

2022 Fall Semester					
	Centers and Institutes				
General Education Center					
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)		
GS3081	Global Cities and Social Spaces	2	U		
GS3084	Smart Cities and Urban Traffic	2	U		
GS4451	An Introduction to Modern Astronomy	2	U		
	International Ph.D. Program in Environmental Science and T	Technolog	gy (UST-EST)		
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)		
ET7001	Seminar	1	G G		
	Seminar	1	G		
	Special Topics on Environmental Monitoring and Analysis	3	G		
E17000	Language Center	<u> </u>	0		
	Language Center		Undergraduate Course(U)		
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)		
RS7009	Detection and Estimation	3	G		
RS7011	Antenna and Wave Propagation	3	G		
RS7078	Spatial Data Analysis and Applications	3	G		
RS7119	Cloud-based Geographic Information System	3	G		
RS9998	Research Training	0	G		
LN1001	Freshman English as an Introduction to Engineering	3	U		
LN1001	Freshman English as an Introduction to Engineering	3	U		
LN1001	Freshman English as an Introduction to Engineering	3	U		
LN1001	Freshman English as an Introduction to Engineering	3	U		
LN1001	Freshman English as an Introduction to Engineering	3	U		
LN1003	Freshman English as an Introduction to Science	3	U		
LN1003	Freshman English as an Introduction to Science	3	U		
LN1003	Freshman English as an Introduction to Science	3	U		
LN1005	Freshman English as an Introduction to Management	3	U		
LN1005	Freshman English as an Introduction to Management	3	U		
LN1005	Freshman English as an Introduction to Management	3	U		
LN1007	Freshman English as an Introduction to Humanities and Social Sciences	3	U		
LN1034	English Grammar and Writing	3	U		
LN2010	Life issues from English movies	3	U		
LN2012	Business English	3	U		
LN2902	Intermediate English Listening	2	U		
	English Reading and Reading-Aloud	2	U		
	Oral Training II	2	U		
-	English for Life	2	U		
	English speech and presentation for technology	2	U		
-	English speech and presentation for technology	2	U		
	Workplace English	2	U		



Language CenterCourseCourse NameCreditLN2918Advanced English Communication2LN2919Oral English Communication2LN2923Selected Reading on English Magazines2LN2924To All All Training2	Undergraduate Course(U) or Graduate Course(G) U U U U U
LN2918Advanced English Communication2LN2919Oral English Communication2LN2923Selected Reading on English Magazines2	or Graduate Course(G) U U U
LN2919Oral English Communication2LN2923Selected Reading on English Magazines2	U U
LN2923 Selected Reading on English Magazines 2	U
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1312000 F 1:1 F :	U
LN3009 English Topics 2	
Master of Science Program in Remote Sensing Science and Tec	hnology
Course Name Credit	Undergraduate Course(U) or Graduate Course(G)
RS5012 Satellite Geodesy and Navigation 3	G
RS5024 Machine Learning & Active Image Processing 3	G
RS5035 Descriptive Oceanography 3	G
RS5037 Remote Sensing and Image Interpretation 3	G
RS5044 Digital Image and Social Change 3	G
RS5096 Statistics 3	G
RS6001 Seminar 1	G
RS6003 Seminar 1	G
RS6053 Principle of Space Remote Sensing 3	G
RS6081 Digital Image Processing for Remote Sensing I 3	G
RS7012 Digital Signal Processing 3	G
RS7032 Geological Remote Sensing 3	G
RS7035 Ocean Remote Sensing 3	G
RS7036 Aerosol Remote Sensing 3	G
RS7065 Geographic Information Systems 3	G
RS7076 Digital Photogrammetry 3	G



