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SDG 14
LIFE BELOW WATER

Sustainable Development Goal 14 titled “Life Below Water,” is designed to address these challenges by conserving and sustainably using the oceans, seas, and marine resources for sustainable development. It aims to ensure the health and resilience of the oceans and coasts, recognizing their intrinsic value to human survival and well-being by providing food and energy resources. Thus, a balanced, sustainable approach to ocean management is crucial for global prosperity and environmental stability.

A major goal is to significantly reduce marine pollution by 2025, focusing on land-based activities that contribute pollutants such as plastic waste and chemicals. Efforts to address climate change are integral to this target, as reducing CO2 emissions can slow the process of ocean acidification which threatens coral reefs and marine life. Promoting public awareness about marine issues and the importance of oceans for a balanced Earth system can drive collective action and behavioural change.

Santosh University contributes to achieving SDG 14 by integrating sustainability into its curricula, fostering research initiatives and encouraging community involvement in preserving local waterways. Collaborative projects with governmental and non-governmental organizations can further enhance these efforts leading to actionable outcomes and greater awareness. Life below water is intricately connected to the broader health of our planet and humanity’s well-being and ensure their sustainable use.



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SDG 14.1

RESEARCH ON LIFE BELOW WATER



Santosh (Deemed to be) University

No.1, Santosh Nagar, Ghaziabad, UP, India © 60172682

502

Documents ⓘ

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Structure

Collaborators

New

Sustainable Development Goals 2023

New: See at one glance Sustainable Development Goals mapped to this organisation

Sustainable Development Goals (SDGs) are specific research areas that are helping to solve real-world problems. Elsevier data science teams have built extensive keyword queries, supplemented with machine learning, to map documents to SDGs with very high precision. Times Higher Education (THE) is using Elsevier SDG data mapping as part of its Impact Rankings. [More about SDGs](#) ↗

[← Back](#)

1 document for *Life below water*

Review

Exploring Cutting-Edge Approaches in Anaerobic Digestion and Anaerobic Digestate Management

Mariappan, I., Prabhakaran, R., Vivekanand, V., ...Regurajan, R., Subramanian, V.

ChemBioEng Reviews, 2024

Display 10 results 

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SDG 14.2

**SUPPORTING AQUA SYSTEM
EDUCATION THROUGH EDUCATION**

B.Sc Clinical Nutrition and Dietetics

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Medical College

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Eligibility Criteria

- Passed 10+2 with Physics, Chemistry, Botany & Zoology/ Biology including English
- An equivalent qualification from a Recognized Board.

Course Outline

First Semester:

- Food Science-I
- Food Sanitation & Hygiene/Food Safety & Quality Control
- English Communication Skills [Compulsory]
- Basic Computer

Second Semester:

- Food Science- II
- Food Processing and Technology /Food Additives and Adulterants
- **Environmental Education [Compulsory]**
- Yoga & stress management

Third Semester:

- Basic Nutrition

B.Optometry (B.Optom)

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Medical College

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Eligibility Criteria

Some common eligibility criteria are:

Selection procedure:

1. He/she has passed the higher secondary 10 + 2 or equivalent examination recognized by any Indian University or a dually constituted board with pass marks 45% in physics chemistry biology mathematics PCB or PCM

OR

Diploma in optometry after completing 12th class / 10 + 2 of CBSE or equivalent with minimum aggregate of 45% marks in physics chemistry and biology mathematics provided the candidate has passed in each subject separately.

2. Candidates who have passed the senior secondary school examination of National open school with the minimum of 5 subjects with any of the following group subjects.

(a.) English, Physics, chemistry, botany, zoology

(b.) English physics chemistry biology/mathematics and any other language.

3. He/she has completed the age of 17 years as on 31st December of the year of the admission.

4. He/she has to furnish at the time of submission of the application form a certificate of physical fitness from our registered medical practitioner and two references from persons other than relatives specifying to satisfactory general character.

5. Admission to a bachelor in optometric course shall be made on the basis of eligibility and an entrance test to be conducted for the purpose.

