

Swami Ramanand Teerth Marathwada University Nanded
Faculty of Science and Technology
Subject: Microbiology (CBCS) (New scheme)
FOOD, SOIL MICROBIOLOGY AND MICROBIAL ECOLOGY
(P-VIII) CCMB IV (SECTION A)

Department of MICROBIOLOGY, Dnyanopasak College, brings you University level full time Lectures for BSc. Graduates in Microbiology and allied subjects.

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CLICK IN THE RELATED LINK FOR LECTURES

UNIT 01 FOOD MICROBIOLOGY

01 CHARACTERISTICS OF GENETIC CODE

<https://youtu.be/380qVhUEcRE>

02 RNA POLYMERASE STRUCTURE AND FUNCTION

<https://youtu.be/19b22I-s8Gg>

03 PROKARYOTIC TRANSCRIPTION (mRNA SYNTHESIS)

<https://youtu.be/l6nstxf0Yg>

04 STRUCTURE OF RIBOSOME

<https://youtu.be/XeDQyMot3YU>

05 TRANSLATION Part 01 t-RNA

<https://youtu.be/duCiC4cN2C4>

06 TRANSLATION Part 02 Protein Synthesis

<https://youtu.be/ypgXt1edZNo>

07 COUPLED TRANSCRIPTION TRANSLATION BACTERIA

<https://youtu.be/Rik-Nhmq3xw>

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UNIT 02 SOIL MICROBIOLOGY AND THE CARBON CYCLE

01 SOIL DEFINITION AND TYPES

<https://youtu.be/c0yiSLtnO6g>

02 SIGNIFICANCE OF MICROORGANISM IN SOIL (CULTURE MEDIUM)

<https://youtu.be/TieF5tJ3Gmc>

03 THE CARBON CYCLE INTRODUCTION

<https://youtu.be/p2hmm3M6zsA>

04 THE CARBON CYCLE CELLULOSE DEGRADATION

<https://youtu.be/jJm64rSFJTg>

05 THE CARBON CYCLE MICROBIAL STARCH DEGRADATION

<https://youtu.be/IDA0VJYsNrl>

UNIT 03 ELEMENTAL TRANSFORMATIONS IN SOIL

LECT 01 NITROGEN CYCLE : INTRODUCTION PART (1 OF 3)

<https://youtu.be/x59ATPBvumQ>

LECTURE 02 NITROGEN CYCLE: MICROBIOLOGICAL PERSPECTIVE (2 OF 3)

<https://youtu.be/FP8B9XYI9MA>

LECTURE 03 NITROGEN CYCLE:

THE MOLECULAR BIOLOGY OF NITROGEN FIXATION (3OF3)

<https://youtu.be/IJfro4QBD0Y>

LECTURE 04 THE PHOSPHOROUS CYCLE INTRODUCTION 1 OF 2

<https://youtu.be/AnrIRDLCaoY>

LECTURE 05 MICROBIOLOGY OF THE PHOSPHOROUS CYCLE 2 OF 2

<https://youtu.be/oxjyvqxBrR8>

LECTURE 06 THE SULFUR CYCLE

<https://youtu.be/q733OYTk7al>

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UNIT 04 MICROBIAL INTERACTION, ASSOCIATION AND ECOLOGY
(uploading soon)

LECTURE 01: SYMBIOSIS, ANTIBIOSIS, MUTUALISM, PARASITISM.

LECTURE 02: MICROBE –MICROBE INTERACTION-LICHEN

LECTURE 03: PLANT-MICROBE INTERACTION: MYCORRHIZA, RHIZOSPHERE.

LECTURE 04: ANIMAL - MICROBE INTERACTION: RUMEN, BIOLUMINESCENCE

LECTURE 05: CONCEPT OF POPULATION, COMMUNITY, MICROBIAL SUCCESSION, CLIMAX AND ADAPTATION (PHENOTYPIC AND GENOTYPIC ADAPTATIONS).

TIPS AND TRICKS FOR BETTER UNDERSTANDING OF VIDEOS:

1. JUST WHEN A NEW SLIDE APPEARS ON THE SCREEN "PAUSE THE VIDEO" AND FULLY READ THE SLIDE.
2. AFTER COMPLETELY READING, PLAY THE VIDEO AND NOW "JUST SIMPLY AND PURELY LISTEN"
3. WHILE LISTENING DO NOT READ.
4. WHILE READING DO NOT LISTEN.
5. IT IS RECOMMEND YOU TO LISTEN TO ALL THE LECTURES AND NOTE DOWN YOUR NOTES AND QUERIES IN A NOTEBOOK.
6. WITH QUERRIES ARISING IN YOUR MINDS, IT IS RECOMMENDED THAT FIRST EXPLORE YOUR DOUBTS BY SEARCHING THE INTERNET AND FINDING ANSWERS FOR YOURSELVES.

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7. AN ANSWER FOUND BY YOURSELF WILL GIVE YOU MORE KNOWLEDGE. IN YOUR LIFE. DO NOT JUST ASK A QUESTION FOR SAKE OF QUESTIONING
8. HAVE AN URGE TO FIND ANSWERS YOURSELVES, WHEN YOU DO THIS REPEATEDLY AND GET STUCK WITH ONE QUESTION WHICH DOES NOT GIVE YOU ANSWER NO MATTER HOW HARD YOU TRIED - IS THE MOST IMPORTANT QUESTION WHICH YOU CAN ASK YOUR MENTOR. THIS IS HOW YOU LEARN SCIENCE AND THUS PHENOMENONS OF LIFE
9. DO LEAVE COMMENTS AND FEEDBACK IN THE YOUTUBE SECTION AND TELL YOUR FRIENDS TO WATCH AND LEARN

ALL THE BEST. HAPPY LEARNING.