

Discipline	Core teachings / Typical course topic
IS	<ul style="list-style-type: none"> ● Business Continuity and Information Assurance (BCIA): Cybersecurity, IT risk management, IT audit ● Data, Information and Content Management (DATA): Business intelligence / analytics, Data mining, machine learning, Enterprise information management, data management, data architecture, data protection / privacy ● Enterprise Architecture (EARC): Enterprise architecture, enterprise modeling, business processes ● Business Ethics, Impacts, and Sustainability (ETIS): Sustainable IT operations / IT management ● Innovation, Organizational Change, and Entrepreneurship (IOCE): Digital innovation, Business models, Digital service design, Design thinking ● IS Management and Operations (ISMO): IS/IT management, IS/IT operations, IS/IT sourcing ● IS Strategy and Government (ISSG): IS/IT/digital strategy, IT/IT/digital governance, ● IT Infrastructure (INFR): IT infrastructures, IT security, cloud computing, communication networks ● Systems Development and Deployment (SDAD): System analysis and design, IT project management, agile methods, IS development, programming.
CS	<p>Programming; HW/SW architectures; Design of IT systems; UX/Web Design; Algorithms and data structures; computer and network design; modeling data and information processes; machine learning and artificial intelligence; computer and communication security; information security and privacy; Human-Computer Interaction; UI Design; Interaction Design.</p>
Man	<p>Technology management, Management of Digital Innovation, Digital media management.</p>

In the case the course title is unclear, the CPhD commission might request the syllabus of the course from the candidate. The set of core competences will be checked against the [ACM/CS](#) and [ACM/IS](#) guidelines.