

# **CP02008: GENERAL MICROBIOLOGY**

Credits: 2 (Lecture: 1,5 – Practice: 0,5)



# **COURSE EXPECTED LEARNING OUTCOMES**

Notation	Course expected learning outcomes After successfully completing this course, students are able to	Program expected learning outcomes
Knowledg	e	
K1	Analyze the meaning and role of microorganisms in the fields of social life	ELO1
K2	Identify morphological, structural, metabolic, growth and development characteristics of microorganisms and the affected factors	ELO2
Skill		
K3	Use of equipment, tools, group coordination in the practice of laboratory experiments.	ELO6
K4	Proficient in microbiological isolation procedures	ELO11

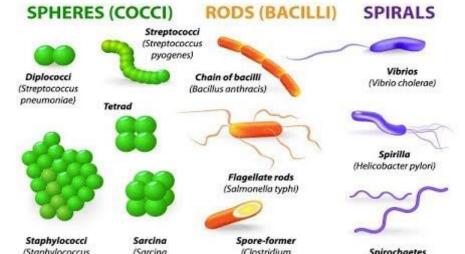
### **COURSE DESCRIPTION**

### **STUDENT TASKS**

#### **Consists of 6 chapters**

- Chapter 1: History of development, general characteristics and role of microorganisms Chapter 2: Procaryotic microorganisms group Chapter 3: Eukaryotic microorganisms group Chapter 4: Virus Chapter 5: Metabolism of microorganisms. Chapter 6: Growth and development of
- Attend a minimum of 75% of theoretical periods,
  - Prepare for lectures, read reference books before class
  - Actively participate in asking questions, exchanging and showing interest in learning.
  - Join all 03 practice sessions.

 Application of crystal violet (purple dye) Application of iodine (mordant)



microorganisms and influence factors

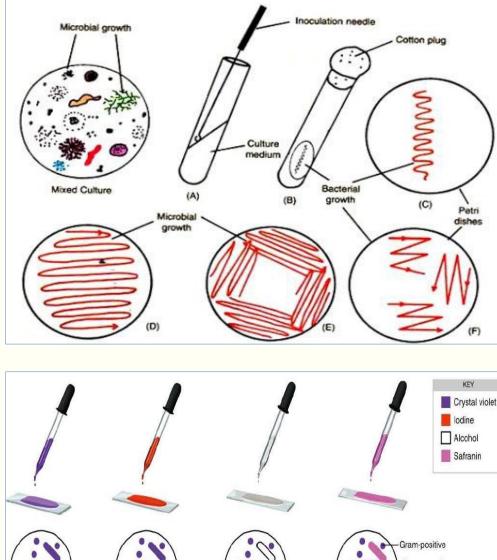
#### Practice

- 1. Equipment and use
- 2. Methods of culture and isolation
- 3. Techniques for observing microorganism

# **LEARNING METHODS**

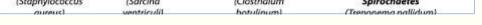
- Dual coding (combine words and visuals)
- Developing questioning skill
- E-learning.
- Mind maping
- Seminar





Alcohol wash (decolorization) Application of

safranin (counterstain



# **ASSESSMENT METHODS**

- Grading: 10
- Average score of course is the total points of rubrics multiplied by the respective weight of each rubric.
- Process evaluation: 50%: Group discussion -10%, Mind mapping - 20%, Assessment of practice - 20%.
- Final assessment 50%: multiple choice

### **LECTURER IN CHARGE**

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