College of Earth Sciences				
	Department of Atmospheric Physics			
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
AP6060	Radar Meteorology	3	G	
AP6063	Introduction to Physical Oceanography	3	G	
AP6067	Advanced Applied Mathematics I	3	G	
AP8003	Seminar	1	G	
AP8007	Seminar II	1	G	
AP8080	Special Topics on Planetary Boundary Lay	3	G	
AP8125	Critical Analysis of Atmospheric Environmental Research	2	G	
AP8127	Special Topics on Microwave Remote Sensing of the Atmosphere II	3	G	
	Department of Geophysics			
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
GP3031	Neotectonics	2	U	
GP4087	Special Topics in Earth Science (I)	1	U	
GP4087	Special Topics in Earth Science (I)	1	U	
GP4087	Special Topics in Earth Science (I)	1	U	
GP5049	English Thesis Writing	2	G	
GP5051	Volcanology	2	G	
GP5068	Geomorphology	2	G	
GP5091	Introduction to mountain building processes	2	G	
GP5097	Advanced Observatory Seismology	2	G	
GP6036	Seismic Data Processing	2	G	
GP6057	Basin Analysis	2	G	
GP6095	Seminar II (Geology)	1	G	
GP6097	Seminar II (Geophysics)	1	G	
GP7032	Theoretical geophysics	3	G	
GP7039	Advanced Geoelectric Prospecting (I)	2	G	
GP8001	Seminar III	1	G	
GP8045	Seminar IV (Geology)	1	G	
GP8047	Seminar IV (Geophysics)	1	G	
	Department of Space Science and Engine	ering		
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
SS6018	Advanced Ionospheric Physics II	3	G	
SS6052	Heliospheric Physics II	3	G	
SS6053	Principle of Space Remote Sensing	3	G	
SS8001	Seminar I	1	G	



International Ph.D. Graduate Program for Earth System Science			
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
ES7001	Introductory Earth System Science	3	G
ES7011	Marine Biogeochemistry	3	G
ES7029	Seminar III	1	G
ES7061	Isotope geochemistry	2	G
ES7071	Seismic Hazard Assessment	2	G
ES7079	The Solid Earth	3	G
ES7081	Global Hydrological Cycles	3	G
ES7085	Scientific Programming	3	G
ES7087	Introduction to Volcanic Processes	2	G
ES7089	Observation and Modeling of Cloud Physics	3	G
-	Exploration Seismology using Active and Passive Sources	3	G
-	Paleolimnology	2	G
	MSc in Applied Geology		
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
AG7001	Advanced Field Geology I	3	G
AG7002	Mathematics in Applied Geology	2	G
	Seminar of Geotechnical Engineering I	1	G
	Seminar of Geotechnical Engineering III	1	G
	Rock Mechanics	3	G
AG7058	Seminar of Numerical Groundwater Models I	1	G
AG7060	Seminar of Numerical Groundwater Models III	1	G
AG7064	Groundwater Hydrology	3	G
	Seminar of Geomechanics I	1	G
	Seminar of Geomechanics III	1	G
	Seminar of Groundwater Contaminant Transport I	1	G
	Seminar of Groundwater Contaminant Transport III	1	G
	Advanced Physical Geology	2	G
	Fundamentals of Mathematics and Computer	2	G
	Seminar of Geohydraulics I	1	G
	Seminar of Geohydraulics III	1	G
	Seminar of Active Tectonics I	1	G
	Seminar of Active Tectonics III	1	G
	Quaternary Geology and the Critical Zone	2	G
	Seminar of Geo Energy I	1	G
	Geo Energy	3	G
713/11/	MSc in Hydrological and Oceanic Scien	1	<u> </u>
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
HS6028	Atmospheric and Oceanic Processes	3	G
	Special Topic on Coastal Environments	3	G
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	MSc in Hydrological and Oceanic Science					
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)			
HS6087	Special topics on environmental turbulence	3	G			
HS6091	Scientific Computing	3	G			
HS6092	Computational Fluid Dynamics	3	G			
HS6114	Regional oceanography in Taiwan waters	3	G			
HS6151	Hydrological analysis	3	G			



	College of Electrical Engineering and Computer S	Science	
Department of Communication Engineering			
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
CO6021	Digital Signal Processing	3	G
CO6023	Coding Theory	3	G
CO6055	Distributed Networks	3	G
	Department of Computer Science and Electrical En	gineer	ing
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
CE2012	Assembly Language and System Programming	3	U
CE2013	Introduction to Computer Science and Information Engineering	3	U
CE3060	Introduction to Computer Vision and Its Applications	3	U
CE6102	Machine Learning	3	G
CE6143	Introduction to Data Science	3	G
CE6145	Programming Language Design	3	G
	Introduction to Deep Learning	3	G
CE6154	System Component Design for Emerging Memory and Storage Technologies	3	G
CE7024	Natural Language Processing	3	G
CE8007	3D Computer Graphics	3	G
	Department of Electrical Engineering		
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
EE2016	Introduction to Digital Systems	3	U
-	Electronical Circuits Laboratory III	1	U
EE3047	Electronical Circuits Laboratory III	1	U
EE5011	DSP VLSI Architecture Design	3	G
EE6013	VLSI Design	3	G
	Compound Semiconductors	3	G
	Biomedical Systems Modeling	3	G
	Biomedical Statistics	3	G
EE8053	Microwave and Millimeter-wave Frequency Synthesizers	3	G
	Power System Fault Analysis	3	G
	Memory Circuit Design	3	G
-	Signal Processing of Power Quality Disturbances	3	G
	Power Semiconductor Devices	3	G
	Advanced Nanoelectronic Devices	3	G
	Graduate Institute of Network Learning Techno		-
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
NL6032	Advanced Seminar in Learning Theories	3	G



