

Mahatma Phule Shikshan Sanstha's
Karmaveer Bhaurao Patil College, Urur-Islampur
Department of Biotechnology (Entire)

Notice

Department of Microbiology is organizing Guest Lecture by on 18/03/2025 at 11.00 am. She will discuss on "Genetic Engineering". All the students of B. Sc. Biotechnology (Entire) are instructed to remain present for the same.

Venue : G-14 Hall


Head
Department of Microbiology
Karmaveer Bhaurao Patil College
Urur-Islampur, Dist-Sangli-415402

महात्मा फुले शिक्षण संस्थेचे

कर्मवीर भाऊराव पाटील कॉलेज, उरुण-इस्लामपूर

ता. बाळवा, जि. सांगली, पिन - 419402

■ तारीख: १९६१



■ फोन : कार्यालय - (०२३४२)२९९४७२
■ E-mail : kbpisl_comp@yahoo.co.in / kbpislampur@gmail.com

■ Reaccredited by NAAC with 'A' Grade (CGPA 3.17)

■ ज्युन. कॉलेज कोड- २२११००१ ■ प्ल्युन. कॉलेज मान्यता प्रमाण: ए.ए.स.सी./१९६१-१९७२-५ (स. वार.) दि. ०४/०५/१९६१

प्रा. (डॉ.) नितीन शिंदे

M.Sc., M.Phil., Ph.D

प्राचार

जा. क्र.

दिनांक: / / २०२

LETTER OF INVITATION – AS A RESOURCE PERSON

To,
Smt. S.D.Kadam,
Assistant Professor, Department of Microbiology
Sadguru Gadage Maharaj College, Karad

SUBJECT- RESOURCE PERSON.....

Respected Madam,

I would like to invite you as a resource person for the guest lecture organized by B.Sc. Microbiology in the K. B. P. College, Urun-Islampur on 18/03/2025 at 11.00 am. on the subject “Genetic Engineering”. Please accept the same and communicate your willingness.

Thanking You,


PRINCIPAL
Karmveer Bhaurao Patil
College, Urun-Islampur (Sangli)

खर्चाची पावती

बांधकार नं.

तारीख: १८ / ०३ / २०२५

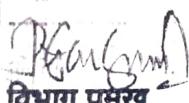
माननीय प्राचार्य, कर्मवीर भाऊराव पाटील कॉलेज, इस्लामपूर यांना -

पावती लिहून देणार सायनी अक्षय पाटील सुव्हमजीविशास्त्र

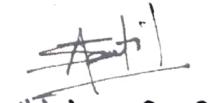
पावती लिहून देतो की, खालील तपशीलप्रमाणे आज रोजी मला पैसे मिळाले. तक्रार नाही.

खाते	रकम	रुपये	पैसे
अक्षयी महाविद्यालयात तर्फत सुव्हमजीविशास्त्र	1000/-		००
विभागाकडे "Genetic Engineering"			
या विषयावर व्याख्यान दिले.			
त्याचे शेव्ह माझ्यान मिळाले.			००
एकूण (अक्षरी व अंकी) रुपये एक हजार कॅपये मात्र.	1000/-		

वरीलप्रमाणे रकम आदा करून ही पावती रद्द केली.


विभाग प्रमुख


प्राचार्य


पैसे घेणाराची सही

महात्मा फुले विद्यापुर संस्थेचे

कर्मवीर भाऊराव पाटील कॉलेज, उरुण-इस्लामपूर

ता. बालांग, जि. सांगली, पिन - 411 403

राष्ट्रीय : 1259



■ फोन : कार्यालय - (०२३४२)२९९४७२

■ E-mail : kbpisl_comp@yahoo.co.in / kbpislampur@gmail.com

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■ अमेरिकन लोड - 22 ९९.००९ ■ अमेरिकन लोड : एच.ए.सी./१९८६-१८९०२-१ (एस. शय) दि. ०४/०५/१९८६

प्रा. (डॉ.) नितीन शिंदे

M.Sc., M.Phil., Ph.D.

ग्राहार्य

जा. क्र.

दिनांक / / २०२

LETTER OF APPRECIATION

To,

Smt. S.D.Kadam.

Assistant Professor, Department of Microbiology
Sadguru Gadage Maharaj College, Karad

Respected Madam,

I would like to thank for your valuable guidance on the subject B. Sc. Microbiology in the K. B. P. College, Urun-Islampur on 18/03/2025 at 11.00 am. on the subject "Genetic Engineering". Hope you will extend co-operation in future also.


PRINCIPAL
Kamvyaar Bhaurao Patil
College, Urun-Islampur (Sangli)



Mahatma Phule Shikshan Sanstha's
Karmaveer Bhaurao Patil College,
Urun-Islampur



Department of Microbiology

Organized

Lead College Activity

A Guest Lecture on

“Genetic Engineering”

On 18th March, 2025 at 11.00 am

Schedule

Welcome and Introduction	:	Miss. S.B. Patil
Introduction of the Resource Person :		Miss. S. S. Nilakhe.
Resource Person	:	Smt. S.D.Kadam. Assistant Professor, Department of Microbiology Sadguru Gadage Maharaj College, Karad
Chairman	:	Dr. P. V. Gaikwad Vice Principal K. B. P. College, Urun-Islampur
Vote of Thanks	:	Miss.P. P. Jadhav.
Venue	:	At G-14 hall, K.B.P. College Islampur.

Mahatma Phule Shikshan Sanstha's

**Karmaveer Bhaurao Patil College,
Urun-Islampur**

Department of Microbiology

Lead College Activity

A Guest Lecture on

"Genetic Engineering"

Resource Person: Sayali Akshay Patil

-:Report:-

Karmveer Bhaurao Patil College, Urun- Islampur organized guest lecture under lead college activity. The resource person for this session is Sayali D.Kadam . Currently she is working as an Asst prof.at department of microbiology S.G.M College,Karad. She delivered lecture on "Genetic Engineering" for B.Sc student. She also explained about application of Genetic Engineering in various field.

