

ST. XAVIER'S COLLEGE, MAPUSA GOA

College with Potential for Excellence Re accredited by NAAC with A Grade Awarded DBT STAR College Scheme

Nature of Event (Workshop, Guest Lecture, Add on Course,Seminar, etc.)	5 Day Interdisciplinary Workshop for Staff and Research Scholars
Name of Department	Microbiology
Faculty Incharge	Ms Ursula Barreto Ms Katelyn Gonsalves Ms Nadine de Souza
Stratum of Event (College, State, Regional, National)	National Level
Title of Event	Operation and Maintenance of Laboratory Equipment
Date of Event	8 th January to 12 th January 2024
Venue	St. Xavier's College
Resource Person details	Mr. N.N. Rao & Team Western Regional Instrumentation Centre (WRIC) Mumbai
Objective/ Scope of Event	 To provide comprehensive learning experience encompassing best practices in the use and application of available lab instruments. To equip participants with practical skills in the operation and maintenance of lab equipment.
Particulars of Event	Technical lectures and Hands on Training sessions were conducted on the following topics: Introduction to Basic Electronic components and its applications. Systematic operation of instruments, Working principle and instrumentation, Essential calibration, Preventive maintenance, Trouble shooting, hands on practice of soldering, Power supply, Function Generator, CRO, DSO.
Outcome of Event	Participants gained technical skills in handling minor repairs, calibration and maintenance of instruments. Large number of instruments in the laboratories were serviced and many repaired.
Feedback	Hands on training sessions were very useful and provided skill development.

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Photographs	
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	GPS Map Camera
Ma	pusa, Goa, India
	X5+56M, near Xavier college, Mapusa, Goa 403507, India 15.598361°
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Programme 1: Physics/ Electronics & Instrumentation

- > Introduction to the basics of electrical and
- Introduction to the oracles of electricit and electronic equipment & components.
 Awareness and requirement of general repair and maintenance of laboratory instruments.
 Proper use of different types of multimeters and their repairing.
 Working and repair of various types of power
- supplies. > Testing and on load calibration of power
- supplies.
 Handling of function generator and signal
- randing of the total generator and their repairing.
 Handling of CRO, basic problems of CRO and repairing.

Programme 2: Chemistry & Life Sciences

- Introduction to the basics of electric and electronics equipment & components.
 Awareness and requirement of general repairs and maintenance of laboratory Instruments.
 Repairing of electrical instruments like, hot
- plate, heating mental, magnetic stirrer & water
- Working, proper handling and repairing of temperature-controlled oven, incubator & water bath
- working principle repairing, maintenance and calibration of pH meter, pH electrode, colorimeters, flame photometer, spectro-photometer, & conductivity meter.
 Operation, repairing and maintenance of optical Microscope & analytical balance.

Note:

- Colleges must send their instruments for repair with their participants
 First day will be common for both programmes.

ORGANIZING COMMITTEE

Patron Fr. Antonio Salema Administrator, St. Xavier's College, Goa

Chairperson Prof. Blanche Mascarenhas Principal, St. Xavier's College, Goa

Co-Chair Dr. Shivram S. Garje Co-Chair I/C Director, WRIC, Mur

Conver Ms. Ursula Barreto Vice-Principal, HOD (Microbiology) St. Xavier's College, Goa

Organizing Secretaries Assistant Professor Dept. of Microbiology

Programme Coordinator Mr. N. N. Rao Sr. Technical Officer, WRIC, Mumbai

Faculty from WRIC, Mumbai Mr. Milind Shidruk Mr. Sudhir Kun Mr. Govind Chitte Mrs. Minal Tan Ms. Sarita Thopte Mr. Devendra G Mr. Sudhir Kumar Mrs. Minal Tamhankar Mr. Devendra Gunde

Organizing Coordinators

Ms. Linette de Souza Ms. Ruella D'Souza Dr. Marielou Ferrao Dr. Valerie Gonsalves Dr. Alisha Malik Ms. Arina Frank Mr. Siddhesh Menon Dr. Sheryanne V-Pereira Dr. Trelita de Sousa

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National Workshop X. llon

"Operation and Maintenance of Laboratory Equipment"

8th to 12th January 2024

organized by

St. Xavier's College, Goa

Department of Microbiology

in collaboration with

Western Regional Instrumentation Centre, Mumbai

supported by



Directorate of Higher Education Government of Goa