"Towards Ubiquitous Computing Technology"

DEPARTMENT OF COMPUTER ENGINEERING

Short Term Training Program (STTP)

On

Development of Laboratory Instruction & Manual

In Association with

National Institute of Technical Teacher's Training & Research (NITTTR), Kolkata

Held on

4th Feb 2019 to 8th Feb 2019

Coordinator   HOD

Program Details:

National Institute of Technical Teacher's Training & Research (NITTTR), Kolkta organizing a Short Term Training Programme through ICT Mode (On-Line) and Marathwada Mitra Mandal's Institute of Technology (MMIT), Lohgaon, Pune is a Nodal Center for this program.

Programme Tile: Development of Laboratory Instruction and Manual (ICT12)

Recourse Person: Dr. Subrata Mondal

Date: 04/02/2019 to 08/02/2019

Time: 10.00am to 5.00pm

Venue: Smart Classroom E-101

Programme Objectives:

After attending this programme, participants would be able to:
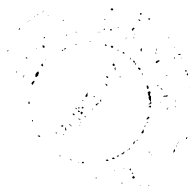
- explore the role of laboratory in student learning

- explore development of laboratory exercise

- explore writing of laboratory report

- explore standard operating procedure (SoP) in laboratory

- explore safety management in laboratory etc.

STTP Contents:

The STTP is divided into following topics

Topic 1: The Role of Laboratory in Technical Education
- Laboratories in Technical Education
- Role of Laboratory in Learning
- Aims of Laboratory Work
- Laboratory Methods
- Laboratory Class: Practical Skills and Abilities
- Goal of Laboratory in Learning
- Art of Experimentation
- Experimental and Analytical Skills in Laboratory Class
- Developing Collaborative Learning Skills
- Role of Laboratory Technician
- Level of Openness for Laboratory Activities
- Alternative Approaches to Laboratory Learning

Topic 2: Introduction to Laboratory Instruction and Manual
- An Align Curriculum Matrix for Laboratory
- What is Laboratory Manual?
- Why Laboratory Manual?
- Laboratory Manual: Living Document
- What is Laboratory Instruction Sheet?
- The Role of Laboratory Instruction
- Goal for Laboratory Instruction
- A Model Laboratory Exercise
- Format of a Laboratory Manual

Topic 3: Development of Laboratory Exercise and Preparation of Report
- Laboratory Exercise
- Various Steps for the Development of Exercise
- Cookbook Exercise
- Advantage of Cookbook Exercise
- Disadvantage of Cookbook Exercise
- What is Inquiry based Exercise?
- Advantage of Inquiry-based Exercise
- Disadvantage of Inquiry-based Exercise
- Written Laboratory Report
- General Rules for Written Laboratory Report
- Various Section of a Laboratory Report

Topic 4: Common Hazards in Laboratory
- What is Hazards?
- Types of Hazards
- Potential Hazards in the Laboratory
- Major Routes of Chemical Exposure
- Criteria for Physical Hazards
- Criteria for Health Hazards
- Health Effects
- Why safety in laboratory work?
- Causes of Lab Incidents

