



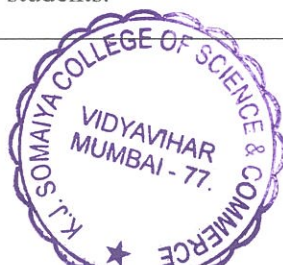
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K J Somaia College of Science & Commerce



Event Report

Committee/ Department Name: Microbiology		Academic Year 2021-22
Title of the Event	Bridge Course- Basic Techniques in Microbiology for S.Y.B.Sc. and T.Y.B.Sc. students of Microbiology	
Type of the Event (Webinar/Seminar / Conference /FDP / Workshop /Training / Guest Lecture)	Offline bridge course, hands-on lab sessions for six days	
Level of Organization (Local/State National /International/ Intercollegiate /Intra-collegiate)	Local	
Collaborators if any	Nil	
Date of the event	From 18-04-2022 till 22-04-2022	
Time	8 am- 2 pm, 11:30 am-5:30 pm	
Venue	Department of Microbiology, undergraduate Laboratory	
Name of the Resource Person \ Guest	Mr. Shabib Khan, Assistant Professor in Microbiology	
Brief profile of the resource person	Mr. Shabib Khan is currently working as an Assistant Professor in Microbiology. He has conducted several online sessions on LMS-Edmodo, Google Classroom and other ICT-based teaching, learning and assessment tools. His area of subject expertise is Biosurfactants, and he is presently pursuing his Ph.D. at the Department of Microbiology, K. J. Somaia College of Science and Commerce, Mumbai.	
Objective of the Event	To demonstrate basic techniques in Microbiology to S.Y.B.Sc. and T.Y.B.Sc. students.	



Shabib
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Report (Not more than 500 words)	The bridge course was designed for the S.Y.B.Sc. and T.Y.B.Sc. students of Microbiology. Laboratory sessions consisted of hands-on lab sessions with practical taught at F.Y.B.Sc S.Y.B.Sc. and T.Y.B.Sc.
Number of beneficiaries	Students: 44
Expected Outcome	Students would explore and implement the basic techniques in Microbiology.
Documents Attached	i) Attendance ii) Copy of Feedback iii) Flyer copy iv) Feedback Analysis Report

NAAC Criterion No.	V	Sub-Criterion No	5.4.1.f
Vision Criterion No.	05		
Photos (Two Geotagged) 1. Resource person engaging the session 2. Ongoin g session *In case of multiple			



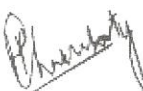
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sessions attach day-wise/ session-wise photos	
Name & Signature of Convenor/Head of the Department: Mrs. Hemlatta Chakraborty	
	
Name & Signature of Co-Convenor- Nil	


Note:

- This report has to be filled within a week after every event organized by the committee
- Mail the final report to iqac.kjssc2003@somaiya.edu and
- NAAC Criterion for reference

Criterion I	Curricular Aspects (planning & Implementation)	Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation	Criterion VI	Governance
Criterion III	Research, Innovations & Extension	Criterion VII	Institutional Values & Best Practices
Criterion IV	Learning Resources and Infrastructure		

- Vision Criterion for Reference
 1. To equip the students with advanced knowledge and skills in their chosen vocation.
 2. To provide value-based education and opportunities to students.
 3. To help them to face challenges in life.
 4. To nurture a scientific attitude, temperament and culture among the students.
 5. To continually review, develop and renew the approach to build India of the Founder's dream.




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K. J. Somaia College of Science and Commerce Autonomous –

Affiliated to University of Mumbai Vidya Vihar

Mumbai – 400077 Reaccredited 'A' grade by NAAC

Department of Microbiology

Bridge Course-Basic Techniques in Microbiology

Class: S.Y.B.Sc. 2021-2022

Duration: 18/04/2022 - 22/04/2022

Number of students: Approximately 35

Venue: Undergraduate Microbiology laboratory

Rationale: Due to the pandemic and associated lockdown, the learners could not implement practical knowledge and skills in the laboratories and are not completely familiar with the basic aseptic practical techniques in Microbiology. Hence, a bridge course would serve the purpose to fill in the gap between theory and practical aspect of the subject and prepare the current batch of S.Y.B.Sc. students for practical courses in T.Y.B.Sc. Microbiology.

