### Course Information at a glance:

Class: M.Sc. I Organic and Analytical Chemistry

Time: 9.00 am to 11:00 am

Sr. No.	Name of the course	Batch	No. of Beneficiary	Course Duration	Trainer	Name of Incharge Department
1	Certificate course In Instrument Handling (CC-IH)	I	29	60 hrs	Ms. P. R. Wagh Ms. B. S. Pawale	Chemistry

HOD  
Incharge Department

Chairman  
Skilled Based Course

Principal  
Radhabai Kale Mahila Mahavidyalaya  
Ahmednagar





Rayat Shikshan Sanstha's

**Radhabai Kale Mahila Mahavidyalaya, Ahmednagar**

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**Department of Chemistry**

**SHORT TERM COURSES**

**2022-2023**

**Course Completion Report**

Name of the Course: **Certificate Course in Instrument Handling (CC-IH)**

This Course is designed to provide breakthrough knowledge of instrumentation, their handling and applications of the high-cost instruments viz., FT-IR, UV-Visible, Double beam spectrophotometer, Microwave Synthesizer, Ultra sonication, Rotary evaporator, etc.

Name of the Trainer: Ms. P. R. Wagh  
Ms. B. S. Pawale

Name of the Incharge Department: Chemistry

Duration of the Course: 60 Hours

Student admitted for the course: 33

No. of the student completed the course: 28

**Skills Acquired**

1. Student understands the basic knowledge of operation of instruments.
2. Students learn Fundamental principles, generalization or theories
3. Students experience the hands-on training.

HOD  
Incharge Department

Chairman  
Skilled Based Course

Principal  
Radhabai Kale Mahila Mahavidyalaya  
Ahmednagar





Rayat Shikshan Sanstha's

## Radhabai Kale Mahila Mahavidyalaya, Ahmednagar

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Affiliated to Savitribai Phule Pune University, Pune (PU/AN/ASC/034)

### SHORT TERM COURSES

2022-2023

### Course Completion Report

Name of the Course: **Certificate Course in Instrument Handling (CC-IH)**



Flame Photometry



UV-Cabinete



Sonicator



Microwave Oven





*Rayat Shikshan Sanstha's*  
**Radhabai Kale Mahila Mahavidyalaya, Ahmednagar**

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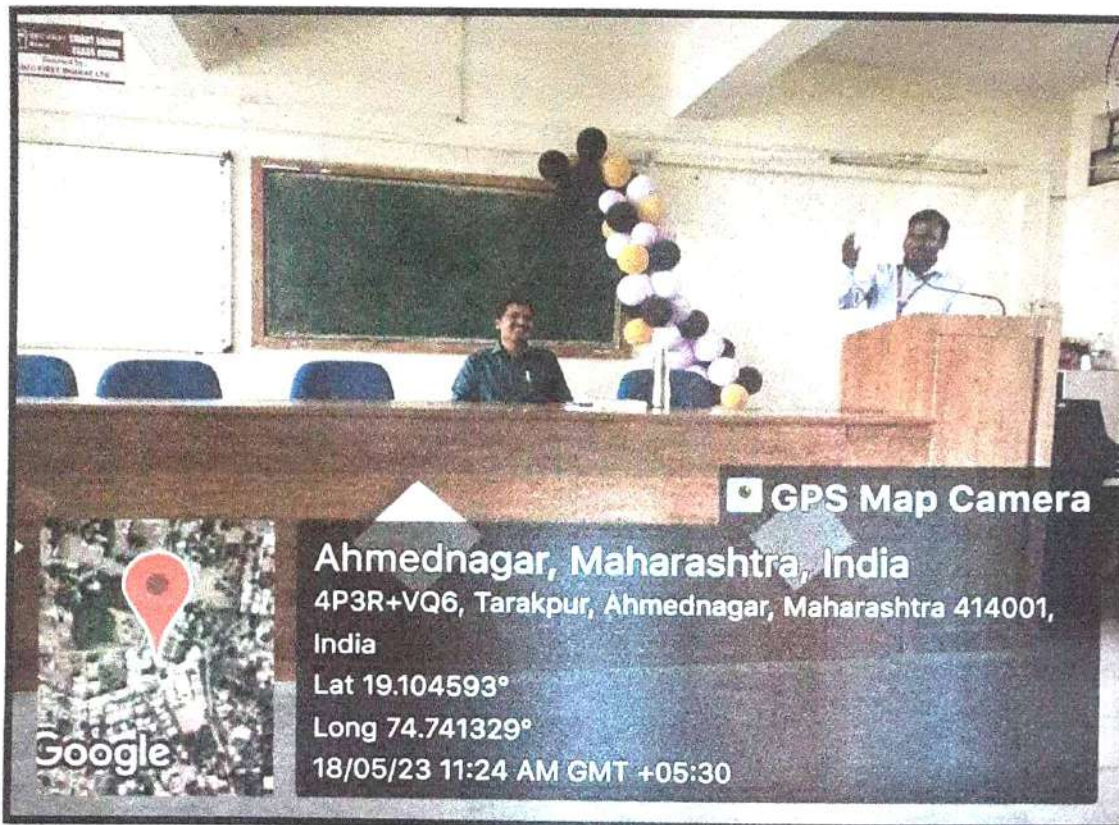
**Report**  
**Guest Lecture on**  
**"CHO-250 Pericyclic Reactions"**  
**Organized by**  
**Department of Chemistry**  
**18<sup>th</sup> May 2023 to 19<sup>th</sup> May 2023 at 11:00 AM**

