

**MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY
COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING**

Telephone: +255 (0)25 2957540/4
Fax: +255 (0)25 2957552
E-mail: vc@must.ac.tz
Website: www.must.ac.tz



P.O. Box 131,
Mbeya,
Tanzania.

3rd March, 2023

SHORT COURSE ANNOUNCEMENT

Civil Engineering department is under College of Engineering and Technology (CET) at Mbeya University of Science and Technology (MUST). The department provides short and long courses to increase skills and knowledge in Civil Engineering activities. The department invites applications for short course in LABOUR BASED TECHNOLOGY, ANALYSIS AND DESIGN OF MULTI-STORIED BUILDING USING PROTA STRUCTURE SOFTWARE, PROCUREMENT IN CONSTRUCTION PROJECTS, CONSTRUCTION PLANNING AND CONTRACT ADMINISTRATION, BUILDING MAINTENANCE, CONSTRUCTION OF TERRAZZO FLOOR and CONSTRUCTION MATERIALS which will be conducted in Different regions and dates as stipulated in **Table 1**.

Table 1: Different shortcourses offered by Civil department of the Mbeya University of Science and Technology (MUST) in year 2023

SN	SHORT COURSE TITLE	LABOUR BASED TECHNOLOGY	
1	CONTENT	1.An introduction to labour-based technology, 2. Community Based Organization (CBO), 3.Earth and gravel roads construction, 4.Earth road and gravel road maintenance, 5. Construction and maintenance of road drainage system, 6.Maintenance of bituminous roads, 7.Stone pitching/construction, 8.Cement concrete pavement construction, 9.Road side development and arboriculture, 10.Preparation and fill the Bill of Quantities (BOQ) for road works, 11.Introduction to safety practices and 12.Practical and Site visit	
	TARGET GRUOP	Individuals engaged in road construction activities, labours from the construction Institutions	
	LEANING OBJECTIVE	Participants will be able to Construct and maintain earth and gravel roads, stone and cement concrete pavement, drainages, maintain bituminous roads, prepare and fill the Bill of Quantities (BOQ), and adhere safety procedures.	
	PARTICIPATION FEE	450,000/= For Tanzanian and 500 USD Non-Tanzanian	
	DATE AND REGION	17 th april to 5 th May 2023	Dodoma
		5 th June to 23 rd June 2023	Mwanza
		24 th July to 11 th August 2023	Unguja Zanzibar
		4 th September to 22 nd September 2023	Kilimanjaro
		2 nd October to 20 th October 2023	Rukwa
		27 th November to 15 th December 2023	Mbeya

2	SHORT COURSE TITLE	ANALYSIS AND DESIGN OF MULTI-STORIED BUILDING USING PROTA STRUCTURE SOFTWARE	
	CONTENT	1. Introduction to reinforced concrete design and detailing, 2. Modelling of structural elements including slab, beams, columns, foundation, 3. Analysis of 3D model under gravity, wind, 4. Design of building elements using different codes (British standard and Eurocode), 5. Advanced documentation tools for generating design report and 6. Preparation of drawings and details	
	TARGET GROUP	The intended audience for this training is Civil Engineers who want to gain cutting-edge knowledge on how to use computer software for accurate and faster building design.	
	LEARNING OBJECTIVE	At the end of the training, participants are expected to: Understand the process involved in the design of building elements, Perform 3D modelling of reinforced concrete building. Analyze and design different elements of the building. Prepare bar bending schedule. Produce high quality drawings and all design documentation.	
	PARTICIPATION FEE	600,000/= For Tanzanian and 600 USD Non-Tanzanian	
	DATE AND REGION	8 th May to 12 th May 2023	Dodoma
		25 th June to 30 th June 2023	Mwanza
		2 th October to 6 th October 2023	Dar Es Salaam
		6 th November to 10 th November 2023	Mbeya
3	SHORT COURSE TITLE	PROCUREMENT IN CONSTRUCTION PROJECTS	
	CONTENT	1. Tendering procedures, and 2. Registration of a company through BRELA Online Registration System (ORS) platform.	
	TARGET GROUP	Individual engaged in construction activities including engineers, architects, quantity surveyors, Managers and Directors of the company.	
	LEARNING OBJECTIVE	Participants will be able to fill the tender document, and register their company to BRELA ORS	
	PARTICIPATION FEE	600,000/= For Tanzanian and 600 USD Non-Tanzanian	
	DATE AND REGION	20 th March To 24 th March 2023	Mbeya
4	SHORT COURSE TITLE	CONSTRUCTION PLANNING AND CONTRACT ADMINISTRATION	
	CONTENT	1. Network analysis, 2. Working program using MS project software and 3. Contract administration.	
	TARGET GROUP	Individual engaged in construction activities including engineers, architects, quantity surveyors, Managers and Directors of the company.	
	LEARNING OBJECTIVE	Participants will be able to utilize the optimal resource and control project idle resource, prepare the standard project schedule using MS project software, understand and adhere the construction project contracts.	
	PARTICIPATION FEE	600,000/= For Tanzanian and 600 USD Non-Tanzanian	
	DATE AND REGION	17 th July to 21 st July 2023	Mbeya
5	SHORT COURSE TITLE	BUILDING MAINTENANCE	
	CONTENT	1. Maintenance of concrete roof slab leakage, 2. Wall Cracks repair, 3. Demolition procedures. 4. Painting 5. Cement sand floor finish repair	

