# FACULTY OF CONSTRUCTION

# FULL TIME BACHELOR COURSES

# 

1st year

Groups Շ 90-1, Շ 90-2

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Armenian political history | 1 |  | √ |  |  |
| 2 | Armenian language and speech culture | 2 |  | √ |  |  |
| 3 | Russian language | 2 |  | √ |  |  |
| 4 | Constructional drawing | 4 |  | √ |  |  |
| 5 | Physical education | - |  | √ |  |  |
| 6 | Higher mathematics | 5 |  |  | √ |  |
| 7 | Physics | 4 |  | √ |  | Replaced by quiz |
| 8 | Construction materials | 2 |  |  | √ |  |
| 9 | Theoretical mechanics | 5 |  | √ |  | Replaced by quiz |
| 10 | Engineering geodesy | 4 |  |  | √ |  |

2nd year

## Group Շ 80

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Physical education | - |  | √ |  |  |
| 2 | Foreign language | 2 |  | √ |  |  |
| 3 | Reinforced concrete structures | 4 |  | √ |  |  |
| 4 | Power supply | 3 |  | √ |  |  |
| 5 | Architecture of buildings and facilities | 2+2 | √ |  | √ |  |
| 6 | Strength of materials | 5 |  |  | √ |  |
| 7 | Hydraulic engineering | 5 |  | √ |  | Replaced by quiz |
| 8 | Soil mechanics, foundations and ground bases | 4 |  |  | √ |  |
| 9 | Water supply and water disposal | 3 |  | √ |  | Replaced by quiz |

3rd year

## Group Շ 71

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Modern construction materials | 4 |  | √ |  |  |
| 2 | Masonry structures | 3 |  | √ |  |  |
| 3 | Reinforced concrete structures | 5+1 | √ |  | √ |  |
| 4 | Metal structures | 4+1 | √ |  | √ |  |
| 5 | Construction technology | 2+2 | √ |  | √ |  |
| 6 | Construction mechanics | 5 |  | √ |  | Replaced by quiz |

## Group Շ 72

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Modern construction materials | 4 |  | √ |  |  |
| 2 | Production of insulation construction materials and articles | 4 |  | √ |  |  |
| 3 | Construction mechanics | 4 |  | √ |  | Replaced by quiz |
| 4 | Reinforced concrete structures | 2+2 | √ |  | √ |  |
| 5 | Metal structures | 3+1 | √  Replaced by CGW\* | √ |  | Replaced by quiz |
| 6 | Technology of preparation of concrete and reinforced concrete articles | 3+1 | √ |  | √ |  |
| 7 | Construction technology | 2+2 | √ |  | √ |  |

\*CGW – Computational-graphic work

## Group Շ 73

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Hydraulic engineering | 4 |  | √ |  |  |
| 2 | Water supply and water treatment | 4 |  | √ |  |  |
| 3 | Blasting works | 2 |  | √ |  |  |
| 4 | Water disposal and wastewater treatment | 3+1 | √ |  | √ |  |
| 5 | Turbines and pumps | 2 |  | √ |  | Replaced by quiz |
| 6 | Water chemistry | 4 |  | √ |  | Replaced by quiz |
| 7 | Hydraulic structures | 3+2 | √ |  | √ |  |
| 8 | Pumping and compression stations | 3+1 | √ |  | √ |  |

## Group Շ 74

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Theory of mathematical processing of geodesic measurements | 2 |  | √ |  |  |
| 2 | Informational databases of urban development activities | 2 |  | √ |  |  |
| 3 | Technology of cadastral works | 3 |  | √ |  |  |
| 4 | Cosmic and satellite geodesy | 2 |  | √ |  |  |
| 5 | Higher geodesy | 4+1 | √ |  | √ |  |
| 6 | Photographic measurement and photographic location | 3+2 | √ | √ |  | Replaced by quiz |
| 7 | Applied geodesy | 3+1 | √ |  | √ |  |
| 8 | Land and city cadastre | 3+1 | √ |  | √ |  |

## Group Շ 76

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Logistics | 2 |  | √ |  |  |
| 2 | Banking | 3 |  | √ |  |  |
| 3 | Legal framework and licensing of real estate | 2 |  | √ |  |  |
| 4 | Statistics | 3+1 | √ | √ |  | Replaced by quiz |
| 5 | Construction economics | 4+1 | √ | √ |  | Replaced by quiz |
| 6 | Real estate economy and management | 4+2 | √ |  | √ |  |
| 7 | Evaluation of real estate | 5 |  |  | √ |  |

## Group Շ 78

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Construction technologies | 2 |  | √ |  |  |
| 2 | Line drawing, color picture | 3 |  | √ |  |  |
| 3 | Basics of public buildings design (Typology) | 3 |  |  |  |  |
| 4 | Construction mechanics | 4 |  | √ |  | Replaced by quiz |
| 5 | Reinforced concrete structures | 2+2 | √ |  | √ |  |
| 6 | Architectural structures | 2+2 | √ |  | √ |  |
| 7 | Architectural design | 5 |  |  | √ |  |

## Group Շ 79

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Geodesy in construction of transportation roads | 2 |  | √ |  |  |
| 2 | Design of bridges and artificial structures | 3 |  | √ |  |  |
| 3 | Railroads | 4 |  | √ |  |  |
| 4 | Operation of motorways | 2 |  | √ |  |  |
| 5 | Construction mechanics | 4 |  |  | √ |  |
| 6 | Metal, wooden and plastic structures | 4 |  | √ |  | Replaced by quiz |
| 7 | Designing of motorways | 3+1 | √ |  | √ |  |
| 8 | Transportation tunnels and subway | 3 |  | √ |  | Replaced by quiz |
| 9 | Motorway construction technology | 2+1 | √ |  | √ |  |