Department of Chemistry organized Guest lecture on "Pericyclic Reactions" from CHO-250 section-I on 18<sup>th</sup> May 2023 to 19<sup>th</sup> May 2023 for M.Sc chemistry students.

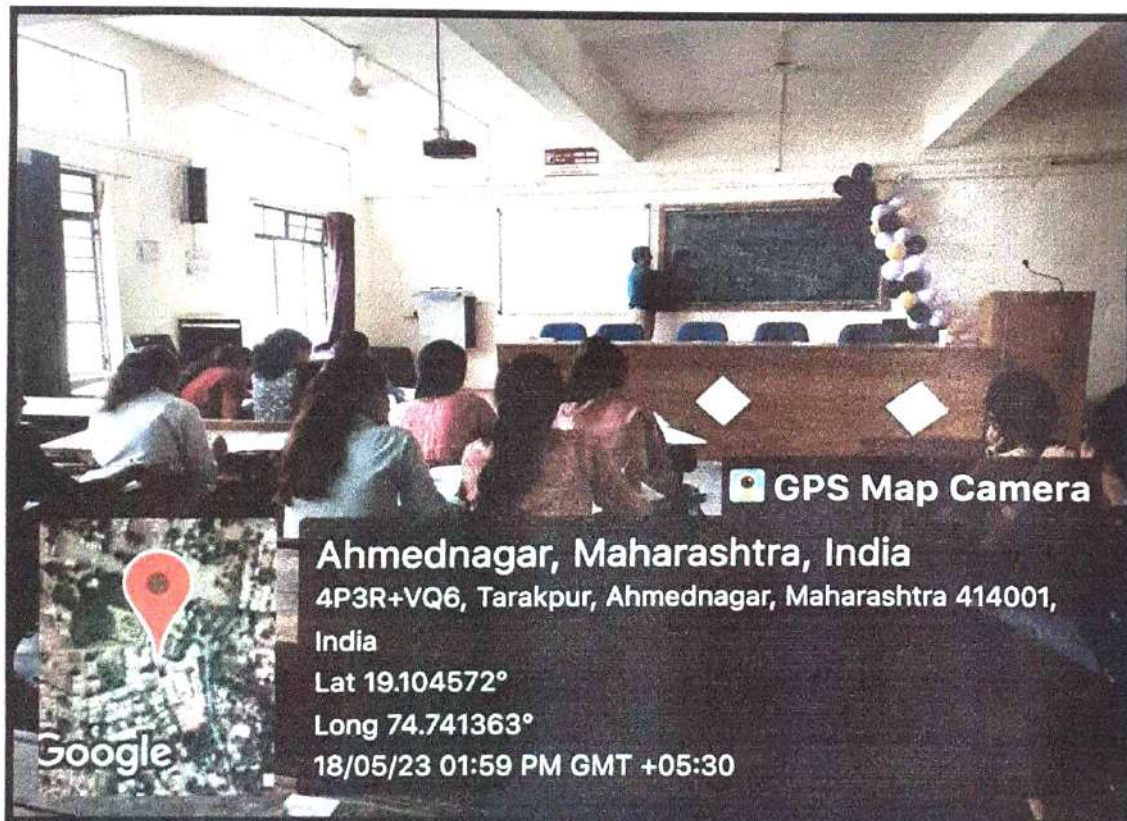
The Chief Guest for this lecture was **Dr. Dattatraya N. Pansare**, Assistant Professor, Department of Chemistry Deogiri College Aurangabad. More than 22 participants from the college were present for this lecture.