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- Nutrition

Second Semester:

- Ocular Anatomy & Physiology
- Physical Optics & Geometrical Optics II
- **Environmental Education [Compulsory]**
- Hospital Management

Third Semester:

- Ocular microbiology & Biochemistry
- Ocular Pathology & Pharmacology
- Optometric Optics
- Basic Of Computers
- Bio Medical Waste Management

Fourth Semester:

- Optometric instrument
- Dispensing Optics
- Optometric Optics
- Visual Optics
- Introduction to Entrepreneurship

Fifth Semester:

- Geriatric Optometry & Pediatric Optometry
- Systemic Disease & low Vision Care
- Contact Lens
- Clinical Examination of Visual System
- Binocular Vision

Sixth Semester:

- Occupational Optometry
- Ocular Disease & Glaucoma
- Public Health & community Optometry
- Medical law & Ethics of Optometry
- BLS & ACLS [AHA Certification]

Seventh & Eighth Semester:

- Internship [Non CGPA]

Career Prospective

Optometry is a branch of healthcare that deals with the examination, diagnosis, and treatment of visual problems and other related disorders. As a professional, a Bachelor of Optometry (B.Optom) degree holder has several career options available to them, including:

Optometrist: An optometrist is a licensed eye care professional who performs eye exams, diagnoses and treats visual problems, and prescribes corrective lenses or other treatments to improve vision.

Ophthalmologist: An ophthalmologist is a medical doctor who specializes in eye and vision care. They diagnose and treat eye diseases, perform surgeries, and prescribe medications.

B.Sc Anaesthesia and Operation Theatre Technology

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Eligibility For Admission

A candidate seeking admission to the Bachelor of Science - Anaesthesia technology shall have passed:

Educational Qualification: Candidates must have completed 10+2 or equivalent examinations from a recognized board with Physics, Chemistry, and Biology as core subjects. Some institutions may also require a minimum aggregate score of 50% in these subjects.

Age Limit: Candidates must be at least 17 years of age at the time of admission.

1) The two year Pre-University examination or equivalent as recognized by SDBTU with Physics, Chemistry and Biology as principal subjects of study.

OR

2) Pre Degree Course from a recognized university (two years after ten years of schooling) with Physics, Chemistry and Biology as principal subjects of study.

OR

3) Any equivalent examination recognized by SDBTU for the above purpose with Physics, Chemistry and Biology as principal subjects of study.

II. Duration Of Course:

The duration of the Course shall be for a period of three years.

III. Medium Of Instruction:

The medium of instruction and examination shall be English.

IV. Scheme Of Examination:

There shall be three examinations during the course, each at the end of the first, second, third year.

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- Biomedical Waste Management

Second Semester:

- Basics of Pre & Para Clinical Medicine: Biochemistry & Pharmacology
- Introduction to Operation Theatre Technology
- **Environmental Education [Compulsory]**
- From Pool of Generic Elective Courses of other discipline

Third Semester:

- Basics of Para Clinical Medicine: Pathology & Microbiology
- Principles of Anesthesia - I
- Introduction to Quality & Patient Safety
- SWAYAM / MOOCS / NPTEL / Institution offered Skill courses
- From Pool of Generic Elective Courses of other discipline

Fourth Semester:

- Basics of Clinical Medicine: Medicine & Surgery
- Principles of Anesthesia - II
- Labor Analgesia
- SWAYAM / MOOCS / NPTEL / Institution offered Skill courses
- Introduction to Entrepreneurship

Fifth Semester:

- OTT Clinical - I
- OTT Applied - I
- OTT Advanced - I
- Trauma Evaluation and Management
- SWAYAM / MOOCS / NPTEL / Institution offered Skill courses

Sixth Semester:

- OTT Clinical - II
- OTT Applied - II
- OTT Advanced - II
- Interventional Cardiology
- SWAYAM / MOOCS / NPTEL / Institution offered Skill courses
- BLS & ACLS [AHA Certification]

Seventh & Eighth Semester:

Internship [Non CGPA]

Career Prospectives

Anesthesia Technologist: An Anaesthesia technologist assists the anaesthesiologist during surgeries, procedures and performs Anaesthesia-related procedures under the supervision of a licensed anaesthesiologist.

Operation Theatre Technologist: An operation theater technologist sets up the operation theater before surgery, sterilizes instruments, and assists surgeons during procedures.

Surgical Assistant: A surgical assistant is responsible for providing assistance to surgeons during surgical procedures. They can work in various medical settings, including hospitals, outpatient surgical centers, and private clinics.

Healthcare Educator: Healthcare educators work in hospitals and other medical facilities to educate healthcare professionals on the latest medical technologies, best practices, and procedures.