Learning objective: To train the learners in basic practical techniques in Microbiology

Course mapping: Based on F.Y.B.Sc. and S.Y.B.Sc. practical syllabi

Suggested reading: Book and author

1. Microbiology-Prescott
2. Microbiology- Michael Pelczar
3. Fundamentals of Bacteriology- S



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Course Structure:

Sr. no.	Date	Time	Duration	Topic	Initial knowledge/ concepts required	Learning outcome-- At the end of the session, the learner would be able to:
1	18-04-2022 Day-1	8:00 am- 2:00 pm (30 minutes lunch break)	6 hours	Use of Monoplan balance, media preparation and sterilization use of Autoclave, use of Incubator, Hot-air oven, Colorimeter and Micropipettes	Principle and working of Monoplan balance, different types of media, principle and use of Incubator, Autoclave, Hot-air oven, Colorimeter and Micropipettes.	1. Use Monoplan balance, Incubator, Autoclave, Hot-air oven, Colorimeter, Micropipettes for practical purpose. 2. Prepare and sterilize media. 3. Prepare chemical solutions of a particular concentration.
2	19-04-2022 Day-2	8:00 am- 2:00 pm (30 minutes lunch break)	6 hours	Preparation of chemical solutions Follow-up of Day-1 Qualitative tests to detect carbohydrate, amino-acid and nucleic acid in a given solution	Concepts of Normality, Molarity, pH and Buffer Biomolecules- structure and function	1. Detect the presence of carbohydrate, amino-acid and nucleic acid in a given solution.



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3	20-04-2022 Day-3	11:30 am - 5:30 pm (30 minutes lunch break)	6 hours	Isolation of bacteria on sterile Nutrient agar, MacConkey agar, SIBA, Salt-Mannitol agar	Different types of media, their composition and principle	1. Isolate bacteria on different selective media. 2. Isolate bacteria on general media.
				Gram staining	Principle and theory of Gram staining	1. Differentiate between Gram positive and Gramnegative organisms in a given suspension.
				Catalase test and Coagulase test	Principle, method and significance of Catalase and Coagulase tests	1. Detect the ability of a given bacterial isolate to produce Catalase and Coagulase.
				Follow-up of Day-2 Study of colony characteristics Isolation of yeast on sterile Sabouraud agar	Colony characteristics and their use in Taxonomy Principle and composition of Sabouraud agar	1. Study colony characteristics of a given isolate on different media. 1. Isolate yeast on Sabouraud agar
				Viable count: Spread plate method	Principle, method and calculation of spread plate method	1. Enumerate the number of viable organisms in a given culture suspension



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				MIC of an antibiotic	Principle, method and significance of MIC. Concepts of tolerance and MIC	1. Determine the MIC of given antibiotic.
				Fungal wet mount	Morphology of fungi: <i>Penicillium</i> and <i>Aspergillus</i>	1. Study fungal morphology microscopically
4	21-04-2022 Day-4	8:00 am – 2 pm (30 minutes lunch break)	6 hours	Follow-up of Day-3 Determination of optimum temperature for a bacterial isolate	Role of temperature in bacterial growth	1. Evaluate the effect of temperature on bacterial growth.
				Viable count: Pour plate method	Principle, method and calculation of pour-plate method	1. Enumerate the number of viable organisms in a given culture suspension
				AST- Kirby-Bauer method	Principle, method and significance of Kirby-Bauer method. Mode of action of some chemotherapeutic agents.	1. Determine the AST profile of a pathogen. 2. Select appropriate drugs/chemotherapeutic agents for a treatment.



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5	22-04-2022 Day-5	8:00 am- 2:00 pm (30 minutes lunch break)	6 hours	Follow-up of Day-4 Double immunodiffusion	Concepts of antigen, antibody, single and double diffusion and significance of the method	1. Detect if given two antigens are related to each other
				Study of colorimeter: Determination of λ_{max} of a solution	Principle and working of Colorimeter	1. Determine λ_{max} of asolution.
				Estimation of reducing sugar by DNSA method	Principle of DNSA method for estimation of reducing sugar	1. Estimate concentration of a reducing sugar in a given solution.

