



Royal College of Arts Science and Commerce (Autonomous)

Affiliated to University of Mumbai

Program: B.Sc.
Course: Microbiology
**Guidelines for Community Engagement
Programme
for Semester: IV**

Syllabus for Undergraduate Programme as per National
Education Policy (NEP-2020) with effect from

Academic year **2025-2026**

Semester IV

Course/ Paper Title	Community Engagement Programme
Course offered as	CEP
Course Code	RUSMBCEP401
Semester	IV
No. of Credits	2
Duration	Field Work and Survey – 40 hrs Planning, Discussion and Report Writing – 20hrs Total – 60 hrs

Sr. No.	Course Learning Objectives
1	To align classroom learnings in Microbiology with awareness about societal issues related to environmental and public health
2	To encourage development of practical skills in data collection, analysis, and interpretation
3	To cultivate a sense of social responsibility and ethical practice in using scientific knowledge to address community challenges
4	To enhance communication, team work, leadership, and awareness-generation skills

Course Outcome:

	On completing the course, the student will be able to:
CO1	Apply basic microbiology concepts to solve or explain community problems
CO2	Collaborate effectively with stakeholders like schools, health centers, environmental organizations
CO3	Demonstrate research skills, documentation
CO4	Work in teams and collaborate to achieve a common goal

Module 1: Orientation and Planning (10 Hours)

- Introduction to CEP and its relevance to NEP-2020.
- Identification of communities for engagement
- Listing of activity plans
- Preparation of schedules

Module 2: Community Engagement Activities (40 Hours)

Detailed CEP Activity

Sr. No	Name of the Topic	Details
1	Composting	Vegetable waste collection, guidance for composting
2	Mangrove Conservation	Identification, walk and strategies.
3	Water Quality Monitoring	Survey, documentation and analysis
4	Hygienic Habits	Awareness, demonstration and implementation
5	Nutritional Health	Adoption of healthy dietary habits.
6	Probiotic Drinks	Making, Benefits and demonstrations
7	Disease Prevalence	Understanding, survey and analysis.
8	Kidney Health	Awareness on eating habits and flushing kidneys
9	Cardiac Care	Stress factors, cardinal signs and symptoms.
10	Vaccination Survey	Awareness about essential and optional vaccines
11	Demonstration in schools	Basic microbiological experiments for school students

- Students will form a group of two or three and complete any two activities.
- Students will visit at least three to four different places to conduct the activities.
- Students will visit Professionals and seek knowledge from them.

Module 3: Documentation and Report Preparation (10 Hours)

The students are expected to

- Plan and schedule the work to be done
- Maintain proper records of activities undertaken.
- Take geotagged photographs during the activities
- Co-ordinate with the mentor
- Prepare structured report and submit

Report Format

Project report should be typed on A4 sheets, Font Size 12, Times New Roman, one and a half spacing. It should have appropriate chapters in following format. It should be of 15 – 20 pages.

- Title page:
 - Name of the activity, Name of the student, Collaborating agency, Community/ Locality Engaged, Duration of the activity.
- Certificate by Institute
- Certificate by Mentor
- Student declaration
- Acknowledgement
- Abstract (brief summary in 200-300 words)
- Table of content
- Aims and Objective
- Rationale/ background
- Introduction and literature survey
- Methodology
- Activity description
- Conclusion and recommendation
- Outcome
- References

Evaluation Scheme

Internal Evaluation	20 marks
• Participation and Attendance	10 marks
• Documentation and Report	10 marks
External Evaluation	30 marks
• Final Report	10 marks
• Presentation	10 marks
• Viva	10 marks

Ms. Vilasini Gaode Chairperson, BOS in Microbiology		Prof. (Dr.) Kalpana Patankar Jain Principal,
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Ms. Vilasini Gaode
Chairperson, BOS in Microbiology



Prof. (Dr.) Kalpana Patankar
Jain

Principal
**ROYAL COLLEGE OF ARTS
SCIENCE & COMMERCE**
Penkar Pada, Mira Road,
Dist. Thane, Pin- 401107.

Board of studies in Microbiology

	Category	Name and Designation	Affiliation
1	Chairperson (Head of Department)	Ms. Vilasini Gaode Associate Professor	Royal College of Arts, Science and Commerce
2	Full time teachers of the Department	Ms. Radhika D'souza Associate Professor	
		Ms. Zamanat Syed Associate Professor	
		Mr. Farhaan Makba Associate Professor	
3	Two subject experts from outside the Parent University nominated by the Academic Council.	Dr. Ulhas Patil Professor	Institute of Science, Dr. Homi Bhabha State University
		Dr. Vivek Tanawade Associate Professor Associate Dean of Undergraduate Studies	School of Arts and Science Ahmedabad University
4	One expert nominated by the Vice-Chancellor from a panel of six recommended by the College Principal.	Dr. S. V. Raut Professor and Head,	Dept. of Microbiology, Bhavan's College,
5	One representative from industry / corporate sector/ allied area relating to placement.	Dr. Nirmla Devi Thakur Senior Manager	Excel Innovation Centre, Excel Industries Ltd.
6	One postgraduate meritorious alumnus nominated by the Principal. (Please give three to four names of your alumnus)	Ms. Mukta Kuyare Manager, CSSD and Paramedical Services	Central Sterile Supplies Department, Bhakti Vedanta Hospital
7	One expert from outside the parent college nominated by the College Principal	Dr. Rajbinder Kaur Dehiya Associate Professor	Dept. of Microbiology, Sophia College for Women