

## **CIRCULAR**

### **DEPARTMENT OF MICROBIOLOGY**

#### **Guest Lecture on “Avenues in Biology”**


This is to inform all the I year students M. S. Ramaiah College of Arts, Science and Commerce-Autonomous that the Department of Microbiology is organizing a guest lecture as a part of the induction program for I year BSc students on Avenues in Biology.

The guest speaker is **Dr. Sushama Yermal**, Teacher's Training Coordinator, Science Education & Outreach Office, National Center for Biological Sciences (NCBS)-TIFR, Bangalore. The main objective of this talk is to introduce undergraduate students to the diverse and emerging fields within biological sciences, inspire curiosity and exploration, and provide insights into potential academic, research, and career pathways in biology.

**Date:** 18<sup>th</sup> July 2025

**Time:** 1:30pm to 2:30pm

**Venue:** MSRCASC Campus-Gallery Room, 6<sup>th</sup> Floor



**HOD**



**Principal** 16/7/25  
Principal  
M.S.Ramaiah College of Arts, Science &  
Commerce-Autonomous  
MSRIT POST, MSR Nagar  
Bengaluru - 560 054

# Department of Microbiology in association with IQAC

Organizes

## Invited Talk

on

**Avenues in Biology**

**On the occasion of Induction program for 1 year  
UG students of 2025-26**

**Dr. Sushama Yermal**

Teacher's Training Coordinator  
Science Education & Outreach Office  
National Center for Biological Sciences (NCBS)-TIFR  
Bangalore



**Objective:** The main objective of this talk is to introduce undergraduate students to the diverse and emerging fields within biological sciences, inspire curiosity and exploration, and provide insights into potential academic, research, and career pathways in biology.

### **Outcome:**

Introduction of students to the vast and dynamic opportunities within the biological sciences, and creating an awareness of diverse career paths, including research, healthcare and many more.

**Date: 18th July 2025**

**Time: 1:30 to 2:30pm**

**Venue: Gallery room, 6<sup>th</sup> Floor, MSRCASC**

**Coordinators: Dr. Arvindganth and Dr. Tejaswini H K**

**HOD**

**Mrs. Soumya S S**

**Vice Principal**

**Prof. B S Jayarama**

**Principal**

**Dr. Pushpa H**



## DEPARTMENT OF MICROBIOLOGY

### REPORT ON GUEST LECTURE

**Title:** Guest Lecture on “Avenues in Biology”

**Date:** 18<sup>th</sup> July 2025

**Venue:** Gallery Room, 6<sup>th</sup> Floor

**Participants:** I Year BSc students

**Resource Persons:** Dr. Sushama Yermal, Teacher’s Training Coordinator, Science Education & Outreach Office, National Centre for Biological Sciences (NCBS)-TIFR, Bangalore.

**No. of Participants:** 86

#### Objective:

- To introduce students to the interdisciplinary nature of modern biology.
- To provide insights into emerging and traditional subfields such as biotechnology, genetics, microbiology, bioinformatics, and ecology.
- To guide students on the academic and professional opportunities available in biology.
- To inspire students to pursue higher studies, research, or careers in biology-related sectors.
- To discuss the role of innovation, technology, and industry collaboration in shaping the future of biological sciences.

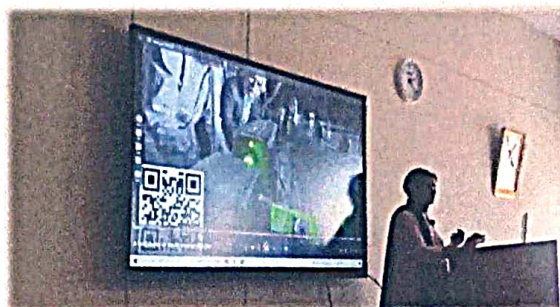
The Department of Microbiology organized a guest lecture titled “*Avenues in Biology*” on 18<sup>th</sup> July 2025 as part of the induction program for first year undergraduate students. The event aimed to broaden students’ understanding of the vast and dynamic field of biology,



introduce them to contemporary research areas, and help them explore potential career paths in life sciences.

The guest speaker for the session was **Dr. Sushama Yermal**, Teacher's Training Coordinator, Science Education & Outreach Office, National Centre for Biological Sciences (NCBS)-TIFR, Bangalore, a renowned researcher and academician with significant contributions to molecular biology, environmental sciences, and science education. The session was attended by B.Sc. Life Sciences and Microbiology students, along with faculty members from various departments.

