Artificial Neural Network					
Course Code CIF61020	Student Workload 120 hours	Credits (according to ECTS) 6 (4.5 for theory and1.5 for practical work)	Semester Sem. 5 & 7	Frequency each odd-semester	Duration 16 meetings

1	Types of courses		contact hours	independent study	class size
	compulsory (Study programme level)		84 hours	36 hours	40 students

2	Prerequisites for participation
	Have completed Introduction to Machine Learning & pattern recognition course

3	Learning outcomes
	IF-ILO-2
	Graduates have the ability to be scientific, work collaboratively, have a professional attitude, and have good adaptation skills when working in groups or as an individual.
	IF-ILO-3
	Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements.
	IF-ILO-4
	Graduates have the ability to think computationally, design-based thinking, conduct analysis with scientific writing, and are able to apply the values of Technopreneurship in creating product innovations in the Systems or Information Technology domain.
	IF-ILO-7
	Mastering the theoretical concept and principles of computer science, especially in the aspect of algorithms, programming, intelligent systems, information management, parallel and distributed computing, information security, human-computer interaction, software engineering, and fundamentals of computer systems and networks.
	IF-ILO-10
	Graduates are able to analyze, design, build and evaluate an intelligent system that has the ability to learn from the environment.

4	Subject aims
	Students are able to understand the concept of artificial neural networks.
	Students are able to understand various artificial neural network algorithms.
	Students are able to apply artificial neural network algorithms in various problems or cases.
	Students are able to evaluate the performance of various artificial neural network algorithms.

5	Teaching methods
	lectures, case study, class discussion, presentation.

6	**Assessment methods**
	assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment.
7	**This module is used in the following degree programs as well**
8	**Responsibility for module**
9	**Other information**
	1. Fausett, L. 1994. Fundamentals of Neural Networks. Prentice Hall.
	2. Martin T. Hagan, dkk. Neural Network Design, 2nd Edition.