

"Gh. Asachi" Technical University of Iasi
 Faculty of Civil Engineering
 Domain: Civil Engineering
 Specialization: Civil Engineering - Training
 Qualification: Bachelor Engineer
 Period of studies: four years
 Education form: day courses
 Series: 2005-2009

1st year

| Tip disciplina | Nr. crt. | Denumirea disciplinei | Codul disciplinei | Sem1 | | Sem2 | |
|--|----------|---|-------------------|-----------------|----|-----------------|----|
| | | | | Verif. | K | Verif. | K |
| DI | 1 DF | Mahtematacal Analysis 1 | CC1101 | E | 5 | | |
| | 2 DF | Algebra and geometry 1 | CC1102 | E | 5 | | |
| | 3 DF | The use of Computer | CC1103 | Vp | 3 | | |
| | 4 DF | Engineering graphics | CC1104 | Vp | 2 | | |
| | 5 DF | Chemical | CC1105 | C | 2 | | |
| | 6 DID | Mechanics 1 | CC1106 | E | 4 | | |
| | 7 DID | Building Materials 1 | CC1107 | E | 4 | | |
| | 8 DC | Humanistic Sciences (Techniques of communication) | CC1108 | C | 2 | | |
| | 9 DF | Mahtematacal Analysis 2 | CC1209 | | | E | 3 |
| | 10 DF | Algebra and geometry 2 | CC1210 | | | E | 3 |
| | 11 DF | Physics 1 | CC1211 | | | C | 3 |
| | 12 DID | Mechanics 2 | CC1212 | | | E | 3 |
| | 13 DID | Building Materials 2 | CC1213 | | | E | 4 |
| | 14 DID | Strength of Materials 1 | CC1214 | | | E | 5 |
| | 15 DID | Elements of Architecture and Urban Planning | CC1215 | | | C | 3 |
| | 16 DC | English | CC1216 | Vp | 2 | Vp | 2 |
| | 17 DC | Physical Education | CC1217 | Vp | 1 | Vp | 1 |
| | 18 DF | Practice of initiatory in civil engineering | CC1218 | | | C | 3 |
| DL | | Introducing in civil engineering | | A/R | | | |
| Total examination forms/semester and total credits/semester, for the compulsory subjects | | | | 4E 2C 4Vp | 30 | 5E 3C 2Vp | 30 |

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2nd year

| Tip disciplina | Nr. crt. | Denumirea disciplinei | Codul disciplinei | Sem3 | | Sem4 | |
|--|----------|-------------------------------------|-------------------|-----------------|----|-----------------|----|
| | | | | Verif. | K | Verif. | K |
| DI | 1 DF | Descriptive geometry | CC2101 | E | 4 | | |
| | 2 DF | Infographics AutoCad | CC2102 | C | 3 | | |
| | 3 DF | Physics | CC2103 | E | 4 | | |
| | 4 DID | Strength of Materials 2 | CC2104 | E | 6 | | |
| | 5 DID | Statics of constructions 1 | CC2105 | E | 6 | | |
| | 6 DID | Environment engineering | CC2106 | E | 3 | | |
| | 7 DC | Economy and marketing | CC2107 | C | 2 | | |
| | 8 DID | Statics of constructions 2 | CC2208 | | | E | 6 |
| | 9 DID | Theory of elasticity and plasticity | CC2209 | | | E | 3 |
| | 10 DID | Reinforced concrete | CC2210 | | | E | 3 |
| | 11 DID | Civil construction | CC2211 | | | E | 4 |
| | 12 DID | Engineering geology | CC2212 | | | C | 3 |
| | 13 DID | Hydraulics | CC2213 | | | E | 3 |
| | 14 DID | Surveying | CC2214 | | | C | 3 |
| | 15 DC | English | CC2215 | Vp | 1 | Vp | 1 |
| | 16 DC | Physical education | CC2216 | Vp | 1 | Vp | 1 |
| | 17 DID | Land surveying practice | CC2217 | | | C | 3 |
| Total examination forms/semester and total credits/semester, for the compulsory subjects | | | | 5E 2C 2Vp | 30 | 5E 3C 2Vp | 30 |

