RAMAIAH
College of Arts, Science
& Commerce - Autonomous

REF: MSRCASC/MB/2024-2025/

Date: 18.08.2025

CIRCULAR

DEPARTMENT OF MICROBIOLOGY

Guest lecture on "Nucleic acids and its components"

This is to inform all 3rd semester B.Sc. students of M. S. Ramaiah College of Arts, Science and Commerce-Autonomous that Department of Microbiology is organizing a **Guest lecture**on**"Nucleic acids and its components"** on21st August 2025.The lecture will be delivered by Ms. Padma S., Teaching Assistant at IISc.

The main objective of the guest lecture is to enhance students' understanding of molecular biology concepts, foster critical thinking, and inspire curiosity in scientific learning.

Date: 21st August 2025

Time:11:30 AM-1 PM

Venue: Kuvempu seminar hall, MSRCASC

HOD

Principal 18/8/25

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INSTITUTION'S INNOVATION COUNCIL

DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

Department of Microbiology organizes

Guest Lecture on "Nucleic acids and its components"

3rd semester B.Sc. students

Date: 21-08-2025

Venue: Kuvempu seminar Hall, RCASC

Ms. Padma S

Teaching Assistant, UG Biology
Indian Institute of Science, Bangalore

- **Teaching Background** with two years experience of handling UG Biology lab Courses in IISC, Bangalore along with 5+ years of teaching experience in biology (ICSE & NEET level) and a passion for science outreach and conservation.
- **Research Background** includes work on pest management, spider and insect diversity, and vector-pathogen interactions—IWST, Bangalore and molecular biology (DNA extraction, PCR, ELISA), microscopy, insect rearing, and biodiversity surveys.
- **Qualified & Recognized**, having cleared national-level exams like KSET (2020), ICMR-JRF (2023), and GATE-XL (2024), and contributed to over 20 scientific publications.

Dr. Swetha. P
Co-Ordinator

Dr. Prasanna Srinivas R
Head of the Department

Dr. Pushpa. H
Principal

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DEPARTMENT OF MICROBIOLOGY

REPORT ON

Guest Lecture on "Nucleic acids and its components"

Title: Nucleic acids and its components

Date: 21st August 2025

Venue: Kuvempu seminar hall, MSRCASC

Participants: II Year BSc students

No. of Participants: 54

Objective:

- **To educate and empower students about the structure, types, and biological significance of nucleic acids (DNA and RNA).**
- **To promote understanding of the fundamental components of nucleic acids such as nucleotides, nitrogenous bases, sugars, and phosphate groups.**
- **To encourage responsible scientific learning through critical thinking, discussion, and application of knowledge in molecular biology and biotechnology.**
- **To incorporate innovative pedagogy approaches such as interactive models, case-based learning, and digital simulations for better conceptual clarity and engagement.**

A guest lecture on "Nucleic Acids and its Components" was organized for the 3rd semester B.Sc. students on 21st August 2025from 11:30 AM to 1:00 PM at the Kuvempu Seminar Hall, RCASC. The session was delivered by Ms. Padma S, Teaching Assistant, UG Biology, Indian Institute of Science, Bangalore, and was coordinated by Dr. Swetha P., Assistant Professor, Department of Microbiology. The lecture provided an insightful overview of the structure, types, and biological significance of nucleic acids, emphasizing their role in heredity, gene expression, and cellular regulation. Innovative pedagogy methods such as interactive discussions and conceptual illustrations were employed to enhance student engagement and understanding. The session concluded with an interactive Q&A, where students clarified their doubts and expressed appreciation for the opportunity to deepen their knowledge in molecular biology.The Principal, Dr. Pushpa H extended support for the event and expressed appreciation for their efforts.

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Outcome:

The guest lecture on *"Nucleic Acids and its Components"* enabled the 3rd semester B.Sc. students to gain a comprehensive understanding of the fundamental building blocks of life. Students were able to:

- Understand the structure and components of nucleic acids (DNA and RNA) and their biological significance.
- Recognize the role of nucleotides, nitrogenous bases, sugars, and phosphate groups in nucleic acid architecture.
- Appreciate the importance of nucleic acids in heredity, gene expression, and cellular regulation.
- Engage in interactive learning through innovative pedagogy methods, improving conceptual clarity.
- Develop critical thinking skills by connecting theoretical concepts with real-world applications in health and biotechnology.

