

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

FIRST YEAR, FIRST SEMESTER

COURSE CODE	COURSE TITLE	NO. OF HOURS			PREREQUISITE
		LEC.	LAB.	UNITS	
ALGEBRA1	Collge 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 Checmistry 1 Laboratoary	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	Selt-Testing Activities	2	0	2	NONE
NSTP1	National Service Training Program 1			3	NONE
		20	6	25	

FIRST YEAR, SECOND SEMESTER

ALGEBRA2	Collge 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	Architectural 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
BLDGDES1	Building Design 1	1	3	2	ARCDRAW
MECHENG	Basic Mechanical Engineering	3	0	3	PHYSICS2, PHYSICS2L
EHSURV	Elementary and Higher Surveying Lecture	3	0	3	ALGEBRA2, TRIGO
EHSURVL	Elementary and Higher Surveying Lab.	0	3	1	Coreq: EHSURV
PROSTAT	Probability and Statistics	3	0	3	ALGEBRA2, 3rd YR STANDING
5PHILOMAN	Philosophy of Man	3	0	3	NONE
		19	6	21	

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THIRD YEAR, SECOND SEMESTER

COURSE CODE	COURSE TITLE	NO. OF HOURS			PREREQUISITE
		LEC.	LAB.	UNITS	
DYNAMICS	Dynamics of Rigid Bodies	2	0	2	STATICS
MECHDEF	Mechanics of Deformable Bodies	5	0	5	STATICS
ENVISAFE	Environmental Engineering and Safety Management	3	0	3	GENCHEM2, 3rd YR STANDING
ENSURVEYS	Engineering Surveys Lecture	3	0	3	EHSURV, EHSURVL
ENSURVEYSL	Engineering Surveys Laboratory	0	3	1	Coreq.: ENSURVEYS
BLDGDES2	Building Design 2	1	3	2	BLDGDES1
ADVMATH	Advanced Engineering Mathematics	3	0	3	DIFEQNS
PRINECO	Principles of Economics with Taxation and Land Reform	3	0	3	NONE
		20	6	22	

FOURTH YEAR, FIRST SEMESTER

STHEORY1	Structural Theory 1	3	3	4	MECHDEF
ESENECO	Engineering Economy	3	0	3	3rd YR STANDING
SOILMEC	Soil Mechanics Lecture	3	0	3	MECHDEF
SOILMEL	Soil Mechanics Laboratory	0	3	1	Coreq.: SOILMEC
FLUMECH	Mechanics of Fluid Lecture	2	0	2	DYNAMICS
FLUMECHL	Mechanics of Fluid Laboratory	0	3	1	Coreq.: FLUMECH
HIWAYS	Highway Engineering	3	0	3	ENSURVEYS, ENSURVEYSL
PLANNST	Planning and Estimates	3	0	3	BLDGDES2
PDPR	Personality Development and Public Relations	1	0	1	4th YR STANDING
		18	9	21	

FOURTH YEAR, SECOND SEMESTER

STHEORY2	Structural Theory 2	3	3	4	STHEORY1
HYDRAU	Hydraulics Lecture	2	0	2	FLUMECH, FLUMECHL
HYDRAUL	Hydraulics Laboratory	0	3	1	Coreq.: HYDRAU
TRANSP	Transportation Engineering	3	0	3	HIWAYS
ESENMGT	Engineering Management	3	0	3	3rd YR STANDING
ELENGG	Basic Electrical Engineering	3	0	3	PHYSICS2, PHYSICS2L
CONSMAT	Construction Materials and Testing Lecture	2	0	2	MECHDEF
CONSMAL	Construction Materials and Testing Laboratory	0	3	1	Coreq.: CONSMAT
CEOJT	Civil Engineering On-the-Job Training (minimum of 320 hours)			3	4th YR STANDING
		16	9	22	

"Certificate in Civil Engineering Technology shall be granted after completion of all prescribed courses from 1st year-first semester to 4th year-second semester"

FIFTH YEAR, FIRST SEMESTER

CONPROJ	Construction Methods and Project Management	3	3	4	5th YR STANDING
CELAWS	CE Laws, Contracts, Specifications and Ethics	3	0	3	5th YR STANDING
HYDROLOGY	Hydrology	3	0	3	FLUMECH, FLUMECHL
STRDSIGN1	Reinforced Concrete Design	3	3	4	STHEORY2
CEELECT1	Technical Elective 1	3	0	3	
CEELECT2	Technical Elective 2	3	0	3	
CETOPICS	Special Topics in Civil Engineering	0	3	1	5th YR STANDING
		18	9	21	

FIFTH YEAR, SECOND SEMESTER

WARENG	Water Resources Engineering	3	0	3	HYDRAU, HYDRAUL
FOUNDENGG	Foundation Engineering	3	3	4	SOILMEC, SOILMEL
STRDSIGN2	Steel and Timber Design	3	3	4	STHEORY2
CEPROJ	Civil Engineering Projects	1	6	3	5th YR STANDING
CEELECT3	Technical Elective 3	3	0	3	
CEELECT4	Technical Elective 4	3	0	3	
		16	12	20	

TECHNICAL ELECTIVES

ERQUAKE	Earthquake Engineering	3	0	3	STHEORY2
PRECON	Prestressed Concrete Design	3	0	3	STRDSIGN1
BRIDENGG	Bridge Engineering	3	0	3	STHEORY2
IFCADE	Irrigation, Flood Control & Drainage Engineering	3	0	3	HYDRAU, HYDRAUL
SANENGG	Sanitary Engineering	3	0	3	ENVISAFE
WATERES	Water & Waste Water Engineering	3	0	3	HYDROLOGY
ENTREP	Entrepreneurship for Engineers	3	0	3	ESENECO
CONCOST	Construction Cost Engineering	3	0	3	PLANNST
DBASEMAN	Database Management in Construction	3	0	3	COMFUN
TRANSPLAN	Transportation Planning	3	0	3	TRANSP
TRANSYS	Transportation Systems Design	3	0	3	TRANSP
HITRASAF	Highway Design and Traffic Safety	3	0	3	HIWAYS
GEOSYN	Geosynthetics in Geotechnical Engineering	3	0	3	CONSMAT, CONSMAL
GEQUAKE	Geotechnical Earthquake Engineering	3	0	3	STHEORY2
GLANFILL	Geotechnical Aspects of Landfill Design	3	0	3	5th YR STANDING