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3rd year

| Tip disciplina | Nr. crt. | Denumirea disciplinei | Codul disciplinei | Sem5 | | Sem6 | | |
|--|----------|-----------------------|-------------------------------------|--------|----------|--------|-----------------|----|
| | | | | Verif. | K | Verif. | K | |
| DI | 1 | DID | Dynamics of construction | CC3101 | E | 5 | | |
| | 2 | DF | Numerical methods in engineering | CC3102 | E | 4 | | |
| | 3 | DID | Prestressed and reinforced concrete | CC3103 | E | 5 | | |
| | 4 | DID | Elements of steel structures 1 | CC3104 | C | 3 | | |
| | 5 | DID | Geotechnics | CC3105 | E | 5 | | |
| | 6 | DID | Civil constructions | CC3106 | E | 5 | | |
| | 7 | DIS | Technology of constructions 1 | CC3107 | C | 3 | | |
| | 8 | DID | Computer assisted design | CC3208 | | | C | 2 |
| | 9 | DID | Elements of steel structures 1 | CC3209 | | | E | 4 |
| | 10 | DIS | Foundations | CC3210 | | | E | 5 |
| | 11 | DIS | Wood construction | CC3211 | | | E | 4 |
| | 12 | DIS | Technology of constructions 2 | CC3212 | | | E | 3 |
| | 13 | DID | Economy and legislation | CC3213 | | | C | 3 |
| | 14 | DIS | Optional 1 | CC3214 | | | Vp | 3 |
| | 15 | DIS | Optional 2 | CC3215 | | | Vp | 3 |
| | 16 | DID | Technology and management practice | CC3216 | | | C | 3 |
| Total examination forms/semester and total credits/semester, for the compulsory subjects (DI) and optional subjects (DO) | | | | | 5E 2C | 30 | 4E 3C 2Vp | 30 |

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| Opt.1 | Hygrothermics and Acoustics of Buildings |
| | Structural shapes for building |

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| Opt.2 | Modern solution for structural strengthening |
| | Expertise and design in consolidation works in construction |

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4th year

| Tip disciplina | Nr. crt. | Denumirea disciplinei | Codul disciplinei | Sem7 | | Sem8 | |
|--|----------|---|-------------------|-----------|----|-----------------|----|
| | | | | Verif. | K | Verif. | K |
| DI | 1 DIS | Reinforced concrete structure | CC4101 | E | 5 | | |
| | 2 DIS | Steel structures | CC4102 | E | 4 | | |
| | 3 DIS | Industrial constructions | CC4103 | E | 4 | | |
| | 4 DID | Earthquake engineering | CC4104 | E | 4 | | |
| | 5 DIS | Constructions in rural zone | CC4105 | E | 3 | | |
| | 6 DIS | Optional 3 | CC4106 | Vp | 4 | | |
| | 7 DIS | Optional 4 | CC4107 | Vp | 3 | | |
| | 8 DIS | Optional 5 | CC4108 | Vp | 3 | | |
| | 9 DID | Installations in constructions | CC4209 | | | E | 3 |
| | 10 DIS | Elements of composite structures | CC4210 | | | E | 3 |
| | 11 DID | Management of constructions works | CC4211 | | | E | 5 |
| | 12 DIS | Optional 6 | CC4212 | | | Vp | 3 |
| | 13 DIS | Optional 7 | CC4213 | | | Vp | 3 |
| | 14 DID | Optional 8 | CC4214 | | | E | 3 |
| | 15 DIS | Elaboration and final diploma project stage | CC4215 | | | C | 10 |
| Total hours/week, total examination forms/semester and total credits/semester, for the compulsory subjects (DI) and optional subjects (DO) | | | | 5E 3Vp | 30 | 4E 1C 2Vp | 30 |

