

**„DZEMAL BIJEDIC“ UNIVERSITY OF MOSTAR
FACULTY OF CIVIL ENGINEERING**

Unit:	DESIGNING BRIDGES	Subject code: 0000
Level:	Postgraduate	
Professor:	Assistant Professor Dr Đani Rahimić	
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Contact hours:	Lectures per week: 2	Practicals/tutorials per week: 2
ECTS:	5 ECTS	
Unit status:	Core	
Prerequisites:	Bridges	
Synopsis:	☐ Modern design solutions and ways of performing concrete subwoofer, overpasses and viaducts on roads and motorways. ☐ Flat bridges. Concrete shaft bridges with prestressed longitudinal carrier (continuous and with continuity plates). Concrete shaft bridges coarse cross section. ☐ Design and implementation of bridges by pushing. ☐ Light bridges. Suspended concrete bridges. Integrated concrete bridges. Pylons hanging bridges. ☐ External bridging of bridges. Loads of bridges. Design and construction of bridges in the seismically active area. ☐ Bearings for bridges. Lower structure (pillars and resistors) of concrete bridges. Shallow and deep foundations. Details of the solution (cable guidance, anchoring, protocol pre-stressing, fence, wreath, drainage, transitional devices, aseismic blocks and devices). The usual procedures for building concrete bridges. Ours more famous concrete bridges. Visit of concrete bridges under construction and some already built. ☐ Provisions of the regulations.	
Aims:	Students' knowledge of modern approach in the field of bridge construction and their training for bridge design.	
Outcomes	The student will be able to solve complex problems of designing and constructing concrete bridges.	
Teaching methods:	Lectures, practicals/tutorials/self-directed learning exercises	
Assessment:	Assessment is based on a number of practical exercises, tests and an end of semester examination.	
Prescribed literature:		