Practical in-charge:

Shabib Khan

Assistant Professor in Microbiology



Shabib Khan
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BRIDGE COURSE - BASIC TECHNIQUES IN MICROBIOLOGY

S.Y.B.Sc 2021-22

ROLL NO & NAME	18-04-2022	19-04-2022	20-04-2022	21-04-2022	22-04-2022
651 Tejas Ambre	A	A	A	A	A
652 Anam Ansari	A	A	A	A	A
653 Rucha Bhopalkar	A	A	A	A	A
654 Pooja Bhowmik	P Bhowmik	Pooja Bhowmik	P Bhowmik	P Bhowmik	P Bhowmik
655 Puspita Bisoyi	A	Puspita	Puspita	Puspita	Puspita
656 Aditi Bodake	Aditi	Aditi	Aditi	Aditi	Aditi
657 Vedika Chandak	Vedika	Vedika	Vedika	A	A
658 Suraj Chaudhari	S Chaudhari	S Chaudhari	S Chaudhari	S Chaudhari	S Chaudhari
659 Yash Dabholkar	Dabholkar	Dabholkar	Dabholkar	Dabholkar	A
660 Kaveri Dubey	Kaveri Dubey	Kaveri Dubey	Kaveri Dubey	Kaveri Dubey	Kaveri Dubey
661 Rashi Gangar	Rashi	Rashi	Rashi	Rashi	Rashi
662 Disha Gangurde	Disha	Disha	Disha	A	Disha
663 Rasika Gawade	Rasika	Rasika	Rasika	Rasika	Rasika
664 Gauri Gurav	Gauri	Gauri	A	A	A
665 Smriti Hadkar	Shadkas	Shadkas	Shadkas	Shadkas	Shadkas
666 Apeksha Jadhav	Apeksha	Apeksha	Apeksha	Apeksha	Apeksha
667 Gaurav Jaiswal	Gaurav	Gaurav	Gaurav	A	A
668 Disha Joshi	Disha	Disha	A	Disha	Disha
669 Dhanashree Kadam	Kadam	Kadam	Kadam	Kadam	Kadam
670 Karan Karajagi	Karan	Karan	Karan	Karan	Karan
671 Eilaf Khan	Eilaf	Eilaf	Eilaf	Eilaf	Eilaf
672 Shifa Khatri	A	A	A	A	A
673 Kumudini Khedekar	Khedekar	Khedekar	Khedekar	Khedekar	Khedekar
674 Vaishali Kokate	A	A	A	A	A
675 Remeza Lopes	A	A	A	A	A
676 Ekta Mishra	Mishra	Mishra	Mishra	Mishra	Mishra
677 Meenakshi Nag	M N	M N	M N	M N	M N
678 Chintan Panchal	Chintan	Chintan	Chintan	Chintan	Chintan

NO & NAME	18-04-22	19-04-22	20-04-22	21-04-22	22-04-22
679 Laxmi Pandey	A	A	A	A	A
680 Dev Patel	A	A	A	A	A
681 Krisha Patel	A	A	A	A	A
682 Ved Patel	A	A	A	A	A
683 Namrata Patil	A	A	A	A	A
684 Sakshi Patil	S Patil	S Patil	S Patil	S Patil	S Patil
685 Muskan Qureshi	A	A	A	A	A
686 Pooja Rahane	A	A	A	A	A
687 Chinar Rajgor	A	A	A	A	A
688 Aarya Rane	Rane	Rane	Rane	Rane	Rane
689 Krupa Rathod	A	A	A	A	A
690 Mahavirsingh Rathod	A	A	A	A	A
691 Sakshi Salunke	S Salunke	S Salunke	S Salunke	S Salunke	S Salunke
692 Shruti Savia	S Shrivastava	S Shrivastava	S Shrivastava	S Shrivastava	S Shrivastava
693 Darshit Shah	D Shah	D Shah	D Shah	D Shah	D Shah
694 Muskan Shaikh	Muskan	Muskan	Muskan	Muskan	Muskan
696 Nandini Singh	N Singh	N Singh	A	N Singh	N Singh
697 Shreya Thakkar	Shakkar	Shreya	Shakkar	Shakkar	Shakkar
698 Tamanna Thakkar	A	A	A	A	A
699 Simran Tiwari	A	Simran	Simran	Simran	Simran
700 Karan Rajde	Karan	A	A	A	A
701 Vansheet Shah	Vansheet	Vansheet	Vansheet	Vansheet	Vansheet



Principal

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Name	T.Y. B.Sc				
	18/4/22	19/4/2022	20/4/22	21-04-22	22-04-22
1) Dhriti Kataria	Dhriti	A	A	Dhriti	Dhriti
2) Neha. Volontre	Neha	Neha	A	Neha	Neha
3) Payal Bhanushali	Payal	Payal	Payal	Payal	Payal
4) Swati Sonar	Swati	Swati	Swati	Swati	Swati
5) Ishika Nepali	Ishika	Ishika	Ishika	Ishika	Ishika
6) Jay Pradhan	Jay	Jay	Jay	Jay	Jay
7) Sakshi Tripathi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
8) Ankita Jadhav	Ankita	A	A	Ankita	Ankita
9) Anindita Maudal	Anindita	Anindita	Anindita	Anindita	Anindita
10) Noza Mohamed usman mohammed oarif	Noza	Noza	Noza	Noza	Noza



