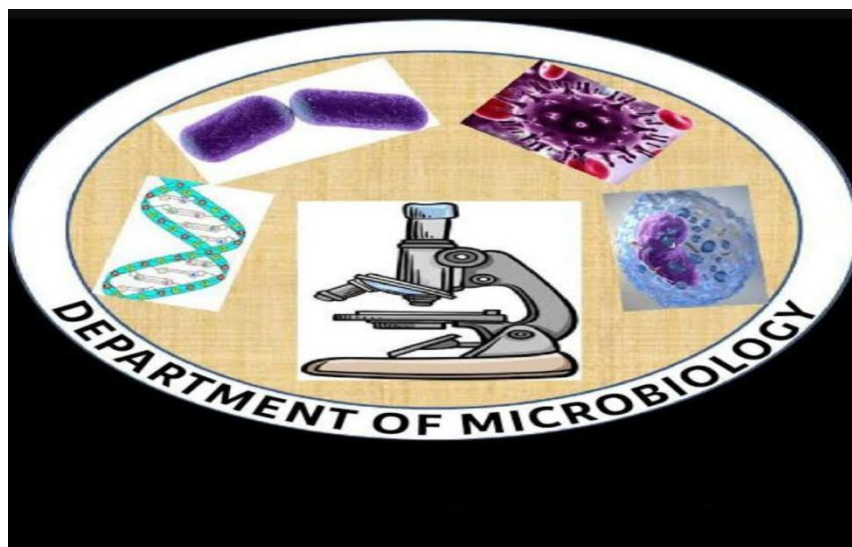


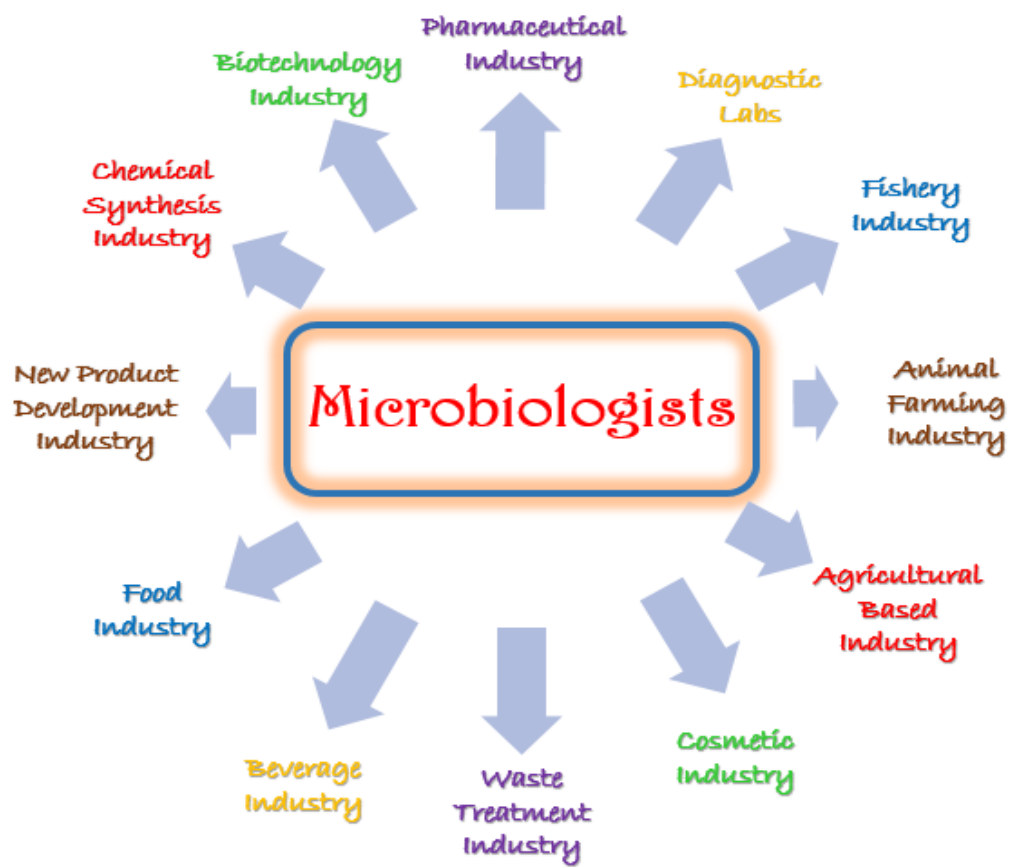


**TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE  
COLLEGE FOR WOMEN ASIFABAD**



**TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE  
COLLEGE FOR WOMEN ASIFABAD**

## CAREER OPPORTUNITIES AS A MICROBIOLOGIST:



## **DEPARTMENT OF MICROBIOLOGY**

### **DEPARTMENTAL PROFILE**

#### **SALIENT FEATURES OF THE MICROBIOLOGY DEPARTMENT**

- ✓ The department was established in 2018-2019
- ✓ The department has one Assistant Professor, who is TS SET qualified having 5 years of teaching experience.
- ✓ In addition to regular teaching aids, ICT technology, Digital classroom teaching, online mode of teaching is used regularly.
- ✓ Teaching practices involve using of Visual Charts and PPTs , interactive, lecture mode etc
- ✓ Departmental library is maintained.
- ✓ The Departmental Library has reference Books, Paper Clippings, Previous Question Papers, Question Banks etc., which are kept for students usage
- ✓ Students are involved in Study projects and field based projects
- ✓ Assignments are given to the students.
- ✓ Conducting students' seminars on important topics.
- ✓ Organizing field trips, extension lectures, workshop relevant to the subject.
- ✓ The microbiology Subject results in the semester exams are at an average of 97% this year.
- ✓ The Department provides additional curricular modules to the students.
- ✓ Group discussion, Quiz Programmes, poster presentations are conducted.
- ✓ Counselling is given to the students so that they would overcome personal as well as career problems.
- ✓ Our department organized free blood grouping camping and health awareness to students
- ✓ Student profile and ward counselling were carried out in the department.

## ABOUT THE DEPARTMENT

- ✓ The Department of Microbiology was established in the year 2018-2019 under the aegis of TTWREIS, Tribal Welfare, Gurukulam affiliated to Kakatiya University.
- ✓ From the establishment of Department P. Princy Priyanka is the Lecturer and incharge of Department Microbiology.
- ✓ The Department has well equipped Labs with ample number of instruments , Charts,
- ✓ Slides, Research Microscope, number of Compound Microscopes, Centrifuge, Hot Air
- ✓ Oven etc., for performing the practicals related to Syllabus.
- ✓ Since the establishment, the Department is acquiring material and equipment needed to conduct the Practical.
- ✓ The faculty of Microbiology Department consists of one Lecturer with 5 years of teaching experience.
- ✓ The result in the subject of Microbiology in the University Examinations is at an average of 97% this year.
- ✓ The departmental library has reference books, paper clippings, previous Question Papers, PG Entrance Books etc. which are kept for the use of students.
- ✓ Teaching practices involved using charts, Lecture, Interactive and PPTs etc.
- ✓ The department conducts extension lectures every year by inviting eminent persons like professors, Lecturers and Readers.
- ✓ The students are evaluated regularly by conducting Tests, Assignments, Seminars and Quiz programs.
- ✓ Slow learners are treated with extra care by taking remedial classes.

**Vision:**

- Microbiology making invisible world more visible.
- To promote quality education to have better job opportunities and pursuing higher education.
- To help in seeking right knowledge at right time.
- To inculcate scientific temper and provide platform research.

**Mission:**

- To empower students through education.
- To enhance scientific temper in students.
- To improve potency in attaining employment.
- To improve confidence levels and overall personality development.
- To cultivate healthy and hygienic environment, to be good citizen of future India and No to Extinction of mankind.

