

# EUCEET 2018

4th International Conference on  
Civil Engineering Education

CHALLENGES FOR THE THIRD MILLENNIUM

## **Civil engineering education program in response to the infrastructure development in recent years in Viet Nam**

**Truyen T. Tran\*, Bui Thanh Tung\*\*, Phuc Q. Nguyen\*\*\***

University of Transport and Communications  
No3 Cau Giay street, Lang Thuong, Dong Da, Ha Noi, Viet Nam

\* Email: tranthetruyen@utc.edu.vn - Web page www.utc.edu.vn

\*\* Email: bttung@utc.edu.vn - Web page www.utc.edu.vn

\*\*\* Email: nguyenquangphuc@utc.edu.vn- Web page www.utc.edu.vn

### **ABSTRACT**

In recent years, Vietnamese economy has achieved significant growth with GDP up to 7%. The development of infrastructure systems including long-span bridges, highways, high buildings, large dams, etc requires graduates' knowledge meeting the demands of working positions at many foreign consultancy companies and entrepreneurs. At traditional thought on the work of civil engineering, there is a concern on the balance between the design philosophy of soviet-union standards and the new design philosophy under ASSHTO's standard systems.

The study's contribution is to clarify the advantages and disadvantages of the new civil engineering education program prepared for undergraduate at University of Transport and Communications (UTC) to adapt to job requirements of foreign companies in the designing and construction of infrastructures in Viet Nam based on ASSHTO's standard system.

### **REFERENCES**

- [1] ASSHTO, "ASSHTO – LRFD Bridge Specifications", with versions: 1998, 2007, 2010, 2012, 2014.
- [2] ASSHTO, "*The Manual for Bridger Evaluation, Second Edition*", 2010.
- [3] Gongkang Fu, "*Bridge Design and Evaluation LRFD and LRFR.*", 2013.
- [4] Richard M. Barker, Jay A. Puckett, "*Design of Highway Bridges: An LRFD Approach, Second Edition.*", 2007 John Wiley & Sons, Inc. ISBN: 978-0-471-69758-9.
- [5] SNiP 2.05.03-84\* "*Designing of Bridge and pipes*", Moscow, 1996.
- [6] SNiP 2.01.07-85\* "*Loads and impacts*", Moscow, 2003.
- [7] SNiP II-7-81\* "*Designing of seismic areas*", Moscow, 2011.