Initially, Dr. R. N. Shelke, Assistant Professor on the behalf of the Department of Chemistry welcomes to all the participants and gives preface of the guest lecture. Dr. M. H. Shaikh, Head, Department of Chemistry gave the introduction of chief guest Dr. Dattatraya N. Pansare.

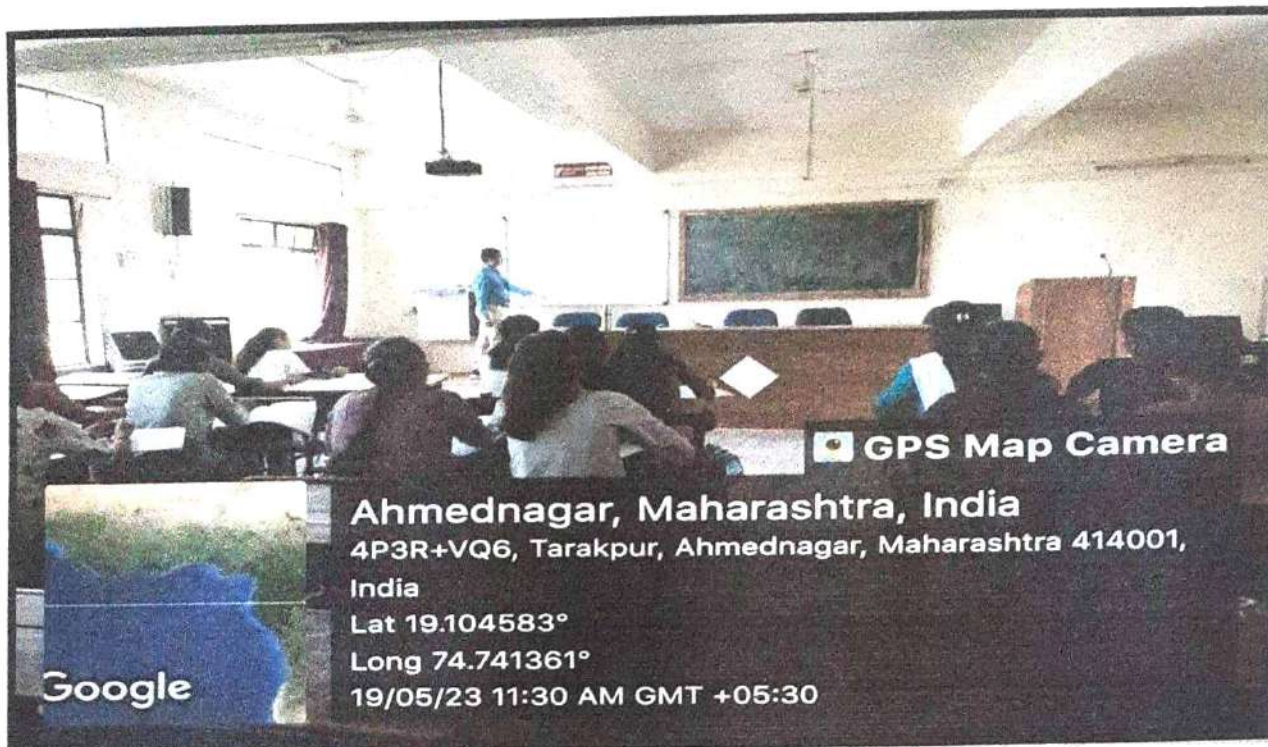
Dr. Dattatraya N. Pansare delivered the lecture on "**Pericyclic Reaction**" In this lecture he explains the concept of pericyclic reactions. After the lecture, questionnaire session was done between chief guest and students. At the end of lecture Miss. Kirti Pandole M. Sc-I student proposed vote of thanks on the behalf of Chemistry department.



Dr. M. H. Shaikh, Head, Department of Chemistry Introduce Dr. Dattatraya N. Pansare



