



Applied statistics and data science

Type: **Master**

Programme academic year: **2024/2025**

Speciality: **056201.04.7 - Statistics**

Mode of study: **Full time**

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

Language of study: **Հայերեն**

Qualification awarded: **Master of Statistics**

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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