Medical Device Sales: Graduates can also work for medical device companies, selling surgical equipment and supplies to healthcare facilities.



B.Sc. in Emergency & Trauma Care Technology

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Eligibility Criteria

Science Graduates with Physics, Chemistry, and Biology are eligible. Admissions to the courses will be governed by the conditions laid down by the University from time to time and as published in the Regulations for admissions each year.

Duration of the Course: 4 Years (3 years + 1 year Internship)

Internship wherever specified are integral part of the course and needs to be done in Santosh Deemed to be University, Ghaziabad itself.

Course Outline

First Semester:

- Anatomy + Physiology
- Biochemistry
- English
- Basic Computer

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- Pharmacology
- Microbiology
- Basic Principle of Hospital Management
- Personality Development
- **Biomedical Waste Management**

**Fourth Semester:**

- Emergency Medicine & Medical Services Part 1
- Emergency Medicine & Medical Services Part 2
- Basics of Nursing
- Fundamentals of Emergency Medical Care
- Good Clinical Practices

Fifth Semester:

- Trauma 1
- Trauma 2
- Patient Care
- Emergency Diagnostic Measures
- Emergency Drugs

Sixth Semester:

- Patient assessment & drug administration Part 1
- Patient assessment & drug administration Part 2
- Triaging
- Ambulance field operation
- Biostatistics

Seventh & Eighth Semester:

- Internship [Non CGPA]

Career Prospectives

Graduates with a BSc. in Emergency & Trauma Care Technology have a wide range of career opportunities in the field of emergency and trauma care. Some potential career prospects include:

Emergency Medical Technician (EMT): Respond to emergencies, provide immediate care to patients, and transport them to healthcare facilities.

Paramedic: Offer advanced pre-hospital care, including administering medications and performing life-saving procedures.

Emergency Room Technician: Assist medical staff in emergency departments, ensuring efficient patient care during critical situations.

Trauma Nurse: Specialize in trauma care, managing patients with critical injuries in emergency departments or trauma Centers.

Flight Paramedic/Flight Nurse: Work on medical helicopters or airplanes, providing rapid transport and care to critically ill or injured patients.

Emergency Department Manager: Oversee the operations of emergency departments, ensuring efficient workflows and patient care.

Trauma Coordinator: Coordinate trauma care services, facilitate quality improvement, and ensure compliance with trauma center standards.

Emergency Medical Services (EMS) Educator: Teach EMT and paramedic courses in educational institutions.

Emergency Preparedness and Disaster Management Specialist: Plan and coordinate responses to disasters and mass casualty incidents.

Critical Care Transport Specialist: Manage and transport critically ill patients between healthcare facilities.

Researcher in Trauma Care: Contribute to trauma-related research, improving protocols and patient outcomes.

Healthcare Administrator: Assume administrative roles in healthcare institutions, focusing on emergency and trauma care services.

BSc Critical Care Technology

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Medical College

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Eligibility Criteria

Completion of 10+2 or equivalent with 12 years of schooling from a recognized board or university. Minimum 35% marks in each subject, including English, for all categories.

Course Outline

First Semester:

- Basics of Pre-Clinical Medicine: Anatomy & Physiology
- Hospital Infection Control
- English Communication Skills [Compulsory]
- **Biomedical Waste Management**

Second Semester:

- Basics of Pre & Para Clinical Medicine: Biochemistry & Pharmacology

Dental College



SANTOSH INSTITUTE OF ALLIED HEALTH SCIENCES

☎ [07838554486](tel:07838554486)

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Overview

A **Bachelor of Medical Laboratory Science (BMLS)** program is a four-year undergraduate degree that prepares students to become medical laboratory scientists or clinical laboratory scientists. These professionals work in clinical laboratories, hospitals, research facilities, and public health agencies to analyze patient samples, such as blood, urine, tissue, and body fluids, to diagnose and treat diseases.

The program includes courses in the medical field, such as anatomy, physiology, microbiology, immunology, biochemistry, hematology, and molecular biology. In [Santosh Medical Laboratory Technology College](#), students also receive training in laboratory techniques, quality control, data analysis, and research methods. In addition, students may have the opportunity to participate in clinical internships or rotations to gain hands-on experience in a real-world laboratory setting.