Dr. Dattatraya N. Pansare delivering the lecture

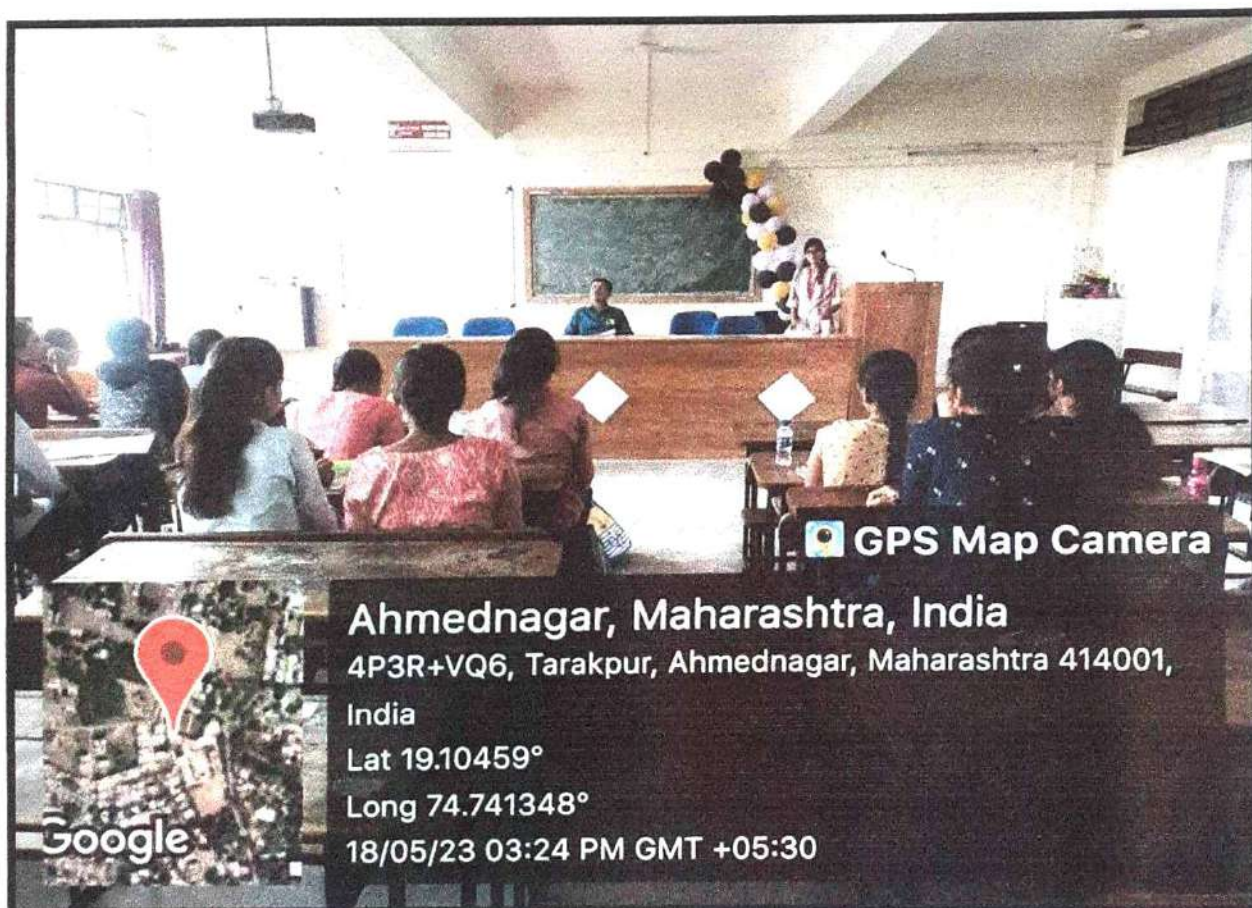


GPS Map Camera

Ahmednagar, Maharashtra, India  
 4P3R+VQ6, Tarakpur, Ahmednagar, Maharashtra 414001,  
 India  
 Lat 19.104583°  
 Long 74.741361°  
 19/05/23 11:30 AM GMT +05:30

Google

Dr. Dattatraya N. Pansare delivering the lecture



GPS Map Camera

Ahmednagar, Maharashtra, India  
 4P3R+VQ6, Tarakpur, Ahmednagar, Maharashtra 414001,  
 India  
 Lat 19.10459°  
 Long 74.741348°  
 18/05/23 03:24 PM GMT +05:30

Google

Vote of thanks given by M. Sc I student Miss. Kirti Pandole on Day-1.

*M. S. Pillai*

HEAD  
 Department of Chemistry,  
 Radhabai Kale Mahila Mahavidya.,  
 Ahmednagar



*B. Pansare*

PRINCIPAL  
 Radhabai Kale Mahila Mahavidyalaya,  
 Ahmednagar



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2022-23  
Department of Chemistry  
Guest Lecture On Pericyclic Reactions

Subject:

Date: 18/05/2023

Sr. No.	Name of the Student	Sign
1.	Gawade Mayuri Sambhaji	
2.	Arkas Akankshavilas	
3.	Shiledar Gitanjali Kailas	
4.	Kamble Dipmala Sanjay	
5.	Badadhe Amruta Subhan	
6.	Koray Dharmanath Anbhale	
7.	Jadhav Pallavi Vishwas	
8.	Gadakh Mohini Somnath	
9.	Naik Ashwini Namdev	
10.	Shende Savita B.	
11.	Sose Shital Balasaheb	
12.	Temkar Chaitali Vinayak	
13.	Devkar Rohini Bharat	
14.	Chavan Rutuja Ravindra	
15.	Kashid Vaishnavi K.	
16.	More Ashwini Bhausaheb	
17.	Nowale Pratibha Sahebs	
18.	Phatke Manasi Balasaheb	
19.	Muthe Kartiki Dinkar	
20.	Mokate Pratiksha Mohan	
21.	Bagal Komal Ashok	
22.	Bagal Nikita .N.	

HEAD  
Department of Chemistry  
Radhabai Kale Mahila Mahavidyalaya,  
Ahmednagar



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2022-23  
Department of Chemistry  
Guest Lecture On Pericyclic Reactions

Subject:

Date:19/05/2023

Sr. No.	Name of the Student	Sign
1.	Gawade Mayuri Sambhaji	
2.	Satze Nikita Gorakshah	
3.	Kamble Dipmala sanjay	
4.	Shiledar Gitawali kailas	
5.	Temkar chaitali vinayak	
6.	Shimath vaishnavi shantaram	
7.	Deukar Rohini Bhanat	
8.	Pandule kirti Atmaram	
9.	Muthe kartiki Dinkar	
10.	mokate pratiksha Mohan	
11.	Phatake Manasi Balasaheb	
12.	Bagul Nikita namasaheb	
13.	Bagul Komal Ashok	
14.	Chavan Rutuja Ravindra	
15.	Ashwini Bhausaheb More.	
16.	Ashas Akansha vilas	
17.	Bedadha Amruta subhas	
18.	Chavan Rutuja Ravindra	
19.	Nawale Pratibha Sahebzag	
20.	More Ashvini Bhausaheb	
21.	Bhayat Harshada Rajendra	
22.	Kashid vaishnavi kiran	

HEAD

Department of Chemistry  
Radhabai Kale Mahila Mahavidyalaya,  
Ahmednagar



Rayat Shikshan Sanstha's,

Estd. 1989



# RADHABAI KALE MAHILA MAHAVIDYALAYA AHMEDNAGAR

Principal  
**Shankar Thopate**  
(M.Sc., NET, Ph.D.)

Affiliated to Savitribai Phule Pune University, Pune (Formally University of Pune)  
PU/AN/A.S.C.034

Founder  
Padmabhushan  
Dr. Karmaveer Bhaurao Patil

NAAC Re-accredited 'A' Grade | ISO 9001 : 2015 | AISHE - C - 41306 | College Code - 199 | U-Dise - 27261501306 | H.S.C. Index - J1205031

Ref. No. 101 / 2022-2023

Date : 17 / 5 / 2023

To,  
**Dr. Dattatraya N. Pansare,**  
Assistant Professor  
Department of Chemistry  
Deogiri College, Aurangabad

Subject: Invitation as a Guest Lecture for CHO-250 Section-I.....

Respected Sir,

With reference to above subject we would like to invite you as guest lecturer for M.Sc. I Students. On topic '**Pericyclic Reactions**' CHO-250 Section-I scheduled on **18/05/2023 to 19/05/2023 at 11:00 am**. Kindly accept our invitation we are sure that, this interaction would be very beneficial for our students to develop their knowledge.

Thanking You,

PRINCIPAL  
Radhabai Kale Mahila Mahavidyalaya  
Ahmednagar



Rayat Shikshan Sanstha's,

Estd. 1989



# RADHABAI KALE MAHILA MAHAVIDYALAYA AHMEDNAGAR

Affiliated to Savitribai Phule Pune University, Pune (Formally University of Pune)  
PU/AN/A.S.C.034

Founder  
Padmabhushan  
Dr. Karmaveer Bhaurao Patil

NAAC Re-accredited : 'A' Grade | ISO 9001 : 2015 | AISHE - C - 41306 | College Code - 199 | U-Dise - 27261501306 | H.S.C. Index - J1205031

Ref. No. 101 / 2022-23

Date : 14 / 5 / 2023

**Dr. Dattatraya N. Pansare,**  
Department of Chemistry  
Deogiri College, Aurangabad

**Subject:** Letter of thanks/appreciation.

Respected Sir,

It gives us an immense pleasure to express our deep sense of gratitude towards you for delivering an informative & thought-provoking lecture as **Guest Lecturer** for CHO-250 'Pericyclic Reactions' on 18<sup>th</sup> May 2023 to 19<sup>th</sup> May 2023 at 11:00 am organized by Department of Chemistry, Radhabai Kale Mahila Mahavidyalaya, Ahmednagar.

