

English Courses of Engineering College for 2021 Spring Semester

No.	Department	Course Title	Required / Elective Subject	Credit	Instructor
1	Electrical Engineering	線性代數 LINEAR ALGEBRA(甲班)	Required Subject	3	Chung-Yao Kao Chia-Po Wei
2	Electrical Engineering	線性代數 LINEAR ALGEBRA(乙班)	Required Subject	3	
3	Electrical Engineering	矩陣理論及應用 MATRIX THEORY AND APPLICATIONS	Elective Subject	3	Ti-Chung Lee
4	Electrical Engineering (Master's Program)	類比濾波器理論與設計 ANALOG FILTER THEORY AND DESIGN	Elective Subject	3	Shiang-Hwua Yu
5	Electrical Engineering (Master's Program)	電磁理論 ELECTROMAGNETIC THEORY	Elective Subject	3	Chih-Wen Kuo
6	Electrical Engineering (Master's Program)	電力品質 POWER QUALITY	Elective Subject	3	Chao-Shun Chen
7	Electrical Engineering (Master's Program)	高等類比積體電路設計 ADVANCED ANALOG IC DESIGN	Elective Subject	3	Tzung-Je Lee
8	International Master's Program in Electric Power Engineering (Master's Program)	電力系統暫態及動態分析專題 INDEPENDENT STUDIES IN POWER SYSTEM TRANSIENT AND DYNAMIC ANALYSIS	Elective Subject	3	M.A.Mohammed Manaz
9	International Master's Program in Electric Power Engineering (Master's Program)	電力品質 POWER QUALITY	Elective Subject	3	Chao-Shun Chen
10	International Master's Program in Electric Power Engineering (Master's Program)	電力潮流分析 LOAD FLOW ANALYSIS	Elective Subject	3	M.A.Mohammed Manaz
11	International Master's Program in Electric Power Engineering (Master's Program)	最佳控制 OPTIMAL CONTROL	Elective Subject	3	Kin-Cheong Sou
12	Mechanical and Electro-Mechanical Engineering	應用電子學 APPLIED ELECTRONICS	Required Subject	3	Jau-Woei Perng
13	Mechanical and Electro-Mechanical Engineering	應用電子學 APPLIED ELECTRONICS	Required Subject	3	Che-Hsin Lin
14	Mechanical and Electro-Mechanical Engineering	數位電子學 DIGITAL ELECTRONICS	Elective Subject	3	Chi-Cheng Cheng

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15	Mechanical and Electro-Mechanical Engineering (Master's Program)	複合材料力學 MECHANICS OF COMPOSITE MATERIALS	Elective Subject	3	Ming-Hwa Jen
16	Mechanical and Electro-Mechanical Engineering (Master's Program)	破壞力學 FRACTURE MECHANICS	Elective Subject	3	Ming-Hwa Jen
17	Mechanical and Electro-Mechanical Engineering (Master's Program)	微電子封裝之失效模式與效應分析 FAILURE MODES AND EFFECT ANALYSIS IN MICROELECTRONIC PACKAGES	Elective Subject	3	Mei-Ling Wu
18	Mechanical and Electro-Mechanical Engineering (Master's Program)	計算結構力學 COMPUTATION STRUCTURAL MECHANICS	Elective Subject	3	H. S. Huang
19	Mechanical and Electro-Mechanical Engineering (Master's Program)	實驗應力分析 EXPERIMENTAL STRESS ANALYSIS	Elective Subject	3	H. S. Huang
20	Mechanical and Electro-Mechanical Engineering (Master's Program)	數位訊號處理 DIGITAL SIGNAL PROCESSING	Elective Subject	3	Chen-Wen Yen
21	Mechanical and Electro-Mechanical Engineering (Master's Program)	模糊邏輯與控制 FUZZY LOGIC AND CONTROL	Elective Subject	3	Chi-Cheng Cheng
22	Mechanical and Electro-Mechanical Engineering (Master's Program)	微系統封裝與可靠度分析 MICROSYSTEMS PACKAGING AND RELIABILITY ANALYSIS	Elective Subject	3	Mei-Ling Wu
23	Computer Science and Engineering	Python程式設計 PROGRAMMING IN PYTHON	Elective Subject	3	Steve W. Haga
24	Computer Science and Engineering	安全車載通訊系統 SECURE VEHICULAR COMMUNICATION SYSTEMS	Elective Subject	3	Arijit Karati
25	Computer Science and Engineering	UNIX系統程式 UNIX SYSTEM PROGRAMMING	Required Subject	3	Steve W. Haga
26	Computer Science and Engineering (Master's Program)	應用英文科技工程論文寫作 ENGLISH TECHNICAL WRITING FOR SCIENCE AND ENGINEERING JOURNALS, IN PRACTICE	Elective Subject	3	Steve W. Haga
27	Computer Science and Engineering (Master's Program)	UNIX系統程式 UNIX SYSTEM PROGRAMMING	Elective Subject	3	Steve W. Haga
28	Computer Science and Engineering (Master's Program)	無線隨意與感測網路技術 WIRELESS AD HOC AND SENSOR NETWORK TECHNOLOGY	Elective Subject	3	You-Chiun Wang