Graduates of a **BMLS program** are eligible to take certification exams offered by organizations such as the American Society for Clinical Pathology (ASCP) or the National Credentialing Agency for Laboratory Personnel (NCA). Certification is typically required for employment in clinical laboratories and may enhance job prospects and earning potential. They can pursue for higher education such as [PhD in Lab Science](#) directly as credit score system approach will be used for assessment during course.

Overall, a *Bachelor of Medical Laboratory Science* degree prepares students for a rewarding career in healthcare field as technical person, research scientist, quality manager in accredited laboratories and as administrative person in health care settings, teaching faculty in colleges with opportunities for advancement and specialization.

Program Objectives

- Proficient perform a comprehensive range of clinical laboratory tests.
- Develop and assess testing methodologies and interpretive protocols.
- Efficiently manage data to facilitate prompt, precise, and cost-effective reporting of laboratory findings.
- Gather and handle specimens (including infectious samples like blood, urine, stool, sputum, pus, semen, tissues, and bodily fluids) for diverse biochemical, pathological, microbiological, hematological, and blood bank analyses.
- Supervise the inventory of laboratory reagents and diagnostic kits.
- Uphold stringent quality control measures to ensure the reliability of laboratory results.
- Technologists' roles have shifted towards increased analytical work due to automation and computer technology integration.
- The complexity of tests, required judgment and level of responsibility are contingent on the technologists' educational background and experience levels.
- Embracing a lifelong learning journey, students will relate Physiotherapy concepts to serve society's needs, ensuring a highly productive career.

[Click here to read about SANTOSH MEDICAL LABORATORY TECHNOLOGY COLLEGE.](#)

Eligibility Criteria

The eligibility criteria for a Bachelor of Medical Laboratory Science (BMLS) degree program may vary depending on the institution offering the program. However, some common eligibility criteria are:

Educational Qualification: Candidates should have completed their 10+2 or equivalent examination in science stream with physics, chemistry, and biology as core subjects.



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A Bachelor of Medical Laboratory Science (BMLS) program typically takes 4 years to complete and provides students with the theoretical knowledge and practical skills necessary to work in a medical laboratory. Below is a sample course outline for a BMLS program:

First Year:

Semester I

Basic Computer & Information Science

English Communication & Soft Skill

Introduction Two Quality & Patient Safety

Medical Law & Ethics

Basic Preventive Medicine & Community Health Care

Environmental Sciences

Semester II

General Clinical Microbiology

Basic Hematology & Clinical Pathology

Basic Clinical Biochemistry

Human Anatomy & Physiology

General Clinical Microbiology (P)

Basic Hematology & Clinical Pathology(P)

Basic Clinical Biochemistry(P)

Human Anatomy & Physiology(P)

Second Year:

Semester III

Systematic Bacterial

Basics Basic of Hematological Disease

Biochemical Metabolism

Fundamentals of Histology

Systematic Bacterial(P)

Basics Basic of Hematological Disease(P)

Biochemical Metabolism (P)

Fundamentals of Histology(P)

Semester IV

Applied Bacteriology

Applied Haematology-I

Analytical Clinical Biochemistry

Applied Histopathology -I

Applied Bacteriology (P)

Applied Haematology-I (P)

Analytical Clinical Biochemistry (P)

Applied Histopathology -I (P)

Third Year:

Semester V

Immunology & Bacterial Serology

Applied Haematology-II

Applied Clinical Biochemistry-I

Applied Histopathology -II

Immunology & Bacterial Serology (P)

Applied Haematology-II (P)

Applied Clinical Biochemistry-I (P)

Applied Histopathology -II (P)



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SDG 14.3

SUPPORTING AQUA SYSTEM THROUGH ACTION



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(Established u/s 3 of the UGC Act, 1956)

Water Conservation Facilities Available in the Institution:

