

MASTER'S ON TECHNOLOGY AND PRIVACY

Syllabus

Module	PRIVACY AND SURVEILLANCE CONCEPTS I [5 ECTS]
Contents	<ul style="list-style-type: none"> - The relationship between privacy, surveillance and data protection - History and Sociology of surveillance: the Panoptic and beyond - Surveillance dimensions: (institutional, corporate, interpersonal) - Social relations and values under surveillance - Resistance strategies: sousveillance and counterveillance - Privacy, security and transparency - Privacy Advocacy
Module	PRIVACY AND SURVEILLANCE CONCEPTS II [4 ECTS]
Contents	<ul style="list-style-type: none"> - Digital identification technologies and Dataveillance - Identification practices and techno-social relations (STS) - The economics of privacy - Technology and surveillance risks (function creep, disclosure, discrimination, etc.) - The surveillance industry: actors and exports
Module	LAW, POLICY, AND TECHNOLOGY [5 ECTS]
Contents	<ul style="list-style-type: none"> - The fundamentals of privacy law and policy - Data protection principles and data subjects' rights - Who does what: privacy professionals, managers, and technologists - DPAs: competences, possibilities, limitations - Tapping, hacking and controversies (NSA, etc)

	<ul style="list-style-type: none"> - The transatlantic debate - Limitations, problems and new technological developments
Module	DESIGN OF SECURE SYSTEMS [5 ECTS]
	<ul style="list-style-type: none"> - Technological audit: software, hardware and networks - Threat detection and modelling - Cryptography, anonymity and re-identification - Secure storage and authentication management - Translating societal concerns into technological solutions
Module	MEASURING PRIVACY AND TECHNOLOGY IMPACTS [5 ECTS]
Contents	<ul style="list-style-type: none"> - PIAs, SIAs, DPIAs, etc - The policy cycle: problem definition, design, implementation, evaluation and indicators - Stakeholders and value transfers: public authorities, private actors, media and civil society - Responsible research and innovation and ethics - Research project assessment and case studies

Module	TOOLS AND SECTORS I [8 ECTS]
Contents	<p>Introduction to data tools: Metadata, The Cloud, Biometrics, Geo-location, Gamification, Algorithms</p> <p>--</p> <p>Sectors:</p> <ul style="list-style-type: none"> - Law enforcement - Health - Science and research - Workplace & Corporate - Marketing & behavioural advertising

Module	TOOLS AND SECTORS II [7 ECTS]
Contents	<p>Introduction to data tools: Big Data, Internet of Things, Social networks, DBs, Browsing, Drones -- Sectors: - Smart cities - Crisis management - Journalism - Banking - The entertainment industry</p>

Module	PRIVACY MANAGER (2) x [6 ECTS]
Contents	<ul style="list-style-type: none"> - Duties and responsibilities of privacy managers - European and international privacy and data protection frameworks - Privacy policies in the public and private sectors and Public-Private Partnerships (PPP) - Assessment of privacy risks and management of information requests
	<ul style="list-style-type: none"> - Data management and computer security - Role of chief privacy officers and data protection officers - Implementing an organizational privacy program and strategy - Conducting a Privacy Impact Assessment (PIA) - Engineering: Implementing Privacy by Design (PbD, PETs)

Module	PROJECT/INTERNSHIP [15 ECTS]
a	Master's project for those enrolled for academic purposes
b	Internships for those enrolled for professional purposes