**Programmes, Courses offered:**

**B.Sc., MB.Z.C course of 3 years duration**

**Course: General Microbiology**

**STUDENT ENROLLMENT:**

**2023-2024**

Group	Allotted	Admitted	Total
B. Sc. MB.Z.C.	40	22	22

**2022 – 2023**

Group	Allotted	Admitted	Total
B. Sc. MB.Z.C.	40	23	23

**2021-2022**

Group	Allotted	Admitted	Total
B. Sc. MB.Z.C.	40	28	28

**2020- 2021**

Group	Allotted	Admitted	Total
B. Sc. MB.Z.C.	40	24	24

**2019- 2020**

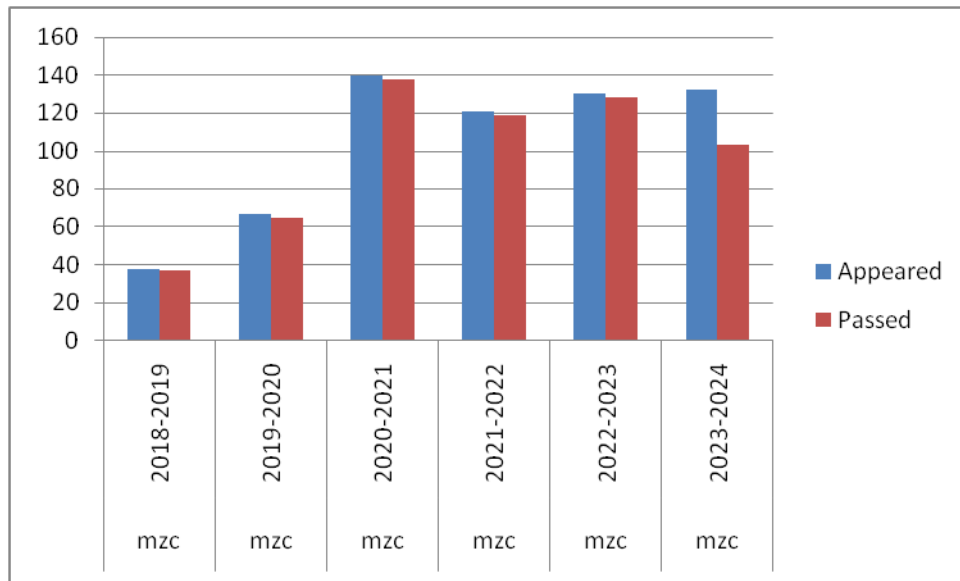
Group	Allotted	Admitted	Total
B. Sc. MB.Z.C.	40	24	24

**2018- 2019**

Group	Allotted	Admitted	Total
B. Sc. MB.Z.C.	40	24	24

## STUDENT RESULT ANALYSIS 2018 - 2024:

Group: B. Sc. MB.Z.C





# ARUNA KUMARI K

*Degree Lecturer in Microbiology*

## About Me

I am an accredited Degree lecturer in Microbiology. I am also one of the best Microbiology graduate at university.

## My Contact

✉ Kuchipudi.arunakumari@gmail.com  
H.no:3-3, Dharmaram b, Dichpally  
mandal, Nizamabad dist,  
Pin:503230, ph.no-9398431670

## Key Skill

- Communication skills
- Time management skills
- Modern classroom technology
- Safe and creative classrooms
- Collaboration

## Employment Experience

- Working as DL in Microbiology at TGTWRDC (G), ASIFABAD since August 2024.

## Education

- Qualified NET in the year 2018

### Osmania University

M.Sc Microbiology

I finished my master's Degree in microbiology in the year 2007 from university college of science, osmania university.

### Osmania University

B.Sc Microbiology

I finished my Bachelor's Degree in microbiology in the year 2005 from SSR Degree college, Nizamabad from osmania university.



## Career Profile

### Personal Profile:

Name : P. Princy Priyanka  
Date of birth : August 08, 1994  
Sex : Female  
Nationality : Indian  
Father's Name : P. James Prem Kumar  
Designation : Guest Degree Lecturer Microbiology  
Office Address : Telangana Tribal Welfare Residential Degree  
College for Women Asifabad  
Date of Joining : 09-07-2018  
Permanent Address : H.NO: 28-4-101, L.I.G.H 24 Housing board colony  
Bellampalli, Telangana State - 504251.  
Contact No. : 9704007920  
E-mail ID : Principriyanka.pulla@gmail.com@gmail.com  
Languages Known : TELUGU-ENGLISH-HINDI  
Qualifications : M. Sc. B .Ed, (Ph. D), SET, KAKATIYA  
UNIVERSITY.

### Work Experience

Teaching : 5 years

Subjects undertaken: Introductory Microbiology, Microbial Physiology and Biochemistry, Immunology, Instrumentation and Biophysical Techniques, Microbial genetics, Molecular biology, r-DNA technology, Medical microbiology, Industrial and Food microbiology Environmental microbiology.

## **Distinguished Responsibilities Performed:**

### **Academic positions held at College**

Designation	Name of the Institution	Period
Examination Branch member	TTWRDC(W), Asifabad	
CGC member	TTWRDC(W), Asifabad	

### **Academic Profile:**

<b>Course</b>	<b>Institution</b>	<b>Year of Passing</b>	<b>Percentage</b>
SSC	St. Marys High school, Bellamapalli	2010	89%
Board of Intermediate	Shivani Junior college, Mandamarri	2012	88%
B. Sc. BT.B.C	Shivani arts and science degree college, Mandamarri	2015	84%
M. Sc.	Kakatiya university	2017	83%
B. Ed.	Dr. Rajendra Prasad B.Ed college, Asifabad	2020	66%
PH.D	Chaitanya Deemed to be University ,Warangal	Pursuing	

### **Project:**

I did my M. Sc. dissertation in Kakatiya University Warangal for Three months, January 2017 to March 2017. My project work title: "Biomass Production And Evaluation of Bioinoculants, Department of Microbiology, Kakatiya University, Warangal, TS, India in March 30&31 2017.

### **Computer Proficiency:**

- ❖ MS Office

**Achievements:**

Got 3rd prize for best poster presentation at National Conference on “Recent Advances in Microbial Biotechnology” organized by Department of Microbiology, Kakatiya University.

**Laboratory Skills:**

Microbial Techniques : Isolation and characterisation of microbial strains, Antibiotic susceptibility

Water Quality Testing: Estimation of MPN, BOD, COD Techniques

Biochemical Techniques: Protein estimation, Qualitative and quantitative estimation of enzymes

Molecular Techniques: Molecular techniques like DNA/RNA estimation and isolation

Analytical Techniques: Spectrophotometry, Paper and thin layer chromatography.

**B.Sc (CBCS) Microbiology – I Year  
Semester- I (Discipline Specific Course)  
INTRODUCTORY MICROBIOLOGY**

**Theory Syllabus**

**UNIT – I: INTRODUCTION**

Microbiology: Definition and scope. History of microbiology: Contribution of Antony Van Leeuwenhoek, Edward Jenner, Louis Pasteur, Robert Koch, Iwanoswky, Beijernik, Winogradsky and Alexander Fleming.

Microbiological Techniques: Sterilization and Disinfection - Physical methods (dry and moist heat), filtration, radiation. Chemical methods (alcohols, phenols, aldehydes, fumigants)

**UNIT – II: MICROSCOPY AND STAINING METHODS**

Principles and applications of Microscopy-Bright field, Dark field, Phase-contrast, Fluorescent and Electron microscopy (SEM and TEM). Ocular and stage micrometry.

Principles and types of stains-Simple stain, Differential stain, Negative stain.

Structural stain: spore, capsule, flagella

**UNIT – III: CLASSIFICATION, ISOLATION AND IDENTIFICATION OF MICROORGANISMS**

Classification of living organisms; Haeckel, Whittaker and Carl Woese systems. Differentiation of prokaryotes and eukaryotes. Classification and identification of bacteria as per the second edition of Bergey's manual of systematic bacteriology. Classification of protozoa, microalgae and fungi.

