

HOLY ANGEL UNIVERSITY
COLLEGE OF ENGINEERING AND ARCHITECTURE
BACHELOR OF SCIENCE IN AERONAUTICAL ENGINEERING
EFFECTIVE S.Y. 2010-2011

FIRST YEAR, FIRST SEMESTER

COURSE CODE	COURSE DESCRIPTION	NO. OF HOURS			PREREQUISITE
		LEC.	LAB.	UNITS	
ALGEBRA1	College Algebra 1	3	0	3	NONE
TRIGO	Plane and Spherical Trigonometry	3	0	3	NONE
GENCHEM1	General Chemistry 1 Lecture	2	0	2	NONE
GENCHEM1L	General Chemcistry 1 Laboratory	0	3	1	Coreq.: GENCHEM1
ESDRAW	Engineering Drawing	0	3	1	NONE
1ENGLISH	Reading and Writing	3	0	3	NONE
4PHILHIS	Philippine History	3	0	3	NONE
5THEO1	Doing Catholic Theology for Today's Filipino	3	0	3	NONE
5ORIENT	Orientation	1	0	1	NONE
7SELECT	Self-Testing Activities	2	0	2	NONE
NSTP1	National Service Training Program 1			3	NONE
		20	6	25	

FIRST YEAR, SECOND SEMESTER

ALGEBRA2	College Algebra 2	2	0	2	ALGEBRA1
ANAGEO	Analytic Geometry	3	0	3	ALGEBRA1, TRIGO
SOLIDM	Solid Mensuration	2	0	2	ALGEBRA1, TRIGO
GENCHEM2	General Chemistry 2	1	3	2	GENCHEM1,GENCHEM1L
ARCDRAW	Architctural Drawing	0	3	1	ESDRAW
1SPEECH	Speech and Oral Communication	3	0	3	1ENGLISH
5LOGIC	Logic	3	0	3	NONE
5ARTAPP	Art Appreciation	3	0	3	NONE
5THEO2	Christian Moral Living of Today's Filipino	3	0	3	5THEO1
7RHYACT	Fundamentals of Rhythmic Activities	2	0	2	7SELECT
NSTP2	National Service Training Program 2			3	NSTP1
		22	6	27	

SECOND YEAR, FIRST SEMESTER

DIFFCAL	Differential Calculus	4	0	4	ALGEBRA2, ANAGEO, SOLIDM
PHYSICS1	Physics 1 Lecture	4	0	4	ALGEBRA1, TRIGO
PHYSICS1L	Physics 1 Laboratory	0	3	1	Coreq.: PHYSICS1
BASCAD	Basic Computer-Aided Drafting	0	3	1	ARCDRAW
4GENPSY	General Psychology	3	0	3	NONE
1TECHCOM	Technical Communication	3	0	3	1SPEECH
3FILKOM	Komunikasyon sa Akademikong Filipino	3	0	3	NONE
5THEO3	A Catholic View of Sexuality, Marriage and Family Life	3	0	3	5THEO2
7FUNGAM	Fundamentals of Games and Sports	2	0	2	7RHYACT
		22	6	24	

SECOND YEAR, SECOND SEMESTER

INTECAL	Integral Calculus	4	0	4	DIFFCAL
PHYSICS2	Physics 2 Lecture	4	0	4	PHYSICS1, PHYSICS1L
PHYSICS2L	Physics 2 Laboratory	0	3	1	Coreq.: PHYSICS2
COMFUN	Computer Fundamentals and Programming	0	6	2	2nd YR STANDING
APCAD	Advanced Computer-Aided Drafting and Applications	0	3	1	BASCAD
4RIZAL	Life and Works of Rizal	3	0	3	NONE
4PHIGOV	Politics and Governance with Philippine Constitution	3	0	3	4PHILHIS
3FILBAS	Pagbasa at Pagsulat Tungo sa Pananaliksik	3	0	3	3FILKOM
5THEO4	A Theology of Social Transformation for the Filipino Catholic	3	0	3	5THEO3
7REACT	Recreational Activities	2	0	2	7FUNGAM
		22	12	26	

THIRD YEAR, FIRST SEMESTER

DIFEQNS	Differential Equations	3	0	3	INTECAL
STATICS	Statics of Rigid Bodies	3	0	3	PHYSICS1, PHYSICS1L
ELENGG	Basic Electrical Engineering	3	0	3	PHYSICS2, PHYSICS2L
ESTHERM	Thermodynamics	3	0	3	INTECAL, PHYSICS2, PHYSICS2L
ESENECO	Engineering Economy	3	0	3	3rd YR STANDING
AIRMATLS	Aircraft Materials and Processes	3	0	3	PHYSICS2, PHYSICS2L GENCHEM2
FUNDAERO	Fundamentals of Aerodynamics	5	0	5	INTECAL, PHYSICS2, PHYSICS2L
PRINECO	Principles of Economics with Taxation and Land Reform	3	0	3	NONE
		26	0	26	

