

Tanauan City College

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

PROGRAM PROSPECTUS  
AY 2016-2017

FIRST YEAR

FIRST SEMESTER

Grade	SubCode	Description	Units	Lec (Hrs)	Lab (Hrs)	PRE-REQ
	MATH2	College Algebra	3	3	0	None
	MATH4	Plane and Spherical Trigonometry	3	3	0	None
	BENG1	Engineering Drawing	1	0	3	None
	NSCI4	General Chemistry	4	3	3	None
	ENGL1	Study and Thinking Skills	3	3	0	None
	FILI1	Komunikasyon sa Akademikong Filipino	3	3	0	None
	SSCI1	General Psychology including Population Education	3	3	0	None
	TCCR1	Mabini's Life, Works and Writings	2	2	0	None
	NSTP1	LTS/MS11	3	3	0	None
	PHED1	Self Testing Activities	2	2	0	None
			27	25	6	

SECOND SEMESTER

Grade	SubCode	Description	Units	Lec (Hrs)	Lab (Hrs)	PRE-REQ
	MATH3	Advanced Algebra	2	2	0	MATH2
	MATH5	Analytic Geometry	2	2	0	MATH4
	MATH7	Solid Mensuration	2	2	0	MATH4
	ENGL2	Speech and Oral Communication	3	3	0	ENGL1
	FILI2	Pagbasa at Pagsulat sa Pananaliksik	3	3	0	FILI1
	PHYS1	Physics 1	4	3	3	MATH2
	SSCI2	Basic Economics with TAR	3	3	0	None
	CPEN1	Computer Hardware and Fundamentals	1	0	3	None
	TCCR2	Laurel's Life, Works and Writings	2	2	0	None
	NSTP2	CWS/MS12	3	3	0	NSTP1
	PHED2	Rythmic Activities	2	2	0	PHED1
			27	25	6	

SECOND YEAR

FIRST SEMESTER

Grade	SubCode	Description	Units	Lec (Hrs)	Lab (Hrs)	PRE-REQ
	MATH9	Differential Calculus	4	4	0	Math3, Math5,
	PHYS2	Physics 2	4	3	3	PHYS1
	BENG3	Computer Fundamentals and Programming	2	0	6	NONE
	ENGL4	Technical Communication	3	3	0	ENGL2
	FILI3	Masining na Pagpapahayag	3	3	0	FILI3
	SSCI3	Politics and Governance w/ Phil. Constitution	3	3	0	None
	HUMA1	Philosophy (Logic)	3	3	0	None
	CPEN2	Discrete Mathematics	3	3	0	MATH2
	PHED3	Fundamentals of Games & Sports	2	2	0	PHED2
			27	24	9	

SECOND SEMESTER

Grade	SubCode	Description	Units	Lec (Hrs)	Lab (Hrs)	PRE-REQ
	MATH10	Integral Calculus	4	4	0	MATH9
	MATH8	Probability and Statistics	3	3	0	MATH2
	BENG2	Computer Aided Drafting	1	0	3	BENG3
	SSCI5	Society and Culture	3	3	0	None
	HUMA3	Philosophy and Ethics	3	3	0	None
	CPEN3	Data Structures and Algorithms Analysis	4	3	3	BENG3
	PHED4	Recreational Activities for College Students	2	2	0	PHED3
			20	18	6	

THIRD YEAR

FIRST SEMESTER

Grade	SubCode	Description	Units	Lec (Hrs)	Lab (Hrs)	PRE-REQ
	MATH11	Differential Equations	3	3	0	MATH10
	BENG4	Statics of Rigid Bodies	3	3	0	MATH10
	BENG5	Safety Management	1	1	0	NONE
	AENG7	Circuits 1	4	3	3	Phys2, Math10/ AEng7
	AENG8	Electronics Devices and Circuits	4	3	3	Phys2, Math10/ AEng7
	CPEN4	Computer System Organization with Assembly	4	3	3	CpEN3/ CpEn4
	HUMA5	Arts Appreciation	3	3	0	None
			22	19	9	