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| Opt.3 | Durability of Structures made of Reinforced concrete |
| | Advanced solutions in reinforced concrete |

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| Opt.6 | Light gauge steel structures |
| | Special steel structures |

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| Opt.4 | Advanced building materials |
| | Advanced building technologies |

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| Opt.7 | Masonry Construction |
| | Thermo-physical Rehabilitation of Construction |

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| Opt.5 | Quality Management |
| | Project Management |

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| Opt.8 | Transportation infrastructure |
| | Basics elements in road engineering |

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**CENTRALIZED SITUATION
FOR CURRICULUM**

1. STRUCTURE OF THE ACADEMIC YEAR (in weeks)

| Study year | Teaching Activities | | Exams | | | Practice | Vacations | | |
|------------|---------------------|--------|---------|---------|--------------------|----------|-----------|---------|-----------------|
| | Sem.I | Sem.II | Win-ter | Sum-mer | Autumn (due exams) | | Win-ter | Sum-mer | Summer + Autumn |
| I | 14 | 14 | 4 | 4 | 2 | 2 | 3 | 1 | 8 |
| II | 14 | 14 | 4 | 4 | 2 | 2 | 3 | 1 | 8 |
| III | 14 | 14 | 4 | 4 | 2 | 4 | 3 | 1 | 8 |
| IV | 14 | 14 | 4 | 3 | 2 | - | 3 | 1 | - |

2. STATISTICS ON THE NUMBERS OF HOURS AND THE NUMBER OF CREDITS FOR COMPULSORY TOPICS (DI) AND FOR OPTIONAL TOPICS (DO)

2.1. The number of teaching hours per week and the number of credits per semester

| Study year | No. of teaching hours per week | | No. of credits per semester | |
|------------|--------------------------------|-------------|-----------------------------|-------------|
| | Semester I | Semester II | Semester I | Semester II |
| I zi | 26 | 26 | 30 | 30 |
| II zi | 26 | 26 | 30 | 30 |
| III zi | 25 | 27 | 30 | 30 |
| IV zi | 26 | 26 | 30 | 30 |

2.2. Distribution of teaching hours based on optional/compulsory topics category

| Category of topics | No. of hours | % from total hours | No. of credits | % from total credits |
|------------------------|--------------|--------------------|----------------|----------------------|
| DI – compulsory topics | 2816 | 89,4 | 215 | 89,5 |
| DO – optional topics | 336 | 10,6 | 25 | 10,5 |
| | 3152 | 100 | 240 | 100 |

2.4. Distribution of teaching hours and credits based on formative topics category

| Formative topics category | No. of hours | % from total hours | No. of credits | % from total credits |
|---------------------------------------|--------------|--------------------|----------------|----------------------|
| DF – fundamental topics | 550 | 17,45 | 44 | 18,33 |
| DID – engineering topics in domain | 1608 | 51,02 | 116 | 48,33 |
| DIS – engineering topics in specialty | 812 | 25,76 | 66 | 27,50 |
| DC – complementary topics | 182 | 5,77 | 14 | 5,83 |
| Total no. of hours/no. of credits | 3152 | 100 | 240 | 100 |

2.6. Distribution of teaching hours based on teaching activity type

| Total hours | Nr. hours distributed on activity type | | | | % from no. of hours | | | |
|-------------|--|-----------|------------|-----------|---------------------|-----------|------------|-----------|
| | C lecture | S seminar | L workshop | P project | C lecture | S seminar | L workshop | P project |
| 3152 | 1652 | 280 | 926 | 294 | 52,41 | 8,88 | 29,38 | 9,33 |

3. CONDITIONS FOR OBTAINING LICENSE DIPLOMA

- gathering 240 de credits from compulsory and optional topics
- gathering the practical activities credits (3 credits each year from the study years I, II, III)
- obtaining the certificate of knowledge at a medium level for a foreign language
- obtaining two annual “passed” grades to physical education classes
- obtaining 10 credits to the license examination.