

Name: _____



ANDRES BONIFACIO COLLEGE
College Park, Dipolog City
SCHOOL OF ENGINEERING



BACHELOR OF SCIENCE IN GEODETIC ENGINEERING
Effective AY 2023-2024

FIRST YEAR

Grade	Course No.	Description	Lec hrs per week	Lab hrs per week	Total unit	Pre-requisite
FIRST SEMESTER						
_____	EM 11	Calculus 1	5	0	5	
_____	ES 11	Engineering Drawing and Plans	0	3	1	
_____	ER 11	Special Enhancement Course in Engineering	3	0	3	
_____	GE 11	General Surveying 1	2	3	3	
_____	GEC 211	Mathematics in the Modern World	3	0	3	
_____	GEC 111	Understanding the Self	3	0	3	
_____	GEC 112	Readings in Philippine History	3	0	3	
_____	GEC 123	Purposive Communication	3	0	3	
_____	PATHFiT 1	Movement Competency Training	2	0	2	
_____	NSTP 111	National Service Training Program I	(3)	0	(3)	
			24(3)	6	26(3)	
SECOND SEMESTER						
_____	EM 16	Calculus 2	5	0	5	EM11, ER11
_____	ES 16	Computer-Aided Drafting	1	3	2	ES11, ER11
_____	Phy 121	Physics for Engineers	3	3	4	EM11, ER11
_____	GE 16	General Surveying 2	2	6	4	GE11
_____	GE 17	Cartography	1	6	3	ES11
_____	GE 18	Principles of Geology	3	0	3	EM11, Chem111
_____	GEC 113	The Contemporary World	3	0	3	
_____	PATHFiT 2	Exercise-based Fitness Activities	2	0	2	PATHFit1
_____	NSTP 121	National Service Training Program II	(3)	0	(3)	NSTP111
			20(3)	18	26(3)	

SECOND YEAR

FIRST SEMESTER						
_____	EM 21	Differential Equations	3	0	3	EM16
_____	EM 22	Engineering Data Analysis	3	0	3	EM16
_____	ES 21	Statics of Rigid Bodies	3	0	3	EM16, Phy121
_____	ES 22	Computer Programming 1	1	3	2	2 nd Year Standing
_____	GE 21	Engineering Surveys	2	6	4	GE16
_____	GE 22	Theory of Errors and Adjustments	3	0	3	EM16
_____	GE 23	Geometric Geodesy	3	0	3	GE16
_____	PATHFiT 3	Dance/ Sports/ Martial Arts/ Group Exercise/ Outdoor and Adventure Activities	2	0	2	PATHFit2
			20	9	23	
SECOND SEMESTER						
_____	ES 26	Dynamics of Rigid Bodies	3	0	3	EM21, ES21
_____	ES 28	Computer Programming 2	0	3	1	ES22
_____	GE 26	Hydrographic Surveying	2	3	3	GE16
_____	GE 27	Physical Geodesy	3	0	3	GE23
_____	GE 28	Geodetic Computation and Adjustments	2	6	4	GE22
_____	GE 29	Geodetic Surveying	2	6	4	GE23
_____	MST 122	Living in the IT Era	3	0	3	
_____	GEC 124	Science, Technology and Society	3	0	3	
_____	PATHFiT 4	Dance/ Sports/ Martial Arts/ Group Exercise/ Outdoor and Adventure Activities	2	0	2	PATHFit3
			20	18	26	
SUMMER						
_____	GE 30	Survey Camp (120 Hours)	0	(1 unit)	1	3 rd Yr. Standing

THIRD YEAR

FIRST SEMESTER

_____	GE	31	Property Surveys	3	6	5	GE16
_____	GE	32	Photogrammetry	2	6	4	GE17, GE28
_____	GE	33	Remote Sensing	2	6	4	Phy121
_____	GE	34	Introduction to the Laws on Private and Public Lands	2	0	2	GE29
_____	ES	31	Engineering Economics	3	0	3	EM21
_____	EE	21	Electrical Circuits 1	3	3	4	Phy121
_____	SSP	123	Indigenous People's Studies with Peace Education	<u>3</u>	<u>0</u>	<u>3</u>	
				18	21	25	

SECOND SEMESTER

_____	GE	36	Geodetic Engineering Laws, Obligations, Contracts and Ethics	2	0	2	GE34
_____	GE	Elec1	GE Elective (Hydraulics)	3	0	3	ES26, GE26
_____	ECE	28	Electronic Circuits, Devices, and Analysis	3	3	4	EE21
_____	ES	39	Basic Occupational Safety and Health	3	0	3	3 rd Yr. Standing
_____	ES	37	Methods of Research	3	0	3	3 rd Yr. Standing
_____	ES	36	Engineering Management	3	0	3	ES31
_____	GEC	115	Gender and Society	3	0	3	
_____	GEC	122	Art Appreciation	3	0	3	
_____	Rizal	121	Rizal's Life, Works, and Writings	<u>3</u>	<u>0</u>	<u>3</u>	
				26	3	27	

SUMMER

_____	OJT	1	On-the-Job Training (240 hours)	(2 units)	(1 unit)	3	4 th Yr. Standing
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FOURTH YEAR