Topic 5: Introduction to Safety Management in Laboratory
- Safety Management
- Primary Causes of Laboratory Incidents
- Strategies to Control Hazards
- To Start Laboratory Works
- Material Safety and Data Sheet (MSDS)
- Emergency Procedure
- Laboratory Classifications
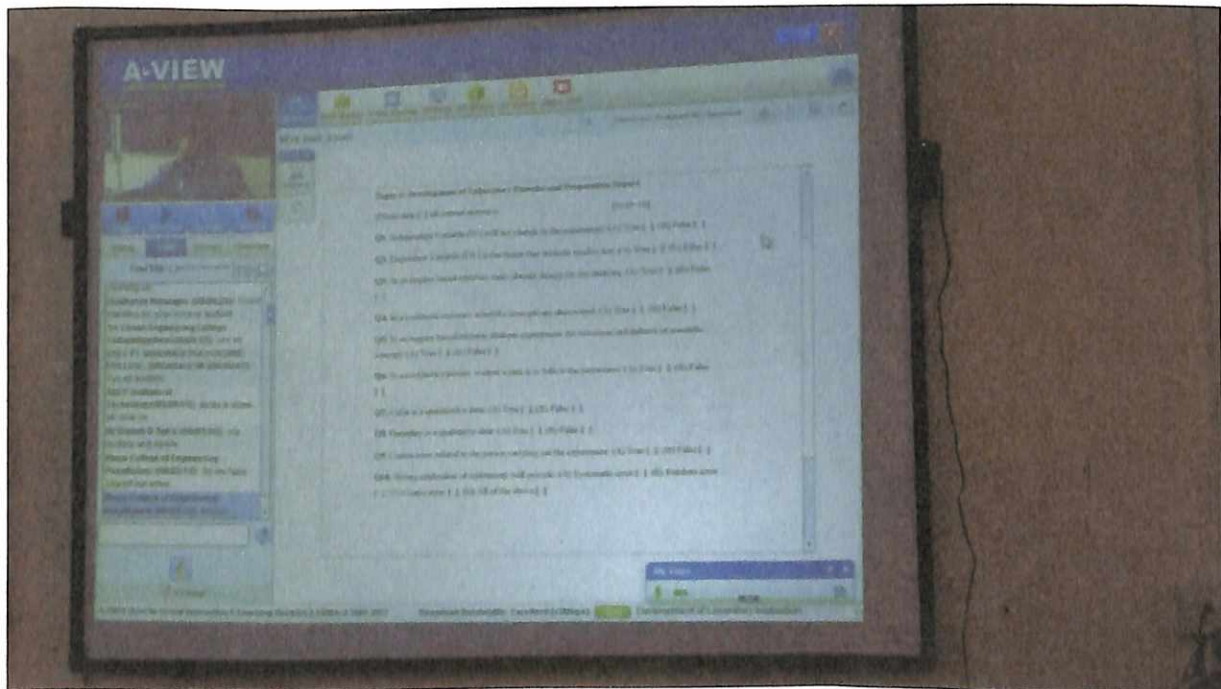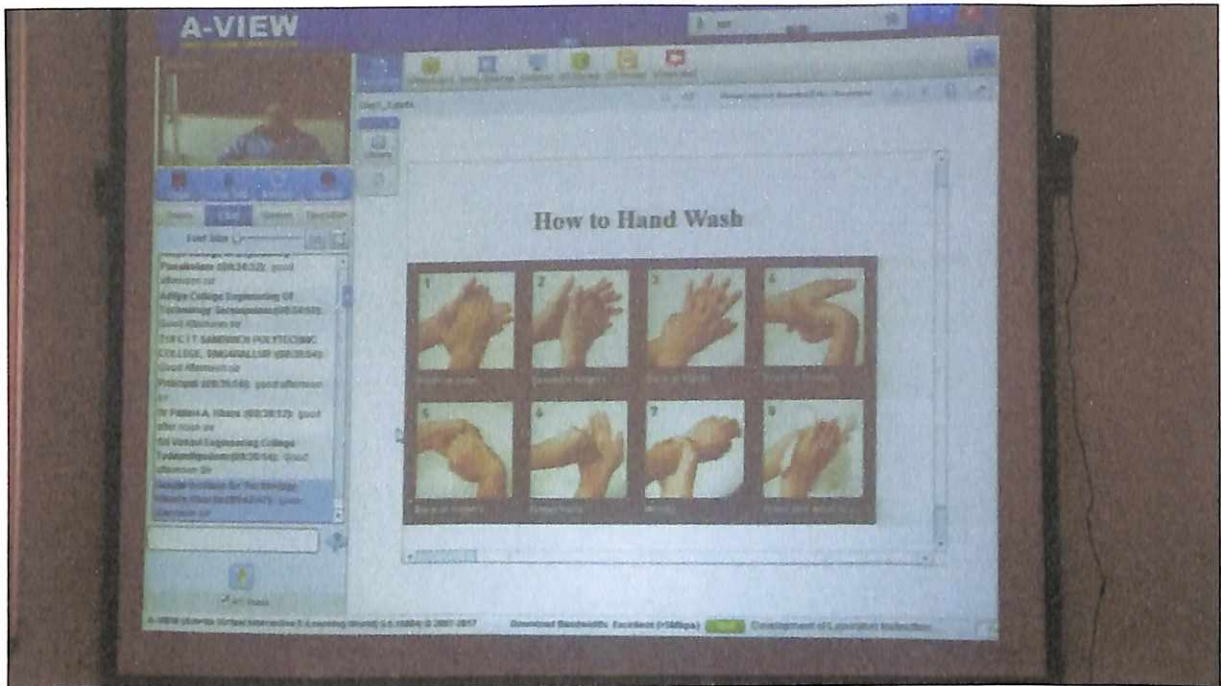- GHS labeling of hazardous chemicals

Some Photos of STTP

Faculty Participant in STTP

Live STTP Contents from Kolkata

Enclosure

1. Notice
2. Registration Sheet
3. Attendance Sheet
4. Feedback forms
5. Expenditure Bills

Marathwada Mitra Mandal's
INSTITUTE OF TECHNOLOGY (MMIT)
Lohgaon, Pune-411047.

Department of Computer Engineering
Attendance

Date:- 4-8/02/2019

Total Count:-55

Sr. No	Name	Signature	Sr. No	Name	Signature
1	Tejaswini Bhoye		31	Dayanand Jedane	
2	Sneha Shende.		32	Sudeer Mase	
3	U.B. caroomye		33	Shital Nerkar	(Nerku)
4	Shwetal K. Patil	SKPatil	34	Yamini porle	
5	K.S. Suronsose		35	Sneha shind	Sathd
6	Purva Chamang		36	Prajali Deshula	R
7	Suhar Kothavale		37	Abhinav whatte	Ace
8	D.J. Bonde		38	Sonali mule	Samli
9	Rashmi Tandulwar		39	Purnita Patil	
10	Yamini Workhe	YWP	40	Mule S.S.	Mule
11	M.S. Jagtap	nsj.	41	Aparna chavan	Apari
12	rdabeth sahunke		42	S.P. Yadav	Yadav
13	Ajit. Kezank	Ajit.	43	S.A. Agrawal	Agrni
14	Mr. fubhath Rathod	fubhad	44	Ganesh Jagdale	Ganes
15	D.B.S. Satre	DBS	45	Bhoge Dhanjay	Dhm
16	N.P. Rathod	Nishm	46	smita mande	Smite
17	Leena Deshmukh	Leens	47	Rohit Mohite	Mohi
18	U.L. Tupe	Tc	48	Namrata Jadhav	Mamhe
19	K.S. sewbase	Kori	49	Khailch Suziya	Sorm
20	Mangesh Salunke		50	Rucha Agrawal	Ruc
21	Sonali Borawake		51	Sonah Borhade	Bo he
22	Meghana Jaghwante.	yru	52	E.D. Kurhe	kerch
23	Sonali Mulay	Sonli	53	Naresh Dhamne	Nash
24	D.S. Sawant	Dishi	54	Vaibhav Rewatkor	V
25	Y.B. Dongave		55	Nitha Auti	Auti
26	S.S. Chaudhari		56		
27	Ritesh Mahajan	Rall	57		
28	Poonam Muyale	Pooram	58		
29	Sethi Sonali		59		
30	Sandh Kaban		60		