



University Requirements

Faculty Requirements (Basic Science)

Specialization Requirements of Technical Electives
(Prerequisites are deSemestered according to the selected course)

Specialization Requirements

Faculty Requirements (Basic Engineering)

— 3CH Course

- - - 2CH Course

..... 4CH Course

CESS TRACKS

MULTIMEDIA AND COMPUTER GRAPHICS	DISTRIBUTED AND MOBILE COMPUTING	SOFTWARE PRODUCT LINES	DATA SCIENCE
Digital Image Processing	Parallel and Cluster Computing	Software Formal Specifications	Advanced Database Systems
Pattern Recognition	Parallel and Distributed Algorithms	Program Analysis	Introduction to Machine Learning
Computer Graphics	Internet of Things	Dependability and Reliability of Software Systems	Data Mining and Business Intelligence
Human-Computer Interaction	Networks Operation and Management	Software Engineering Process Management	
		Business Process Modelling	Big-Data Analytics
Visualization	Embedded Operating Systems		Deep Learning
Multimedia Engineering	Cloud Computing	Software Performance Evaluation	Bioinformatics
Computer Animation	Mobile and Wireless Networks	Aspect- and Service-Oriented Software Systems	Ontologies and the Semantic Web
Game Design and Development	Computer and Network Forensics	Secure Code Development	Selected Topics in Data Science
Computer Vision	Selected Topics in Distributed and Mobile Computing	Software Quality Assurance	
Selected Topics in Multimedia and Computer Graphics		Selected Topics in Software Product Lines	