Full-Time Studies   Semester 1, 2
WINTER SCHOOL

Module 5 European Studies through Digital Political Science

Practical workshop No. 1

Topic 1: EU Policy Simulations Through Digital Tools

Part 1: The Impact of Big Data on Political Strategy and Governance

1. **Defining Big Data in the Context of EU Governance**
   o How **large-scale data analytics** informs policy decisions.
   o The role of **structured and unstructured data sources** in EU political analysis.
2. **Big Data in Policy-Making and Public Administration**
   o AI-driven **real-time monitoring of economic, social, and political trends**.
   o How **predictive analytics** helps forecast policy outcomes.
   o Case study: **Big data use in climate policy and migration crisis management**.
3. **Big Data in EU Elections and Political Campaigns**
   o The role of **data-driven voter profiling and targeted campaigning**.
   o Social media sentiment analysis in **measuring political engagement**.
   o Ethical concerns in **microtargeting and algorithmic manipulation of voters**.
4. **Challenges of Using Big Data in Political Decision-Making**
   o **Data privacy concerns** under GDPR and ethical issues in political analytics.
   o Risks of **algorithmic bias and misinformation** in data-driven governance.
   o **Transparency and accountability** in AI-based political decisions.

Part 2: The Future of Big Data in EU Political Decision-Making

1. **AI and Machine Learning for Policy Development**
   o AI-driven **policy simulations and scenario modeling**.
   o The role of **big data in EU crisis response and security intelligence**.
   o Using **automated legal analysis** to assess legislative impacts.
2. **Big Data and Citizen Engagement in the EU**
   o Open data initiatives for **public transparency and participatory governance**.
   o AI-powered **public consultations and e-democracy platforms**.
   o Blockchain for **secure and tamper-proof citizen voting records**.
3. **Regulating Big Data in Political Processes**
   o The role of **EU regulations (e.g., Digital Services Act, AI Act) in data-driven governance**.
   o Ethical AI frameworks to **prevent bias and protect democracy**.
   o The impact of **cross-border data sharing and international governance**.
4. **The Future of Big Data in EU Politics**
   o Integration of **real-time analytics in legislative processes**.
   o Expanding **data-driven diplomacy and global policy coordination**.
   o How **quantum computing could revolutionize big data processing in politics**.