PLAN I PROGRAM NASTAVE / COURSE SYLLABUS	
Naziv predmeta:	**ARHITEKTONSKO PROJEKTOVANJE 3 (privredni i poslovni objekti)**
Course title:	**ARCHITECTURAL DESIGN 3 (industrial and business buildings)**

Šifra predmeta / Course code	Status predmeta / Course type	Semestar / Semester	ECTS kredita / ECTS credits	Fond časova / Number of classes
5.4.	**obavezan / required**	**V**	**9.0**	**3P+4V**

Studijski program:	ARHITEKTURA.	Akademske studije Dužina trajanja: 10 semestara i 300 kredita.
Study programme:	ARCHITECTURE.	Academic studies Duration: 10 semesters and 300 credits.

Uslovljenost drugim predmetima:

Nema uslovljenosti.

Prerequisites:

No prerequisites.

Ciljevi izučavanja predmeta:

Studenti se upoznaju sa najznačajnijim prostorno – funkcionalnim i oblikovnim karakteristikama, kao i metodama u organizaciji i projektovanju privrednih objekata koji čine: industrijski objekti, poljoprivredni objekti, trgovački objekti.

Course aims:

Students are introduced to most important of spatial - functional and formal characteristics, and methods of organization and design of commercial buildings that are: industrial buildings, agricultural buildings, commercial buildings.

Predmetni nastavnik – saradnici u nastavi / Lecturer – teaching assistants

Prof.dr Goran Radović

AF _ 3 saradnika

Metode nastave i savladavanje gradiva:

Predavanja, vježbe, konsultacije, studijske stručne ekskurzije i studentske radionice. Na predavanjima studenti se upoznaju sa privrednim objektima i njihovim značajem za privredni razvoj, vrstama i tipologijom privrednih objekata kao i prostorno – funkcionalnim karakteristikama organizacije prostora privrednih objekata. Na vježbama u toku semestra studenti izrađuju jedan idejni projekat nekog privrednog objekta.Na studentskim ekskurzijama studenti, u pratnji profesora i saradnika, obilaze karakteristične primjere privrednih objekata u okruženju, uz stručna objašnjenja i komentare na licu mjesta. Na studentskim radionicama studenti u grupama, sa studentima drugih fakulteta arhitekture, analiziraju i rješavaju probleme privrednih objekata na konkretnim lokacijama, zajedno sa profesorima i saradnicima, matičnog i drugih fakulteta.

Teaching methods and learning activities:

Lectures, exercises, consultations, study tours and professional student workshops. During lectures students are introduced to economy buildings and their importance to economic development, types and typology of industrial buildings, as well as spatial - functional characteristics of commercial buildings. During practical classes in the course of semester, students prepare a preliminary design of a commercial building. On student excursions the students, accompanied by teachers and staff, visiting typical examples of commercial properties in the area, with expert explanations and comments on the site. At the students workshops students in groups with students from other faculties of architecture, analyze and solve business facilities at particular locations, together with professors and colleagues, hosting and the other faculties.

SADRŽAJ PREDMETA:

Pripremna nedjelja	Priprema i upis semestra.

SUBJECT CONTENT:

Preliminary week	Preparation and enrollment of semester.

I nedjelja	P: Kratak pregled razvoja i značaja privrede. V: Upoznavanje sa projektnim zadatkom	1st week	C: A short review of the development and the importance of the economy. T: Introduction to the project task
II nedjelja	P: Osnovne vrste i tipovi privrednih objekatai njihove lokacije. V: Analiza lokacije	2nd week	C: The basic types and the types of commercial buildings and their location. T: Site analysis
III nedjelja	P: Industrijski objekati. V: Analize ideja na lokaciji.	3rd week	C: industrial facility. T: Analyses of ideas on the site.
IV nedjelja	P: Industrijski objekti. V: Razrada ideje u odnosu na lokaciju.	4th week	C: Industrial buildings. T: Development of ideas in relation to the location.
V nedjelja	P: Industrijski objekti. V: Razrada forme.	5th week	C: Industrial buildings. T: Development of form.
VI nedjelja	P: Industrijski objekti. V: Razrada forme i funkcije.	6th week	C: Industrial buildings. T: Development of form and function.
VII nedjelja	KOLOKVIJUM I	7th week	C: Agricultural buildings. T: Development functions.
VIII nedjelja	P: Poljoprivredni objekti. V: Razrada funkcije.	8th week	C: Agricultural buildings. T: Development functions.
IX nedjelja	P: Poljoprivredni objekti. V: Razrada funkcije.	9th week	C: Agricultural buildings. T: Development of the project.
X nedjelja	P: Poljoprivredni objekti. V: Razrada projekta.	10th week	C. Shopping facilities. T: Development of the project.
XI nedjelja	P. Trgovački objekti. V: Razrada projekta.	11th week	C: Shopping facilities. T: Development of the project.
XII nedjelja	P: Trgovački objekti. V: Razrada projekta.	12th week	C: V Shopping facilities T: Development project.
XIII nedjelja	P: Trgovački objekti V: Razrada projekta.	13th week	C: Agricultural buildings. T: Development functions.
XIV nedjelja	KOLOKVIJUM II	14th week	2nd TEST (colloquium)
XV nedjelja	Završni ispit.	15th week	FINAL EXAM.
XVI nedjelja	Ovjera semestra i upis ocjena.	16th week	Verification of the semester and mark enrollment.
XVII nedjelja ** Predavanja (P); Vježbe (V).	Dopunska nastava i popravni ispitni rok.	17th week ** Courses (C), Tutorial (T)	Additional lessons and exam term.
XVIII-XXI nedjelja		18th-21st week	