	Graduate Institute of Network Learning Technology				
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)		
NL6048	High Interaction in Multimedia	3	G		
NL7030	Quantitative Research Methods in e-Learning	3	G		
NL7045	Educational Data Mining Using Python	3	G		
NL7051	Development of Online Learning Content	3	G		
NL7052	Qualitative Research of Digital Learning	3	G		



College of Engineering					
	College of Engineering				
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)		
EG1001	Programming for Engineering	3	U		
	Department of Civil Engineering				
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)		
CI2011	Fluid Mechanics	3	U U		
	Introduction to Geoinformatics	3	U		
	Reinforced Concrete	3	U		
	Satellite Geodesy and Navigation	3	G		
CI5016		3	G		
CI5017	Geotechnical reliability and risk assessment	3	G		
	Internet of Things and Smart Structural Health Monitoring	3	G		
CI5025	Structural Control	3	G		
	Basics of Satellite Remote Sensing	3	G		
CI6018	Structural Dynamics	3	G		
CI6026	Experimental Soil Mechanics	3	G		
	Plasticity	3	G		
-	Finite Element	3	G		
CI6065	Asphalt Concrete Mix Design Instrumentation for Material Research	3	G		
CI7006			G		
	Computational Hydraulic	3	G		
	Stress Wave Propagation Theory	3	G		
CI7025		3	G		
	Remote Sensing Image Processing and Analysis	3	G		
CI7065	Geographical Information Systems	3	G		
CI7076	Digital Photogrammetry	3	G		
CI7105	Earthquake Disaster Reduction	2	G		
CI7121	Special Topics in Geoinformatics Sciences I	4	G		
CI8016	Geotechnical Seminar	1	G		
CI8029	Geoinformatics Seminar II	1	G		
CI8031	Geoinformatics Seminar	1	G		
CI8032	Geoinformatics Seminar	1	G		
CI8035	Building Information Modeling: Theory and Applications	3	G		
	Department of Chemical Engineerin	g			
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)		
-	Organic Chemistry I	3	U		
	Materials Chemistry	3	U		
CH2033	Chemical Engineering Outline	3	U		
CH6007	Advanced Transport Phenomena	3	G		



2022 Fall Selliester				
Department of Chemical Engineering				
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
CH7007	Materials Physics	3	G	
CH8055	Molecular Modeling	3	G	
CH8076	Applied Electrochemistry	3	G	
CH8081	Biomacromolecules	3	G	
CH8097	Bio-inspired Materials	3	G	
CH8111	Organometallic Chemistry and Applications in Organic Synthesis	3	G	
	Department of Mechanical Engineeri	ng		
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
MF2001	Engineering Mathematics I	3	U U	
	Thermodynamics I	3	U	
	Computer-aided Graphics	3	U	
	Intermediate Mechanics of Materials	3	U	
-	Automatic Control I	3	U	
	Advanced Applied Mathematics	3	G	
	Reverse Engineering	3	G	
	Two-phase Heat Transfer	3	G	
ME5096		3	G	
	Numerical Analysis	3	G	
ME6061		3	G	
	English Seminar	0	G	
	Theory of Gearing	3	G	
	Vibration Analysis	3	G	
	Linear Systems	3	G	
	Digital Control System	3	G	
	Institute of Materials Science & Engineer			
G			Undergraduate Course(U)	
Course	Course Name	Credit	or Graduate Course(G)	
MS5019	Processing and Characterization of Nanomaterials	3	G	
MS5037	Materials Physics of Solid	3	G	
MS5045	Electrochemistry of Materials	3	G	
	MSc in Energy Engineering			
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
ER5050	Research Project on Energy Technology I	3	G	
ER6003	Heat Exchangers	3	G	
ER6009	Advanced and Statistical Thermodynamics	3	G	
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	MSc in Environmental Engineering					
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)			
EN6041	Chemical Processes of Environmental Engineering	3	G			
EN6047	Physical Processes of Environmental Engineering	3	G			
EN6070	Special Topics in Water Treatment	3	G			
EN6310	Waste Treatment and Recycling Engineering	3	G			
EN6316	Applied Environmental Microbiology	3	G			