Growth media – synthetic, semi- synthetic, selective, enrichment and differential media. Isolation of Pure culture techniques - Enrichment culturing, Dilution plating, streak plate, spread plate, Micromanipulator. Preservation of Microbial cultures – Sub culturing, overlaying cultures with minerals oils, sand cultures, lyophilization, storage at low temperature.

**UNIT – IV: STRUCTURE AND GENERAL CHARACTERISTICS OF MICROORGANISMS**

General characteristics of prokaryotes: Bacteria, Archaea bacteria. Rickettsia, Mycoplasma, Cyanobacteria and Actinomycetes. Ultra-structure of bacterial cell: cell wall, cell membrane, ribosomes, nucleoid, capsule, flagella, fimbriae, endospores & storage granules.

General characteristics of eukaryotes: protozoa, microalgae and fungi.

General characteristics and classification of virus. Morphology and structure of lambdabacteriophage (lytic and lysogeny), TMV and HIV.

**B. Sc. Microbiology Syllabus**

**Semester-II (Discipline Specific Course)**  
**MICROBIAL PHYSIOLOGY & BIOCHEMISTRY**

**Theory syllabus**

**UNIT – I: MICROBIAL NUTRITION AND GROWTH**

Microbial Nutrition, Uptake of nutrients by cell. Nutritional groups of microorganisms – Autotrophs, Heterotrophs, Mixotrophs, Methylophiles. Photosynthetic apparatus in prokaryotes.

Bacterial growth – Different phases of growth, factors influencing bacterial growth. Synchronous, Continuous, Biphasic Growth. Methods for measuring microbial growth – Direct Microscopic, Viable count, Turbidometry.

**UNIT – II: MICROBIAL METABOLISM**

Bacterial photosynthesis: Outline of oxygenic and anoxygenic photosynthesis in bacteria. Microbial respiration – Aerobic: Glycolysis, HMP Pathway, ED Pathway, TCA Cycle and Anaplerotic reactions, Electron transport, Oxidative and Substrate level phosphorylation. Glyoxylate cycle, Anaerobic respiration (Nitrate and Sulphate).

**UNIT – III: BIOMOLECULES**

Classification and characteristics of carbohydrates (Monosaccharides, disaccharides and polysaccharides). General characteristics of amino acids and proteins, fatty acids (saturated and unsaturated) and lipids (sphingo lipids, sterols and phospholipids). Structure of nitrogenous bases, nucleotides and nucleic acids.

Properties and Classification of enzymes. Biocatalysis – Induced fit and Lock & Key Model, Coenzymes, Co-factors. Factors effecting enzyme activity.

**UNIT – IV: BIOCHEMICAL TECHNIQUES**

Hydrogen ion concentration in biological fluids. pH measurement. Types of buffers and their uses in biological reactions. Principles and application of colorimetry and chromatography (paper and thin layer). Principles and applications of Electrophoretic techniques- Agarose gel electrophoresis and SDS PAGE

**References:**

1. Michael J. Pelczar, Jr. E.C.S.Chan, Noel R. Krieg Microbiology Tata McGraw- Hill Publisher.
2. Prescott, M.J., Harley, J.P. and Klein Microbiology 5<sup>th</sup> Edition, WCB Mc GrawHill, New York.
3. Madigan, M.T., Martinkl, J.M and Parker, J. Broch Biology of Microorganism, 9<sup>th</sup> Edition, MacMillan Press, England.
4. Dube, R.C. and Maheshwari, D.K. General Microbiology S Chand, New Delhi.
5. Voet, D Biochemistry WCB. Mc GrawHill, Iowa.
6. N.J. Dimmock, A.J Easton, and K.N. Leppard. Introduction to Modern Virology. Blackwell Publishing.



**Semester-III – (Discipline Specific Course)**  
**MEDICAL MICROBIOLOGY & BASICS OF IMMUNOLOGY**

**Theory syllabus**

**UNIT – I: MEDICAL BACTERIOLOGY**

1. History of Medical Microbiology. Normal flora of human body.
2. Host pathogen interactions. Bacterial toxins, virulence and attenuation. Antimicrobial resistance. Air-borne diseases – Tuberculosis. Food and water-borne diseases - Cholera, Typhoid.
3. Contact diseases - Syphilis, Gonorrhoea. General account of nosocomial infections.

**UNIT – II: MEDICAL VIROLOGY AND PARASITOLOGY**

1. Air borne diseases – Influenza. Food and water-borne diseases – Poliomyelitis, Amoebiasis.
2. Insect-borne diseases - Malaria, Dengue fever. Zoonotic diseases – Rabies
3. Viral diseases - Hepatitis B, HIV, SARS, MERS;

**UNIT-III: INTRODUCTION OF IMMUNOLOGY**

1. History of Immunology, Cells and Organs of the immune system – Primary and Secondary lymphoid organs. Function of B and T lymphocytes. Natural Killer cells, Polymorphonuclear cells.
2. Structure and Classification of Antigens, Factors affecting antigenicity. Antibodies: Basic structure, Types of properties and functions of immunoglobulins
3. Types of Immunity: Innate and Acquired Immunity, Humoral and cell-mediated immune response.

**UNIT-IV: IMMUNOLOGICAL DISORDERS AND AG-AB REACTIONS**

1. Types of hyper sensitivity reactions – Immediate and delayed. Systemic and Localized autoimmune disorders. Complement pathways - Classical and Alternative pathways.
2. Types of antigen-antibody reactions – Agglutinations, Precipitation, Neutralization, Blood groups.
3. Complement fixation Test. Labeled antibody based techniques – ELISA, RIA and immunofluorescence; Polyclonal and Monoclonal antibodies production and application.

**B. Sc (CBCS) Microbiology – II Year**  
**Semester-IV – (Discipline Specific Course)**  
**MOLECULAR BIOLOGY AND MICROBIAL GENETICS**

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**Theory syllabus**

**UNIT – I**

1. Overview of prokaryotic and eukaryotic cells, cell size and shape, Eukaryotic and prokaryotic Cell organelles, Cell division (mitosis and Meiosis)
2. Fundamentals of genetics - Mendelian laws, alleles, crossing over, and linkage. DNA and RNA as genetic materials.
3. Structure of DNA – Watson and Crick model. Extrachromosomal genetic elements – Plasmids and transposons. Replication of DNA – Semiconservative mechanism.

**UNIT – II**

1. Brief account on horizontal gene transfer among bacteria – transformation, transduction and conjugation.
2. Mutations – spontaneous and induced, base pair changes, frameshifts, deletions, inversions, tandem duplications, insertions. Physical and chemical mutagens.
3. Outlines of DNA damage and repair mechanisms.

**UNIT – III**

1. Concept of gene – Muton, recon and cistron. One gene-one enzyme, one gene-one polypeptide, one gene-one product hypotheses.
2. Types of RNA and their functions. Outlines of RNA biosynthesis in prokaryotes.
3. Genetic code. Structure of ribosomes and a brief account of protein synthesis.

**UNIT – IV**

1. Types of genes – structural, constitutive, regulatory. Operon concept. Regulation of gene expression in bacteria – *lac* operon.
2. Basic principles of genetic engineering - restriction endonucleases, DNA polymerases and ligases, vectors. Outlines of gene cloning methods. Genomic and cDNA libraries.
3. General account on application of genetic engineering in industry, agriculture and medicine.

**B. Sc (CBCS) Microbiology – III Year**  
**Semester-V – B (Discipline Specific Elective)**  
**INDUSTRIAL AND FOOD MICROBIOLOGY**

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**Theory syllabus**

**UNIT – I**

1. Introduction to Industrial microbiology: Brief history and developments in industrial microbiology.
2. Types of fermentation processes - solid state, liquid state, batch, fed-batch and continuous.
3. Types of fermenters – laboratory, pilot-scale and production fermenters. Components of a typical continuously stirred tank bioreactor.

