



MATERIALS ENGINEERING

CURRICULUM MAP

OUTCOMES BASED (OBE) SYSTEM

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CURRICULUM MAP | OUTCOMES BASED (OBE) SYSTEM

Code	Mathematics	Units	a	b	c	d	e	f	g	h	i	j	k	l
M-01	Algebra and Trigonometry	3												
M-02	Calculus 1 (Differential Calculus)	4												
M-03	Calculus 2 (Integral Calculus)	4												
M-04	Engineering Data Analysis	3												
M-05	Differential Equations	3												
		17												

Code	Natural/Physical Sciences	Units	a	b	c	d	e	f	g	h	i	j	k	l
S-01	Chemistry for Engineers	4												
L-01	Chemistry for Engineers Lab	1	D											
S-02	Physics for Engineers	4												
L-02	Physics for Engineers Lab	1	D											
Code	Natural/Physical Sciences	Units	a	b	c	d	e	f	g	h	i	j	k	l
S-01	Chemistry for Engineers	4												
		10												

MAP LEGEND	
Code	Course Classification
M-XX	Mathematics
S-XX	Natural or Physical Science
L-XX	Laboratory Course
E-XX	Engineering Science
A-XX	Allied
Code	Descriptor
I	Introductory Course
E	Enabling Course
D	Demonstrative Course
Code	Definition
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Code	Basic Engineering Sciences	Units	a	b	c	d	e	f	g	h	i	j	k	l
E-01	Computer-Aided Drawing and Drafting	2	D		E									
E-02	Statics of Rigid Bodies	3	I				E							
E-03	Dynamics of Rigid Bodies	2	I				I							
E-04	Mechanics of Deformable Bodies	3	E		E		I						E	
E-05	Mechanics of Fluids	2	I				E							
E-06	Environmental Science	3	E		E		E	E		E		E		
E-07	Technopreneurship	3		I									I	
E-08	Engineering Economics	3	E		E		E			I				I
E-09	Engineering Management	2							E					I
		23												I

	Allied Courses	Units	a	b	c	d	e	f	g	h	i	j	k
A-01	Basic Electrical Engineering	3	I										
A-02	Analytical Chemistry	3	I	I		I							
L-03	Analytical Chemistry (laboratory)	2	D	I		I							
A-03	Organic Chemistry	3	I	I		I							
		12											

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	Professional Courses	Units	a	b	c	d	e	f	g	h	i	j	k	l
P-01	Materials Engineering as a Profession	2	E		I		I	I		E		E	I	
P-02	Structure-Property Relationships in Materials 1	3	I		I		E					I		
P-03	Structure-Property Relationships in Materials 2	3	I		I		E					I		
P-04	Thermodynamics of Materials	3	E				E							
P-05	Kinetics of Materials & Processes	3	E				E							
L-05	Computer applications in Materials Engineering	2	E				E					E		
L-06	Thermodynamics and Kinetics Laboratory	1		D									E	
P-06	Synthesis and Processing of Materials	3	E				E				E	E		
P-07	Analytical Techniques in Materials Engineering	3	E				E				E	E		
L-07	Analytical Techniques in Materials Engineering laboratory	1		D									E	
P-08	Solid state Engineering	3	E				E				E	E		
P-09	Polymer Materials (Materials Elective 1)	3	E				E			E	E	E		
L-08	Polymer Materials laboratory (Materials Elective 1)	1		D									E	
P-10	Composite Materials (Materials Elective 2)	3	E				E				E	E		
L-09	Composite Materials laboratory (Materials Elective 2)	1		D									E	
P-11	Quality Assurance	3	I	E	E		E	E					E	

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P-12	Degradation of Materials	3	E				E				E	E		
L-10	Degradation of Materials laboratory	1		D									E	
P-13	Materials Selection and Plant Design	3	D		D								D	
L-11	Materials Selection and Plant Design laboratory	1		D									D	
P-14	Forensic Engineering/ Failure Analysis	3	E				E				E	E		
P-15	Design and Analysis of Experiments in Materials Engineering	3	D	D	D		D			D	E	E	D	
P-16	Special Materials (Special Topics)	3	D		E		E							
P-17	Methods of Research	3	D	D	D		D		D	D	E	E	D	
L-12	Materials Research Project (Undergraduate thesis)	2	D	D	D		D		D	D	E	E	D	
L-13	Laws, Ethics, Seminars & Plant visits	1				E	E			E				
L-14	On-the-Job Training	2	D	D	E	D	D	D		E	E		D	
		60												

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Code	General Education/Mandated	17	a	b	c	d	e	f	g	h	i	j	k	l
G-01	Science, Technology, and Society	3												
G-02	The Contemporary World	3												
G-03	Readings in Philippine History	3												
G-04	Understanding the Self	3						E		E		E		
G-05	Art Appreciation	3												
G-06	Purposive Communication	3												
G-07	Mathematics in the Modern World	3												
G-08	Ethics	3												
G-09	GENSOC	3												
G-10	Living in the IT Era	3												
G-11	Life. Works of Jose Rizal	3												
G-12	P.E. 1	2												
G-13	P.E. 2	2												
G-14	P.E. 3	2												
G-15	P.E. 4	2												
G-16	NSTP 1	3												

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G-01	Science, Technology, and Society	3												
G-02	The Contemporary World	3												
		53												

Code	Institutional Courses	Units	a	b	c	d	e	f	g	h	i	j	k	l
I-01	Group Guidance	1.5												
I-02	La Sallian Spirituality	3												
I-03	Christian Morality	3												
I-04	Public Speaking	3												
I-05	Logic	3												
I-06	Spirituality in the Workplace	3												

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