



MALAYAN COLLEGES LAGUNA

A YGC Member

BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING (B.S ECE)

(Curriculum applicable to students who entered as freshmen beginning school year 2013-2014)

Year 1	Term 1	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisit	Servicing College
1	1	DRAW021W	ENGINEERING DRAWING 1 (DRAW)	-	3.0	1.0			CAS
1	1	ENG021	ENGLISH FOR ACADEMIC STUDIES 1	4.5	-	3.0			CAS
1	1	FIL001	KOMUNIKASYON SA AKADEMIKONG FILIPINO	4.5	-	3.0			CAS
1	1	CHM021	GENERAL CHEMISTRY 1	3.0	-	2.0			CAS
1	1	CHM021L	GENERAL CHEMISTRY 1 (LAB)	-	3.0	1.0		CHM02	CAS
1	1	MATH011	ALGEBRA	4.5	-	3.0			CAS
1	1	PE021	PHYSICAL EDUCATION 1: PHYSICAL FITNESS AND GYMNASTICS	-	2.5	(1.5)			CAS
1	1	VE011	VALUES EDUCATION 1	1.5	-	(1.0)			CAS
Total				18.0	8.5	13.0			

Year 1	Term 2	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
1	2	DRAW022W	ENGINEERING DRAWING 2 (DRAW)	-	3.0	1.0	DRAW021W		CAS
1	2	FIL002	PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK	4.5	-	3.0	FIL001		CAS
1	2	CHM022	GENERAL CHEMISTRY 2	3.0	-	2.0	CHM021		CAS
1	2	CHM022L	GENERAL CHEMISTRY 2 (LAB)	-	3.0	1.0	CHM021, CHM021L	CHM02 2	CAS
1	2	ENG022	ENGLISH FOR ACADEMIC STUDIES 2	4.5	-	3.0	ENG021		CAS
1	2	MATH011-2	ADVANCED ALGEBRA	3.0	-	2.0	MATH011		CAS
1	2	MATH012	PLANE AND SPHERICAL TRIGONOMETRY	4.5	-	3.0	MATH011		CAS
1	2	PE022	PHYSICAL EDUCATION 2: DANCE AND MARTIAL ARTS	-	2.5	(1.5)			CAS
1	2	VE012	VALUES EDUCATION 2	1.5	-	(1.0)	VE011		CAS

Year 1	Term 3	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
1	3	DRAW023L	COMPUTER-AIDED DRAFTING & DESIGN (LAB)	-	3.0	1.0	DRAW022W		CAS
1	3	CHM023	GENERAL CHEMISTRY 3	3.0	-	2.0	CHM022		CAS
1	3	CHM023L	GENERAL CHEMISTRY 3 (LAB)	-	3.0	1.0	CHM022, CHM022L	CHM02 3	CAS
1	3	ENG023	ENGLISH FOR ACADEMIC STUDIES 3	4.5	-	3.0	ENG022		CAS
1	3	MATH013	ANALYTIC GEOMETRY	4.5	-	3.0	MATH012		CAS
1	3	MATH014	SOLID MENSURATION	3.0	-	2.0	MATH012		CAS
1	3	MATH021	CALCULUS 1	4.5	-	3.0	MATH012	MATH0	CAS
1	3	PE023	PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS	-	2.5	(1.5)			CAS
Total				19.5	8.5	15.0			

Year 2	Term 1	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
2	1	CWTS011	OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM	-	3.0	(2.0)			CSRO
2	1	CS001P	COMPUTER FUNDAMENTALS & PROGRAMMING 1 (PAIRED)	1.5	3.0	2.0			CIT
2	1	HUM011	LOGIC REASONING WITH CRITICAL THINKING	4.5	-	3.0			CAS
2	1	MATH022	CALCULUS 2	4.5	-	3.0	MATH013, MATH021		CAS
2	1	PE024	PHYSICAL EDUCATION 4: ADVANCED INDIVIDUAL/DUAL SPORTS	-	2.5	(1.5)	PE023		CAS
2	1	PHY021	PHYSICS 1	4.5	-	3.0	MATH021		CAS
2	1	PHY021L	PHYSICS 1 (LAB)	-	3.0	1.0	MATH021	PHY021	CAS
2	1	SS017	SOCIETY, CULTURE AND FAMILY LIFE	4.5	-	3.0			CAS
Total				19.5	11.5	15.0			