College of Health Science and Technology				
Department of Life Science				
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
LS3037	Neurological diseases	3	U	
LS5029	Topic Seminar III	0	G	
LS5033	Neurobiology	2	G	
LS5039	Molecular Cell Biology	3	G	
LS5055	Advanced Evolutionary Biology	3	G	
LS5078	Fly genetics and disease model	3	G	
LS5080	Genomics and Applications	3	G	
LS6005	Seminar I	1	G	
LS6005	Seminar I	1	G	
LS6017	Seminar III	1	G	
LS6051	Special Topics in Gene Cloning	3	G	
LS6054	Plasmid	3	G	
LS6081	Special Topics in Plant Gene Transformation	3	G	
LS6091	Special Topics in Gene Regulation in Yeast	3	G	
LS6104	Special topic: Free radical biology and medicine	3	G	
LS6107	Special Topic: Genetic Basis of Phenotypic Evolution	3	G	
LS6113	Special Topic in Tumorigenesis of Neuroblastoma	3	G	
LS6117	Special Topics: Neurobiology of social behavior	3	G	
LS6119	Special Topics: New Advances in Exosome Research	3	G	
LS7001	Seminar I	2	G	
LS7001	Seminar I	2	G	
LS7003	Seminar III	2	G	
	Graduate Institute of Cognitive Neurosci	ience		
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
NS5001	Cognitive Psychology	3	G	
NS5011	Special Topics I	0	G	
	Advanced Seminar I	0	G	
NS5023	Advanced Statistics in Psychology	3	G	
	Independent Study: An Introduction to Non-invasive Brain Stimulation Techniques	3	G	
NS5007	Independent Study: Modeling of Brain Dynamics during Cognitive Processes	3	G	
NS5131	Pupillometry: A window on mind and brain	3	G	
	Independent Study: The psychology of attention	3	G	
NS6001	Special Topics I	1	G	
NS6003	Special Topics I	1	G	



2022 Fall Semester			
	International Ph.D. Program in Interdisciplinary	Neuros	science
Course	Course Name	Credit	Undergraduate Course(U)
			or Graduate Course(G)
	Introduction to Neuroscience	3	G
	Interdisciplinary Lecture I	1	G
	Neuroscience Seminar I	1	G
NI5007	Electrophysiology Technique	3	G
NI5011	Neuroscience Seminar	1	G
	Department of Biomedical Sciences and Eng	gineerin	g
	Department of Biomedical Sciences and Eng	gineerin	g
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
BM3014	Special topic on Biomedical Engineering and Scientific Modeling	2	U
	Master Program in Biomedical Enginee	ring	
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
BE5001	Seminar I	0	G
BE5018	Systems Neuroscience	3	G
BE5019	Biomedical Signal Processing	3	G
BE5020	Drug Delivery Systems	3	G
BE5046	Bionanophotonics	3	G
BE5050	Introduction to Nanomaterials & Device Technology	3	G
	Department of Biomedical Sciences and Eng	gineerin	g
	Master Program in Systems Biology and Bioin	ıformat	tics
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
	Computation Biology and Bioinformatics	3	G
SB6004	Seminar I	2	G
SB6008	An Introduction to Bioinformatics Algorithms	3	G
	Biological Databases	3	G
	Application of R in Systems Biology	3	G
	Special Topic: Molecular Diagnosis and Drug Development I	2	G
SB7076	Introduction to Biomedical Pharmacology	3	G
SB7079	Deep reinforcement learning	3	G
SB7080	Molecular Regulation of Chronic Diseases	3	G
	Interdisciplinary Translational Medicine Doctor	ate Pro	
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
TM7041	Mathematics for machine learning	3	G
Undate:			



