

**K.M.E. Society's
G.M.Momin Women's College, Bhiwandi**

Regional workshop on

“Working and Maintenance of Laboratory Instruments”

Date: 22nd July 2017

REPORT

The Internal Quality Assurance Cell (IQAC) of G.M.Momin Women's College organized one day Regional level Workshop on “Working and Maintenance of Laboratory Instruments” for non teaching staff on 22nd July 2017. Recently five departments of our college namely Botany, Chemistry, Physics, IT and Zoology were selected for funding under star college scheme of Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India. Various laboratory equipments were purchased under this scheme by the star departments. So, as an activity of IQAC and all Star Departments, this workshop was planned and executed under the incharge of Mrs. Jayashree Thakre (IQAC Coordinator) and Dr. Kamran Abbas (IQAC member). The workshop was attended by 19 teaching staff, 14 students and 14 non teaching staff of our college. There were 10 non teaching staff of other neighboring colleges. So a total of 57 beneficiaries were present.

There were total 4 sessions, conducted in various laboratories

Session 1:

Venue	Botany Laboratory
Instruments	Compound Microscope with LED light
Resource Persons	Mr. Dhaval Panchal and Mr. Nilesh Patel
Agency	Pulse Life Sciences

The Resource person Mr. Dhaval explained the parts of Microscope to the non teaching staff. He profusely gave the knowledge of working of each and every part of Microscope. Details of maintenance were also highlighted. This was followed by question answer session. The participants were satisfied and enjoyed the session.

Session 2:

Venue	Physical Chemical Laboratory
Instruments	Centrifuge Machine, Electronic Balance, Vacuum pump
Resource Persons	Mr. Yashpal Nayar, Mr. Prabodh Nayar
Agency	Prerna Enterprises

The Resource person Mr. Yashpal Nayar explained the detailed working of Vacuum pump, precautions to be taken and maintenance. The electronic balance operation was also demonstrated. Mr. Prabodh Nayar gave detailed description of working of Centrifuge Machine. The participants were satisfied and enjoyed the session.

Session 3:

Venue	IT Laboratory
Instruments	Electronic Kits
Resource Persons	Mr. Rahat Khan
Agency	EDKITS Electronics, Ghatkopar

The Resource person explained various electronic kits like the 4 Bit Binary adder and subtractor, etc. Various questions were asked by the participants and the session was interactive.

Session 3:

Venue	Zoology Laboratory
Instruments	Flame Photometer, Spectrophotometer, pH meter, Colorimeter, Conductivity meter, Potentiometer, Turbidity meter, TDS meter, CRO
Resource Persons	Mr. Zaki Ahmad
Agency	Equiptronics

Working of Flame Photometer was explained in two batches. The details of each and every part of the instrument and its uses were explained. The Spectrophotometer parts and working was also explained in detail. Maintenance of the cuvettes and other parts was also highlighted. pH meter working was demonstrated and the maintenance of electrodes was explained in detail. Calibration technique was also touched upon. The working and calibration of instruments like Colourimeter, Conductivity meter, Potentiometer, Turbidity meter and TDS meter was also explained in detail. The Cathode Ray Oscilloscope (CRO) an instrument which shows signal from any circuit was also explained. Various questions were asked by the participants and the session was interactive. The participants were satisfied and enjoyed the session.

The non teaching staff as well as the students learnt a lot from the workshop as the instruments demonstrated were from various science faculties so a multidisciplinary approach was fulfilled and new techniques were understood.

The IQAC of the college is thankful to DBT, Ministry of Science and Technology for funding and to the Principal Dr. M.J.Kolet for his constant support, motivation and guidance for organizing such kind of workshop especially for non teaching staff. The IQAC of the college is thankful to the Management for their enthusiasm and support for the workshop. The IQAC owes special thanks to all the Coordinators of the Star departments and the supporting teaching and non teaching staff and students for their cooperation.



Repair and Maintenance of Microscopes



Working and Maintenance of Centrifuge, Electronic Balance and Vacuum Pump



Hands on Practice of Electronic Kits



Working and maintenance of Digital Instruments



Inaugural Function



Valedictory Function