

KYRGYZ ECONOMIC UNIVERSITY
Intelligent Information Systems

Syllabus

FALL SEMESTER	2019
Course Title:	Intelligent Information Systems
Credits:	3
Instructor:	Asylbek Abduvapov
Office:	203
Module 1:	September 30, 2018
Module 2:	October 30, 2018
Module 3:	November 30, 2018
Final Exam	December 30, 2018

Curriculum of academic course on “Intelligent Information Systems”

- Lesson 1. Introduction to Intelligent Information Systems.
- Lesson 2. Scientific languages. Python fundamentals.
- Lesson 3. Numpy Library.
- Lesson 4. Installation of Python, Numpy.
- Lesson 5. Scikit-learn.
- Lesson 6. Tensorflow.
- Lesson 7. Training and testing data.
- Lesson 8. Making predictions.
- Lesson 9. Supervised Learning.
- Lesson 10. Classification and Regression.
- Lesson 11. k-Neighbors Classification.
- Lesson 12. Linear models for Classification.
- Lesson 13. Decision trees.
- Lesson 14. Neural Networks (Deep Learning).
- Lesson 15. Unsupervised Learning and Preprocessing.
- Lesson 16. Preprocessing and Scaling.
- Lesson 17. Summary of scikit-learn methods and usage.
- Lesson 18. Representing Data and Engineering Features.
- Lesson 19. Model evaluation and improvement.
- Lesson 20. Multi-class classification.
- Lesson 21. Algorithm Chains and Pipelines.
- Lesson 22. Evaluation Metrics and scoring.
- Lesson 23. Working with Text Data.

Method of Evaluation	Percent of grade
Modules	80
Final Examination	20
Total	100