Julius-Maximilians-
UNIVERSITÄT
WÜRZBURG

Organizational Economics and Digital Transformation (Master)

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📌 Course Overview

Success in firms and institutions depends on how well they are organized. Why do some organizations foster **cooperation** while others struggle with inefficiency? How do digital technologies reshape incentives and decision-making?

This course explores **organizational economics** and **digital transformation**, using game theorical concepts and economic reasoning to analyze cooperation, incentives, AI-driven decision-making, and institutional change.

🧩 Key Topics

✓ Organizational Challenge & **Social Dilemmas**
✓ **Sacrifice**, Individual Rationality, and Preferences
✓ **Algorithmic Bias** & AI in Decision-Making
✓ (Behavioral) Game Theory & Strategic Interaction
✓ Institutional Change & **Organizational Cooperation**
✓ Repeated Games & Algorithmic Collusion
✓ Digital Business Models and **AI in Organizations**

📖 Learning Approach

- Problem-Driven Approach & Interactive Format
- Hands-On Exercises & Food for Thought Questions
- Group Bonus Project: "AI for Cooperation in Organizations"

📌 Motto

“Perfection is achieved, not when there is nothing more to add, but when there is nothing left to take away.”
— Antoine de Saint-Exupéry

🗓️ Course Format

📍 Weekly Lectures & Exercises

📍 Grade **bonus**

- Two group presentation components, no written submission
- Very helpful in preparing for the final written exam
- Improve by one grade step (0.3/0.4), conditional on passing the (main) exam!

📍 Final written **exam** of 60 minutes:

- Calculations and/or multiple choice (~40%)
- Writing a short **essay** using the concepts learned in the lecture (~60%)

➢ Practice and sample questions provided during exercise sessions!