1. Rain Water Harvesting



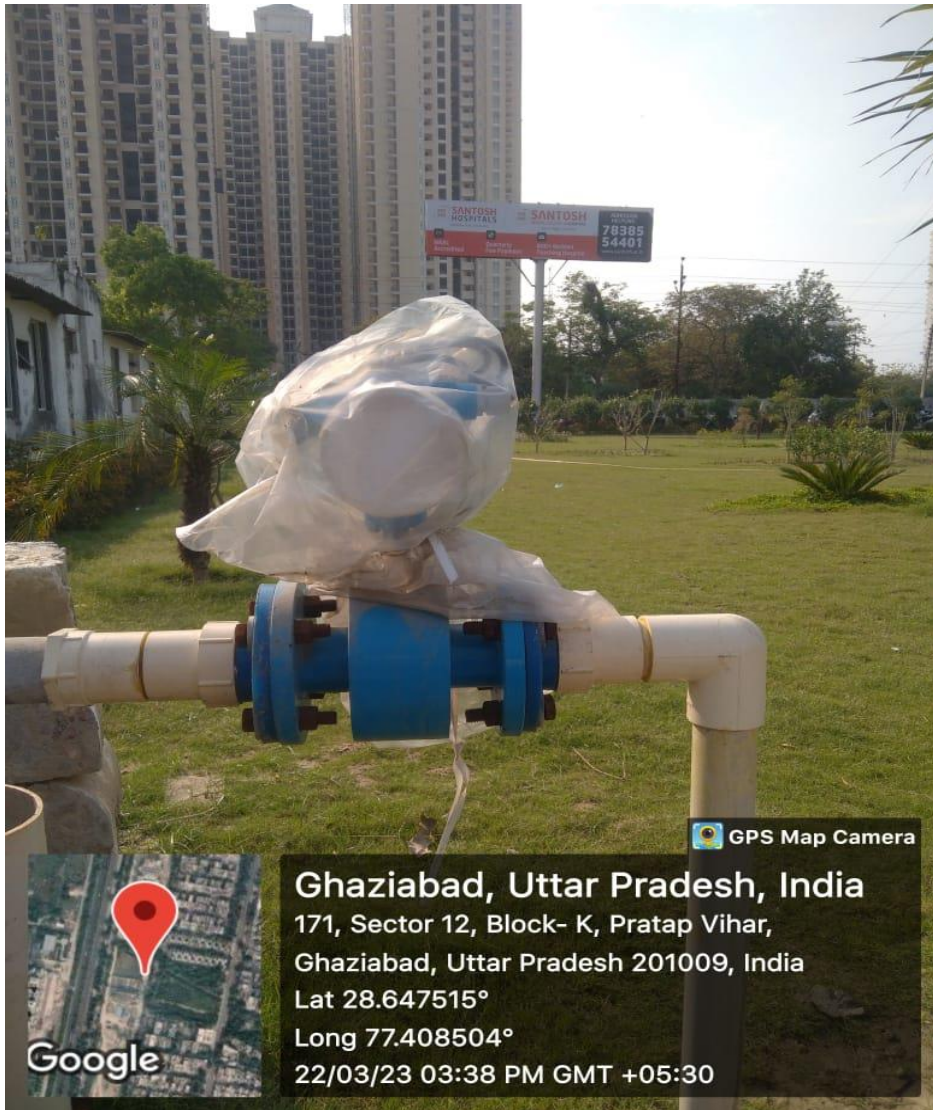
2. Bore well/Open well Recharge



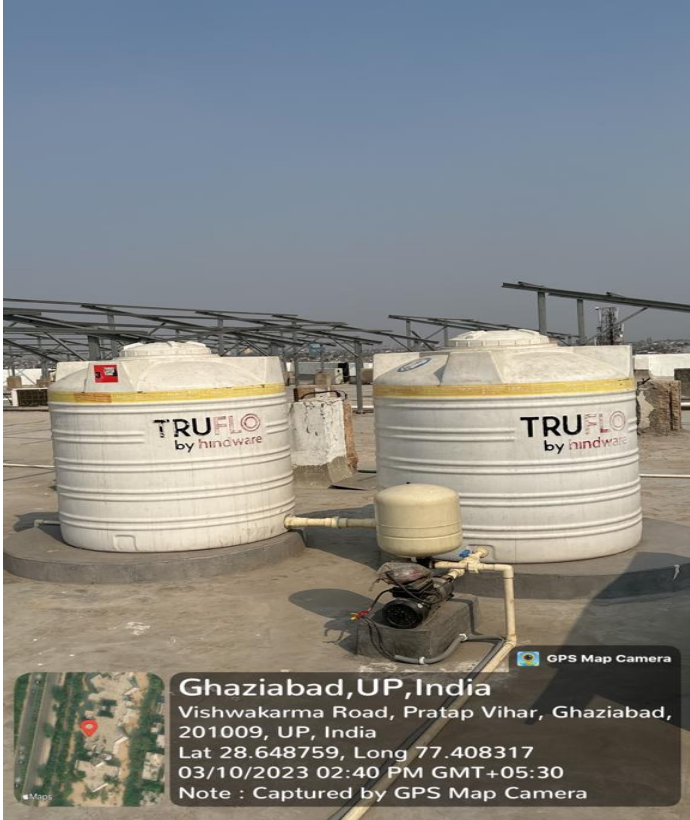
3. Construction of Tanks and Bunds



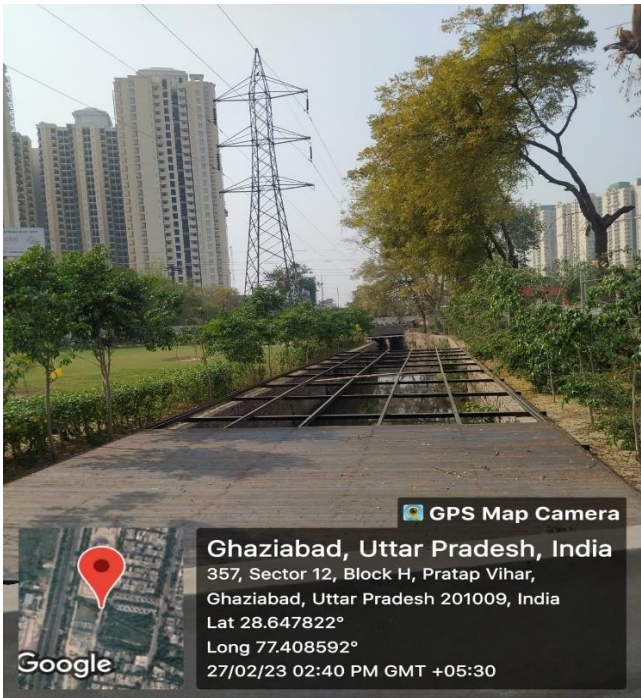
4. Waste Water Recycling



5. Maintenance of water bodies and distribution system in the campus



Water Distribution System



Maintenance of Water Bodies



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Camp Report

Awareness session on water conservation

VENUE : Purva Madhyamik Vidyalaya, Sultanpur, Muradnagar, District
Ghaziabad

DATE : 28-01-2020

Students Participated : 46

No of teachers : 7

ORGANIZED : Department of community Medicine, Santosh Medical
collage

PATIENTS SCREENED :

REPORT

- A special drive was conducted by 1 MBBS students, PGs & Interns posted in the department of Community Medicine, to create awareness on water conservation & eliminating use of Plastic among the residents & School students of the selected villages.
- A rally was carried out within the villages by Medical students, Interns, PGs Faculty - IEC materials prepared by Students during the preparatory phase slogans
