



Applied statistics and data science

Type: **Master**

Speciality: **056201.04.7 - Statistics**

Specialisation: **056201.04.7 - Applied statistics and data science**

Qualification awarded: **Master of Statistics**

Programme academic year: **2024/2025**

Mode of study: **Full time**

Language of study: **Հայերեն**

General educational component

| Chair code | Name of educational module                 | Credits |
|------------|--------------------------------------------|---------|
| 0105       | Information Technologies in Specialization | 3       |
| 0105       | Research Planning and Methods              | 3       |
| 1603       | English                                    | 3       |
| 1604       | ---                                        | 3       |
| 1705       | ---                                        | 3       |
| 1608       | French-1                                   | 3       |

Professional educational component

| Chair code | Name of educational module          | Credits |
|------------|-------------------------------------|---------|
| 0105       | Optimization                        | 3       |
| 0105       | Econometrics                        | 3       |
| 0105       | Գծային հանրահաշիվ և կիրառություններ | 6       |
| 0105       | Applied Statistics                  | 6       |

| Chair code | Name of educational module  | Credits |
|------------|-----------------------------|---------|
| 0105       | Data Engineering            | 3       |
| 0105       | Python Programming language | 3       |
| 0105       | Bayesian statistics         | 6       |
| 0105       | Time Series                 | 3       |
| 0105       | Multivariate Statistics     | 3       |
| 0105       | Machine Learning-1          | 6       |
| 0105       | Computer Vision             | 3       |
| 0105       | Ինֆորմացիայի տեսություն     | 3       |

| Chair code | Name of educational module                 | Credits |
|------------|--------------------------------------------|---------|
| 0105       | Random processes and stochastic analysis   | 6       |
| 0105       | Machine Learning-2                         | 6       |
| 0105       | Deep learning                              | 6       |
| 0105       | Biostatistics                              | 6       |
| 0105       | Graph neural networks                      | 3       |
| 0105       | Digital signal processing                  | 3       |
| 0105       | Մեքենայական ուսուցման նախագծերի կառավարում | 3       |
| 0105       | Machine Learning in Healthcare             | 3       |
| 0105       | Additional chapters of statistics          | 3       |
| 0105       | Reinforcement learning                     | 3       |

#### Other educational modules

| Chair code | Name of educational module | Credits |
|------------|----------------------------|---------|
| 0105       | Scientific Seminar         | 12      |

| Chair code | Name of educational module | Credits |
|------------|----------------------------|---------|
| 0105       | Scientific Seminar         | 12      |
| 0105       | Scientific Seminar         | 12      |
| 0105       | Professional Practice      | 6       |
| 0105       | Scientific Seminar         | 12      |
| 0105       | ----                       | 24      |

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