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

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P.O. Box 131, **Mbeya,** Tanzania.

21st April, 2022

SHORT COURSE TRAINING IN ANALYSIS AND DESIGN OF MULTI-STORIED BUILDING USING PROTA STRUCTURE SOFTWARE

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 applicantions for short course in ANALYSIS AND DESIGN OF MULTI-STORIED BUILDING USING PROTA STRUCTURE SOFTWARE which will be conducted at Mbeya city from **16th to 20th May, 2022**.

1. PREAMBLE

Computer-aided drafting, analysis, and design software are valuable tools for any structural engineering firm. Given the industry's rapid growth, intense competition, and demands, a company cannot survive if it does not harness the benefits and capabilities of modem computer software. This training aims to provide structural engineers with a variety of advantages when designing concrete structures, including 3D finite element analysis, fully automated RC detailing in drawing sheets, and bar bending schedule preparation. Prota Structure is a cutting-edge structural BIM solution that allows structural engineers to quickly and accurately model, analyze, and design buildings.

2. TRAINING OUTCOME

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.

3. COURSE CONTENT

- Introduction to reinforced concrete design and detailing
- Modelling of structural elements including slab, beams, columns, foundation
- Analysis of 3D model under gravity, wind
- Design of building elements using different codes such as British standard and Eurocode
- Advanced documentation tools for generating design report
- Preparation of drawings and details

4. ACCREDITATION

• This course is accredited by Engineers Registration Board (ERB). Professional engineers will receive 25 Professional Development Units (PDUs)

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.

Course Fee: TZS 600,000/= Tanzanian USD 400 Non-Tanzanian TZS 300,000/= MUST staff

Application form fee: Tsh. 5,000 /=

Application form is available at the end of this announcement or from Head of Civil Engineering Department Office.

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

APPLICATION FORM SHOULD BE SUBMITED TO THE FOLLOWING ADDRESS;

Email: <u>cruvunduka@mustnet.ac.tz</u>, <u>amalisa@mustnet.ac.tz</u>, OR HOD- CIVIL ENGINEERING DEPEPARTMENT OFFICE

PHONE: 0717 762 003, 0756 263 982, 0763 539 864

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P.O. Box 131, **Mbeya,** Tanzania.

5th Feb, 2022

SHORT COURSE APPLICATION FORM

APPL	ICANT PARTICULARS FIRST NAME:
	MIDDLE NAME:
	SIRNAME:
	GENDER
	AGE
	WORK OFFICE:
	OCCUPATION:
PHYS	ICAL ADDRESS: POSTAL ADDRESS
	WARD
	DISTRICT/MUNICIPAL
	REGION
CONT	Г АСТЅ MOBILE:
	E-MAIL:
EDUC	CATION BACKGROUND LEVEL OF EDUCATION :(Tick $()$ where appropriate) Standard seven

Form IV	
Form VI	
Diploma /Certificate	
Degree/ above	

DECLARATION

APPLICANT NAME:

APPLICANT SIGNATURE:

DATE:

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

Application form and bank pay slip should be sent by email shown below:

Email: <u>cruvunduka@mustnet.ac.tz</u>, <u>amalisa@mustnet.ac.tz</u>, OR HOD- CIVIL ENGINEERING DEPEPARTMENT OFFICE

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