- regarding importance of water conservation & Plastic elimination were used. Residents & school children were made aware of the various ways which they can adopt in their day to day life to reduce environmental pollution & to save water. To achieve the same nukkad natak was enacted by students, emphasising that it is every citizen's responsibility also.
- Group-song and dance performance was also conducted to engage students in a fun way & at the same time reinforce the topic at hand.

Signature of HOD

PROGRAMME ON CONSERVING WATER @ SCHOOL (SULTANPUR)



RALLY ON CONSERVATION OF WATER (SULTANPUR)



PROGRAMME ON ELIMINATING PLASTIC USAGE @ SCHOOL (MILK CHAKARPUR)



PROGRAMME ON ELIMINATING PLASTIC USAGE @ SCHOOL (MILK CHAKARPUR)



STUDENT INTERACTION @ SCHOOL (MILK CHAKARPUR)



RALLY ON ELIMINATING PLASTIC USAGE @ MILK CHAKARPUR VILLAGE



INTERNS EDUCATING RESIDENTS ON ELIMINATING PLASTIC USAGE @ MILK CHAKARPUR VILLAGE





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The Department of Community Medicine conducted a visit to the Water Treatment Plant located at Pratap vihar Ghaziabad on 25 August 2020. PG Students and Interns got a firsthand Experience of how water is made potable by different purification and filtration method at large scale. They also understood the method of chlorination of water.

Picture with faculty and Students at Water treatment plant



Samsung Quad Camera
Anthery@mi's Galaxy A71