| Course Code | Course Status | Semester | ECTS Credits | Number of classes | | | |
|--|--|--|--|--|----------------------------|-----------------------------|-------------------------|
| | Compulsory | VI | 5 | 2L+1E+1L | | | |
| Study programme | es: Undergraduate acader 6 semesters and 180 l | | ogramme Civil Engineering | j; | | | |
| Conditioned by oth | ner courses: Not condition | ned | | | | | |
| Aims of the course and prestressed structur | | e field of application, | design and construction of | concrete and reinforce concret | | | |
| einforced concrete and o the ultimate limit state design of RC cross secti | s (ULS) (columns, frames, thic | ly knowledge, i.e. per k cantilever beams, jo es. 4. Creatively apply | orms the design of RC ele ints, deep beams) 3. Appl | Phaviour of concrete and ments and structures according y knowledge, i.e. performs the the field of reinforced concrete | | | |
| Teacher and assista | nt: Nebojša Đuranović, Fu Nina Serdar – Teachin Maja Lausević-Odalovi | g Associate, PhD | | | | | |
| Methods of teaching | and learning: Lectures, | exercises/tutorials, le | arning, consultations and i | ndependent work | | | |
| Course content: | | | | | | | |
| teaching week | Calculation of AB cross-section according to ultimate limit states - RC cross-section without crack.Interaction diagrams for designing RC cross sections | | | | | | |
| I teaching week | Design and calculation of columns and walls Design of slender RC elements - Part I | | | | | | |
| II teaching week | Design of slender RC elements - Part I Design of slender RC elements - Part II | | | | | | |
| V teaching week | Strut and tie method | | | | | | |
| / teaching week /I teaching week | Design and calculation of RC frame structures, Local compressive stresses | | | | | | |
| /II teaching week | Joints in RC structures, thick Short cantilever beams | | | | | | |
| /III teaching week | Design and calculation of RC deep beams | | | | | | |
| X teaching week | Design of RC cross sections and elements according to Serviceability Limit State – Introduction | | | | | | |
| X teaching week Design of RC cross sections and elements according to Serviceability Limit State – Ca and strains - Part I | | | | State – Calculation of stresses | | | |
| KI teaching week | Design of RC cross sections and elements according to Serviceability Limit State – Calculation of stresses | | | | | | |
| KII teaching week | and strains - Part II Design of RC cross sections and elements according to Serviceability Limit State– Cracking LS control Design of RC cross sections and elements according to Serviceability Limit State– Deformation LS control | | | | | | |
| KIII teaching week | | | | | | | |
| KIV teaching week | Prestress structures- basic | | | | | | |
| KV teaching week | Non reinforced structures. | | | | | | |
| Student's obligation | DNS: Attending of lectures a | nd exercises, elabor STUDENTS LOA | | passing of pre-exams. | | | |
| er week: | | In semester | | | | | |
| 5 credits x 40/30 = 6 Structure: | 6.67 hours | eaching and final exa ecessarv preparation | m: (6.67 hours) x 16 = 10 s before semester (admin | J6.67 hours stration, enrolment etc) | | | |
| 2 hours lectures 2 hours exercises 2.67 hours individual work, including consultations | | $2 \times (6.67 \text{ hours}) = 13.33 \text{ hours}$ Total load for the course: $5x30 = 150 \text{ hours}$ Additional work for exam preparation in the additional exam session, including passing of correctional exam between 0 and 30 hours (remaining time from the previous issues to the final load for the course | | | | | |
| | | | | | emaining time from tr | e previous issues to the f | hal load for the course |
| | | | | | oad structure: |) . 40.00 having (magazanti | an) + 20 hauna |
| | | | | dditional work) |) + 13.33 hours (preparati | on) + 30 hours | |
| | | _iterature: | | | | | |
| | oredavanja na predmetu Beto ARMIRANI BETON PREMA | | | d 1991 | | | |
| Radosavljević Ž., Bajić I | D.: ARMIRANI BETON, knjiga | 3, Gradevinska knjig | a, 1988. | | | | |
| Perisić Ž.: TEORIJA AR | ns: "REINFORCED AND PRE MIRANOBETONSKIH I PRET 6.7. MEST/JUS standards | | | nold UK,1987 Aćič M., Pakvor A radevinski fakultet Beograd, | | | |
| Gradevinska knjiga, 198 | | | | | | | |
| Examining system | | ne final exam. | | | | | |
| Examining system | during the semester and in the semester and in the semester 100 Maximu | m number of points a | t final exam: 50 | | | | |
| Examining system Examining is continuous Maximum number of poi The structure of examina | nts in semester: 100. Maximu ation and points is as follows: | • | | | | | |
| Examining system Examining is continuous Maximum number of poi The structure of examina classes attend | nts in semester: 100. Maximu ation and points is as follows: ance: from 0 to 5 points (10 | 0% attendance= 5 po | ints, less than 30% attend | | | | |
| Examining system Examining is continuous Maximum number of poi The structure of examin - classes attend - semester proje - pre-exams: | nts in semester: 100. Maximu ation and points is as follows: ance: from 0 to 5 points (10 ect: from 3 to 15 points (n 20+10 = 30 points | 0% attendance= 5 po | | | | | |
| Examining system Examining is continuous Maximum number of poi The structure of examin - classes attend - semester proje - pre-exams: - final exam: | nts in semester: 100. Maximu ation and points is as follows: ance: from 0 to 5 points (10 ect: from 3 to 15 points (n 20+10 = 30 points up to 50 points | 0% attendance= 5 po nin positively marked p | ints, less than 30% attend part of semester project = 3 | | | | |
| Examining system Examining is continuous Maximum number of poi The structure of examin - classes attend - semester proje - pre-exams: - final exam: | nts in semester: 100. Maximu ation and points is as follows: ance: from 0 to 5 points (10 ect: from 3 to 15 points (n 20+10 = 30 points up to 50 points al exam are in written form. Points the course: | 0% attendance= 5 po nin positively marked p | ints, less than 30% attend part of semester project = 3 | | | | |