



K. K. Wagh Education Society's

**K. K. Wagh Arts, Commerce, Science & Computer Science College, Kakasaheb Nagar**

At. Post. Kakasaheb Nagar, Tal. Niphad, Dist. Nashik – 422308.

(Affiliated to Savitribai Phule Pune University)

SPPU ID: PU/NS/ACSCS86/2004

College Code: 774

A.I.S.H.E. Code: C-42166



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[www.https://asck.kkwagh.edu.in](https://asck.kkwagh.edu.in)

## **Department of Microbiology**

**Academic Year 2023-24**

### **Certificate Course on**

### **‘Antimicrobial Drugs’**

#### **Syllabus Outcomes:**

1. Acquire knowledge about the discovery of antimicrobial agents.
2. Comprehend the mode of action of various antimicrobial drugs.
3. Understand different mechanism of action of antibiotics.
4. Illustrate the effectiveness of antiviral, antifungal and antiprotozoal drugs.

<b>Sr.No</b>	<b>Topic</b>	<b>Description</b>	<b>No of Lectures</b>
1.	Types of Antibiotics: Bactericidal vs. Bacteriostatic & Narrow Spectrum vs. Broad Spectrum	Antibiotics are drugs taken to kill and slow the growth of bacteria, Discover the difference between bactericidal, bacteriostatic, narrow-spectrum, and broad-spectrum antibiotics.	<b>07</b>
2.	Antimicrobial Definition, Agents & Selective Toxicity	Learn the antimicrobial definition, Explore types of antimicrobial agents and antimicrobial drugs, Study selective toxicity and reversal of side effects of antibiotics.	<b>07</b>
3.	Penicillin Uses, Mechanism of Action & Side Effects	Learn about penicillin, Understand the discovery of penicillin, its structure, its uses, and how it works to kill bacteria including its spectrum of activity.	<b>08</b>
4.	Opportunistic Infections Definition, Types & Examples	What are opportunistic infections and opportunistic pathogens? Learn about the definition of opportunistic infections, the causes, and examples of opportunistic infections.	<b>08</b>



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## Department of Microbiology

Academic Year 2023-24


Certificate course: 'Antimicrobial Drugs'

### Schedule of the course

Sr.No	Topic	Description	Name of the teacher
1.	Types of Antibiotics: Bactericidal vs. Bacteriostatic & Narrow Spectrum vs. Broad Spectrum	Antibiotics are drugs taken to kill and slow the growth of bacteria, Discover the difference between bactericidal, bacteriostatic, narrow-spectrum, and broad-spectrum antibiotics.	Prof. A.S.Kuyate
2.	Antimicrobial Definition, Agents & Selective Toxicity	Learn the antimicrobial definition, Explore types of antimicrobial agents and antimicrobial drugs, Study selective toxicity and reversal of side effects of antibiotics.	Prof. M.B.Mote
3.	Penicillin Uses, Mechanism of Action & Side Effects	Learn about penicillin, Understand the discovery of penicillin, its structure, its uses, and how it works to kill bacteria including its spectrum of activity.	Prof.S.A.Dani
4.	Opportunistic Infections Definition, Types & Examples	What are opportunistic infections and opportunistic pathogens? Learn about the definition of opportunistic infections, the causes, and examples of opportunistic infections.	Prof.A.S.Kuyate

Course Coordinator

HoD

  
**Principal**  
Karmaveer Kakesheb Wagh Education Society's  
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