**UNIT - II**

1. Isolation of industrial strains and fermentation medium: Primary and secondary screening. Preservation and maintenance of industrial strains.
2. Ingredients used in fermentation medium - molasses, corn steep liquor, whey & yeast extract.
3. Microbial fermentation processes: Downstream processing - filtration, centrifugation, cell disruption, solvent extraction.

**UNIT - III**

1. Microbial production of industrial products - citric acid, ethanol and penicillin.
2. Food as a substrate for microbial growth: Intrinsic and extrinsic parameters that affect microbial growth in food.
3. Microbial spoilage of food - milk, egg, bread and canned foods.

**UNIT - IV**

1. Principles and methods of food preservation and food sanitation: Physical methods - high temperature, low temperature, irradiation, aseptic packaging. Chemical methods - salt, sugar, benzoates, citric acid, ethylene oxide, nitrate and nitrite.
2. Dairy products, probiotics and Food-borne Diseases: Fermented dairy products yogurt, acidophilus milk, kefir, dahi and cheese.
3. Probiotics definition, examples and benefits.





**B. Sc (CBCS) Microbiology – III Year  
SEMESTER – VI - C  
ENVIRONMENTAL MICROBIOLOGY**

**Theory syllabus**

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**UNIT - I**

1. Aero microbiology: Bioaerosols, Air borne microorganisms (bacteria, Viruses, fungi).
2. Impact of air borne microorganisms on human health and environment.
3. Significance of air borne microorganisms in food and pharma industries and operation theatres, allergens.

**UNIT - II**

1. Air sample collection and analysis: Bioaerosol sampling, air samplers, methods of analysis, CFU.
2. Culture media for bacteria and fungi, Identification characteristics.
3. Control measures: Fate of bioaerosols, inactivation mechanisms – UV light, HEPA filters, desiccation, Incineration.

**UNIT - III**

1. Water Microbiology: Water borne pathogens.
2. Water borne diseases.
3. Microbiological analysis of water: Sample Collection, Treatment and safety of drinking (potable) water.

**UNIT - IV**

1. Methods to detect potability of water samples: Standard qualitative procedure: presumptive test(MPN test), confirmed and completed tests for faecal coliforms
2. Membrane filter technique and Presence/absence tests.
3. Control measures: Precipitation, chemical disinfection, filtration, high temperature, UV light.

**References:**

1. Da Silva N, Taniwaki MH, Junqueira VC, Silveira N, Nascimento MS, Gomes RAR (2012) Microbiological Examination Methods of Food and Water-A Laboratory Manual, CRC Press
2. Atlas RM and Bartha R. (2000). Microbial Ecology: Fundamentals & Applications. 4th edition. Benjamin/Cummings Science Publishing, USA.
3. Maier RM, Pepper IL and Gerba CP. (2009). Environmental Microbiology. 2nd edition, Academic Press.
4. Hurst CJ, Crawford RL, Garland JL, Lipson DA (2007) Manual of Environmental Microbiology, 3rd edition, ASM press.

### Work load of Individual Lecturer:

**2020- 2021**

The Department of Microbiology has a workload of 48 hours per week excluding Environmental Science teaching, ACEE, SEC and the work is distributed among staff members. In addition to this lecturers are involved in Co-curricular activities.

S. No.	Name of the Lecturer	Theory Periods	Practicals	Total
1	P. Princy Priyanka	18	30	48

### Work load for the academic year 2021-2022

#### B. Sc. (Life science) semester I, III, V courses .BSC.MB.Z.C

Year	Strength	Paper	Theory (HPW)	Practical(HPW)	Total (HPW)
I Year	28	I	4	3 +3 ( 2 Batches)	10
II year	24	II	4	3+ 3 ( 2 batches)	10
III year	24	III	4	3+3 ( 2 Batches)	10
I year		EVS	2		

#### B. Sc. (Life science) semester II, IV, VI courses .B. Sc. MB.Z.C

Year	Strength	Paper	Theory (HPW)	Practical(HPW)	Total (HPW)
I year	28	I	4	3 +3 ( 2 Batches)	10
II Year	24	II	4	3+ 3 ( 2 batches)	10
III year	24	III	4	3+3 ( 2 Batches)	10
III year		GE	4		4
		PG Coaching	10		10

### Work load for the academic year 2023-2024

#### B. Sc. (Life science) semester I, III, V courses .B. Sc. MB.Z.C

Year	Strength	Paper	Theory (HPW)	Practical(HPW)	Total (HPW)
I Year	28	I	4	3+ 3 ( 2 batches)	10
II year	24	II	4	3+ 0 ( 1 batch)	10
III year	24	III	4	3+3 ( 2 Batches)	10

#### B. Sc. (Life science) semester II, IV, VI courses .BSC.MB.Z.C

Year	Strength	Paper	Theory (HPW)	Practical(HPW)	Total (HPW)
I year	28	I	4	3+ 3 ( 2 batches)	10
II Year	24	II	4	3+ 0 ( 1 batch)	10
III year	24	III	4	3+3 ( 2 Batches)	10
		PG Coaching	10		4

S. No.	Name of the Lecturer	Theory Periods	Practicals	Total
1	K.Aruna kumari	12	12	24

**DEPARTMENT OF MICROBIOLOGY:  
SEMESTER [I, III, V] TIME TABLE**

	9:10AM -10:10AM	10:10AM -11:00AM	11:00AM -11:10AM	11:10AM -12:00PM	12:10PM -1:00PM	1:00PM -2:00PM	2:00PM -3:00PM	3:00PM -4:00PM	4:00PM -5:00PM
<b>MON</b>	MZC I YEAR THEORY [INTRODUCTORY MICROBIOLOGY]		BREAK	MZC III YEAR PRACTICAL INDUSTRIAL AND FOOD MICROBIOLOGY]	MZC II YEAR THEORY [MEDICAL MICROBIOLOGY AND BASICS OF IMMUNOLOGY]	LUNCH		PG COACHING	
<b>TUES</b>	MZC I YEAR THEORY [INTRODUCTORY MICROBIOLOGY]			MZC III YEAR PRACTICAL INDUSTRIAL AND FOOD MICROBIOLOGY]	MZC II YEAR THEORY [MEDICAL MICROBIOLOGY AND BASICS OF IMMUNOLOGY]			PG COACHING	
<b>WED</b>	MZC I YEAR THEORY [INTRODUCTORY MICROBIOLOGY]			MZC III YEAR THEORY INDUSTRIAL AND FOOD MICROBIOLOGY]	MZC II YEAR PRACTICAL [MEDICAL MICROBIOLOGY AND BASICS OF IMMUNOLOGY]			PG COACHING	
<b>THURS</b>	MZC I YEAR THEORY [INTRODUCTORY MICROBIOLOGY]			MZC III YEAR THEORY INDUSTRIAL AND FOOD MICROBIOLOGY]	MZC II YEAR PRACTICAL [MEDICAL MICROBIOLOGY AND BASICS OF IMMUNOLOGY]			PG COACHING	

<b>FRI</b>	MZC I YEAR PRACTICAL [INTRODUCTORY MICROBIOLOGY]		MZC III YEAR THEORY INDUSTRIAL AND FOOD MICROBIOLOGY]	MZC II YEAR THEORY [MEDICAL MICROBIOLOGY AND BASICS OF IMMUNOLOGY]			PG COACHING	
<b>SAT</b>	MZC I YEAR PRACTICAL [INTRODUCTORY MICROBIOLOGY]		MZC III YEAR THEORY INDUSTRIAL AND FOOD MICROBIOLOGY]	MZC II YEAR THEORY [MEDICAL MICROBIOLOGY AND BASICS OF IMMUNOLOGY]			PREPARATION	

