

BSIT (Mechatronics) Curriculum Map

Code	Mathematics	Units	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r
M-01	College Algebra	3	I				I													
M-02	College Algebra 2	3	I				I													
M-03	Plane Trigonometry	3	I				I													
M-04	Analytic Geometry	4	I				I													
M-05	Solid Mensuration	2	I				I													
M-06	Differential Calculus	5	I				I													
M-07	Integral Calculus	5	I				I													
M-08	Differential Equations	3	I				I													
M-09	Probability & Statistics	3	I				I													

Code	Natural/Physical Sciences	Units	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r
S-01	General Inorganic Chemistry 1	3	I				I													
L-01	General Inorganic Chemistry 1 Laboratory	1	I	E		I	I													
S-03	Engineering Physics 1	3	I		I		I													
L-03	Engineering Physics 1 Laboratory	1	I	E		I	I						I							
S-04	Engineering Physics 2	3	I		I	I	I													
L-04	Engineering Physics 2 Laboratory	1	I	E		I	E						I							

Code	Basic Engineering Sciences	Units	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r
E-01	Engineering Drawing 1	2	I				I			I			I							
E-02	Computer Fundamentals and word processing	2	I	I			I													
E-03	Computer Fundamentals and word processing	1	I	E					E											
E-04	Computer-Aided Drawing	2	I	E		I	I			I			E							
E-05	Computer Applications	2	I	E					E											
E-06	Engineering Mechanics 1	3	I		I	I	E							E						
E-07	Engineering Mechanics 2	2	I		I	I	E							E						
E-08	Strength of Materials	3	I				I													
E-09	Engineering Economy	3	I		I		E			I										
E-10	Advance Computer Programming	2	I	I			I													
E-11	Advanced computer Programming Lab	1	I				E													
E-12	Environmental Safety health	3	I							I				I						
E-13	Industrial Psychology and Organizational	3	I							I				I						

Code	Allied Courses	Units	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r
A-01	Thermodynamics	3	E				E			I			E							

Code	Professional Courses	Units	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r
P-01	Analog Electronics	4	I				E				D	I								
P-02	Direct and Alternating current	4	I	I			I						E							
P-03	Electrical Power Sources	3	I	E			I						I							
P-04	Digital Electronics	4	D	E			I						E							
P-05	Motor Theory and Controls	4	D	E			D						E							
P-06	Machine Shop Theory and Practice 1	4	I	E	D		I						E							
P-07	Machine Shop Theory and Practice 2	4	E	E			E						E							
P-08	Sensors and Mechatronics System	4	I	E			E	D				D	E							
P-09	Applied Control Systems	3	I	I			E						E							
P-10	Power Control and Conversion	4	I	E			I						E							
P-11	Pneumatics and Industrial Hydraulics	4	I	E			I						E							
P-12	Refrigeration and Air Conditioning	4	I	E			I						E							
P-13	Programmable Logic Control	3	I	E			E						E							
P-14	Introduction to Robotics	3	E	E	D		E	E	D				E	D						
P-15	Electrical Wiring System	4	I	E			I						E							
P-16	Tool and Die	3	I	I			E						I							
P-17	Microprocessor for IT	4	I	D	E	E	E				E		D							
P-18	Kinematics and Machine Elements	4	I	E	E		E						E							
P-19	Engineering Materials and Testing	4	I	E			E						I	D						
P-20	On-the-Job Training of School	2				D		E	E	D	E	E	E	E						

Code	Non-Technical Courses	Units	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r
N-02	General Psychology	3	I			E		E				I								

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
P-XX	Professional
N-XX	Non-Technical
I-XX	Institutional
Note:	Please delete any extra outcome column

Code	Descriptor
I	Introductory Course
E	Enabling Course
D	Demonstrative Course
Code	Definition
I	An introductory course to an outcome
E	A course that strengthens the outcome
D	A course demonstrating an outcome

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