FIRST SEMESTER

_____	Proj	1	Project Study 1	1	3	2	ES37
_____	ES	41	Technopreneurship 101	3	0	3	4 th Yr. Standing
_____	GE	41	Land Registration Laws	3	0	3	GE36
_____	GE	42	Satellite Geodesy	3	0	3	GE27
_____	GE	43	Geographic Information Systems	1	6	3	ES 28, GE17
_____	ER	41	Engineering Review 1	3	0	3	4 th Yr. Standing
_____	LIT	311	Philippine Literature	<u>3</u>	<u>0</u>	<u>3</u>	
				17	9	20	

SECOND SEMESTER

_____	ES	42	Environmental Science and Engineering	3	0	3	4 th Yr. Standing
_____	Proj	2	Project Study 2	0	3	1	Proj1
_____	GE	46	Public Lands Laws and Laws on Natural Resources	3	0	3	GE41
_____	GE	47	Advance Info. and Communications Technology	3	0	3	GE43, ES28
_____	GE	48	Land Use Planning and Development	2	3	3	GE41, GE43
_____	GE	49	Land Administration and Management	3	0	3	GE41
_____	ER	46	Engineering Review 2	3	0	3	ER41
_____	GEC	121	Ethics	3	0	3	4 th Yr. Standing
_____	IC	111	Life and Works of Andres Bonifacio	<u>2</u>	<u>0</u>	<u>2</u>	
				22	6	24	

Note: All subjects taken without prior completion of the pre-requisite will not be credited.

SUMMARY		
Classification/Field/Course	CHED Requirement	ABC Requirement
I.TECHNICAL COURSES		
A. Mathematics and Physical Science	16	20
B. Basic Engineering Sciences	18	21
C. Allied Courses	12	20
D. Professional Courses	79	82
Sub-total	125	143
II.NON-TECHNICAL COURSES		
A. Required General Education Courses	24	24
B. General Education Electives	9	9
C. Mandated Course	3	3
D. Institutional Courses		14
E. Physical Education	6	8
F. National Service Training Program	8	6
Sub-total	50	64
GRAND TOTAL	175	207

Evaluated by

ENGR. REY C. BASADRE
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Course No.	Descriptive Title	Units									
		Math	Basic Eng'g Sci.	Allied	Prof.	Gen. Educ. Courses	Gen. Educ .Elec	Manda ted	Institu tional	Physi cal Educ.	NSTP
SECOND SEMESTER											
ES26	Dynamics of Rigid Bodies		3								
ES28	Computer Programming 2		1								
GE26	Hydrographic Surveying				3						
GE27	Physical Geodesy				3						
GE28	Geodetic Computation and Adjustments				4						
GE29	Geodetic Surveying				4						
MST122	Living in the IT Era						3				
GEC124	Science, Technology and Society					3					
PATHFit4	Physical Activities Toward Health and Fitness 4									2	
SUMMER											
GE30	Survey Camp (120 Hours)				1						
<u>THIRD YEAR</u>											
FIRST SEMESTER											
GE31	Property Surveys				5						
GE32	Photogrammetry				4						
GE33	Remote Sensing				4						
GE34	Introduction to the Laws on Private and Public Lands				2						
ES31	Engineering Economics		3								
EE21	Electrical Circuits 1			4							
SSP123	Indigenous People's Studies with Peace Education						3				
SECOND SEMESTER											
GE36	Geodetic Eng. Laws, Obligations, Contracts and Ethics				2						
GEElec1	GE Elective (Hydraulics)				3						
ECE28	Electronic Circuits, Devices, and Analysis			4							
ES39	Basic Occupational Safety and Health			3							
ES37	Methods of Research				3						
ES36	Engineering Management		3								
GEC115	Gender and Society						3				
GEC122	Art Appreciation					3					
RIZAL121	Rizal's Life, Works, and Writings							3			
SUMMER											
OJT1	On-the-Job Training (240 hours)				3						

Course No.	Descriptive Title	Units									
		Math	Basic Eng'g Sci.	Allied	Prof.	Gen. Educ. Courses	Gen. Educ. Elec	Mandated	Institutional	Physical Educ.	NSTP
<u>FOURTH YEAR</u>											
FIRST SEMESTER											
Proj1	Project Study 1				2						
ES41	Technopreneurship 101		3								
GE41	Land Registration Laws				3						
GE42	Satellite Geodesy				3						
GE43	Geographic Information Systems				3						
ER41	Engineering Review 1								3		
LIT311	Philippine Literature								3		
SECOND SEMESTER											
ES42	Environmental Science and Engineering			3							
Proj2	Project Study 2				1						
GE46	Public Lands Laws and Laws on Natural Resources				3						
GE47	Advance Info. and Communications Technology			3							
GE48	Land Use Planning and Development				3						
GE49	Land Administration and Management				3						
ER46	Engineering Review 2								3		
GEC121	Ethics					3					
IC111	Life and Works of Andres Bonifacio								2		
Total Units		20	21	20	82	24	9	3	14	8	6
<i>Nothing Follows</i>											