

| Acad Unit | Course Code and Title | Units | Lab | SSG Subsidy ^{††} |
|---|---|-----------|-----|---------------------------|
| Core Courses | | | | |
| BIZ | IND5001 Introduction to Industry 4.0 and Applications | 4 | N | N |
| CDE | IND5002 Digital-Physical Integration in Industry 4.0 | 4 | N | N |
| FoS | IND5003 Data Analytics for Sense-making | 4 | N | N |
| SoC | IND5004 Digital Infrastructure and Transformation | 4 | N | N |
| SCALE | IND5005A Professional Career Development | 0.5 | N | N |
| | IND5005B Industry Consulting and Application Project | 3.5 | N | N |
| Elective Courses | | | | |
| BIZ | Graduate Certificate in Digital Supply Chain | 12 | | |
| | IND5021/DOS5021 Managing the Digital Supply Chain | 4 | N | N |
| | IND5022/DOS5022 Data Analytics for Smart Manufacturing | 4 | N | Y |
| | DOS5101A Managing the Financial Supply Chain | 2 | N | N |
| | IND5024/DOS5024 Strategic Procurement in a Digital World | 2 | N | N |
| | DOS5025 Global Industry Insights for Smart Industries | 2 | N | Y |
| | Graduate Certificate in Financial Management and Analytics | 12 | | |
| | 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 | N |
| | IND5024/DOS5024 Strategic Procurement in a Digital World | 2 | N | N |
| SoC | Graduate Certificate in Digital Business (Choose 3 Courses) | 12 | | |
| | 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 |
| | Graduate Certificate in Computing Foundations II | 12 | | |
| | (Choose 1 Course) | | | |
| | IT5002 Computer Systems and Applications | 4 | Y | Y |
| | IT5003 Data Structures and Algorithms | 4 | Y | Y |
| | IT5004 Enterprise Systems Architecture Fundamentals | 4 | Y | Y |
| | (Choose 2 Courses) | | | |
| | IT5005 Artificial Intelligence | 4 | Y | Y |
| | IT5006 Fundamentals of Data Analytics | 4 | Y | Y |
| | IT5007 Software Engineering on Application Architecture* | 4 | Y | N |
| FoS | Graduate Certificate in Quality Assurance and Yield Optimization[†] | 8 | | |
| | (Choose 2 Courses) | | | |
| | ST5203 Design of Experiments for Product Design and Process Improvements | 4 | N | N |
| | ST5212 Survival Analysis | 4 | N | Y |
| | ST5210 Multivariate Data Analysis | 4 | N | Y |
| | Graduate Certificate in Statistics for Data Science[†] | 8 | | |
| | (Choose 2 Courses) | | | |
| | ST5227 Applied Statistical Learning | 4 | N | Y |
| | ST5225 Statistical Analysis of Networks | 4 | N | Y |
| | ST5226 Spatial Statistics | 4 | N | Y |
| | Other Electives | | | |
| | 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 | ISY5002 Graduate Certificate in Pattern Recognition Systems <ul style="list-style-type: none"> Problem Solving Using Pattern Recognition Pattern Recognition and Machine Learning Systems Intelligent Sensing and Sense Making Practice Project | 13 | Y | Refer to ISS website |
| | ISY5004 Graduate Certificate in Intelligent Sensing Systems <ul style="list-style-type: none"> Vision Systems Engineering Spatial Reasoning from Sensor Data Real time audio-visual sensing and sense making Practice Project | 10 | Y | Refer to ISS website |
| | ISY5003 Graduate Certificate in Intelligent Robotic Systems[^] <ul style="list-style-type: none"> Autonomous Robots and Vehicles Human-Robot System Engineering Robotic Systems Practice Course | 13 | Y | Refer to ISS website |
| | ISY5005 Graduate Certificate in Intelligent Software Agents^{^+} <ul style="list-style-type: none"> Intelligent Process Automation RPA and IPA - Strategy and Management Self-Learning Systems Software Robots - Best Practices Practice Course | 10 | Y | Refer to ISS website |
| CDE | Graduate Certificate in Internet of Things (Choose 5 Courses) | 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 |
| | Graduate Certificate in Robotics and Automation (Choose 3 to 5 Courses) | 10 | | |
| | EE5060 Sensors and Instrumentation for Automation | 2 | Y | Y |
| | EE5061 Industrial Control and Programming | 2 | Y | Y |
| | EE5062 Autonomous Systems | 2 | Y | N |
| | EE5064 Dynamics and Control of Robotic Manipulators | 2 | Y | N |
| ME5402 Advanced Robotics | 4 | Y | N | |
| ME5405 Machine Vision | 4 | Y | N | |

*Co-requisite is IT5003 Data Structures and Algorithms

[^]Pre-requisite is ISY5002 Graduate Certificate in Pattern Recognition Systems

[#] SSG funding for courses is limited in duration and subject to availability

⁺Graduate Certificate offered only to cohorts AY2023/24 and before.

Note: Course offerings are subject to changes every Semester. The University reserves the right to make changes to the Graduate Certificate offerings as necessary without prior notice.