### SEMESTER [II, IV, VI] TIME TABLE

	9:10AM -10:10AM	10:10AM -11:00AM	11:00AM -11:10AM	11:10AM -12:00PM	12:10PM -1:00PM	1:00PM -2:00PM	2:00PM -3:00PM	3:00PM -4:00PM	4:00PM -5:00PM
<b>MON</b>	MZC I YEAR THEORY [MICROBIAL PHYSIOLOGY & BIOCHEMISTRY]			MZC III YEAR PRACTICALY [ENVIRONMENTAL MICROBIOLOGY]	MZC II YEAR THEORY [MOLECULAR BIOLGY AND MICROBIAL GENETICS]			PG COACHING	
<b>TUES</b>	MZC I YEAR THEORY [MICROBIAL PHYSIOLOGY & BIOCHEMISTRY]		BREAK	MZC III YEAR PRACTICAL [ENVIRONMENTAL MICROBIOLOGY]	MZC II YEAR THEORY [MOLECULAR BIOLGY AND MICROBIAL GENETICS]	LUNCH		PG COACHING	

<b>WED</b>	MZC I YEAR THEORY [MICROBIAL PHYSIOLOGY & BIOCHEMISTRY]	
<b>THURS</b>	MZC I YEAR THEORY [MICROBIAL PHYSIOLOGY & BIOCHEMISTRY]	
<b>FRI</b>	MZC I YEAR PRACTICAL [MICROBIAL PHYSIOLOGY & BIOCHEMISTRY]	
<b>SAT</b>	MZC I YEAR PRACTICAL [MICROBIAL PHYSIOLOGY & BIOCHEMISTRY]	

MZC III YEAR THEORY [ENVIRONMENTAL MICROBIOLOGY]	MZC II YEAR PRACTICAL [MOLECULAR BIOLGY AND MICROBIAL GENETICS]
MZC III YEAR THEORY [ENVIRONMENTAL MICROBIOLOGY]	MZC II YEAR PRACTICAL [MOLECULAR BIOLGY AND MICROBIAL GENETICS]
MZC III YEAR THEORY [ENVIRONMENTAL MICROBIOLOGY]	MZC II YEAR THEORY [MOLECULAR BIOLGY AND MICROBIAL GENETICS]
MZC III YEAR THEORY [ENVIRONMENTAL MICROBIOLOGY]	MZC II YEAR THEORY [MOLECULAR BIOLGY AND MICROBIAL GENETICS]

	PG COACHING	
	PG COACHING	
	PG COACHING	
	PREPARATION	

## **INFRASTRUCTURE DETAILS OF THE DEPARTMENT**

The Residential students of Gurukulam are provided with the basic amenities for a comfortable stay in the campus for study and stay.		
S. No.	Amenities	Duration
1	Three pairs of uniforms	Every year
2	Notebooks	Every Semester
3	Textbooks	Every Semester
4	Record books and Stationery	Every Semester
5	Apron's for Science students	Every Semester
6	Scientific Calculator's for Science and Management Students	At the time of joining
7	A pair of formal shoes and socks	Every year
8	Track Suit	Every year
9	Sports dress	Every year
10	Travel bags	At the time of joining
11	A pair of sports shoes and socks	Every year
12	Cosmetic's	Every Month
13	Beds and Blankets	Every year
14	One pair of plate, katora, glass	At the time of joining
15	One pair Slipper	Every year
16	Reading Chair	At the time of joining

### **List of Equipment in the Department**

**Name of the Department: Microbiology**

S. No.	Name of the item	Quantity
1	Compound Microscopes	7
2	Refrigerator	1
3	Hot Air Oven	1
4	Autoclave	1
5	Incubator	1
6	Hotplate with Magnetic stirrer	1
7	Colorimeter	1
8	pH meter	1

## Departmental Activities

### Curricular Aspects

We follow the syllabus framed by BOS, Department of Microbiology, Kakatiya University. Annual curricular plan is prepared in the beginning of the academic year in which teaching and other activities are related. Improvement of syllabus is done by incorporating the additional inputs. In addition to the syllabus to create interest in subject additional inputs are given to the students.

### II. Teaching learning and evaluation

- Faculty members take classes according to the time table.
- Teaching diary: is maintained regularly throughout the academic year.
- Teaching methods: Involves an informative lecture accompanied by demonstration, interactive mode wherever necessary.

### Teaching Methods

The faculty of the department are adapting various teaching methods in making the students to understand the subject easily. Different teaching aids are designed for both theory and practicals. The teaching methodology followed in theory and practicals are as follows:-

#### THEORY:-

- Introduction of the Topic
- ICT/ Power point slides
- Models and Specimens
- Discussion
- Study Material
- Assignments
- Related Reference



- Revision
- Test & Question Bank
- Teaching Methods

### **PRACTICALS:-**

- Correlation Between Theory and Practical
- Preparation of media and inoculation of culture
- Microscopic Observation Material
- Isolation of Organisms from Rotten Fruit and Vegetables
- Blood Grouping, Urine Analysis,
- Estimation of Blood

**Teaching notes:** The faculty members also give study material to the students.

**Teaching aids:** Teaching aids are used for better understanding. We use teaching aids such as specimens, models, charts, PPTS, subject related animation videos.



**Conference/ Workshop/ Symposium/ Guest Lecture/ Special Day Celebration/ Exhibition/ Welcome function/ Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor: P. Princy Priyanka
3. Title of the Activity: “Production of Vaccines “Webinar
4. Dates: 12.01.2021
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): National Webinar (International / National / State / University / District / College / Department etc.)
7. Target group: Students, Faculty, and Scholars
8. Number of Participants: 70
9. Brief summary of event:
10. Photographs (with captions) submitted (number):

**GURUKULAM**  
TELANGANA TRIBAL WELFARE RESIDENTIAL  
DEGREE COLLEGE FOR WOMEN ASIFABAD  
DIST:KUMRAMBHEEM ASIFABAD-T.S  
*Affiliated to Kakatiya University*

**DEPARTMENT OF MICROBIOLOGY**

Join us with Google Meet

Cordially Invites You to a

**WEBINAR**  
ON

JANUARY  
**12**

11.00  
AM

KEYNOTE SPEAKER

*“Production of Vaccines”*

PROGRAMME COORDINATOR

*P.Princy Priyanka*

WEBINAR CONVENER

Dr. T.Sujatha,M.Sc,Ph.D  
Assistant professor of Microbiology  
Kakatiya Government College,  
Hanamkonda

Smt. T.DhanaLaxmi , M.COM  
Principal(FAC)  
TTWRDC(W)-ASIFABAD

**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/  
Exhibition/Welcome function/Farewell function/Sport Activities/NSS  
activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P. Princy Priyanka
3. Title of the Activity: Student Seminar
4. Dates: 27.02.2021
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State / University / District / College / Department etc.)
7. Target group: Students
8. Number of Participants: 30
9. Brief summary of event:
10. Photographs (with captions) submitted (number):



**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/  
Exhibition/Welcome function/Farewell function/Sport Activities/NSS  
activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P.Princy Priyanka
3. Title of the Activity: Field Trip
4. Date: 16.11.2021
5. Venue of the Event: Field trip to Mission bagiratha project, Ada, Kumrambheem Asifabad
6. Level of the event (encircle): College (International / National / State / University / District / College / Department etc.)
7. Target group: Students, Staff
8. Number of Participants: 15
9. Brief summary of event:
10. Photographs (with captions) submitted (number):



### Field Trip 2024

On October 21<sup>st</sup> 2024 selected Students of MZC III year have visited to TIFR Hyderabad as part of a field trip to encourage students in research. This is a one day tour program where students have visited all the research labs of TIFR . They have been exposed to various instruments and analytical devices such as Electron microscopes, Florescent microscopes,Spectroscopy such as NMR and etc.



