

Acad Unit	Course Code and Title	Units	Lab	SSG Subsidy
<b>Core Courses</b>				
	IND5001 Introduction to Industry 4.0 and Applications	4	N	N
	IND5002 Digital-Physical Integration in Industry 4.0	4	N	N
	IND5003 Data Analytics for Sense-making	4	N	N
	IND5004 Digital Infrastructure and Transformation	4	N	N
	IND5005A Professional Career Development	0.5	N	N
	IND5005B Industry Consulting and Application Project	3.5	N	N
<b>Elective Courses</b>				
<b>BIZ</b>	<b>Graduate Certificate in Digital Supply Chain</b>	<b>12</b>		
	IND5021 Managing the Digital Supply Chain	4	N	Y
	IND5022 Data Analytics for Smart Manufacturing	4	N	Y
	DOS5101A Managing the Financial Supply Chain	2	N	Y
	IND5024 Strategic Procurement in a Digital World	2	N	Y
	<b>Graduate Certificate in Financial Management and Analytics</b>	<b>12</b>		
	DBA5105 Fintech, Enabling Technologies, and Analytics	4	N	N
	DBA5107 Data Analytics in Banking	4	N	N
	DOS5101A Managing the Financial Supply Chain	2	N	Y
	IND5024 Strategic Procurement in a Digital World	2	N	Y
<b>SoC</b>	<b>Graduate Certificate in Digital Business (Choose 3 Courses)</b>	<b>12</b>		
	IS5007 Strategising for Global IT-enabled Business Success	4	N	Y
	IS5116 Digital Entrepreneurship	4	N	Y
	IS5117 Digital Government	4	N	Y
	IS5151 Information System Security Policy and Management	4	N	Y
	<b>Graduate Certificate in Computing Foundations II</b>	<b>12</b>		
	<b>(Choose 1 Course)</b>			
	IT5002 Computer Systems and Applications	4	Y	Y
	IT5003 Data Structures and Algorithms	4	Y	Y
	IT5004 Enterprise Systems Architecture Fundamentals	4	Y	Y
	<b>(Choose 2 Courses)</b>			
	IT5005 Artificial Intelligence	4	Y	Y
	IT5006 Fundamentals of Data Analytics	4	Y	Y
	IT5007 Software Engineering on Application Architecture*	4	Y	N
	<b>FoS</b>	<b>Graduate Certificate in Quality Assurance and Yield Optimization (Choose 2 Courses)</b>	<b>8</b>	
ST5203 Design of Experiments for Product Design and Process Improvements		4	N	Y
ST5208 Analytics for Quality Control and Productivity Improvements		4	N	Y
ST5212 Survival Analysis		4	N	Y
ST5210 Multivariate Data Analysis		4	N	Y
<b>Graduate Certificate in Statistics for Data Science (Choose 2 Courses)</b>		<b>8</b>		
ST5227 Applied Data Mining		4	N	Y
ST5225 Statistical Analysis of Networks		4	N	Y
ST5226 Spatial Statistics		4	N	Y
<b>Other Electives</b>				
DSA5202 Advanced Topics in Machine Learning		4	N	Y
DSA5203 Visual Data Processing and Interpretation		4	N	Y
DSA5102 Foundations of Machine Learning		4	N	Y

Acad Unit	Course Code and Title	Units	Lab	SSG Subsidy
ISS	<b>ISY5002 Graduate Certificate in Pattern Recognition Systems</b> <ul style="list-style-type: none"> <li>• Problem Solving Using Pattern Recognition</li> <li>• Pattern Recognition and Machine Learning Systems</li> <li>• Intelligent Sensing and Sense Making</li> <li>• Practice Project</li> </ul>	13	Y	Refer to ISS website
	<b>ISY5004 Graduate Certificate in Intelligent Sensing Systems</b> <ul style="list-style-type: none"> <li>• Vision Systems Engineering</li> <li>• Spatial Reasoning from Sensor Data</li> <li>• Real time audio-visual sensing and sense making</li> <li>• Practice Project</li> </ul>	10	Y	Refer to ISS website
	<b>ISY5003 Graduate Certificate in Intelligent Robotic Systems<sup>^</sup></b> <ul style="list-style-type: none"> <li>• Autonomous Robots and Vehicles</li> <li>• Human-Robot System Engineering</li> <li>• Robotic Systems</li> <li>• Practice Course</li> </ul>	13	Y	Refer to ISS website
	<b>ISY5005 Graduate Certificate in Intelligent Software Agents<sup>^</sup></b> <ul style="list-style-type: none"> <li>• Intelligent Process Automation</li> <li>• RPA and IPA - Strategy and Management</li> <li>• Self-Learning Systems</li> <li>• Software Robots - Best Practices</li> <li>• Practice Course</li> </ul>	10	Y	Refer to ISS website
CDE	<b>Graduate Certificate in Internet of Things (Choose 5 Courses)</b>	10		
	EE5020 Data Science for Internet of Things	2	Y	Y
	EE5021 Cloud Based Services for Internet of Things	2	Y	Y
	EE5022 Cyber Security for Internet of Things	2	Y	Y
	EE5023 Wireless Networks	2	Y	Y
	EE5024 Sensor Networks	2	Y	Y
	EE5025 Intellectual Property: Innovations in IoT	2	Y	Y
	EE5026 Machine Learning for Data Analytics	2	Y	Y
	EE5027 Statistical Pattern Recognition	2	Y	Y
	EE5060 Sensors and Instrumentation for Automation	2	Y	Y
	EE5061 Industrial Control and Programming	2	Y	Y
	<b>Graduate Certificate in Robotics and Automation (Choose 3 to 5 Courses)</b>	10		
	EE5060 Sensors and Instrumentation for Automation	2	Y	Y
	EE5061 Industrial Control and Programming	2	Y	Y
	EE5062: Autonomous Systems	2	Y	Y
	EE5064: Dynamics and Control of Robotic Manipulators	2	Y	Y
ME5402 Advanced Robotics	4	Y	N	
ME5405 Machine Vision	4	Y	N	

\*Pre-requisite is IT5003 Data Structures and Algorithms

<sup>^</sup>Pre-requisite is ISY5002 Graduate Certificate in Pattern Recognition Systems

Note: Course offerings are subject to changes.