



Civil Engineering Technology

Technology Solutions for the Workplace

INSTRUCTOR

Bright Ng'andu

Dr Bright M. Ng'andu is an instructor in the Construction Management Degree Program at the Red River College. Prior to joining the college, he worked as a structural engineer at Crosier Kilgour and Partners in Winnipeg, Manitoba. Before then he worked as a design engineering and project planning consultant in Europe and Africa. He particularly has expertise in analytical and numerical modelling of (irregular) structures with non-linear material behaviour. Bright also possesses vast experience from years of research and teaching at the University of Zambia and the University of Eindhoven in the Netherlands.

Bright holds PhD and Master of Science Degrees in Structural Engineering and a Bachelor's Degree in Civil Engineering. His PhD research was in modelling and development of design rules for steel frames infilled with 'precast masonry type' wall elements.

At the Red River College, Bright teaches courses in Structural Design of structural steel and reinforced concrete structures, in Construction Planning and Scheduling and supervises students in Applied Research Projects.

INQUIRIES:

Course:

Tammy Harper
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Registration:

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Online Info:

www.rrc.ca/techsolutions

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Structural Design (Bridging)

Course description:

Participants will review how to evaluate loads on building structures, based on the Limit State Design Philosophy and the National Building Code of Canada. Participants will also learn how to design reinforced concrete beams and slabs for flexure, shear and deflections, short reinforced columns for axial load and eccentricity and footing foundations according to the CSA Standard A23.3-04.

The course is delivered through guided problem solving. At the end of each day, participants will be required to read assigned portions from a course compendium of notes that are provided. A set of six assessments is completed during class time, and concluded with an exam on the last day.

Prior learning:

- Statics & strength of Materials
- Basic Structural Analysis

Benefits:

Successful participants will gain knowledge in structural behavior and design of reinforced concrete structures to effectively communicate with and/or assist engineers and other consultants.

Who should attend?

Technologists, Project Managers, Detailers involved in construction of buildings and other frame structures

Course Dates and Costs:

Dates: May 23-26, 2017

Times: Daily from 8 am to 4 pm

Cost: RRC Students - \$550, Industry

Clients - \$700

Course Code: CMDO - 2016

Location: Red River College, Notre Dame Campus

Registration deadline: April 28, 2017