CIRCULAR She for STEM PROGRAM:KALPANA PROGRAM ON 21-10-2024

N.F.No: C/451977/RDC/2024

O/o the Secretary, TGTWREIS  
Gurukulam, Masabtank  
Hyderabad

**CIRCULAR**

Procs.Rc.No.C/451977/Acad/RDC/2022 Date: .10.2024

Sub:	TTWREIS: RDC: She for STEM program : Kalpana program in TGTWRDCs for women - One day workshop at TIFR (Tata Institute of Fundamental Research) - Hyderabad on <b>21.10.2024</b> - Certain directions issued to the principals to send the identified students and faculty- reg
Ref:	1. Rc.No.C/451977/Acad/RDC/2022 of Secretary, TGTWREIS Date:16.04.2024 2.Letter received from Vigyan Shaala Dt.27.08.2024 3.Instructions of the Secretary, TGTWREIS

\*\*\*\*

Gurukulam has been organizing numerous programs for the students of TGTWRDCs in the field of career guidance, employability & higher education etc to provide unlimited opportunities. As a part of Kalpana - She for STEM Program, the women student of RDCs have participated in over 30+ hours of live classes and interacted with 8+ industry experts and scientists from leading global universities to successfully place every fellow on a high confidence STEM career path. Accordingly, vide ref. 1<sup>st</sup> cited, (285) students & (15) lecturers of RDCs have attended one day conference on "Reimagining possibilities for women in STEM careers" on 22.04.2024 at Tagore Auditorium, OU, Hyderabad.

Further Vide reference 2<sup>nd</sup> cited, the CEO of VigyanShaala has requested the Secretary, TGTWREIS to permit (30) identified students & (15) mentors to attend one day workshop on **21.10.2024** at TIFR (Tata Institute of Fundamental Research) - Hyderabad by which students will get laboratory experience and interaction with the professors of the TIFR to understand the higher education & internship opportunities.


After careful examination, it is decided to send the identified (30) students & (15) mentors to attend one day workshop at TIFR (Tata Institute of Fundamental Research) Hyderabad. Also, a team of (3) members from Fine Arts Siricilla are directed for photography along with the equipment to cover the program.

In this regard the principals of TGTWRDCs for women are here by directed to follow the given directions.

LIST OF FACULTY NOMINATED FOR PROJECT KALPANA-TIFR VISIT ON 21-10-2024

List of faculty nominated for Project Kalpana - TIFR Visit - 2024 Annexure - I I

S. No	Name of the college	Name of the Faculty
1	TTWRDC Asifabad	K. Arunakumari
2	TTWRDC Dammapeta	S. Sudha Rani
3	TTWRDC Devarakonda	Ch. Vijayalaxmi
4	TTWRDC Janagani	Dr. Vasudha
5	TTWRDC Khammam	Dr. Syeda Zeenath
6	TTWRDC Kothagudem	B. Kaveri
7	TTWRDC Mahabubabad	Dr. B. Uma
8	TTWRDC Mahabubnagar	Sri Iaxmi
9	TTWRDC Medak	Raja Rajeshwari
10	TTWRDC Nizamabad	Hina
11	TTWRDC Shadnagar	T. Parameshwari
12	TTWRDC Siricilla	Dr. Gousia Begum
13	TTWRDC Suryapeta	O. Komali
14	TTWRDC Utnoor	Rani Chendyala
15	TTWRDC Mulugu	Mounika
16	FAA Siricilla	Swargam Pravatika
17	FAA Siricilla	Pogula Roja
18	FAA Siricilla	Chetpalli Suresh
19	TG TWREIS Head Office	Dr. G. Neeraja Sinha
20	TG TWREIS Head Office	Dr. Satheesh Goud

  
 PRINCIPAL  
 JELANGANA TRIBAL WELFARE  
 Residential Degree College (Girls)  
 ASIFABAD-504 293,  
 Kumram Bheem Asifabad District

K. Arunakumari  
 (DL in microbiology)

x M. Seniya

SHORTLISTED CANDIDATES FOR TIFR VISIT ON 21-10-2024

2024

Students shortlisted for TIFR Visit - Project Kalpana - (Annexure - I)

Name of College	Name of the Student	Email
TTWRDC Asifabad(Women)	M. Jangubai	mesramjangubai303@gmail.com
TTWRDC Asifabad(Women)	M. Soniya	soniyamankare1@gmail.com
TTWRDC Dammapeta(Women)	T. Sravani	thatsravani21@gmail.com
4 TTWRDC Dammapeta(Women)	S. Janaki	sunnamjanaki05@gmail.com
5 TTWRDC Devarakonda(Women)	D. Gangothri	dhanavathgangothri2005@gmail.com
6 TTWRDC Devarakonda(Women)	K. Akhila	akhila964070@gmail.com
7 TTWRDC Janagaon(Women)	B. Mounika	golusulamadhu3@gmail.com
8 TTWRDC Janagaon(Women)	Y. Manga	manga.ayelumula123@gmail.com
9 TTWRDC Khammam(Women)	K. Anitha	anithakursam4@gmail.com
10 TTWRDC Khammam(Women)	B. Rangamma	rangammabanoth8@gmail.com
11 TTWRDC Kothagudem(Women)	G. Mohitha Varshini	mohithagorre4@gmail.com
12 TTWRDC Kothagudem(Women)	M. Anjali	anjali mudiga555@gmail.com
13 TTWRDC Mahabubabad(Women)	Hampi	ravinderdharavath63@gmail.com
14 TTWRDC Mahabubabad(Women)	B. Lavanya	gugulothvijay536@gmail.com
15 TTWRDC Mahabubnagar(Women)	B. Geetha	bijjaramgeetha@gmail.com
16 TTWRDC Mahabubnagar(Women)	G. Varalaxmi	gorlavaralaxmi850@gmail.com
17 TTWRDC Medak(Women)	T. Harika	harikatadam23@gmail.com
18 TTWRDC Medak(Women)	G. Meena	meenagugloth803@gmail.com
19 TTWRDC Mulugu(Women)	Rega Anuradha	regaanuradha@gmail.com
20 TTWRDC Mulugu(Women)	Esam Saritha	sarithaesamsaritha@gmail.com
21 TTWRDC Nizamabad(Women)	K. Vaishnavi	karnivaishnavi4@gmail.com
22 TTWRDC Nizamabad(Women)	J. Swathi	jadhavswathibzc@gmail.com
23 TTWRDC Shadnagar(Women)	M. Poojitha	mudavathpoojitha77@gmail.com
24 TTWRDC Shadnagar(Women)	M. Chandana	praveenmanupati05@gmail.com
25 TTWRDC Siricilla(Women)	Guguloth Ashwitha	gugulothashu25@gmail.com
26 TTWRDC Siricilla(Women)	Guguloth Karunya	gugulothsony2004@gmail.com
27 TTWRDC Suryapeta(Women)	Derangula Vaishnavi	vaishnaviderangula28@gmail.com
28 TTWRDC Suryapeta(Women)	Vaddepalli Lavanya	lavanyavaddepalli123@gmail.com
29 TTWRDC Utnoor(Women)	A. Rajeshwari	rajeshwariakularajam@gmail.com
30 TTWRDC Utnoor(Women)	S. Sandhya	sidamsandhya0046@gmail.com



Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/  
Exhibition/Welcome function/Farewell function/Sport Activities/NSS activities  
/NCC activities etc.)