	2022 Fall Semester		
	College of Liberal Arts		
	Department of Chinese Literature		
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
CL6108	Chinese Drama and Theatre	3	G
	Department of English		
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
EL1060	Writing through Media	3	U
EL1060	Writing through Media	3	U
EL1061	Phonetics and Pronunciation	3	U
EL1066	Emotional Literacy and Popular Culture	3	U
EL1067	Reconsidering Fiction, History & Philosophy	3	U
EL2005	Intro. to Linguistics	3	U
EL2059	English Literature: Survey I	3	U
EL2062	American Literature: Survey II	3	U
EL2075	Expository Writing	3	U
EL2075	Expository Writing	3	U
EL2076	Presentation & Communication I	3	U
EL2076	Presentation & Communication I	3	U
EL3055	Sociolinguistics	3	U
EL3060	Science Fiction	3	U
EL3096	Professional Communication	3	U
EL4055	Research Paper Writing	3	U
EL5001	Survey of Literary/Cultural Theories	3	G
EL6083	Seminar on Feminisms A	3	G
EL6107	British Colonial Modernity	3	G
International Master's Program in Inter-Asia Cultural Studies			
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
IS5001	Introduction to Inter-Asia Cultural Studies	3	G
Master of Philosophy			
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
PD6685	Topics in Western Philosophy I	3	G
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College of Management			
College of Management			
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
MT2041	Statistics	3	U
MT4002	Workplace English for SOM Graduates	0	U
	Department of Business Administration	on	
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
BA2000	Financial Management	3	U
BA6030	Production & Operations Management	3	G
BA7032	Flexible Manufacturing Systems	3	G
BA8001	Research Methodology I	3	G
BA8009	Ph.D. Seminar	1	G
BA8012	Ph.D. Seminar	1	G
BA8050	Seminar on Marketing Management	3	G
	Department of Economics		
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
EC2003	Microeconomics	3	U
EC3007	Mathematical Economics	3	U
EC3047	Theory and Application of Information Economics I	3	U
EC3053	Business Communication in English	2	U
EC5001	Microeconomic Theory	3	G
EC5003	Macroeconomic Theory	3	G
EC7026	Econometric Methods and Applications	3	G
	Department of Finance		
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
FM2031	Financial Management	3	U
FM3036	Financial Institutions and Markets	3	U
FM4042	Business Communication in English	2	U
FM6056	Financial Management	3	G
FM6062	Real Estate Investments	3	G
FM6090	Advanced Topic in Fixed-Income Securities	3	G
FM6101	Empirical Analysis of Financial Market	3	G
FM6113	Corporate Social Responsibility	3	G
FM8001	Financial Theory I	3	G
FM8005	Seminar on Finance Theory and Applications I	1	G
FM8007	Seminar on Finance Theory and Applications III	1	G
FM8009	Advanced Quantitative Methods I	3	G
FM8011	Topics in Corporate Finance	3	G
FM8013	Seminar on Finance Theory and Applications V	1	G
FM8018	Seminar on Finance Theory and Applications VII	1	G



Course Course Name  IM2044 Introduction to Data Science IM5019 Managerial Communications IM5019 Managerial Communications IM5025 Business Data Protection  Master of Human Resource Managem  Course Course Name  HR4001 Business Communication in English HR6002 Human Resource Management HR6045 Performance Management HR6087 Experiential Learning in Negotiations HR6094 Cross-Cultural Management	Credit  3 2 2 3	Undergraduate Course(U) or Graduate Course(G) U G G G U Undergraduate Course(U)	
IM2044 Introduction to Data Science IM5019 Managerial Communications IM5019 Managerial Communications IM5025 Business Data Protection  Master of Human Resource Managem  Course Course Name  HR4001 Business Communication in English HR6002 Human Resource Management HR6045 Performance Management HR6087 Experiential Learning in Negotiations	3 2 2 3 3 ment Credit	or Graduate Course(G)  U  G  G	
IM5019 Managerial Communications IM5019 Managerial Communications IM5025 Business Data Protection  Master of Human Resource Managem  Course Course Name  HR4001 Business Communication in English HR6002 Human Resource Management HR6045 Performance Management HR6087 Experiential Learning in Negotiations	2 2 3 ment Credit	G G G	
IM5019 Managerial Communications IM5025 Business Data Protection  Master of Human Resource Managem  Course Course Name  HR4001 Business Communication in English  HR6002 Human Resource Management  HR6045 Performance Management  HR6087 Experiential Learning in Negotiations	2 3 ent Credit	G G	
IM5025 Business Data Protection  Master of Human Resource Managem  Course Course Name  HR4001 Business Communication in English  HR6002 Human Resource Management  HR6045 Performance Management  HR6087 Experiential Learning in Negotiations	3 cent Credit	G	
Course Course Name  HR4001 Business Communication in English HR6002 Human Resource Management HR6045 Performance Management HR6087 Experiential Learning in Negotiations	Credit		
Course Course Name  HR4001 Business Communication in English  HR6002 Human Resource Management  HR6045 Performance Management  HR6087 Experiential Learning in Negotiations	Credit	Undergraduate Course(U)	
HR4001 Business Communication in English HR6002 Human Resource Management HR6045 Performance Management HR6087 Experiential Learning in Negotiations		Undergraduate Course(U)	
HR6002 Human Resource Management HR6045 Performance Management HR6087 Experiential Learning in Negotiations	0	or Graduate Course(G)	
HR6045 Performance Management HR6087 Experiential Learning in Negotiations	U	U	
HR6087 Experiential Learning in Negotiations	3	G	
	3	G	
HR6094 Cross-Cultural Management	3	G	
	3	G	
Master of Industrial Economics			
Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
IE5032 Introduction to Anglo-American Law	3	G	
IE6001 Industrial Economics I	3	G	
IE6005 Quantitative Methods I	3	G	
IE8005 Advanced Quantitative Methods	3	G	
Master of Industrial Management			
Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
IA5001 Operations Research I	3	G	
IA5011 Operations Management	3	G	
IA5041 Business Process Management	3	G	
IA5051 Planning and Scheduling	3	G	
IA7027 Operations Research I Lab	0	G	
IA7034 Material Handling and Distribution	3	G	
IA7044 Renewable Energy & Sustainable Development	3	G	
IA7045 Statistical Methodology	3	G	
MSc of Accounting			
Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
AC6026 Seminar on Information Management	3	G	



