

Courses Offered in AY2023-2024					(Cohort AY18/19 & before)	(Cohort AY19/20 onwards)		
Course Code	Course Title	Unit	Semester 1	Semester 2	Pre-requisites		Co-requisites	Preclusions
ME Major Courses								
ME1102	Engineering Principles & Practice I	4	Dr Danielle Tan A/Prof Zhou Guangya Asst Prof Subramaniam V A/Prof Koh Yee Kan A/Prof Ernest Chua Asst Prof Wang Hao A/Prof Yang Wen Ming A/Prof Christina Lim					EG1111
ME2104	Engineering Principles & Practice II	4		A/Prof Gerard Leng S B A/Prof Lim Kian Meng Asst Prof Subramaniam V A/Prof Chew Chee Meng A/Prof Teo Chee Leong Dr Daniel Sng Dr Danielle Tan Asst Prof Sing Swee Leong				EG1112
ME2102	Engineering Innovation & Modelling	4	Dr Jason Ku Asst Prof Yu Jun Tan	Dr Jason Ku Asst Prof Yu Jun Tan				ME2101+ME2103
ME2112	Strength of Materials	4	Dr Ong Eng Teo A/Prof Vincent Tan	Dr Ong Eng Teo A/Prof Vincent Tan	EG1111	ME1102		ME2113
ME2115	Mechanics of Machines	4	Dr Ong Eng Teo Dr Shen Lei	Dr Ong Eng Teo Dr Shen Lei	PC1431, PC1431FC, PC1431X, PC1433	ME1102		ME3112
ME2121	Engineering Thermodynamics and Heat	4	Asst Prof Shin Sunmi A/Prof Md Raisul Islam	Dr Daniel Sng A/Prof Lee Poh Seng	PC1431, PC1431FC, PC1431X, PC1433	ME1102		
ME2134	Fluid Mechanics I	4	A/Prof Teo Chiang Juay Prof Shu Chang	A/Prof Teo Chiang Juay Prof Shu Chang	PC1431, PC1431FC, PC1431X, PC1433	ME1102	Nil	Nil
ME2142	Feedback Control Systems	4	A/Prof Ong Chong Jin Asst Prof Subramaniam V	A/Prof Ong Chong Jin Asst Prof Subramaniam V	MA1512 & MA1513			ME2142E, EE2010 & EE2010E
ME2162	Manufacturing Processes	4	Asst Prof Zhai Wei Asst Prof Sing Swee Leong	Asst Prof Zhai Wei Asst Prof Sing Swee Leong				ME3162
ME4101A	B.Eng. Dissertation	8	Dr Danielle Tan	Dr Danielle Tan	Stage 4 standing (112 Units)			ME4101/EG4301
ME4101B	Mechanical Systems Design	8	Prof Fuh Ying His, Jerry A/Prof Tay Eng Hock, Francis A/Prof Zhang Yunfeng	A/Prof Tay Eng Hock, Francis A/Prof Zhang Yunfeng		Stage 4 standing (112 Units)		ME3103/ME4101A
Professional Development courses for Practising Professional Pathway (PPP) applicable for cohort AY19/20 & before								
ME4102	Standards in Mechanical Engineering	4	Dr Daniel Sng A/Prof Md Raisul Islam	Dr Daniel Sng A/Prof Md Raisul Islam				
ME4103	Mechanical Engineering and Society	4	A/Prof Loh Wai Lam Dr Ong Eng Teo	A/Prof Loh Wai Lam Dr Ong Eng Teo				
ME Technical Electives Courses								
ME2114	Mechanics of Materials	4		A/Prof Vincent Tan Asst Prof Yan Wentao	ME2112			
ME2135	Intermediate Fluid Mechanics	4		Prof Khoo Boo Cheong Asst Prof Zhang Mengqi	ME2134			
ME3122	Heat Transfer	4	A/Prof Lee Poh Seng A/Prof Md Raisul Islam		PC1431, PC1431FC, PC1431X, PC1433	Nil		
ME3163/ EE3306	Introduction to Cyber Physical Systems	4	A/Prof Prahlad Vadakkepat A/Prof Biplab Sikdar Prof Ho Chaw Sing (Adj) A/Prof Senthil Kumar A					
ME3211	Mechanics of Solids	4	A/Prof Zhou Guangya Asst Prof Yan Wentao		ME2112			
ME3221	Sustainable Energy Conversion	4		A/Prof Yang Wenming A/Prof Koh Yee Kan	ME2121			
ME3241	Microprocessor Applications	4		Asst Prof Sartoretti, Guillaume A A/Prof Chui Chee Kong				
ME3242	Automation	4	Dr Zhang Hongying Prof Hong Geok Soon (Hon)					
ME3243/ EE3305	Robotic System Design (Robotics)	4	A/Prof Chew Chee Meng A/Prof Prahlad Vadakkepat Dr Andi Sudjana Putra					
ME3252	Materials Engineering Principles for Eng	4	A/Prof Duong Hai Minh A/Prof Thian Eng San					ME2151 & ME3251
ME3261	Computer-Aided Design and Manufactu	4	A/Prof Tay Eng Hock, Francis A/Prof Zhang Yunfeng				ME2162/ ME3162	
ME3263	Design for Manufacturing and Assembly	4	A/Prof Ong Soh Khim				ME2162/ ME3162	

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ME3281	Microsystems Design and Applications	4		A/Prof Zhou Guangya				
ME3291	Numerical Methods in Engineering	4		Prof Khoo Boo Cheong Asst Prof Zhu Lailai	MA1505 & MA1512 & MA1513			
ME4105/ OTS102	Oil and Gas Technology (OOGT)	4	A/Prof Loh Wai Lam					
ME4212	Aircraft Structures	4		Prof Tay Tong Earn				
ME4223	Thermal Environmental Engineering	4	A/Prof Ernest Chua Asst Prof Zhang Huangwei		ME2121			
ME4226	Energy and Thermal Systems	4	Dr Daniel Sng		ME2121			
ME4227	Internal Combustion Engines	4		Asst Prof Zhang Huang Wei A/Prof Yang Wenming				
ME4231	Aerodynamics	4		Asst Prof Zhu Lailai Dr Jonathan Tay	ME2134			
ME4232	Small Aircraft and Unmanned Aerial Veh	4		Dr Sutthiphong Srigrarom				
ME4233	Computational Methods in Fluid Mecha	4	Dr Danielle Tan Asst Prof Zhang Mengqi		ME2134			
ME4241	Aircraft Performance, Stability and Cont	4	A/Prof Gerard Leng					
ME4242	Soft Robotics	4		Prof Cecilia Laschi Prof Yeow Chen Hua Raye				
ME4245	Robot Mechanics and Control	4	A/Prof Ang Jr. MH A/Prof Chew Chee Meng		ME2142 for ME students, EE3331C for ECE students		ME2142	
ME4248	Manufacturing Simulation and Data Con	4	A/Prof Peter Chen Dr Zhang Hongying					
ME4252	Nanomaterials for Energy Engineering	4	A/Prof Palani Balaya					
ME4253	Biomaterials Engineering	4		A/Prof Thian Eng San				
ME4255	Materials Failure	4		A/Prof Duong Hai Minh A/Prof Christina Lim	ME2151	ME3252		
ME4261	Tool Engineering	4		A/Prof Senthil Kumar A Asst Prof Wang Hao			ME2162/ ME3162	
ME4262	Automation in Manufacturing	4		A/Prof Zhang Yunfeng			ME2162/ ME3162	
ME4291	Finite Element Analysis	4	A/Prof Lim Kian Meng Dr Ong Eng Teo		MA1505			
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/>