It was really a splendid presentation which exposed students to the field practices. All the students appreciated and benefited from your views on the subject.

Looking forward to your cooperation for the promotion of professional education in future as well.

Yours Sincerely,

**PRINCIPAL**  
Radhabai Kale Mahila Mahavidyalaya  
Ahmednagar



# Development of a new chromogenic spray reagent for the detection and identification of synthetic pesticide carbaryl in biological material by high-performance thin-layer chromatography

Umakant D. Pawar<sup>1</sup> · Dattatraya N. Pansare<sup>2</sup> · Rohini N. Shelke<sup>3</sup> · Chandrakant D. Pawar<sup>2</sup> · Asif M. Pathan<sup>1</sup> · Vijay J. Thakre<sup>4</sup> · Bhagwan S. Dobhal<sup>5</sup> · Rajendra K. Pardeshi<sup>6</sup>

Received: 21 March 2022 / Accepted: 2 August 2022  
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**Keywords** New chromogenic reagent · High-performance thin-layer chromatography (HPTLC) · Toxicology · Carbaryl · Forensic science · Biological material

## 1 Introduction

Carbaryl is a member of synthetic carbamate insecticide. Its International Union of Pure and Applied Chemistry (IUPAC) name, 1-naphthyl methylcarbamate, is highly used largely toxic to insects. It is commonly used to control aphids, fire ants, fleas, ticks, spiders, and many other outdoor pests [1]. It is also used in some gardens to thin out blossoms on fruit trees. Easy availability of this compound is frequently encountered in forensic casework, since carbamate insecticides compounds are mostly misused in homicidal, accidental, and suicidal poisoning cases. In the Regional Forensic Science Laboratory, Aurangabad, India, the detected several cases of human poisoning by carbaryl are generally analyzed by thin-layer chromatography (TLC) and high-performance thin-layer chromatography (HPTLC) because they are the

most simple, rapid and reliable techniques and due to their speed, low cost, and versatility usually used in forensic laboratory for detection and identification of poison. The chemical structure of carbaryl shown in Fig. 1.

Carbaryl residues and their metabolites have been analyzed in environmental samples using a variety of chromatographic and instrumental methods such as ultraviolet (UV) spectrophotometry [2, 3, 4], gas chromatography–mass spectrometry (GC–MS) [5, 6, 7, 8, 9], high-performance liquid chromatography (HPLC) [10, 11, 12, 13], HPLC with fluorescence detection and tandem mass spectrometry (MS/MS) [14, 15], liquid chromatography–tandem mass spectrometry (LC–MS/MS) [16, 17, 18], nuclear magnetic resonance (NMR) spectroscopy [19], reversed-phase liquid chromatography with UV detection (RPLC–UV) [20] and capillary electrophoresis (CE) [21, 22] are reported in the literature for the determination of carbaryl pesticide residue. Although these methods are selective, there are limitations to their use in routine forensic work. Due to their complex matrix which may result in damage of the columns, HPTLC is the method of choice for screening biological sample due to its speed, low cost, and versatility. Several chromogenic reagents have been reported using TLC/HPTLC analysis [23, 24, 25, 26] for the detection of carbaryl insecticides.

This study reports a new method for the determination of carbaryl in biological samples by HPTLC. The selective detection of carbaryl after HPTLC is possible by use of chromogenic spray reagent. Carbaryl reacts with chromogenic reagent producing an intense brown-colored compound. The chromogenic reagent does not react with the organochlorine insecticides, pyrethroids insecticides, herbicides. Vanillin reagent has been reported for the detection

✉ Dattatraya N. Pansare  
dattatraya.pansare7@gmail.com

✉ Rajendra K. Pardeshi  
chemrpardeshi@gmail.com

<sup>1</sup> Regional Forensic Science Laboratories, Aurangabad, Maharashtra, India

<sup>2</sup> Department of Chemistry, Deogiri College, Aurangabad, MS 431005, India

<sup>3</sup> Department of Chemistry, Radhabai Kale Mahila Mahavidyalaya, Ahmednagar, MS 414001, India

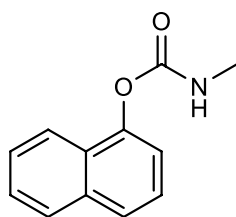
<sup>4</sup> Regional Forensic Science Laboratories, Nagpur, Maharashtra, India

<sup>5</sup> Badrinath Barwale College Jalna, Jalna, Maharashtra, India

<sup>6</sup> Sant Ramdas College, Ghansawangi, Jalna, Maharashtra, India



**Fig. 1** Chemical structure of carbaryl



Carbaryl

of monocrotophos insecticide on TLC [27]. Visceral constituents (amino acids, peptides, proteins, fats, etc.) do not interfere.