Mshw
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6/24/22, 11:05 PM 22-04-2022, Feedback form for a Bridge course- Basic Techniques in Microbiology

22-04-2022, Feedback form for a Bridge course-Basic Techniques in Microbiology

Department of Microbiology of K. J. Somaiya College of Science and Commerce, organized a Bridge course- Basic Techniques in Microbiology from 18-04-2022 till 22-04-2022 for the S.Y.B.Sc. students. Some T.Y.B.Sc. students also participated in the course.

The respondent's email (**null**) was recorded on submission of this form.

* Required

1. Email *

2. Name *

3. Class *

Mark only one oval.

S.Y.B.Sc.

T.Y.B.Sc.

4. Was the time allotted for the bridge course appropriate? *

Mark only one oval.

Yes

No

May be



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6/24/22, 11:05 PM
in Microbiology

22-04-2022, Feedback form for a Bridge course- Basic Techniques

5. Was the course structure planned and shared in advance? *

Mark only one oval.

- Yes
 No

6. Did you gain a hands-on experience on basic techniques in Microbiology? *

Mark only one oval.

- Yes
 No
 Maybe


7. Were the techniques demonstrated in a simpler manner? *

Mark only one oval.

- Yes
 No
 May be

8. Any suggestions / comments: *




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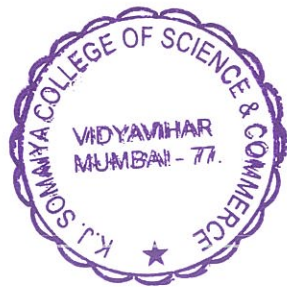


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Google Forms

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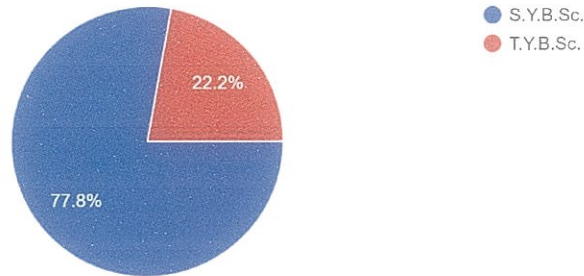
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Feedback Analysis of Bridge Course- Basic Techniques in Microbiology
18-04-2022 - 22-04-2022

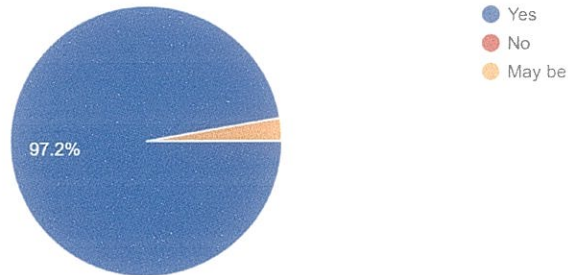
Class

36 responses



Was the time allotted for the bridge course appropriate?

36 responses



Was the course structure planned and shared in advance?

36 responses

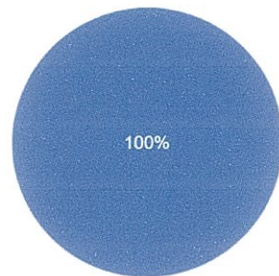


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Did you gain a hands-on experience on basic techniques in Microbiology?

36 responses



- Yes
- No
- Maybe

Were the techniques demonstrated in a simpler manner?

36 responses



- Yes
- No
- Maybe



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Department of Biochemistry

Tutor Mentor Interaction Report

Class: M.Sc-II Semester III 2021-22

No. of Students: 19

Name of the Interacting Mentor: Dr.Samidha Pawaskar, Head, Department of Biochemistry
Meeting attended by: Mrs. Saeema Khan, Dr. Heena Shah, Dr.Ketan Ranade,

During the interaction, all the students expressed the following points –

- All students were satisfied with the current schedule of online lectures and practicals and expressed happiness on teaching skills and quality of all the teachers.
- They whole heartedly appreciated the efforts of all the teachers in making them comfortable during online teaching and also being empathetic towards the internet connectivity issues faced by students.

