



C. U. SHAH UNIVERSITY

FACULTY OF SCIENCES

BACHELOR OF SCIENCE (MICROBIOLOGY)

DEPARTMENT OF MICROBIOLOGY

SEMESTER: V

CODE: 4SC05SEM1

NAME: Seminar

Teaching & Evaluation Scheme:-

Subject Code	Subject Name	Teaching Hours/week				Evaluation scheme/Semester							
						Theory				Practical			Total marks
		Th	Tu	Pr	Total	Sessional Exam		University Exam		Internal		University	
						Marks	Hrs	Marks	Hrs	Pr	TW	Pr	
4SC05SEM1	Seminar	0	0	6	6	----	----	---	---	30	----	70	100

Guidelines

Course Objectives: To prepare students to-

1. Search the scientific literature for information needed.
2. Understand the scientific literature, organize and make sense of the information learned, raise pertinent questions, and make reasonable conclusions.
3. Integrate the knowledge gained in the formal classes completed in order to understand and critique the published literature.
4. Communicate and explain the information learned orally to different audiences, be able to answer questions, and to defend their conclusions.
5. Present the information in the form of a clear and accurate written report.

Procedures:

1. Select a topic of interest/allotted by the faculty member.
2. Research the selected topic, making full use of modern literature searching engines.
3. Prepare and submit a short (~250 words) abstract on their chosen or assigned topic. The ABSTRACT must include information from recent research articles that have been read (primary literature only - no news paper repots/popular press/magazines). At the end of the abstract, please cite the papers you read and used in preparing the abstract.
4. Each student will present one (approximately 30 minutes) seminar on their topic, using appropriate visual aids, and respond to questions from the audience.
5. Each student will write and submit a report (minimum of 5, 1.5-spaced pages- 12 pt. Font; not including figures or the Literature cited) - that summarizes the information presented during the seminar.



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6. Each student is expected to participate in class discussions in a productive manner.

Expected Outcomes: After successful completion of seminar, the students will be able to:

1. Apply their foundational knowledge in microbiology when challenged with new situations by asking intelligent questions that lead to an understanding of the new situations.
2. Effectively explain information related to microbiology in the popular press to non-scientific audiences.
3. Summarize the important information from scientific articles.
4. Make a critical judgment of scientific material, using as support their analysis of its research questions and hypotheses, the appropriateness and precision of its research methods, the effectiveness of its presentation of results, and the interpretation and conclusions it draws from the results insofar as they answer the research questions.

Grading and Attendance:

Course attendance is required because a seminar course, by its nature, only succeeds when there are participants, so all students must attend and complete the given assignments. Distribution of marks will be as follows-

Assignment	Marks
Presentation	50
Written Report	20
Abstract with Citations	10
Questions and comments during class discussions	10
Attendance	10
Total	100

Evaluation criteria for presentations and Reports:

The Student will prepare and deliver a “Seminar” of information on the selected/assigned topic using the current literature. Each presentation should include:

- **Introduction** – Explaining the importance of the topic and why the audience should be interested.
- **Methodology** - Appropriate description of the methods and techniques used in the research.
- **Results/Applications**- Appropriate description of the rationale for each experiment and presentation of the data obtained.
- **Discussion**- Appropriate in-depth and Logical conclusions of the results and how they relate to the current literature.

Good use of presentation skills, knowledge of the subject, and ability to handle questions are important attributes for excellent presentation.