	TARGET GRUOP	Individuals engaged in building construction and maintenance activities, labours from the construction Institutions	
	LEANING OBJECTIVE	The primary and overall objectives of this course are; To give a better understanding on maintenance safety operation. To help the participant to understand different concrete roof slab maintenance methods. To be able to perform different methods of concrete slab repair. A clear understanding on causes of cracks, and practically performs their repair. To give a clear knowledge of supervising and monitoring of the maintenance operation specific on wall cracks, cement sand floors and concrete roof slab leakage.	
	PARTICIPATION FEE	1,200,000/= For Tanzanian and 1200 USD Non-Tanzanian	
	DATE AND REGION	8 th May to 26 th May 2023	Mbeya
	SHORT COURSE TITLE	CONSTRUCTION OF TERRAZZO FLOOR	
	CONTENT	1. Introduction to masonry works 2. Introduction to terrazzo floors 3. Materials and tools used in terrazzo floor construction, 4. Construction procedure, 5. Procedures on maintenance of terrazzo floor, 6. Practical	
	TARGET GRUOP	Individuals engaged in masonry works, labours from the construction Institutions	
	LEANING OBJECTIVE	The participant will be to construct and maintain terrazzo floor	
	PARTICIPATION FEE	800,000/= For Tanzanian and 800 USD Non-Tanzanian	
	DATE AND REGION	25 th September to 6 th October 2023	Mbeya
	SHORT COURSE TITLE	CONSTRUCTION MATERIALS	
	CONTENT	1. An introduction to construction materials, 2. To identify the strength of Reinforcement bars, 3. To identify the strength of concrete block and bunt bricks, 4. To identify the strength of concrete members, 5. To identify the quality of tiles and PVC pipes, 6. To identify the quality of aggregates, sand and timber, 6. To identify the quality of cement, 7. Practical and Site visit	
	TARGET GRUOP	Individuals engaged in building design and construction activities, labours from the construction Institutions. Minimum qualification; Ordinary Diploma/FTC in civil, Highway, Irrigation or Water resources engineering	
	LEANING OBJECTIVE	Participants will be able to identify the quality of construction materials like reinforcement bars, timber, aggregates, sand, concret blocks, bunt bricks, Cement, tiles, PVC pipes and concrete.	
	PARTICIPATION FEE	1,200,000/= For Tanzanian and 1200 USD Non-Tanzanian	
	DATE AND REGION	25 th September to 13 th October 2023	Mbeya

ACCREDITATION

Professional engineers will receive Professional Development Units (PDUs) to the following course ANALYSIS AND DESIGN OF MULTI-STORIED BUILDING USING PROTA STRUCTURE SOFTWARE, PROCUREMENT IN CONSTRUCTION PROJECTS, CONSTRUCTION PLANNING AND CONTRACT ADMINISTRATION and CONSTRUCTION MATERIALS. The numbe of PDUs will be announced before starting of particular course.

Online application form is available to (click to apply) [MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY \(google.com\)](https://www.mbeya.ac.tz/)

Deadline of application shall be Six (6) days before the start of the course

Participation fee should be paid through control number obtained from Mbeya University of Science and Technology (consult coordinators)

For more information, contact the following emails and mobile phones;

Email: crodiwick.ruvunduka@must.ac.tz, yazid.mwishwa@must.ac.tz

PHONE: 0717 762 003, 0756 263 982, 0768 959 378

OR

HOD- Civil Engineering Department Office- at Mbeya university of Science and Technoly (Mbeya main campus)