Dr. Sushama began the session by tracing the evolution of biology from classical botany and zoology to today's cutting-edge fields like synthetic biology, systems biology, and computational biology. The speaker emphasized the integration of



biology with other disciplines such as computer science (bioinformatics), chemistry (biochemistry), physics (biophysics), and engineering (biomedical and genetic engineering). Real-world examples were shared to explain how biology plays a role in addressing global issues such as climate change, pandemics, food security, and conservation. The lecture also included an overview of government and private sector roles, funding agencies, research fellowships, and internship programs available for students.



Career tracks in academia, research, healthcare, pharmaceutical industry, environmental consultancy, science communication, and entrepreneurship were discussed. Dr. Yermal encouraged students to cultivate scientific temper, critical thinking, and lifelong learning

habits to thrive in the dynamic field of biology.

The session was interactive, with enthusiastic participation from students who raised questions about: Choosing electives and specializations, Skills required for research careers, Opportunities in fields like bioinformatics, marine biology, and industrial microbiology and Internships and scholarships for undergraduate students.

The speaker provided practical advice and shared useful resources, websites, and contact points for further exploration.



**Outcomes of the Guest Lecture:**

- Students gained clarity on various domains within biology and their interconnections.
- Increased awareness of higher education and research opportunities both in India and abroad.
- Motivation to pursue interdisciplinary learning and research-oriented projects.
- Enhanced understanding of how biology contributes to solving real-world problems.
- Exposure to career options beyond conventional teaching or laboratory roles, including entrepreneurship, science writing, patent analysis, and environmental policy.

**Conclusion:**

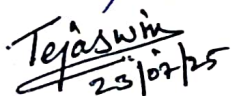
The guest lecture on "*Avenues in Biology*" was a resounding success and provided students with a roadmap for their academic and professional journey. The department expresses heartfelt gratitude to Dr. Sushama Yermal for delivering an enriching session and to all the first year students for their active participation. Such engagements will continue to be a part of the department's mission to promote academic excellence and career readiness among life science students.

**Coordinators:**

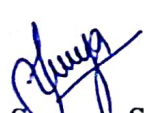
Dr. Arvindganth R



Dr. Tejaswini H K



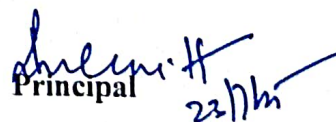
23/02/25



Mrs. Soumya S Shanbhag

Assistant Professor and Head

UG Department of Microbiology.



Principal  
23/02/25



**Department of Microbiology**  
**Invited Talk on Induction Program for I year BSc**  
**Avenues in Biology**  
**Attendance**  
**18<sup>th</sup> July 2025**

Sl. No.	Name of the Student	Section	Signature
1	K.M Yukthi		Yhuf.
2	Madhumita Kishore		Madhumita.K
3	Sudeshna Majumder		Sudeshna Majumder
4	Chaitra kulkarni		(Bkukar)
5	Samyuktha .A		Samyuktha A
6	Namratha .S. Mane		N.S.
7	Manjima Ghoshal		Manjima
8	Dheemi Singh		Dheemi Singh
9	Rea Bedre		Rea Bedre
10	Shree Raksha. M.R		Shree
11	Inchara. R		Inchara R
12	K. Thanuja		K. Thanuja
13	Harika. K.B		Harika. K.B.
14	Meghana K.H		Meghana
15	Lahari. K		Lahari
16	Gargi Chakraborty		Gargi
17	Shraddha Mukherjee		Shraddha
18	Bhoomika. S		Bhoomika
19	ASFIYA BAREEN		Asfiya
20	Snehaakshi Mukherjee		Snehaakshi
21	Harshitha.M.		Harshitha
22	Ikshika. J		Ikshika
23	Renuka.MK		Renuka.MK
24	Harshitha.B		Harshitha
25	Pallavi. Kiran. Mandee		Pallavi

Shree H  
23/7



Department of Microbiology  
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18<sup>th</sup> July 2025