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29	Computer Science and Engineering (Master's Program)	機器學習智能晶片設計 MACHINE LEARNING INTELLIGENT CHIP DESIGN	Elective Subject	3	Kun-Chih Chen
30	Computer Science and Engineering (Master Program in Information Security)	區塊鏈安全 BLOCKCHAIN SECURITY	Elective Subject	3	Arijit Karati
31	Computer Science and Engineering (Master Program in Information Security)	應用密碼學 APPLIED CRYPTOLOGY	Elective Subject	3	Arijit Karati
32	Materials and Optoelectronic Science	高分子物理 POLYMER PHYSICS	Required Subject	3	Chen-Tsyr Lo
33	Materials and Optoelectronic Science	高分子分析 POLYMER ANALYSIS	Elective Subject	3	Ahmed Fikry Mohamed EL-Mahdy Ahmed
34	Materials and Optoelectronic Science	材料機械性質 MECHANICAL BEHAVIOR OF MATERIALS	Elective Subject	3	Kevin Chiou
35	Materials and Optoelectronic Science	材料的光電特性 ELECTRICAL AND OPTICAL PROPERTIES OF MATERIALS	Elective Subject	3	Ming-Chi Chou
36	Materials and Optoelectronic Science	專題討論 SEMINAR	Required Subject	3	Kevin Chiou
37	Materials and Optoelectronic Science	科學模擬計算導論 INTRODUCTION TO SCIENTIFIC COMPUTING WITH PYTHON	Elective Subject	3	Johann Lüder
38	Materials and Optoelectronic Science (Master's Program)	冶金熱力學 METALLURGICAL THERMODYNAMICS	Elective Subject	3	Kevin Chiou
39	Materials and Optoelectronic Science (Master's Program)	高分子物性 PHYSICAL PROPERTIES OF POLYMERS	Elective Subject	3	Chih-Kuang Chen
40	Materials and Optoelectronic Science (Master's Program)	電磁與量子物理 ELECTROMAGNETISM AND QUANTUM PHYSICS	Elective Subject		D. R. Hang
41	Materials and Optoelectronic Science (Master's Program)	小角度X光與中子散射在軟物質材料之應用 APPLICATIONS OF SMALL ANGLE X-RAY AND NEUTRON SCATTERING IN SOFT MATERIALS	Elective Subject	3	Yeo-Wan Chiang
42	Materials and Optoelectronic Science (Master's Program)	光電高分子 POLYMERS IN OPTOELECTRONIC APPLICATIONS	Elective Subject	3	Ahmed Fikry Mohamed EL-Mahdy Ahmed

