

Faculty of Civil Engineering / CIVIL ENGINEERING / CONSTRUCTION MANAGEMENT

| | | | | |
|--------------------------------------|--|-----------------|---------------------|---|
| Course: | CONSTRUCTION MANAGEMENT | | | |
| Course ID | Course status | Semester | ECTS credits | Lessons (Lessons+Exercises+Laboratory) |
| 8038 | Mandatory | 1 | 4.5 | 3+1+0 |
| Programs | CIVIL ENGINEERING | | | |
| Prerequisites | None | | | |
| Aims | Acquisition of knowledge in management theory, organizational behavior, human resource management, leadership, business ethics, negotiation, and decision-making in construction | | | |
| Learning outcomes | After passing this exam, the student will be able to: 1. Master basic concepts in construction management. 2. Understand management functions and levels generally, particularly in the construction industry. 3. Possess knowledge in strategic management, motivation theories, and leadership. 4. Apply acquired knowledge directly in management tasks in the company and on construction sites. | | | |
| Lecturer / Teaching assistant | Prof. dr Miloš Knežević Mr Mladen Gogić | | | |
| Methodology | Lectures and consultations, visits to construction companies | | | |
| Plan and program of work | | | | |
| Preparing week | Preparation and registration of the semester | | | |
| I week lectures | Introduction; Definition, genesis, functions, and classification of management, historical development, management schools | | | |
| I week exercises | Preparation for exercises. Basic instructions. | | | |
| II week lectures | Management functions - Planning; Levels of planning, planning methods: PRECEDENCE method, PERT method, relationship method of planning, resources, finances within construction companies | | | |
| II week exercises | Seminar paper, consultations, and review. | | | |
| III week lectures | Management functions - Organizing; Basic principles, definitions, conditions, and possible organizational models; Sustainable development | | | |
| III week exercises | Seminar paper, consultations, and review. | | | |
| IV week lectures | Division of labor and specialization in construction | | | |
| IV week exercises | Seminar paper, consultations, and review. | | | |
| V week lectures | Definition of organization, organization functioning, organizational means. | | | |
| V week exercises | Seminar paper, consultations, and review. | | | |
| VI week lectures | Organizational behavior and human resource management | | | |
| VI week exercises | Seminar paper, consultations, and review. | | | |
| VII week lectures | FIRST TEST | | | |
| VII week exercises | FIRST TEST | | | |
| VIII week lectures | Management functions - Leading; Definition of leadership and leadership; Basic qualities of successful leadership; Leadership and management styles | | | |
| VIII week exercises | Seminar paper, consultations, and review. | | | |
| IX week lectures | Motivational processes and motivation for work | | | |
| IX week exercises | Seminar paper, consultations, and review. | | | |
| X week lectures | Management functions - Control and coordination; Control of the production process in construction; Coordination. | | | |
| X week exercises | Seminar paper, consultations, and review. | | | |
| XI week lectures | Strategic management; Definition, goal, division, classification, and role in the functioning of construction companies. Competitive behavior in design and construction processes | | | |
| XI week exercises | Seminar paper, consultations, and review. | | | |
| XII week lectures | Negotiation strategies and techniques and conducting business meetings. | | | |
| XII week exercises | Seminar paper, consultations, and review. | | | |

| | | | | | | |
|--|---|--|--|--|--|------------------------------------|
| XIII week lectures | Communication and information processes; Making business decisions. | | | | | |
| XIII week exercises | Seminar paper, consultations, and review. | | | | | |
| XIV week lectures | SECOND TEST | | | | | |
| XIV week exercises | SECOND TEST | | | | | |
| XV week lectures | Evaluation of seminar paper | | | | | |
| XV week exercises | Evaluation of seminar paper | | | | | |
| Student workload | Weekly: 5 credits x 40/30 = 6 hours and 40 minutes Structure: 3 hours of lectures 1 hour of exercises 1 hour of individual exercises 1 hour and 40 minutes of independent study. During the semester: Teaching and final exam: (6 hours 40 minutes) x 16 = 106 hours 40 minutes Preparation before the semester begins (administration, registration, verification): 2 x (6 hours and 40 minutes) = 13 hours and 20 minutes Total workload for the subject 5x30 = 150 hours Additional work for exam preparation in the makeup exam period, including taking the makeup exam, from 0 to 30 hours (remaining time from the first two items to the total workload for the subject 150 hours) Workload structure: 106 hours and 40 minutes (Teaching) + 13 hours and 20 minutes (Preparation) + 30 hours (Additional work) | | | | | |
| Per week | | | Per semester | | | |
| 4.5 credits x 40/30=6 hours and 0 minuts 3 sat(a) theoretical classes 0 sat(a) practical classes 1 excercises 2 hour(s) i 0 minuts of independent work, including consultations | | | Classes and final exam: 6 hour(s) i 0 minuts x 16 =96 hour(s) i 0 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 6 hour(s) i 0 minuts x 2 =12 hour(s) i 0 minuts Total workload for the subject: 4.5 x 30=135 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 27 hour(s) i 0 minuts Workload structure: 96 hour(s) i 0 minuts (courses), 12 hour(s) i 0 minuts (preparation), 27 hour(s) i 0 minuts (additional work) | | | |
| Student obligations | | | To regularly attend lectures and exercises, take tests | | | |
| Consultations | | | Throughout the semester continuously | | | |
| Literature | | | V. Novakovic: Management in Contemporary Construction, Izgradnja, Belgrade, 2003. P. Duranovic: Management of Investment Projects, Faculty of Civil Engineering, Podgorica, 2003. B. Masic: Strategic Management, University "Braca Karic", Belgrade, 2001. P. Duranovic: Construction Management, script, Faculty of Civil Engineering, Podgorica, 2000. G. Cirovic: Business Process Reengineering, Faculty of Civil Engineering, Belgrade, 1999. | | | |
| Examination methods | | | Minimum and maximum points that a student can achieve within the elements that are graded, where the student must achieve the prescribed minimum number of points for each element: • Attendance at lectures and exercises: 1 to 5 points • First test: 10 to 20 points • Second test: 10 to 20 points • Final exam: 5 to 50 points A passing grade is obtained if at least 50 points are accumulated. Both the minimum and maximum points are given. Tests and final exams are written. A passing grade is obtained if 50 points are accumulated. | | | |
| Special remarks | | | | | | |
| Comment | | | Further information about the course can be got from the teacher, assistant, manager of the study program , vice-dean for teaching courses. | | | |
| Grade: | F | E | D | C | B | A |
| Number of points | less than 50 points | greater than or equal to 50 points and less than 60 points | greater than or equal to 60 points and less than 70 points | greater than or equal to 70 points and less than 80 points | greater than or equal to 80 points and less than 90 points | greater than or equal to 90 points |