

Courses Offered in AY2025-2026				(Cohort AY19/20 onwards)	(Cohort AY25/26 onwards)		
Course Code	Course Title	Unit	Semester 1	Semester 2	Pre-requisites	Co-requisites	Preclusions
ME Major Courses							
ME1103	Principles of Mechanics and Materials	4	Prof Manoj Gupta Dr Ong Eng Teo	A/Prof Christina Lim Dr Ong Eng Teo			ME1102 ME2112
ME2102	Engineering Innovation & Modelling	4	Dr Jason Ku Asst Prof Yu Jun Tan	Dr Jason Ku Asst Prof Yu Jun Tan			
ME2105	Principles of Mechatronics and Automation	4	A/Prof Chui Chee Kong A/Prof Teo Chee Leong	A/Prof Chui Chee Kong A/Prof Teo Chee Leong			ME2104 ME2143 TME2143
ME2112	Strength of Materials (cohort AY24/25 & before)	4	Dr Ong Eng Teo A/Prof Vincent Tan	Dr Ong Eng Teo A/Prof Vincent Tan	ME1102		ME2113 ME2116
ME2121	Engineering Thermodynamics and Heat Transfer	4	Dr Daniel Sng A/Prof Md Raisul Islam	Dr Daniel Sng A/Prof Md Raisul Islam	ME1102	ME1103	TME2121
ME2134	Fluid Mechanics I	4	A/Prof Teo Chiang Juay Prof Shu Chang	A/Prof Teo Chiang Juay Prof Shu Chang	ME1102	ME1103	TME2134
ME2162	Manufacturing Processes	4	Asst Prof Zhai Wei Asst Prof Sing Swee Leong	Asst Prof Zhai Wei Asst Prof Sing Swee Leong			
ME3115	Mechanics of Machines (previously ME2115)	4	Dr Ong Eng Teo Dr Shen Lei	Dr Ong Eng Teo Dr Shen Lei	ME1102 or ME1103		ME2115
ME3142	Feedback Control Systems (previously ME2142)	4	A/Prof Ong Chong Jin Asst Prof Subramaniam V	A/Prof Ong Chong Jin Asst Prof Subramaniam V	MA1512 & MA1513 or MA1508E		ME2142 TME2142 EE3331C
ME4101A	B.Eng. Dissertation	8	Dr Danielle Tan	Dr Danielle Tan			ME4101 ME4101B CDE4301
ME Technical Electives Courses							
ME2114	Mechanics of Materials	4		Dr Ong Eng Teo A/Prof Yan Wentao	ME2112		ME1103 ME2116 ME2114E
ME2135	Intermediate Fluid Mechanics	4		Prof Khoo Boo Cheong Asst Prof Zhang Mengqi	ME2134/ME2134E/ TME2134		ME3123 TME2135
ME2143	Sensors & Actuators (Newly offered in AY25/26 for cohort AY24/25 and before)	4	A/Prof Chui Chee Kong A/Prof Zhou Guangya		ME2104		ME2105 TME2143
ME3101	Mechanical Systems Design I	4	Dr Jason Ku	Dr Jason Ku	ME2102		
ME3102	Mechanical Systems Design II	4	Dr Jason Ku	Dr Jason Ku	ME3101		
ME3163/ EE3306	Introduction to Cyber Physical Systems	4	A/Prof Prahlad Vadakkepat A/Prof Biplab Sikdar Adjunct Prof Ho Chaw Sing Prof Senthil Kumar A				EE3306
ME3211	Mechanics of Solids	4	A/Prof Zhou Guangya A/Prof Yan Wentao		ME2112 or ME2116		
ME3243/ EE3305	Robotic System Design	4	Prof Cecilia Laschi A/Prof Prahlad V Mr Lai Yan Kai				EE3305
ME3252	Materials for Mechanical Engineering	4	A/Prof Duong Hai Minh A/Prof Thian Eng San		ME1102 or ME1103		
ME3261	Computer-Aided Design and Manufacturing	4	A/Prof Tay Eng Hock, Francis A/Prof Zhang Yunfeng			ME2162	
ME3263	Design for Manufacturing and Assembly	4	A/Prof Ong Soh Khim			ME2162 ME3162	
ME3281	Microsystems Design and Applications	4		A/Prof Zhou Guangya			
ME3291	Numerical Methods in Engineering	4		Prof Khoo Boo Cheong Dr Danielle Tan	MA1505 MA1512 MA1513		
ME4105/ OT5102	Oil and Gas Technology (Specialisation Study Course-OOGT)	4	A/Prof Loh Wai Lam				
ME4212	Aircraft Structures	4		Prof Tay Tong Earn			
ME4223	Thermal Environmental Engineering	4	A/Prof Ernest Chua K J A/Prof Md Raisul Islam		ME2121		TME4223
ME4226	Energy and Thermal Systems	4	Dr Daniel Sng		ME2121		
ME4227	Internal Combustion Engines	4		A/Prof Yang Wenming Asst Prof Zhang Huangwei			
ME4231	Aerodynamics	4		Asst Prof Zhu Lailai Asst Prof Chng Tat Loon	ME2134		
ME4233	Computational Methods in Fluid Mechanics	4	Dr Danielle Tan A/Prof Zhang Mengqi		ME2134 or ESP2106		
ME4241	Aircraft Performance, Stability and Control	4	A/Prof Gerard Leng S B				
ME4242	Soft Robotics	4	Prof Cecilia Laschi Prof Yeow Chen Hua Raye				
ME4245	Robot Mechanics and Control	4	A/Prof Ang Jr. MH		ME2142 or ME3142 or EE3331C		
ME4252	Nanomaterials for Energy Engineering	4	A/Prof Palani Balaya		Must be at least Degree level 3 or 4		
ME4253	Biomaterials Engineering	4		A/Prof Thian Eng San			

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ME4261	Tool Engineering	4		Prof Senthil Kumar A A/Prof Wang Hao			ME2162	
ME4262	Automation in Manufacturing	4		A/Prof Zhang Yunfeng			ME2162	
ME4291	Finite Element Analysis	4	A/Prof Lim Kian Meng Dr Ong Eng Teo		MA1505 or MA1512 & MA1513			
Special Term 1 Course								
ME4263	Fundamentals of Product Development	4	A/Prof Lu Wen Feng A/Prof Tay Eng Hock, Francis					

 ME Technical Electives (TEs) offered in the evening

You may find the email contact of the course lecturers from the ME website: <https://www.eng.nus.edu.sg/me/about-us/people/academic-staff/>

For non-ME courses, you may refer to NUSMods website : <https://nusmods.com/>