	2022 Fall Semester			
	College of Science			
Department of Chemistry				
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
CM6054	Computational Chemistry	3	G	
CM6057	Coordination chemistry	3	G	
CM6063	Solid state Chemistry	3	G	
CM6072	Principle and Use of Powder XRD in Chemistry	3	G	
CM6090	Drug Design	2	G	
CM7001	Seminar	2	G	
	Department of Mathematics			
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
	Differential Equations I	3	G	
MA8019	Numerical Analysis I	3	G	
	Department of Physics			
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
PH2029	Experimental Physics and Method II	6	U	
PH3029	Mathematical Method in Physics I	3	U	
PH6003	Quantum Mechanics I	3	G	
PH6005	Classical Electrodynamics I	3	G	
PH6007	Classical Mechanics I	3	G	
PH6029	Quantum Field Theory I	3	G	
PH6033	Solid State Physics I	3	G	
PH6059	Biophysics	3	G	
PH7046	Modern Cosmology	3	G	
PH7066	Experimental Condensed Matter Physics	3	G	
PHT003	Quantum Mechanics (I)	3	G	
PHT009	Solid State Physics (I)	3	G	
PHT015	Advanced Physical Chemistry (I)	3	G	
PHT030	Fundamentals and Application of Synchrotron Radiation and Neutron Scattering	2	G	
PHT031	Colloquium I	0	G	
PHT032	Colloquium II	0	G	
PHT033	Quantum Optics	3	G	
PHT035	Advanced Inorganic Chemistry	3	G	
PHT048	Modern Experimental Techniques-Physics	2	G	
PHT051	Irreversible Thermodynamics and its Application in spin caloritronic	3	G	
PHT065	Introduction to Nanotechnology- Physics	3	G	
PHT066	Introduction to Nanotechnology- Chemistry	3	G	
PHT071	Special Studies on Topics about Molecular Science and Technology I	0	G	



	2022 Fall Semester			
	Department of Physics			
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
PHT073	Seminar Presentation on Topics about Molecular Science and Technology I	2	G	
PHT074	Seminar Presentation on Topics about Molecular Science and Technology II	2	G	
PHT075	Seminar Presentation on Topics about Molecular Science and Technology III	2	G	
	Department of Optics & Photonics			
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
OS6003	Fourier Optics	3	G	
OS6015	Geometrical Optics	3	G	
OS7097	Guided Wave Optics	3	G	
OS7188	Optical System Design and Simulation I	3	G	
OS7203	Modern Optical Engineering	3	G	
MSc in Astronomy				
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
AS6001	Seminar I	1	G	
AS6047	Observational Astronomy	3	G	
AS6059	Star Clusters and Stellar Population	3	G	
AS6070	Solar System Astrophysics	3	G	
AS6074	Stellar Atmosphere and Structure	3	G	
AS6075	Astrophysics of Galaxies	3	G	
AS6095	Astroinformatics	3	G	
AS8008	Theoretical Astrophysics	3	G	
AS8010	Frontiers in Astronomy I	1	G	
MSc in Statistics				
Course	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)	
ST6038	Mathematical Statistics	4	G	
ST7021	Spatial Statistics (I)	3	G	
ST8003	Advanced Probability I	3	G	
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