In continuation of our research work [28, 29, 30, 31, 32, 33, 34, 35, 36, 37], we have developed several chromogenic reagents for the identification and detection of different synthetic poisons in biological materials with the hope it gives quick results for forensic toxicology field.

## 2 Experimental

### 2.1 Chemicals and reagents

All reagents were of analytical-reagent grade. Standard carbaryl (Modern Insecticides Ltd., Punjab, India) solution was prepared in acetone ( $2 \text{ mg mL}^{-1}$ ).

#### 2.1.1 Chromogenic reagent

[A] 4 g sodium hydroxide in 100 mL distilled water (S.D. Fine-Chem Ltd., Mumbai, India).

[B] 2 g vanillin in 100 mL acetone (S.D. Fine-Chem Ltd.).

Reagent [A] was prayed, then, after waiting for 10 min, reagent [B] was sprayed, and then the plate was kept in an oven at  $100 \text{ }^\circ\text{C}$  for 10 min.

### 2.2 Extraction of carbaryl from biological materials

About an aliquot of 60 g biological material (viscera sample) [(I) pieces of stomach and small and large intestine with contents, (II) pieces of liver, spleen, kidney, and lungs] containing carbaryl poisoning history case was taken. The material was cut into fine pieces and minced carefully. An aliquot of 100 mL acetone was added, and the contents were left to stand for 24 h. Then the extract was transferred into a steel capsule and evaporated to dryness at room temperature. The residue was redissolved in 2 mL of acetone and was used for HPTLC analysis.



**Fig. 2** High-performance thin-layer chromatography separation: **A** blank viscera; **B** viscera with carbaryl poisoning; **C** standard carbaryl

### 2.3 High-performance thin-layer chromatography

HPTLC is one of the sophisticated instrumental techniques based on the full capabilities of TLC. The advantages of automation, scanning, full optimization, selective detection principle, minimum sample preparation, hyphenation, etc., enable it to be a powerful analytical tool for chromatographic information of complex mixtures of pharmaceuticals, natural products, clinical samples, food stuffs, and so on. For the detection of carbaryl residues, pre-coated HPTLC plates (silica gel 60 F<sub>254</sub>, Merck Ltd., Darmstadt, Germany) were used. Hexane–acetone (4:1, V/V) mixture was used as solvent system for HPTLC. The samples were spotted on HPTLC plates with fine capillary tubes along with pure carbaryl as the standard. The plates were dried, and the chromatogram was developed in a presaturated tank containing the solvent system as mentioned above. After developing the plates, the solvent front (distance traveled by the solvent) was immediately marked and the extra solvent was evaporated (dried) in fume hood. The plates were then sprayed with the abovementioned chromogenic reagent. Brown-colored spot with white background was clearly visible at  $R_F$  0.22 and  $R_F$  0.54, shown in Fig. 2.  $R_F$  values and color of spots tallies with standard carbaryl and spot stable up to 24 h.

TLC showing carbaryl residues using chromogenic spray reagent: (A) blank viscera, (B) viscera with carbaryl poisoning, (C) standard carbaryl (Fig. 2).