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P. Princy Priyanka
3. Title of the Activity: Quiz
4. Dates: 08.01.2022
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): Department (International / National / State /  
University / District / College / Department etc.)
7. Target group: Students
8. Number of Participants: 20
9. Brief summary of event:
10. Photographs (with captions) submitted (number):



**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P.Princy Priyanka
3. Title of the Activity: Poster Presentation
4. Dates: 28.12.2021
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State / University / District / College / Department etc.)
7. Target group: Students, Staff
8. Number of Participants:
9. Brief summary of event:
10. Photographs (with captions) submitted (number):



**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P.Princy Priyanka
3. Title of the Activity: Student Seminars
4. Dates: 04.02.2022
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State /  
University / District / College / Department etc.)
7. Target group: Students, Staff
8. Number of Participants:
9. Brief summary of event:
10. Photographs (with captions) submitted (number):



**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P. Princy Priyanka
3. Title of the Activity: Science Day celebrations
4. Dates: 28.02.2022
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State /  
University / District / College / Department etc.)
7. Target group: Students ,Staff
8. Number of Participants:
9. Brief summary of event:
10. Photographs (with captions) submitted (number) :



**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P.Princy Priyanka
3. Title of the Activity: Workshop on Blood Grouping, RBC and WBC count
4. Dates: 28.03.2022
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State /  
University / District / College /Department etc.)
7. Target group: Students ,Staff
8. Number of Participants:
9. Brief summary of event:
10. Photographs (with captions) submitted (number) :



**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P. Princy Priyanka
3. Title of the Activity: SWAYAM Online course
4. Dates: 28.04.2022
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State /  
University / District / College / Department etc.)
7. Target group: Students, Staff
8. Number of Participants:
9. Brief summary of event:
10. Photographs (with captions) submitted (number):



**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P. Princy Priyanka
3. Title of the Activity: World AIDS day Quiz Competition
4. Dates: 01.12.2022
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State / University / District / College / Department etc.)
7. Target group: Students, Staff
8. Number of Participants:
9. Brief summary of event:
10. Photographs (with captions) submitted (number):



**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P. Priyanka
3. Title of the Activity: World Pneumonia Day
4. Dates: 12.11.2022
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State / University / District / College / Department etc.)
7. Target group: Students, Staff
8. Number of Participants:
9. Brief summary of event:
10. Photographs (with captions) submitted (number):





**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P. Princy Priyanka
3. Title of the Activity: Science day celebrations “Poster presentation”
4. Dates: 28.02.2023
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State /  
University / District / College / Department etc.)
7. Target group: Students, Staff
8. Number of Participants:
9. Brief summary of event:
10. Photographs (with captions) submitted (number):



**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name:
3. Title of the Activity:
4. Dates:
5. Venue of the Event
6. Level of the event (encircle): College (International / National / State /  
University / District / College / Department etc.)
7. Target group: Students, Staff
8. Number of Participants: 20
9. Brief summary of event:
10. Photographs (with captions) submitted (number):



**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P. Princy Priyanka
3. Title of the Activity: World Leprosy Eradication Day
4. Dates: 30.01.2023
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State /  
University / District / College / Department etc)
7. Target group: Students, Staff
8. Number of Participants: 20
9. Brief summary of event:
10. Photographs (with captions) submitted (number):

**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name:
3. Title of the Activity:
4. Dates:
5. Venue of the Event:
6. Level of the event (encircle): College (International / National / State / University / District / College / Department etc.)
7. Target group: Students, Staff
8. Number of Participants: 20
9. Brief summary of event:
10. Photographs (with captions) submitted (number):



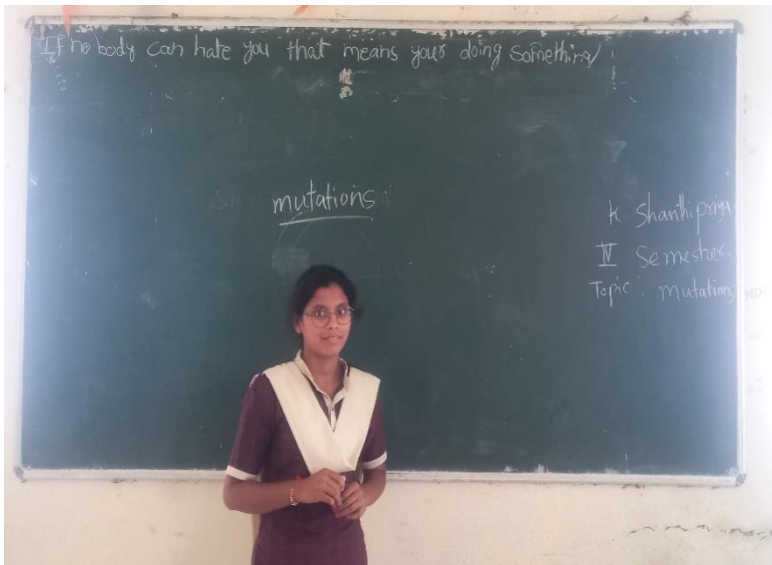
**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P. Princy Priyanka
3. Title of the Activity: World Tuberculosis day
4. Dates: 24.03.2022
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State /  
University / District / College / Department etc.)
7. Target group: Students, Staff
8. Number of Participants:
9. Brief summary of event:
10. Photographs (with captions) submitted (number):



**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P. Princy Priyanka
3. Title of the Activity: Student Seminars
4. Dates: 21.04.2023
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State /  
University / District / College / Department etc.)
7. Target group: Students, Staff
8. Number of Participants:
9. Brief summary of event:
10. Photographs (with captions) submitted (number):



**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P. Princy Priyanka
3. Title of the Activity: Field trip
4. Dates: 12.05.2023
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State /  
University / District / College / Department etc.)
7. Target group: Students, Staff
8. Number of Participants:
9. Brief summary of event:
10. Photographs (with captions) submitted (number):



**Conference/Workshop/Symposium/Guest Lecture/Special Day Celebration/ Exhibition/  
Welcome function/Farewell function/Sport Activities/NSS activities/NCC activities etc.)**

1. Name of the Department: Microbiology
2. Co-ordinator/convenor Name: P. Princy Priyanka
3. Title of the Activity: National Nutrition week
4. Dates: 1.09.2023- 07.01.2023
5. Venue of the Event: TTWRDC (W) Asifabad
6. Level of the event (encircle): College (International / National / State /  
University / District / College / Department etc.)
7. Target group: Students, Staff
8. Number of Participants:
9. Brief summary of event:
10. Photographs (with captions) submitted (number):





# **Telangana Tribal Welfare Residential degree college for Women Asifabad**

**08/1/2022**

## **Quiz Competition**



A Quiz competition is conducted in the subject of Microbiology. Students of BSc MB.Z.C I yr, MB.Z.C II yr, MB.Z.C III year Participated in the quiz competition. Students are divided into 3 groups named as Group A,B and C.The quiz has 3 rounds .All the rules and regulations were explained in the beginning. Among the three groups, Students of Group – B got 20 Points and won 1<sup>st</sup> Prize .Students felt very happy for organizing the quiz competition as they gained knowledge by the questions and answers in the quiz.

## **STUDENT SEMINAR**

**27/2/2021**



### **STUDENTS SEMINAR**

Students seminars are organized in the subject of Microbiology as Part of Departmental activity. Students of BSc MB.Z.C I yr, II yr, 3<sup>rd</sup> yr Participated and Presented their topics. Student felt excite to present their topics .After the presentation we have given suggestions so that they may not repeat the mistakes and Prepare well

**04/02/2022**



## **SEMINARS**

Student's seminars are organized in the subject of Microbiology as Part of Departmental activity. Students of BSc MB.Z.C I yr, II yr, 3rd yr Participated and Presented their topics. Student felt excite to present their topics .After the presentation we have given suggestions so that they may not repeat the mistakes and Prepare well for the next time

**25/11/2022**



## **SEMINARS**

Students seminars are organized in the subject of Microbiology as Part of Departmental activity. Students of BSc MB.Z.C I yr, II yr, 3<sup>rd</sup> yr Participated and Presented their topics.