**SECOND SEMESTER**

Grade	SubCode	Description	Units	Lec (Hrs)	Lab (Hrs)	PRE-REQ
	CPEN5	Advanced Engineering Mathematics for CpE	3	3	0	MATH11
	BENG6	Dynamics of Rigid Bodies	2	2	0	BENG4
	BENG7	Mechanics of Deformable Bodies	3	3	0	BENG4
	BENG8	Engineering Economy	3	3	0	NONE
	BENG9	Engineering Management	3	3	0	NONE
	AENG9	Circuits 2	4	3	3	AENG7
	AENG10	Electronics Circuits Analysis and Design	4	3	3	AEng8/ AEng10
	CPEN6	Logic Circuits and Switching Theory	3	3	0	AEng8/ CpE6
			<b>25</b>	<b>23</b>	<b>6</b>	

**FOURTH YEAR**

**FIRST SEMESTER**

Grade	SubCode	Description	Units	Lec (Hrs)	Lab (Hrs)	PRE-REQ
	BENG10	Environmental Engineering	2	2	0	NSci4
	CPEN7	Advanced Logic Circuit	4	3	3	CpEN6/CpEN7
	CPEN8	Digital Signal Processing	4	3	3	CpEN5/ CpEN8
	CPEN9	Principles of Communications	3	3	0	AEng9,AEng10
	CPEN10	Control Systems	4	3	3	A Eng9,AEng10/ CpEN10
	CPEN11	Computer Engineering Drafting and Design	1	0	3	CPEN3
			<b>18</b>	<b>14</b>	<b>12</b>	

**SECOND SEMESTER**

Grade	SubCode	Description	Units	Lec (Hrs)	Lab (Hrs)	PRE-REQ
	CPEN12	Operating Systems	4	3	3	CpEN4/ CpEN12
	CPEN13	Computer System Architecture	4	3	3	CpEN4, CpEN7/ CpEN13
	CPE14	Data Communications	3	3	0	CpEN9
	CPEN15	Microprocessor System	4	3	3	CpEN4,CpEN6/CpEN15
	CPEN16	Object Oriented Programming	3	2	3	CpEN3/CpEN16
	CLEC1	Embedded Systems	3	3	0	None
			<b>21</b>	<b>17</b>	<b>12</b>	

**SUMMER**

Grade	SubCode	Description	Units	Lec (Hrs)	Lab (Hrs)	PRE-REQ
	CPEOJT	OJT (240 hrs)	2	2	0	5th year Standing

**FIFTH YEAR**

**FIRST SEMESTER**

Grade	SubCode	Description	Units	Lec (Hrs)	Lab (Hrs)	PRE-REQ
	CPEN20	Computer Networks	4	3	1	CPEN13
	CPEN17	Design Project 1 (Methods of Research)	2	2	0	CpEN15
	CPEN22	Software Engineering	3	3	0	CpEN3
	HIST1	Philippine History	3	3	0	None
	CLEC2	Microelectronics	3	3	0	None
	CPEN18	System Analysis Design	3	2	3	CPEN16
			<b>18</b>	<b>16</b>	<b>4</b>	

**SECOND SEMESTER**

Grade	SubCode	Description	Units	Lec (Hrs)	Lab (Hrs)	PRE-REQ
	CPEN19	Design Project 2 (Project Implementation)	2	0	6	CPEN17
	AENG11	Entrepreneurship	3	3	0	5th Year Standing
	CPEN21	Engineering Ethics & Computer Laws	2	2	0	5th Year Standing
	RIZA1	Rizal's Life, Works and Writing	3	3	0	None
	CPEN23	Seminars and Field Trips	1	0	3	5th Year Standing
	CLEC3	Instrumentation and Control	3	3	0	4th Year Standing
			<b>14</b>	<b>11</b>	<b>9</b>	