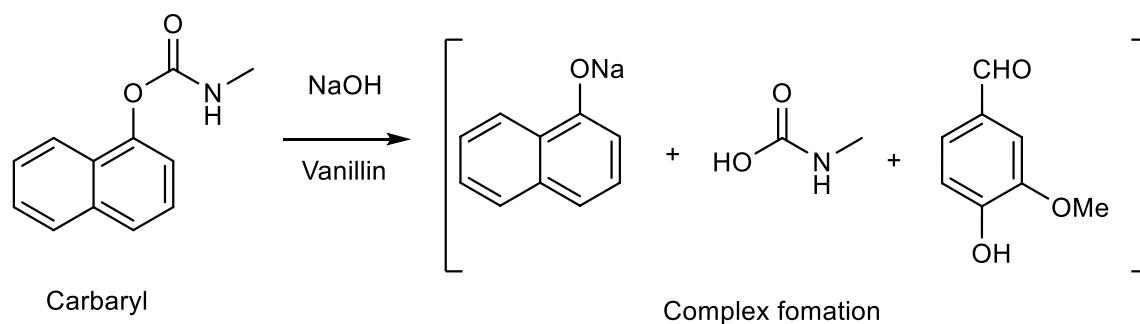


Fig. 3 Chemical structure of carbaryl and complex formation

### 3 Results and discussion

Carbaryl is an organic compound which reacts with chromogenic reagent to give intense brown-colored compound. The color species formed in the coordination complex of the carbaryl reacts with the reagent. When it forms coordination compound, then it appears as color compound. The color of the spot remains stable up to 24 h. The limit of detection with this reagent is approximately 8  $\mu\text{g}$ . The reagent does not react with the organochlorine insecticides endosulfan, benzene hexachloride (BHC) and dichloro-diphenyl-trichloroethane (DDT), etc., with the organophosphorus insecticides dimethoate, phorate, quinalphos, etc., and with the synthetic pyrethroids like fenvalerate, cypermethrin, and deltamethrin. Visceral constituents (amino acids, peptides, proteins, fats, etc.) do not interfere. The chromogenic reagent utilized in the proposed method is cheap and does not involve any critical reaction condition or tedious sample preparation. Hence, this can be used routinely for the detection of carbaryl in biological materials in forensic toxicology. The chemical structure of carbaryl and complex formation is shown in (Fig. 3).

### 4 Conclusion

To the best of our knowledge, the chromogenic reagent was used the first time for the detection and identification of synthetic carbamate insecticide carbaryl in biological post-mortem samples (in fatal poisoning cases of carbaryl). The proposed reagent is simple and can be used for routine analysis of synthetic carbaryl insecticide which helps us with analyses in forensic toxicology. Work on new spray reagents is in progress, the author hopes to report soon when work is over.

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### Declarations

**Conflicts of interest** The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

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## Placement and Career Counselling Cell and Industry-Academia

### Co-ordination

Jointly Organized

### “Campus Interview”

#### Report

**Date: 20/02/2023**

To create promising career opportunities for students in reputed companies, the **Placement and Career Counselling Cell and Industry-Academia Co-ordination** in collaboration with **Times Group of India** has organized a “**Campus Interview- for ICICI Bank**” for the Post of **Relationship Manager** for Graduate and Post Graduate students on **20<sup>th</sup> Feb 2023 at 10:00 am.** in the college campus. Total **97** students were registered for Campus Interview from Radhabai Kale Mahila Mahavidyalaya, Ahmednagar.

At the start of first session, Ms. Nirmala Darekar, Chairman, Placement Cell welcomed the audience, gave the information of the event and the sessions planned. After this, Dr. Laxmi Kathawate, Chairman, Industry-Academia Co-ordination highlighted the importance of campus interview and gave introduction of resource person. Prin. Dr. S. R. Thopate felicitated Mr. Vishal Naik Sir, Times Pro Regional Sales Head, Maharashtra and Mr. Ganesh Shahane sir.

In the technical session, Resource person of the programme Mr. Vishal Naik Sir, Times Pro Regional Sales Head, Maharashtra gave his talk on the work culture, opportunities and information about Banking Sector. After technical session, Mr. Vishnu Adsare, Asst. Professor, Department of Psychology, proposed vote of thanks on behalf of organizing committee.

After this session, aptitude test was conducted and out of 97 candidates 20 candidates were selected for second round.

In second round 20 candidates have faced the Online Interview conducted by Mr. Vishal Naik Sir, Times Pro Regional Sales Head, Maharashtra and Mr. Ganesh Shahane sir and Members of ICICI Bank and 06 candidates are selected through this Campus Interview.



*S. R. Thopate*

Principal

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### “Campus Interview”

#### List of the Students Selected

Sr. No.	Name of the Student	Branch Address	Salary	Package
7.	Ms. Apurva Narad	Ahmednagar MIDC	20,447	2,45,364
8.	Ms. Aarti Khurud	Sambhajinagar	22,284	2,72,244
9.	Ms. Nikita Jangale	Mumbai- Malad Link Road	25,917	3,11,004
10.	Ms. Vaishnavi Avhad	Ahmednagar- Rahata	20,447	2,45,364
11.	Ms. Chaitali Temkar	Belapur – Railway station road, Mumbai	25,917	3,11,004
12.	Ms. Pratiksha Ithape	Ahmednagar- Choubewadi Branch	20,447	2,45,364



*Prapate*

Principal  
Radhabai Kale Mahila Mahavidyalaya,  
Ahmednagar