K. Shanthi Priya MB.Z.C IV SEM- Mutations

K. Sheethal MB.Z.C I V SEM – Mitosis

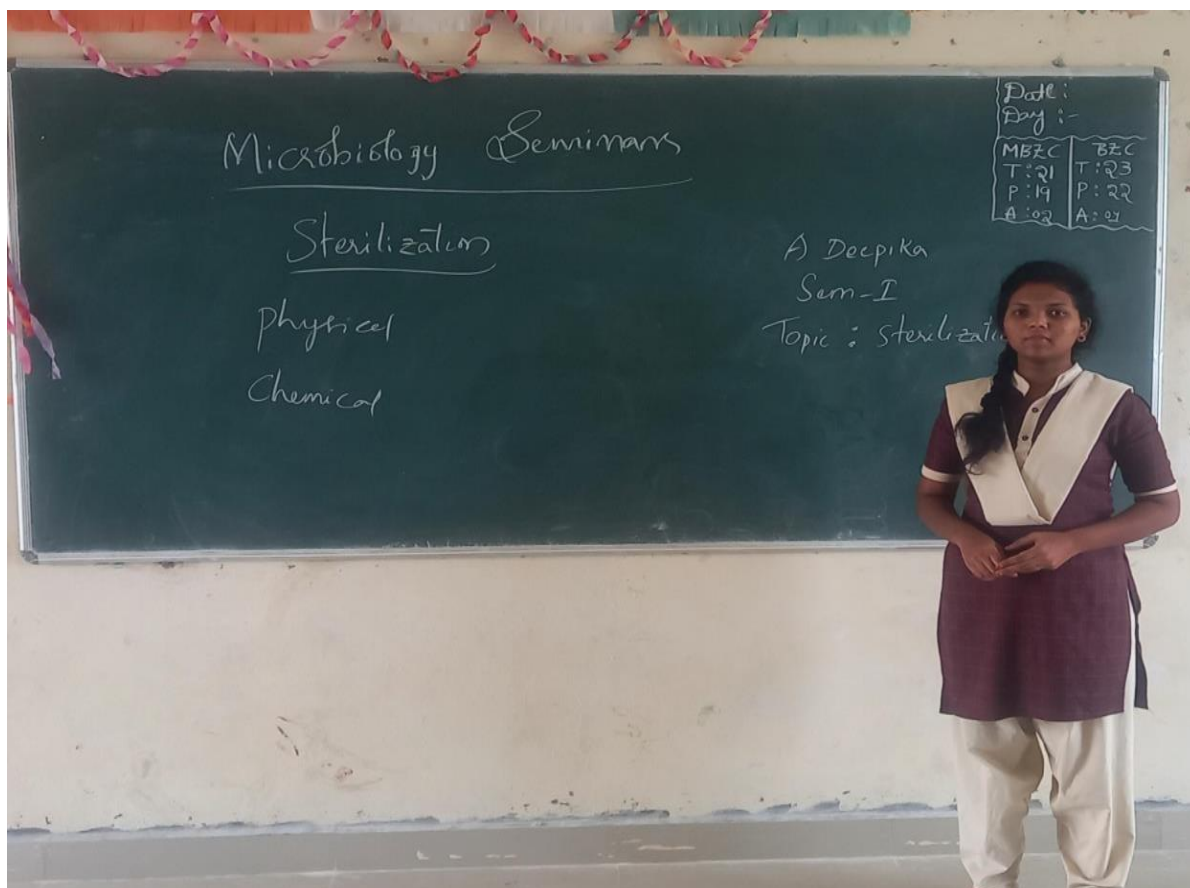
P. Padma MB.Z.C II SEM- Buffer system

Hindhuja MB.Z.C II SEM - Chromatography

R. Priyanka MB.Z.C VI SEM - MPN Method presented the respective topics.

Student felt excite to present their topics. After the presentation we have given suggestions so that they may not repeat the mistakes and Prepare well for the next time.

21/04/2022



Student's seminars are organized in the subject of Microbiology as Part of Departmental activity. Students of BSc MB.Z.C I yr, II yr, 3<sup>rd</sup> yr Participated and Presented their topics.

A.Deepika	BSc.MB.Z.C SEM I	– Sterilization
K.Anusha	BSc.MB.Z.C SEM III	– Influenza virus
CH.Sujatha	BSc.MB.Z.C SEM III	- Antibodies
K.Nikshitha	BSc.MB.Z.C SEM V	– Fermentation media

Student felt excite to present their topics .After the presentation we have given suggestions so that they may not repeat the mistakes and Prepare well for the next time.

01/12/2022

## Quiz Competition



A Quiz competition is conducted in the subject of Microbiology on the occasion of WORLD AIDS DAY celebrated on December 1<sup>st</sup> every year. Students of B. Sc. MB.Z.C I yr, MB.Z.C II yr, MB.Z.C III year Participated in the quiz competition. Various questions relating to AID disease were asked. Students are divided into 3 groups named as Group A, B and C. The quiz has 3 rounds. All the rules and regulations were explained in the beginning. Among the three groups, Students of Group – A won 1<sup>st</sup> Prize .Students felt very happy for organizing the quiz competition as they gained knowledge by the questions and answers in the quiz competition.

28/12/2021

## Department of Microbiology



### POSTER PRESENTATION

We have organized a poster presentation program as part of Departmental activity. Students of B. Sc. MB.Z.C I, II,III years Participated in the presentation program. The posters were colourfully presented with different themes and useful information was presented in the posters.

28/02/2023

## DEPARTMENT OF MICROBIOLOGY



### POSTER PRESENTATION

We have organized a poster presentation program on National Science Day on February 28 2023. Students of B. Sc. MB.Z.C I, II, III years Participated in the presentation program. The posters were colourfully presented with different themes and useful information was presented in the posters. They have also prepared models and presented the.



12/01/2021



TELANGANA TRIBAL WELFARE RESIDENTIAL  
DEGREE COLLEGE FOR WOMEN ASIFABAD

DIST:KUMRAMBHEEM ASIFABAD-T.S

*Affiliated to Kakatiya University*



DEPARTMENT OF MICROBIOLOGY

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Google Meet

Cordially Invites You to a

WEBINAR  
ON



KEYNOTE SPEAKER



Dr. T.Sujatha, M.Sc, Ph.D  
Assistant professor of Microbiology  
Kakatiya Government College,  
Hanamkonda

*“Production of Vaccines”*

*Programme Coordinator*

*P.Princy Priyanka*

WEBINAR CONVENER



Smt. T.DhanaLaxmi , M.COM  
Principal(FAC)  
TTWRDC(W)-ASIFABAD

## DEPARTMENT OF MICROBIOLOGY WEBINAR

A Webinar has been organized by Department of Microbiology on 12.01.2021 at 11AM on the topic “Production of Vaccines”. The speaker of the webinar is Dr. T. Sujatha, M.Sc., Ph. D Asst Professor, Kakatiya Government Degree college, Hanamkonda. In this webinar explained about the principle of vaccine Production, Steps in vaccine production, Different approaches to Corona virus vaccine. 70 members joined in this Webinar. Queries were posed by the audience .Speaker cleared the Queries posed by audience.

**DEPARTMENT OF MICROBIOLOGY**  
**FIELD TRIP TO MISSION BAGIRATHA PROJECT,**  
**KUMRAMBHEEM ASIFABAD**

**Date: 12.05.2022**

**Introduction**

Mission bagiratha project is located at Ada in Kumrambheem Asifabad District.

Mission Bhagiratha is a project aimed at reducing the burden of diseases caused by drinking contaminated water and improving the living standards of the people.

**Aim:** To study on the process of purification of water

**Objectives:**

- To know the process of purification of water
- To know about the stages of purification of water
- To enculcate the knowledge machinery used in the process of purification of water
- To gain the knowledge of treatment of water, Microbiological analysis of water and the process of distribution of water through pipes.





**FIELD TRIP TO MISSION BAGIRATHA PROJECT,  
KUMRAMBHEEM ASIFABAD**

**Date: 16.11.2021**

## **Introduction**

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