

ELECTRICAL ENGINEERING - MINOR + MINOR

<u>HealthTech Engineer</u>

FOR COHORT AY2021/2022 ONWARDS	MC
Common Curriculum	60
GESS Singapore Studies	4
GEC Cultures and Connections	4
GEN Communities and Engagement	4
ES2531 Critical Thinking and Writing	4
CS1010E Programming Methodology	4
GEA1000 Quantitative Reasoning with Data	4
DTK1234 Design Thinking	4
EG1311 Design and Make	4
IE2141 Systems Thinking and Dynamics	4
EE2211 Introduction to Machine Learning	4
EG2501 Liveable Cities	4
Creating Narratives	4
PF1101 Fundamentals of Project Management	4
EE4002D Design Capstone OR EE4002R Research Capstone (select 1)	8
Major Requirements	60
MA1511 Engineering Calculus	2
MA1512 Differential Equations for Engineering	2
MA1508E Linear Algebra for Engineering	4
FG2401A Engineering Professionalism	2
EE1111A Electrical Engineering Principles and Practice I	4
EE2111A Electrical Engineering Principles and Practice II	4
EE2012 Analytical Methods in Electrical and Computer Engineering	4
EE2023 Signals and Systems	4
EE2026 Digital Design OR	4
EE2028 Microcontroller Programming and Interfacing (select 1)	
EE2027 Electronic Circuits	4
EE2022 Electrical Energy Systems	4
PC2020 Electromagnetics for Electrical Engineers	4
EG3611A Industrial Attachment	10
Technical Electives (select 2 modules from the list of Technical Elective modules,	8
see next page)	
Minor in Management	20
Any two (2) modules from the following	8
MNO1706X Organisational Behaviour or PL3239 Industrial & Organisational	4
Psychology	
ACC1701X Accounting for Decision Makers or EC2204 Financial Accounting for	4
Economists	
MKT1705X Principles of Marketing	4
BSP1702X Legal Environment of Business or RE1703 Principles of Law for Real	4
Estate	
BSP1703/X Managerial Economics or EC1101E Introduction to Economic Analysis	4
or EC1301 Principles of Economics	
DA01/04X Decision Analytics using Spreadsheets	4
Any three (3) modules from Level-2000 and Level-3000 modules subject to the	12
Collowing criteria	
1 Lovel 2000 modules	
 Maximum of 2 modules in any one of the 7 areas 	
Refer to https://bba.nus.edu.sg/academic-programmes/majors-minors/pon-business-	
students/cohort-2019-after/ for other criteria and undates	
Minor in Public Health	20
Refer to https://sph.nus.edu.sg/wp-content/uploads/2021/06/Curriculum_Revised-	
Minor-in-Public-Health-for-AY2019 2020-onwards.pdf	
Other Unrestricted Electives	0
TOTAL	160

List of Technical Elective modules:		
List of Technical Elective modules: Foundation E E3131C Communication Systems E E3131C Communication Systems E E3331C Feedback Control Systems E E3331C Feedback Control Systems E E3331C Signal Analytics E E3331C Signal Analytics E E3331C Signal Analytics E E3331C Signal Analytics E E33104C Introduction to RF and Microwave Systems & Circuits Communications & Networks E E4204 Computer Networks E E4205 Quantum Communication and Cryptography E E4210 Network Protocols and Applications E E4211 Data Science for the Internet of Things E E4802/IE4213 Learning from Data Integrated Circuits & Embedded Systems CG3207 Computer Architecture E E4407 Analog Electronics E E4407 Analog Electronics E E4415 Integrated Digital Design Control, Intelligent Systems & Robotics E E4302 Advanced Control Systems E E4302 Advanced Control Systems E E4302 Advanced Control	Microelectronic Technologies & Devices • EE4409 Modern Microelectronic Devices & Sensors • EE4435 Modern Transistors and Memory Devices • EE4436 Fabrication Process Technology • EE4437 Photonics – Principles and Applications • EE4438 Solar Cells and Modules Power & Energy Systems • EE4501 Power System Management & Protection • EE4502 Electric Drives and Control • EE4503 Power Electronics for Sustainable Energy Technologies • EE4511 Renewable Generation and Smart Grid • EE4513 Electric Vehicles and their Grid Integration Signal Analysis & Machine Intelligence • EE4704 Image Processing and Analysis • EE4705 Human-Robot Interaction Microwave & RF • EE4101 RF Communications • EE4101 RF Communications • EE4101 RF Communications • EE4112 Radio Frequency Design and Systems	
Simulation • EE4308 Autonomous Robot Systems • EE4309 Robot Perception	General • EE3031 Innovation & Enterprise I • EE4031 Intellectual Property: Harnessing Innovation (2 MC) • EE4032 Blockchain Engineering (2 MC)	

*The listed modules are subject to change.