Opterećenje studenata:

Nedjeljno

9.0 kredita x 40/30 = 12 sati
Struktura: 3 sata predavanja
4 sata računskih vježbi
5 sato samostalnog rada, uključujući konsultacije

U toku semestra

Nastava i završni ispit: (12 sati) x 16 = **192 sata**
Neophodne pripreme prije početka semestra (administracija, upis, ovjera) 2 x (12 sati) = **24 sata**

Ukupno opterećenje za predmet: 9.0x30 = **270 sati**
Dopunski rad: **54 sata**
Struktura opterećenja: 192 sata (Nastava) + 24 sata (Priprema) + 54 sata (Dopunski rad) = 270 sati

Student workload:

Weekly

9.0 credits x 40/30 = 12 hours
Structure: 3 hours of lectures
4 hour for tutorial
5 hours of individual work, including consultations

During the semester

Teaching and the final exam: (12 hours) x 16 = **192 hours Necessary preparations** before the start of the semester (administration, registration, certification) 2 x (12 hours) = **24 hours**
Total hours for the course: 9.0x30 = **270 hours**
Additional hours: 54 hours
Structure of workload: 192 h (lectures)+ 24 h (preparation) + 54 h (add. hours) = 270 h

Literatura / Literature:

Industriski objekti / Industrial buildings:
- Vojislav Damjanović, Industrijski kompleksi i zgrade, Građevinska knjiga, Beograd, 1980.
- Walter Henn, *Internationale Beispiele,* Verlog Georg D.W. Callwey, Munchen, 1962.
- Adam Jürgen, Katharina Hausmann, Frank Jüttner, *Industrial buildings,* Basel, Berlin, Boston, Birkhäuser, 2004.

Poljoprivredni objekti / Agricultural buildings:
- Đorđe Simonović, Poljoprivredne zgrade i kompleksi, Građevinska knjiga, Beograd, 1989.
- Edited David Littlefield, *Metrik Handbook – Planning and Design Data,* Architectural Press – Elsevier, 1968 – 2008.

Oblici provjere znanja i ocjenjivanje:

* Položena oba kolokvijuma i pozitivno ocjenjen sintezni projekat.
- Uredno pohađanje nastave : ukupno 10 poena (svaki izostanak manje 1 poen), maksimalno 3 izostanka
- I kolokvijum : maksimum 20 poena
- II kolokvijum : maksimum 20 poena

Forms of Assessment:

* Student has to pass both tests and positively evaluated synthesis project.
- Regular attendance of classes: 10 points (each one less cause failure point), maximum 3 absences
- First test: maximum 20 points
- Second test: maximum 20 points

- Semestralni rad	: maksimum 50 poena

- Semester work:	maximum 50 points

Očekivani ishodi učenja:

Očekuje se da student, nakon položenog ispita Arhitektonsko projektovanje 3:
1. Ima sposobnost da izradi i predstavi projekte objekata odgovarajuće tipologije – privredni i poslovni objekti, različite razmjere i složenosti;
2. Posjeduje znanje o kontekstualnosti, tj uklapanju objekta u postojeći lokalni, socijalni i fizički, kontekst.
3. Posjeduje adekvatno znanje potrebno za kritičku valorizaciju arhitektonskih projekata odgovarajuće tipologije, sa estetskog, tehničkog aspekta i aspekta potreba korisnika;
4. Poznaje istorijski razvoj odgovarajuće tipologije arhitektonskih objekata, pripadajuće teorijske koncepte, kao i savremene tendencije.

Expected learning outcomes:

It is expected that the student after passing the exam Industrial facilities:
1. Has appropriate theoretical knowledge necessary in the preparation and presentation of projects of objects corresponding typology - economic and commercial buildings, different proportions and complexity;
2. Has knowledge of contexts, ie integration of the facility into the existing local, social and physical, context.
3. Has adequate knowledge needed for critical evaluation of architectural projects appropriate typologies, from the aesthetic, technical aspects and aspects of user needs;
4. Knows the historical development of the corresponding typology of architectural objects, corresponding theoretical concepts, as well as modern tendencies.

Metode za ocjenu kvaliteta i obezbjeđivanje željenih rezultata učenja:

Kontrola od strane Univerziteta, kontrola nastavnog procesa od strane Fakulteta, spisak prisustva studenata, analize stepena prolaznosti (sistem upravljanja kvalitetom u skladu sa ISO 9001).

Methods for assessing the quality and ensuring preferred learning outcomes:

Control by the University, the control of the teaching process by the faculty, the list of presence of students, analysis of the degree of transience (quality management system in accordance with ISO 9001).

Napomena:

Dodatne informacije o predmetu mogu se dobiti kod predmetnog nastavnika, šefa studijskog programa i kod prodekana za nastavu.

Admonishment:

Further information about the subject can be obtained from the course teacher, Head of the study programme and Vice Dean for Education.