Genetic engineering refers to the deliberate modification of an organism's DNA to achieve desired traits or outcomes. This technology allows scientists to add, remove, or alter specific genes within an organism's genome. It has numerous applications across various fields, including medicine, agriculture, and biotechnology.

Steps involved in genetic engineering:

1. Identify the Gene of Interest

2. Gene Cloning

- Extract DNA
- PCR (Polymerase Chain Reaction)
- Gene Cloning

3. Gene Insertion (Transformation)

- Vector Delivery
 - Electroporation
 - Microinjection
 - Biolistics (Gene Gun).
 - Agrobacterium-mediated transformation
 - Viral Vectors

4. Selection and Screening

- Selection Markers
- Screening

5. Regeneration and Growth

6. Analysis and Characterization

7. Regulatory Approval (if applicable)

- Safety and Environmental Testing
- Regulatory Agencies

8. Commercial Production

9. Post-release Monitoring

Application of genetic engineering:

1. Agriculture

- Genetically Modified Crops (GMOs).

2. Medicine

- Gene Therapy
- Production of Therapeutic Proteins:
- Vaccines:

3. Industrial Biotechnology

- Biofuels
- Biodegradable Plastics
- Enzyme Production
- Bioremediation.

4. Environmental Applications

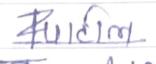
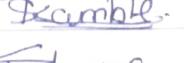
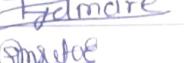
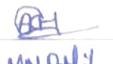
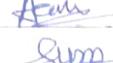
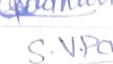
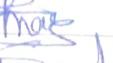
- Environmental Monitoring:
- Carbon Sequestration: Scientists are exploring genetic modifications to plants and algae to enhance their ability to absorb and store carbon dioxide, helping to combat climate change
- Invasive Species Control: Genetic engineering may be used to develop organisms that can control invasive species, such as modifying mosquitoes to reduce populations that transmit diseases like malaria or Zika virus.

5. Forensic Science

- DNA Fingerprinting: Genetic engineering techniques are used to analyze DNA in forensic investigations, helping to identify individuals involved in crimes or paternity cases.
- Gene Editing in Forensics: Forensic applications also benefit from gene editing techniques, such as CRISPR, to understand genetic links or reconstruct genetic data.

Mahatma Phule Shikshan SanStha's
Karmaveer Bhauraao Patil College, Urur Islampur
Department of Microbiology
Year 2024-2025
Guest lecture –“Genetic Engineering”

Date: 13/03/2025

Sr. No.	Student Name	Sign
1.	Patil Priyanka Ashok	
2.	Kamble Tejaswini shrikant	
3.	Samruddhi Ramchandra Yelmarne	
4.	Shahina Mehbub sufar	
5.	Gagatasi N. Yadav Patil	
6.	Jadhav Sayali Vilas	
7.	Patil Bhakti Abhijeet	
8.	Suchitra Nikzam Dhanawade	
9.	Aasiya Asif Hacuddar	
10.	Nikhita Numdev Patil	
11.	Gaurali sachin Patil	
12.	Pranita Suresh kumbhar	
13.	Alfiya Fakruddin Patel	
14.	Shruti Umesh Madane	
15.	Gayatri Rajendra Mulik	
16.	Gouri Rajendra Mulik	
17.	Neha Suresh chougule	
18.	Suchit Anuradha vishwas Jadhav.	
19.	Rukhsar Bashir Mulani	
20.	Sakshi Suhas Jadhav	
21.	Shweta Vijay Patil	
22.	Sakshi Sunil Navale	
23.	Prachi Tanaji Mane	
24.	Soham Rojesh Mandale	
25.	Haresh Tukaram Kesaore	
26.	Pavan Vijay Jadhav	

27.	Ganesh Chandreukant Maske.	<u>Ganesh</u>
28.	Kailas Uttam Jadhav	<u>KJadhav</u>
29.	Virendra Vinayak Gujar	<u>Vinayak</u>
30.	Pratik Ramesh Jadhav	<u>PratikJadhav</u>
31.	Prasad Shahaji Jadhav	<u>PrasadJadhav</u>
32.	Pratik Mohan Patil	<u>Pratik</u>
33.	Ajinkya Shivaji Mane	<u>Ajinkya</u>
34.	Pranav Ravindra Jadhav	<u>Pranav</u>
35.	Harsheedhan Bhagwan. Dinde.	<u>H.Bhagwan</u>
36.	Pratik Vijay pharne	<u>Pratik</u>
37.	Viraj Vijay patil	<u>Viraj</u>
38.	Pranav mohnsing Jadhav	<u>Pranav</u>
39.	Viraj Pradeep Salunkhe	<u>Viraj</u>
40.	Pranav Manik Mali	<u>Pranav</u>
41.	Ruturaj Dipak gavade.	<u>R.D.G</u>
42.	Jay Prashant Kulkarni	<u>Prashant</u>
43.	Mukund Rajaram Kembale	<u>Mukembale</u>
44.	Vishwanbari Sachin shinde	<u>Vishwanbari</u>
45.	Rutuja Rajendra shingare	<u>Rutuja</u>
46.	Shrutiika Manik Mati	<u>Shrutiika</u>
47.	Madhuri shahaji Dhumal	<u>Madhuri</u>
48.	saloni suril Dhumal	<u>S.S.Dhumal</u>
49.	sanik santosh Gurav.	<u>Sanik</u>