Year 2	Term 2	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
2	2	CWTS012	CIVIC WELFARE TRAINING COURSE - 1	-	3.0	(2.0)	CWTS011		CSRO
2	2	CS002P	COMPUTER FUNDAMENTALS & PROGRAMMING 2 (PAIRED)	1.5	3.0	2.0	CS001P		CIT
2	2	HUM016	ADVANCED LOGIC AND REASONING	4.5	-	3.0	HUM011		CAS
2	2	SS016	PHILIPPINE HISTORY	4.5	-	3.0			CAS
2	2	MATH023	CALCULUS 3	4.5	-	3.0	MATH022		CAS
2	2	PE025	PHYSICAL EDUCATION 5: TEAM SPORTS	-	2.5	(1.5)			CAS
2	2	PHY022	PHYSICS 2	4.5	-	3.0	MATH022, PHY021,		CAS
2	2	PHY022L	PHYSICS 2 (LAB)	-	3.0	1.0	MATH022, PHY021, PHY021L	PHY022	CAS
Total				19.5	11.5	15.0			

Year 2	Term 3	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
2	3	CWTS013	CIVIC WELFARE TRAINING COURSE - 2	-	3.0	(2.0)	CWTS012		CSRO
2	3	ECE120L	INTRODUCTION TO MATLAB (LAB)	-	3.0	1.0	2nd Year Standing		MITL
2	3	MATH025	DIFFERENTIAL EQUATIONS	4.5	-	3.0	MATH023		CAS
2	3	PE026	PHYSICAL EDUCATION 6: ADVANCED TEAM SPORTS	-	2.5	(1.5)	PE025		CAS
2	3	PHY023	PHYSICS 3	4.5	-	3.0	PHY022,		CAS
2	3	SS015	POLITICS, GOVERNANCE AND THE 1987 PHILIPPINE CONSTITUTION	4.5	-	3.0			CAS
2	3	SS013	ECONOMICS, TAXATION AND AGRARIAN REFORM	4.5	-	3.0			CAS
2	3	PHY023L	PHYSICS 3 (LAB)	-	3.0	1.0	PHY022, PHY022L	PHY023	CAS
Total				18.0	11.5	14.0			

Year 2	Term 4	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
2	4	MEC101	STATICS OF RIGID BODIES	4.5	-	3.0	MATH022, PHY022		CAS
2	4	HUM014	PHILIPPINE LITERATURE IN ENGLISH	4.5	-	3.0			CAS
Total				9.0	0.0	6.0			
				9.0					

Year 3	Term 1	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
3	1	ECE113	ELECTROMAGNETICS 1	4.5	-	3.0	MATH022		MITL
3	1	EE101	CIRCUITS 1	4.5	-	3.0	MATH025, PHY023		MITL
3	1	EE101L	CIRCUITS 1 (LAB)	-	4.5	1.0	MATH025,, PHY023, PHY023L	EE101	MITL
3	1	MATH110	PROBABILITY AND STATISTICS	4.5	-	3.0	MATH011		CAS
3	1	MATH115	ADVANCED ENGINEERING MATHEMATICS	4.5	-	3.0	MATH025		MITL
3	1	MEC102	DYNAMICS OF RIGID BODIES	3.0	-	2.0	MEC101		CAS
Total				21.0	4.5	15.0			

Year 3	Term 2	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
3	2	ECE101	ELECTRONIC DEVICES AND CIRCUITS	4.5	-	3.0	EE101		MITL
3	2	ECE101L	ELECTRONIC DEVICES AND CIRCUITS (LAB)	-	4.5	1.0	EE101, EE101L	ECE101	MITL
3	2	ECE113-1	ELECTROMAGNETICS 2	4.5	-	3.0	ECE113,		MITL
3	2	EE102	CIRCUITS 2	4.5	-	3.0	EE101		MITL
3	2	EE102L	CIRCUITS 2 (LAB)	-	4.5	1.0	EE101, EE101L	EE102	MITL
3	2	MEC103	MECHANICS OF DEFORMABLE BODIES	4.5	-	3.0	MEC101		CAS
3	2	SAF101	SAFETY MANAGEMENT	1.5	-	1.0	3rd Year		MITL
Total				19.5	9.0	15.0			

