

**THE DEPARTMENT OF BUSINESS MANAGEMENT INVITES SHORT COURSES APPLICANTS FOR LABORATORY PREPARATIONS OF STANDARD SOLUTIONS AND BENCH REAGENTS**

The courses schedule is as shown in the table below.

<b>S/N</b>	<b>Course Name</b>	<b>Code</b>	<b>Course Content</b>	<b>Duration</b>	<b>Date</b>	<b>Fee Structure</b>
1.	Laboratory Preparations of Standard Solutions and Bench Reagents		<ul style="list-style-type: none"> <li>• <b>Preparation of solutions and bench reagent</b></li> <li>Expressing concentrations of solutions                             <ul style="list-style-type: none"> <li>➤ Molarity</li> <li>➤ Normality</li> <li>➤ Molality</li> <li>➤ Weight – Weight Percentage (% w/w)</li> <li>➤ Volume – Volume Percentage (% v/v)</li> <li>➤ Weight – Volume Percentage (% w/v)</li> <li>➤ Concentration in terms of parts PPM and PPB</li> </ul> </li> <li>• <b>Preparing Dilute Solutions From stock solution</b></li> <li>• <b>Standardization of Secondary Standard Solution</b></li> <li>• <b>Performing chemistry practical</b></li> <li>• <b>Preparations of buffer solutions</b></li> <li>• <b>Preparation of biological reagents</b></li> <li>• <b>Staining and preserving of specimen</b></li> </ul>	5 days		300,000/=

***Disclaimer:*** This course is intended to offer technical and practical knowledge on preparations of solutions and bench reagents **YOU ARE ALL MOSTLY WELCOMED.**

### **1. COURSE OUTCOMES**

At the end of this program the participant will be able to;

- Prepare the standard solutions and bench reagents
- Expressing the concentrations of the standard solutions
- Standardize the secondary standard solutions
- Diluting the stock solution to the desired concentrations
- Prepare the buffer solutions
- Prepare the biological reagents
- Staining and preservations of the specimens

### **2. TARGET GROUPS:**

Science Secondary school teachers, Laboratory technicians, Industrial laboratory technician Laboratory scientist, Research center technician.

### **3. MODE OF DELIVERY**

- Power point presentations
- Group discussions and
- Practical exercises

### **4. COURSE FACILITATORS**

Mbeya University of Science and Technology (MUST) Instructors and Lecturers with relevant experience in preparations of standard solutions and bench reagents.

**REGISTRATION AND PAYMENT:**

Rolling

**5. DATE AND TIME:**

To be agreed with participants

**6. VENUE:**

All courses are conducted at MUST main campus in Mbeya city.

**7. MODE OF PAYMENT:**

Pay to “Mbeya University of Science and Technology” A/C No **016101002687 NBC** before commencement of training and come with bank receipt from bank during registration.

**8. FOR ENQUIRIES PLEASE CALL:**

0714949689, 0763459901, 0788682200 [ Mr. MGIMBA Christopher]