

The Ministry of Science and Higher Education of the Russian Federation

Tambov State Technical University

# Curriculum

**Master's Degree**

*09.04.01 Informatics and Computer Engineering*

*Direction "Artificial Intelligence in Computer-Aided Design"*

*Full-time (2 years)*

Methodology of Scientific Knowledge
Methods of Optimization
Design of Intelligent Systems
International Professional Communication
Technological Entrepreneurship
Analytical Modeling in Design of Automated Systems
Organization and Automation of Scientific Research
Parallel and Distributed Programming
Project Management in the Field of Artificial Intelligence
Applied Intelligent and Expert Systems
Machine Learning
Applied Tasks of Data Analysis
Advanced Learning in Design
Architectural Modeling in Intelligent Systems Design
Experimental Research in Intelligent Systems Design
History and Directions of Artificial Intelligence Development
Technologies for Processing and Analyzing Large Data Arrays
Creating Artificial Intelligence Applications in Python
Theoretical Fundamentals of CAD Systems
Knowledge Management and Decision -making Methods
<b>Training Practice</b>
<b>Observing Practice</b>
<b>Enterprise Practice</b>
<b>Scientific and Research Work</b>
<b>Technological Practice</b>
<b>Pre-Diploma Practice</b>
<b>Final State Examination</b>
<b>Final Qualification Project</b>
<b>Optional Disciplines:</b>
Business English
Pedagogics of Higher School
Organizational and Managerial Activities