Year 3	Term 3	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Care Taker
3	3	BEC198	BASIC ENGINEERING CORRELATION	-	3.0	(1.0)	CHM023, MATH115, PHY023		CAS
3	3	CPE101	LOGIC CIRCUITS AND SWITCHING THEORY	4.5	-	3.0	ECE101		MITL
3	3	CPE101L	LOGIC CIRCUITS AND SWITCHING THEORY (LAB)	-	4.5	1.0	ECE101,	CPE101	MITL
3	3	ECE102	ELECTRONIC CIRCUIT ANALYSIS AND DESIGN	4.5	-	3.0	ECE101		MITL
3	3	ECE102L	ELECTRONIC CIRCUIT ANALYSIS AND DESIGN (LAB)	-	4.5	1.0	ECE101,	ECE102	MITL
3	3	ME111	THERMODYNAMICS	4.5	-	3.0	MATH023, PHY023		MITL
3	3	RES101P	METHODS OF RESEARCH (PAIRED)	1.5	3.0	2.0	MATH110		MITL
3	3	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE011		CAS
Total				16.5	15.0	13.0			

Year 4	Term 1	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
4	1	CPE103	MICROPROCESSOR SYSTEM	4.5	-	3.0	CPE101		MITL
4	1	CPE103L	MICROPROCESSOR SYSTEM (LAB)	-	4.5	1.0	CPE101,	CPE103	MITL
4	1	ECE103	ELECTRONICS 3	4.5	-	3.0	ECE102		MITL
4	1	ECE103L	ELECTRONICS 3 (LAB)	-	4.5	1.0	ECE102,	ECE103	MITL
4	1	ECE141	COMMUNICATIONS 1	4.5	-	3.0	ECE102, MATH115		MITL
4	1	ECE141L	COMMUNICATIONS 1 (LAB)	-	4.5	1.0	ECE102, MATH115	ECE141	MITL
4	1	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0			MITL
4	1	ENG041L	ENGLISH FOR THE WORKPLACE 1	-	3.0	1.0	ENG023		CAS
Total				16.5	16.5	15.0			

Year 4	Term 2	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites	Care Taker
4	2	ECE131	FEEDBACK AND CONTROL SYSTEMS	4.5	-	3.0	ECE102, ECE120L, MATH115		MITL
4	2	ECE131L	FEEDBACK AND CONTROL SYSTEMS (LAB)	-	4.5	1.0	ECE102, ECE102L, ECE120L, MATH115	ECE131	MITL
4	2	ECE142	COMMUNICATIONS 2	4.5	-	3.0	ECE141		MITL
4	2	ECE142L	COMMUNICATIONS 2 (LAB)	-	4.5	1.0	ECE141	ECE142	MITL
4	2	ENG042L	ENGLISH FOR THE WORKPLACE 2	-	3.0	1.0	ENG041L		CAS
4	2	IT131P	CCNA 1 - NETWORKING BASICS	3.0	4.5	3.0			CIT
4	2	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011		CAS
Total				16.5	16.5	15.0			

Year 4	Term 3	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
4	3	ECE121	SIGNALS, SPECTRA AND SIGNAL PROCESSING	4.5	-	3.0	ECE120L, , MATH110, MATH115		MITL
4	3	ECE121L	SIGNALS, SPECTRA AND SIGNAL PROCESSING (LAB)	-	4.5	1.0	ECE120L, , MATH110, MATH115		MITL
4	3	ECE143	COMMUNICATIONS 3	4.5	-	3.0	ECE113-1, ECE142		MITL
4	3	ECE143L	COMMUNICATIONS 3 (LAB)	-	4.5	1.0	ECE113-1, ECE142, , ECE142L	ECE143	MITL