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THIRD YEAR, SECOND SEMESTER

COURSE CODE	COURSE DESCRIPTION	NO. OF HOURS			PREREQUISITE
		LEC.	LAB.	UNITS	
DYNAMICS	Dynamics of Rigid Bodies	2	0	2	STATICS
ESELECS	Basic Electronics	3	0	3	ELENGG
ENVISAFE	Environmental Engineering and Safety Management	3	0	3	GENCHEM2, 3rd YR. STANDING
ADNUMET	Advanced Engineering Mathematics with Numerical Methods	3	0	3	DIFEQNS
ESENMGT	Engineering Management	3	0	3	3rd YR STANDING
RENGINES	Reciprocating Engines	4	0	4	ESTHERM, AIRMATLS
RENGINESL	Reciprocating Engines Laboratory	0	3	1	Coreq.: RENGINES
PROSTAT	Probability and Statistics	3	0	3	ALGEBRA2, 3rd YR. STANDING
5PHILOMAN	Philosophy of Man	3	0	3	NONE
		24	3	25	

FOURTH YEAR, FIRST SEMESTER

MDEFBOD	Mechanics of Deformable Bodies	3	0	3	STATICS
AIRFRAME	Airframe Construction and Repair	2	0	2	AIRMATLS
AIRFRAMEL	Airframe Construction and Repair Laboratory	0	6	2	Coreq.: AIRFRAME
AEROLAB	Aeronautical Laboratory	1	6	3	FUNDAERO
SUBAERO	Applied Subsonic Aerodynamics	5	0	5	FUNDAERO
GASTURBIN	Gas Turbine Engines	4	0	4	ESTHERM
GASTURBINL	Gas Turbine Engines Laboratory	0	3	1	Coreq.: GASTURBIN
CADD1	Computer-Aided Drafting and Design 1	2	3	3	COMFUN, APCAD
		17	18	23	

FOURTH YEAR, SECOND SEMESTER

AIRLAWS	Air Laws and Regulations	3	0	3	4th YR STANDING
AMAINSP	Aircraft Maintenance and Inspection	3	0	3	AIRMATLS
AMAINSPL	Aircraft Maintenance and Inspection Laboratory	0	3	1	Coreq.: AMAINSP
SUPERAERO	Applied Supersonic Aerodynamics	5	0	5	SUBAERO
AESTRUCT1	Aircraft Structure 1	5	0	5	MDEFBOD, AIRFRAME, AIRFRAMEL, ADNUMET
ACRAFTSYS	Aircraft Systems	4	0	4	ESELECS
CADD2	Computer-Aided Drafting and Design Laboratory	2	3	3	CADD1
P DPR	Personality Development and Public Relations	1	0	1	4th YR STANDING
		23	6	25	

FOURTH YEAR, SUMMER

AEOJT	Aeronautical Engineering Practice (OJT) (minimum of 420 hours)			3	4th YR STANDING
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FIFTH YEAR, FIRST SEMESTER

AVIONICS	Aircraft Avionics	4	0	4	ACRAFTSYS
AESTRUCT2	Aircraft Structure 2	5	0	5	AESTRUCT1
AEDESIGN1	Aircraft Design 1	3	6	5	SUPERAERO, ACRAFTSYS, RENGINES, RENGINESL, GASTURBIN, GASTURBINL
AERENMGT	Aerodrome Engineering and Management	3	0	3	ESENMGT, AIRLAWS
HELIPROP	Basic Helicopter and Propeller Design	3	0	3	SUPERAERO, RENGINES, RENGINESL, ACRAFTSYS, GASTURBIN, GASTURBINL
AEMERES	Research Methods and Applications	2	0	2	1TECHCOM, PROSTAT
		20	6	22	

FIFTH YEAR, SECOND SEMESTER

AVISAFE	Aviation Safety	2	0	2	ENVISAFE
AEDESIGN2	Aircraft Design 2	3	6	5	AEDESIGN1, AESTRUCT2
AIRTRANS	Air Transport Economics and Management	3	0	3	ESENECO, ESENMGT, AIRLAWS
RELENGG	Reliability Engineering	3	0	3	ADNUMET, AEMERES
OPERENGG	Operations Engineering	4	0	4	SUBAERO, AERENMGT
AETOPICS	Special Topics in Aeronautical Engineering	0	6	2	5th YR STANDING
AEROELECT	Technical Elective	3	0	3	
		18	12	22	

TECHNICAL ELECTIVES

ROCKEN	Rocket Engines	3	0	3	SUPERAERO, 5th YR STANDING
HEMECRAFT	Home-Built Aircraft	3	0	3	5th YR STANDING
AEROPFS	Project Feasibility Study	3	0	3	ESENECO, AEMERES