# FULL TIME MASTER COURSES

1st year

## Group ՇՄ 91

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Foreign language | 2 |  | √ |  |  |
| 2 | Calculation and engineering methods of construction structures | 4 |  | √ |  |  |
| 3 | Construction physics: specialty course | 2 |  | √ |  |  |
| 4 | Analysis of bearing systems of buildings | 3 |  | √ |  |  |
| 5 | Individual master courses with the manager and preparation of graduation project | 8+2 | √ |  | √ |  |
| 6 | Reconstruction of buildings and facilities | 3 |  | √ |  | Replaced by quiz |
| 7 | Long-span spatial covers | 1+2 | √ |  | √ |  |
|  | Basics of renovation and reconstruction of monument buildings and facilities | 2 |  |  | √ |  |

## Group ՇՄ 92

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Foreign language | 2 |  | √ |  |  |
| 2 | Calculation and engineering methods of construction structures | 3 |  | √ |  |  |
| 3 | Production and application technology of non-metallic reinforcements | 2 |  | √ |  |  |
| 4 | Special purpose organic and inorganic adhesives | 2 |  | √ |  |  |
| 5 | Individual master courses with the manager and preparation of graduation project | 8+2 | √ |  | √ |  |
| 6 | Construction materials science | 3 |  |  | √ |  |
| 7 | Technology of construction materials and articles | 3+1 | √ |  | √ |  |
| 8 | Production technology and application of special and improved concrete, mixes and other additives | 3 |  | √ |  | Replaced by quiz |

## Group ՇՄ 93

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Foreign language | 2 |  | √ |  |  |
| 2 | Water resources management | 2 |  | √ |  |  |
| 3 | Water resources operation and conflicts | 2 |  | √ |  |  |
| 4 | Water systems operation and reliability | 2 |  | √ |  |  |
| 5 | Automation of water supply and water disposal systems | 2 |  | √ |  |  |
| 6 | Individual master courses with the manager and preparation of graduation project | 8+2 | √ |  | √ |  |
| 7 | Special course on hydraulic engineering | 2 |  | √ |  | Replaced by quiz |
| 8 | River channel formation processes and bank protection structures | 1 |  | √ |  | Replaced by quiz |
| 9 | Water supply and water disposal of industrial enterprises | 3 |  |  | √ |  |
| 10 | Water management calculations for HPTs | 3+1 | √ |  | √ |  |

## Group ՇՄ 94

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Foreign language | 2 |  | √ |  |  |
| 2 | Remote sounding | 2 |  | √ |  |  |
| 3 | Spatial analysis | 2 |  | √ |  |  |
| 4 | Cadastral design | 2 |  | √ |  |  |
| 5 | Individual master courses with the manager and preparation of graduation project | 8+2 | √ |  | √ |  |
| 6 | Modern geodesic equipment | 2 |  | √ |  | Replaced by quiz |
| 7 | Global Navigation Satellite Systems (GNSS) | 3 |  | √ |  | Replaced by quiz |
| 8 | Evaluation and taxation of real estate | 2+1 | √ |  | √ |  |
| 9 | Cadastre | 3 |  |  | √ |  |

## Group ՇՄ 96

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Foreign language | 2 |  | √ |  |  |
| 2 | Planning and development of municipal lands | 3 |  | √ |  |  |
| 3 | Economics and management of municipal facilities | 3 |  | √ |  |  |
| 4 | Individual master courses with the manager and preparation of graduation project | 8+2 | √ |  | √ |  |
| 5 | Construction economics, management and organization | 3+1 | √ | √ |  | Replaced by quiz |
| 6 | Rights associated with real estate, environment, lands and motorways | 3 |  |  | √ |  |
| 7 | Real estate market analysis | 4+1 | √ |  | √ |  |

## Group ՇՄ 98

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Foreign language | 2 |  | √ |  |  |
| 2 | Construction physics: specialty course | 3 |  | √ |  |  |
| 3 | Modern architecture | 2 |  | √ |  |  |
| 4 | Structures of tower buildings | 2 |  | √ |  |  |
| 5 | Architectural design of earthquake-resistant buildings | 2 |  | √ |  |  |
| 6 | Individual master courses with the manager and preparation of graduation project | 8+2 | √ |  | √ |  |
| 7 | Reinforced concrete and metal structures. Specialty course | 2+1 | √ |  | √ |  |
|  | Modern long-span structures | 3 |  |  | √ |  |
|  | Design basics of tower buildings | 2 |  | √ |  | Replaced by quiz |

Group ՇՄ 99

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | Subject | Credit | AYP, TP | Quiz | Exam | Note |
| 1 | Foreign language | 2 |  | √ |  |  |
| 2 | Special course on materials strength | 2 |  | √ |  |  |
| 3 | Motorways, municipal streets, connections, airports and their infrastructures | 3+1 | √ | √ |  |  |
| 4 | Individual master courses with the manager and preparation of graduation project | 8+2 | √ |  | √ |  |
| 5 | Characteristics, standards and test of construction materials | 4 |  |  | √ |  |
| 6 | Special course on design of bridges and tunnels | 3 |  | √ |  | Replaced by quiz |
| 7 | Modern construction methods of bridges and tunnels | 4+1 | √ |  | √ |  |