Sl. No.	Name of the Student	Section	Signature
1	ASFIYA BAREEN		Asfiya
2	Snehakshi Mukherjee		Snehakshi Mukherjee
3	Harshitha.M		Harshitha.M
4	Akshika.T		Akshika
5	Renuka.M.R.		Renuka.M.R.
6	Harshitha.B		Harshitha.B
7	Spoorthi.P		Spoorthi.P
8	Khusmi Prayapat		Khusmi
9	Hamsa.G		Hamsa.G
10	DEEPTHSRI.R		Deepthsri.R
11	Bindhu.N		Bindhu.N
12	R. H. Sharon		R.H. Sharon
13	Ashmita Kishoreyogi		Ashmita
14	Chaitanya.R		Chaitanya
15	Hamsa.D.Y		Hamsa.D.Y
16	Hanasi B.S		Hanasi
17	Shreyanka T.P.		Shreyanka
18	Shreyas Dey		Shreyas Dey
19	Anurag Roy		Anurag Roy
20	Ayush Kumar		Ayush Kumar
21	Niranjan. H.R.		Niranjan.H.R.
22	Mithun Gpuda-D		Mithun
23	Chelkar B.S		Chelkar
24	Avinup Mallick		Avinup Mallick
25	Veeran Sai Kumar.		Veeran Sai Kumar.

Shreem.H

**RAMAIAH**College of Arts, Science  
& Commerce - Autonomous

**Department of Microbiology**  
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**18<sup>th</sup> July 2025**

Sl. No.	Name of the Student	Section	Signature
1	Abhishek. S. Nair	Bsc biotechnology	<i>Abhishek</i>
2	Dev Saikia	Bsc biotech	<i>Dev</i>
3	Vishnu Tej. AKULA	Bsc biotech	<i>Vishnu</i>
4	V. Yashas	Bsc biotech	<i>Yashas</i>
5	Shreya. S. Harwar	Bsc Biotech	<i>Shreya</i>
6	Panjana. P	Bsc Biotech	<i>Panjana. P.</i>
7	Jeevika Patil R. M	Bsc. Biotech	<i>Jeevika</i>
8	Amrutha. A. R	BSC.Biotech	<i>Amrutha</i>
9	Shravani Priya. K	BSC. Biotech	<i>Shravani Priya. K</i>
10	Alina Fatima	B.Sc Biotech	<i>Alina</i>
11	Glansy. R	BSc Biotech	<i>Glansy. R.</i>
12	Bhumnika. B. N	B Sc Biotech	<i>Bhumnika</i>
13	Banbijita Bhattacharjee	B.Sc. Biotech	<i>Banbijita</i>
14	Abhishek Anand	B.Sc Genetics	<i>Abhishek</i>
15	Ashrita. D. Patil	BSc. BT	<i>Ashrita</i>
16	Hasika Sunkavalli	BSC. BT	<i>Hasika</i>
17	Prerna. R.	B.SC BT	<i>Prerna R.</i>
18	Hari Priya. P.	B.SC BT	<i>Hari Priya</i>
19	MO Puri Sparsha	B.sc BT	<i>Sparsha. M</i>
20	Sanmaya. K	Bsc BT	<i>Sanmaya</i>
21	Anushree. L	BSC. BT	<i>Anushree</i>
22	Nihara KP	Bsc BT	<i>Nihara</i>
23	JAYAPRATHA PILLAI	Bsc BT	<i>Jayapatha</i>
24	Ashna. R	BSC BT	<i>Ashna</i>
25	D. Manasa	BSC. BT	<i>Manasa</i>

*Chemist*  
23/7/2025



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Sl. No.	Name of the Student	Section	Signature
1	Katypini Rai	BSc. BT/MB/ Chem	<i>Katypini Rai</i>
2	Disha . C.R	BSc BT	<i>Disha C.R</i>
3	Tanisha Tanu	BSc BT	<i>Tanisha</i>
4	Jaya Sinha	BSc BT	<i>Jaya</i>
5	Nandhini . H	BSc B T	<i>Nandhini.H</i>
6	SUKANYA .S.M.	Bsc. Biotech	<i>Sukanya S.M.</i>
7	Prarthana.Kori	BSc. MB/Bcl/	<i>Prarthana</i>
8	Sinchana . H P	B.Sc Genetics	<i>Sinchana HP</i>
9	K. Tharuja	BSc Gen	<i>K. Tharuja</i>
10	Heheba Mathew	BSc Gen	<i>Heheba Mathew</i>
11	Siri Khandana C.S	BSc Gen	<i>Siri C. handana C.S</i>
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*Shreemitt*  
27/7/25