Student's apprehensions:

- Some students reported that sometimes they face internet connectivity issues and miss lectures and due to the same.
- Students expressed that the last semester was bit rushed due to time constraint, however they were satisfied with pace of lecture in the current semester.
- One of the students showed enthusiasm for opening of the college especially for conducting the offline practical sessions.

Mentor's Suggestion/ Action:

- Dr. Pawaskar madam thanked students for communicating freely regarding the difficulties they faced because of which she said it always becomes easier to resolve any difficulties immediately.
- Dr. Pawaskar madam appreciated students for coming to online practical sessions and she assured students that the offline practical sessions can be scheduled as soon as receiving such directives from the government authorities.



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Department of Biochemistry
Tutor Mentor Interaction Report (2021-2022)

Class: T.Y.B.Sc. - Semester V

No. of Students: 36

Name of the Interacting Mentor: Dr. Samidha Pawaskar, Head, Department of Biochemistry

Meeting attended by: Dr.Heena Shah, Dr.Ketan Ranade, Mrs. Saeema Khan

During the interaction, all the students expressed the following points –

- All students unanimously voiced out that they are satisfied with the online lectures, practicals and reported that they are accustomed and are now comfortable with the online teaching learning process.

Student's apprehensions:

- Some students reported that sometimes they face internet connectivity issues and miss lectures and practicals due to the same.
- One student was little worried about not performing the practicals physically.
- Some students voiced that online practical sessions should not be extended beyond the scheduled time
- Due to the pandemic situation job opportunities are less. Some students expressed their concerns about the same after graduation.
- Two students requested for the clarification on the university affiliation. They were confused that whether the college is affiliated to Mumbai university or Somaiya university.
- Students also requested to conduct the career guidance sessions for the entire class.

Mentor's Suggestion/ Action:

- After listening unwearingly to all the students' apprehensions, the mentor told them that in the current pandemic situation, the online teaching is the only option, which has maintained the continuity in the education system. At the same time we all, together can work on the various issues faced by all of us so as to progressively make this option more effective and useful till offline teaching is allowed.
- HOD requested teachers to take more virtual laboratory sessions by showing them videos so that students will get a feel of offline practical sessions.
- HOD assured students that she will conduct the career guidance sessions for the students.
- Explanation regarding the university affiliation was given to the students. All the doubts regarding the university affiliations were cleared.
- HOD told to students that they should immediately communicate with their teachers if they have any difficulties, so that immediate action can be taken to resolve the difficulties.




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MENTOR-MENTEE INTERACTION REPORT October 2021

Name of the mentor: Medhavini Khare

Class allotted- SYBCOM G

Date of the meeting: 11-10-2021

Number of attendees: 22

Points discussed:

- A meeting was conducted to interact with students.
- Students appreciated the presentation activities conducted by all the departments for internal evaluation.
- They also liked the division of mid-semester examinations into two parts. (15 marks +10 marks)
- Students were also asked if they have faced any problems or want to give any suggestions. However, they didn't mention anything.



Anshu
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MENTOR-MENTEE INTERACTION REPORT January 2022

Name of the mentor: Medhavini Khare

Class allotted- SYBCOM G

Date of the meeting: 12-01-2022

Number of attendees: 22

Points discussed:

- A meeting was conducted to interact with students.
- Students appreciated the presentation activities conducted by all the departments for internal evaluation.
- Students were also asked if they have faced any problems or want to give any suggestions. However, they didn't mention about anything.




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MENTOR-MENTEE INTERACTION REPORT AUGUST 2021

Name of the mentor: Medhavini Khare

Class allotted- SYBCOM G

According to the responses received through the google form, following are the observations.

- Most of the students are pursuing CA/CS along with their B.Com.
- Some students are confused about their career path.
- Some students have concentration problems, stress, illness in family etc.
- Some students have disturbed atmosphere at their home.

Action taken by the mentor

- A meeting was conducted where students were motivated to participate in various activities, pursue courses in order to explore and find their career direction.
- The mentor tried to make mentees comfortable and validate their feelings.
- Students were also advised to introspect. They would write down their strengths and weaknesses and monitor those on regular basis. This exercise would help them to find their own self. This would help them to choose the right career for them.
- Students were also advised to have healthy diet, exercise, adequate sleep and meditation in order to deal with stress. Also, the mentor tried to build trust that they are always free to talk to the mentor personally in case of anything.
- There are certain issues which should not be discussed during the common meeting. The mentor has asked the students to contact personally so that one to one interaction can be arranged to provide further support. If required, the contact of the psychiatrist will be given to the students.



Ms. Khare
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