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43	Materials and Optoelectronic Science (Master's Program)	物理光學 PHYSICAL OPTICS	Elective Subject	3	Ming-Chi Chou
44	Materials and Optoelectronic Science (Master's Program)	傅氏光學 FOURIER OPTICS	Elective Subject	3	Wei-Hung Su
45	Materials and Optoelectronic Science (Master's Program)	材料之模擬與計算 MATERIALS SIMULATION AND COMPUTATION	Elective Subject	3	Shi-Hsin Lin
46	Materials and Optoelectronic Science (Master's Program)	材料化學 MATERIALS CHEMISTRY	Elective Subject	3	Chih-Yen Chen
47	Materials and Optoelectronic Science (Master's Program)	進階材料模擬設計 ADVANCED AB INITIO MATERIALS DESIGN	Elective Subject	3	Johann Lüder
48	Photonics	電子學(二) ELECTRONICS(II)	Required Subject	3	Hyeonseok Lee
49	Photonics	電子學實驗(二) ELECTRONICS LABORATORY(II)	Required Subject	3	Hyeonseok Lee
50	Photonics	光電材料概論 "INTRODUCTION TO OPTOELECTRONIC MATERIALS "	Elective Subject	3	Wei-Chun Lin
51	Photonics	量子力學導論 INTRODUCTION TO QUANTUM MECHANICS	Elective Subject	3	Hung-Wen Chang
52	Photonics (Master's Program)	光電材料 OPTOELECTRIC MATERIALS	Elective Subject	3	Yu-Ju Hung
53	Photonics (Master's Program)	半導體光電元件 SEMICONDUCTOR OPTOELECTRONIC DEVICES	Elective Subject	3	Yi-Jen Chiu
54	Photonics (Master's Program)	現代通訊原理 PRINCIPLES OF MODERN COMMUNICATION	Elective Subject	3	Chia-Chien Wei
55	Photonics (Master's Program)	光能源轉換半導體材料專題 SPECIAL TOPICS ON SEMICONDUCTOR MATERIALS FOR LIGHT ENERGY CONVERSION	Elective Subject	3	Hyeonseok Lee
56	Photonics (Master's Program)	液晶顯示技術 LIQUID CRYSTAL DISPLAY TECHNOLOGIES	Elective Subject	3	Chun-Ta Wang

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57	Inst. of Environmental Engineering (Master's Program)	異味及揮發性有機物控制技術 TECHNOLOGIES FOR THE CONTROL OF ODORS AND VOLATILE ORGANIC COMPOUNDS	Elective Subject	3	Ken-Lin Chang
58	Inst. of Environmental Engineering (Master's Program)	儀器分析 PRINCIPLE OF INSTRUMENT ANALYSIS	Elective Subject	3	Po-Jung Huang
59	Inst. of Environmental Engineering (Master's Program)	噪音工程學 NOISE ENGINEERING	Elective Subject	3	Yen-Ping Peng
60	Inst. of Communications Engineering (Master's Program)	數位通訊 DIGITAL COMMUNICATIONS	Elective Subject	3	Keshav Singh
61	Inst. of Communications Engineering (Master's Program)	統計通信理論 STATISTICAL COMMUNICATION THEORY	Elective Subject	3	Wan-Jen Huang
62	Inst. of Communications Engineering (Master's Program)	隨機過程 RANDOM PROCESSES	Elective Subject	3	Tsang-Yi Wang
63	Inst. of Communications Engineering (Master's Program)	數位通訊 DIGITAL COMMUNICATIONS	Elective Subject	3	Keshav Singh
64	Inst. of Communications Engineering (Master's Program)	下世代無線網路之全雙工通訊 FULL-DUPLEX COMMUNICATIONS FOR FUTURE WIRELESS NETWORKS	Elective Subject	3	Keshav Singh
65	Inst. of Communications Engineering (Master's Program)	移動裝置之三維積體電路的整合技術與設計 3D IC INTEGRATION TECHNOLOGY AND DESIGN FOR MOBILE DEVICES	Elective Subject	3	Lih-Tyng Hwang
66	Inst. of Communications Engineering (Master's Program)	無線傳收設計專題 INDEPENDENT STUDIES IN TRANSCIVER DESIGN IN WIRELESS NETWORKS	Elective Subject	3	Keshav Singh
67	International Master's Program in Telecommunication Engineering (Master's Program)	數位通訊 DIGITAL COMMUNICATIONS	Elective Subject	3	Keshav Singh
68	International Master's Program in Telecommunication Engineering (Master's Program)	移動裝置之三維積體電路的整合技術與設計 3D IC INTEGRATION TECHNOLOGY AND DESIGN FOR MOBILE DEVICES	Elective Subject	3	Lih-Tyng Hwang
69	International Master's Program in Telecommunication Engineering (Master's Program)	統計通信理論 STATISTICAL COMMUNICATION THEORY	Elective Subject	3	Wan-Jen Huang
70	International Master's Program in Telecommunication Engineering (Master's Program)	下世代無線網路之全雙工通訊 FULL-DUPLEX COMMUNICATIONS FOR FUTURE WIRELESS NETWORKS	Elective Subject	3	Keshav Singh