4	3	ECE198	ECE CORRELATION 1	-	3.0	(1.0)	ECE103, ECE113-1, ECE131, ECE141, EE102, ME111, MEC102,		MITL
4	3		ECE ELECTIVE 1	*	*	3.0			MITL
4	3	ENG043L	ENGLISH FOR THE WORKPLACE 3	-	3.0	1.0	ENG042L		CAS
4	3	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE013		CAS
Total				10.5+	15.0+	12.0			

Year 5	Term 1	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
5	1	ECE147	ADVANCED DATA COMMUNICATIONS	3.0	-	2.0	ECE142, , ECE142L		MITL
5	1	ECE200D-1	ECE CAPSTONE PROJECT 1	-	3.0	1.0	RES101P		MITL
5	1		ECE ELECTIVE 2	*	*	3.0			MITL
5	1	EE112	ELECTROMECHANICAL ENERGY CONVERSION	4.5	-	3.0	EE102		MITL
5	1	EE112L	ELECTROMECHANICAL ENERGY CONVERSION (LAB)	-	4.5	1.0	EE102, , EE102L	EE112	MITL
5	1	MATH160	NUMERICAL METHODS	4.5	-	3.0	MATH025		MITL
5	1	MATH160L	NUMERICAL METHODS (LAB)	-	4.5	1.0	MATH025	MATH1	MITL
Total				12.0+	12.0+	14.0			

Year 5	Term 2	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
5	2	ECE148	WIRE AND WIRELESS COMMUNICATIONS	3.0	-	2.0	ECE143		MITL
5	2	ECE181	ECE LAWS, CODES AND ETHICS	4.5	-	3.0	5th Year		MITL
5	2	ECE200D-2	ECE CAPSTONE PROJECT 2	-	3.0	1.0	ECE200D-1		MITL
5	2		ECE ELECTIVE 3	*	*	3.0			MITL
5	2	EEO101	ENGINEERING ECONOMY	4.5	-	3.0			MITL
5	2	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0			CAS
Total				16.5+	3.0+	15.0			

Year 5	Term 3	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
5	3	ECE149	BROADCAST ENGINEERING AND ELECTRONIC NAVIGATIONAL AIDS	3.0	-	2.0	ECE141		MITL
5	3	ECE191F	ECE SEMINARS AND FIELD TRIPS (FIELD)	-	4.5	1.0	5th Year		MITL
5	3	ECE198-1	ECE CORRELATION 2	-	3.0	(1.0)	ECE143, ECE181, EE112, EEO101, MATH160		MITL
5	3	ECE200D-3	ECE CAPSTONE PROJECT 3	-	3.0	1.0	ECE200D-2		MITL
5	3		ECE ELECTIVE 4	*	*	3.0			MITL
5	3	EMGT101	ENGINEERING MANAGEMENT	4.5	-	3.0			MITL
5	3	MSE101	FUNDAMENTALS OF MATERIAL SCIENCE AND ENGINEERING	4.5	-	3.0	CHM023, PHY023		MITL
Total				12.0+	10.5+	13.0			

ELECTIVES FOR BATCH 2013

Elective Type: ECE FREE ELECTIVES 2013

Required Units: 12.00

ELECTIVE

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit	Prerequisites	Co-	Care Taker
		ECE135P	INDUSTRIAL CONTROL AND INSTRUMENTATION SYSTEMS	3.0	3.0	3.0	ECE131,		MITL
		ECE135P-1	Supervisory Control and Data Acquisition System	3.0	3.0	3.0	ECE131,		MITL
		ECE135P-2	Mechatronics 1 - Fundamentals Of Mechatronics	3.0	3.0	3.0	ECE131,		MITL
		ECE135P-3	Mechatronics 2 - Robotics	3.0	3.0	3.0	ECE135P-2		MITL
		IT132P.CCNA2	Routers and Routing Basics (Paired)	3.0	3.0	3.0	IT131P		CIT
		IT133P.CCNA3	Switching Basics and Intermediate Routing (Paired)	3.0	3.0	3.0	IT132P		CIT
		IT134P.CCNA4	WAN Rechnologies (Paired)	3.0	3.0	3.0	IT133P		CIT

Total Academic Units : 220.00