Glimpse of the event

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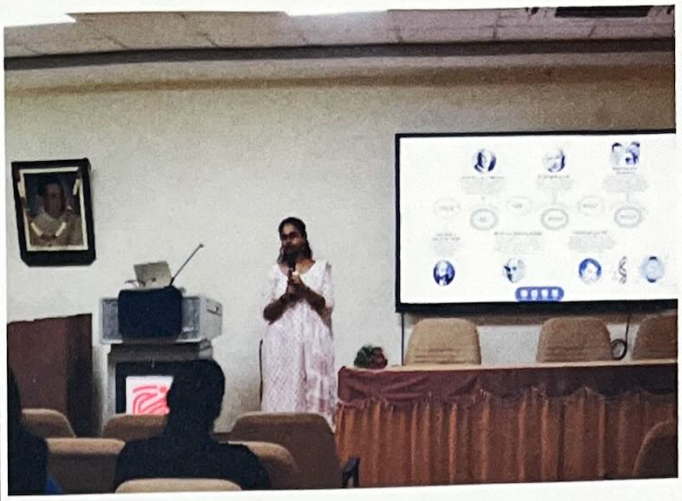

Co-ordinator

Dr. Swetha. P

HOD

Dr. Prasanna Srinivas

Principal 2/9/25

Dr. Pushpa. H

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INSTITUTION'S INNOVATION COUNCIL

DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

M.S Ramaiah College of Arts Science and Commerce-Autonomous

Bangalore-54

Department of Microbiology

In association with, IIC and DBT

Guest Lecture

Nucleic acids and its components

Date: 21-08-2025

Student's attendance list

Sl.no	Student Name	Class /Sec	Signature
1.	RACHANA.S	Bsc. 'B'	
2.	RIKISHA.J	Bsc. 'B'	
3.	NIKHIL S. JAIN	BSc. 'B'	
4.	ROHIT SHARMA	Bsc -'B'	
05.	HUSN ARA.F	'A' BSC	
06.	AKSHAYA.N	'A' BSc	
07	AMAN RAJ	'A' BSC	
08	JIGAR	'A' BSC	
09.	ANANYA	'A' BSC	
10	ANKITA.N	'A' BSC	
11	KHUSHI	A BSC	
12	AKASH MISHRA	A BSC	
13	ASHMITTA	A BSC	
14	SINCHANA.K	'C' BSC	
15.	Smaran K.S	'C' BSC	
16	Sandhya Guru Nayak	'C' Bsc	
17	Lekhana	'C' Bsc	
18	Raksha M	'C' BSc	
19	Balaji Gowda	'C' BSc	
20	Varshitha. N	'C' BSc	
21	Poornima Y.H	'C' BSc	
22	Muttahira Nasreen	'C' BSC	
23	Poojalakshmi KS	'C' BSC	
24	ND Chirag	'B' BSc	
25	Nishikanta Singh	'B' BSC	
26	Deb Sharma	'A' BSC	Deb Sharma
27	MADIHA HANIEF	'A' BSC	

Dr. Sweta. P
Coordinator

Dr. Prashantha Srinivas
HOD

28	KARUNA S. PUROHIT	'A' BSC	
29	MADHUMITHA A	'C' BSC	
30	IKSHITA BHAT	'C' BSC	
31	ANANYA S	'C' BSC	
32	Prachi P	'C' BSC	
33	AADISHREE V. MUDAKAVI	'C' BSC	
34	Aastha Priya	'C' BSC	
35	Anushka Bose	'C' BSC	
36	J. Vijay Vardhan	'C' BSC	
37	Madhumeeta	'C' BSC	
38	Sejan Ali	'B' BSC	
39	Thejaswini C.N	'B' BSC	
40	Yajana M	'B' BSC	
41	Thrupthi	'B' BSC	
42	A. Krishna Samyuktha	'B' BSC	
43	Sakthi Vibhushani	'B' BSC	
44	Shrinidhi Patil	" "	
45	Rupooshree chakraborty	" "	
46	Tanmayee S	'B' BSC	
47	Rakathiksha P	'B' BSC	
48	Varsha M	'B' BSC	
50	Shambhavi K	'C' BSC	
51	Syed Fouzan	'B' BSC	
52	Shruthika R	'B' BSC	
53	Sana khan	'B' BSC	
54	A.G Keerthana	'B' BSC	

Dr. Prasanna Srinivas
HOD

Dr. Swetha P
Coordinator