

NUS ECE EMPOWERS YOU FOR A CAREER IN INDUSTRY 4.0



IN THE FUTURE, COMPLEX PRODUCTION SYSTEMS WILL FUNCTION AS ARTIFICIAL INTELLIGENCE DRIVEN SELF-ORGANIZING INTERNET-OF-THINGS



Learn about machines augmented with sensors which communicate with each other, servers, the cloud and people to enhance autonomy, visualization and decision making. Design systems to boost industrial productivity.

The B.Eng. (Electrical Engineering) programme provides a suite of modules, projects and internship opportunities to empower you for an exciting and rewarding career along Industry 4.0.

REPRESENTATIVE MODULES AND RELATED PROGRAMMES

<p>INTERNET OF THINGS, BLOCKCHAIN</p> <p>EE2028 Microcontroller Programming & Interfacing EE3731C Signal Processing EE4032 Blockchain EE4210 Network Protocols EE5132 Wireless & Sensor Networks</p> <p>INDUSTRIAL AUTOMATION</p> <p>EE3331C Feedback Control System EE4218 Embedded Hardware System EE4302 Advanced Control System EE4303, EE5111 Industrial Control EE4307 Control System Design & Simulation EE5104, EE6104 Adaptive Control EE5110 Automation & Control</p>	<p>AI, MACHINE LEARNING</p> <p>EE2211 Machine Learning EE4211 Data Science for IoT EE4212, EE4704 Computer Vision EE4305 Fuzzy & Neural Systems for Intelligent Robotics</p> <p>ROBOTICS, UNMANNED AERIAL VEHICLES</p> <p>EE3305 Robotic System Design EE4308 Autonomous Robot Systems EE4309 Robot Perception EE4705 Human-Robot Interaction EE5106 Advanced Robotics</p> <p>INNOVATION, ENTERPRISE</p> <p>EE3031 Innovation & Enterprise EE4031 Intellectual Property</p>	<p>MINORS IN</p> <ul style="list-style-type: none"> Artificial Intelligence Business Analytics Data Engineering <p>SECOND MAJOR IN</p> <ul style="list-style-type: none"> Data Analytics <p>SPECIALIZATIONS IN</p> <ul style="list-style-type: none"> Internet of Things Robotics <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px;"> <p>BE HUMBLE AND REMAIN OPEN TO OPPORTUNITIES</p> </div>
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PROJECTS (PARTIAL LIST)

Prognostics, Predictive Maintenance, Fault Detection using Deep Learning, Train Fault Detection, Virtual Reality System, UAV Visual Localization with Deep Learning, IoT and Edge Analytics, Smart Buildings, Mobile Vital Signs Monitoring Systems, Rehabilitation

INTERNSHIPS (PARTIAL LIST)

A*STAR, Airbus, Applied Materials, AMD, DSO, Global Foundries, DSTA, Infineon Technologies, Hewlett Packard, Micron, Rolls-Royce, SIMTech, SingTel, ST Kinetics

