

SEMESTER I

CODES	COURSE TITLE	CREDITS
GMAT1505	Calculus & Analytical Geometry I	5
GENG1301	Introduction to Engineering	3
GSCI1303	General Chemistry I	3
GSCI1103L	General Chemistry I Lab	1
GCOM1304	Composition I (English)	3
GHUM1303	World Religions (Trad & Cultr)	3
	Total	18

SEMESTER II

CODES	COURSE TITLE	CREDITS
GMAT2506	Calculus & Analytical Geometry II	5
GSCI1405	General Physics with Calculus I	4
GSCI1105L	General Physics with Calculus I Lab	1
ENGR1301	Computer Programming for Engineering Applications	3
MECH1101	MATLAB I	1
GCOM1305	Composition II (English)	3
GHUM1207	Kewarganegaraan	2
	Total	19

SEMESTER III

CODES	COURSE TITLE	CREDITS
GMAT2507	Calculus & Analytical Geometry III	5
GSCI2406	General Physics with Calculus II	4
GSCI2106L	General Physics with Calculus II Lab	1
MECH2302	Engineering Graphics	3
ENGR2302	Statics	3
MECH2107	MATLAB II	1
GHUM1208	Bahasa Indonesia	2
	Total	19

SEMESTER IV

CODES	COURSE TITLE	CREDITS
GMAT2308	Differential Equations	3
MECH2306	Dynamics	3
MECH2305	Thermodynamics	3
MECH2308	Electrical Circuits + Laboratory	3
MECH2232	Manufacturing Processes for ME	2
MECH2104	Machine Shop	1
GSOC2303	General Psychology (Indv & Soc)	3
	Total	18

SEMESTER V

CODES	COURSE TITLE	CREDITS
MECH3313	Engineering Analysis	3
MECH3312	Introduction to Fluid Mechanics	3
MECH3309	Mechanical Behavior of Engineering Materials	3
MECH3310	Fundamentals of Materials for Engineers	3
MECH3111	Mechanics of Materials Laboratory	1
GHUM1301	Pancasila (Trad and Cultr)	3
ENGR3303	Environmental Ethics (Indv & Soc)	3
	Total	19

SEMESTER VI

CODES	COURSE TITLE	CREDITS
MECH3317	Dynamics of Machines	3
MECH3315	Engineering Component Design	3
MECH3233	Mechatronics & Laboratory	2
MECH3318	Numerical Methods	3
MECH3316	Instrumentation Laboratory	3
MECH3234	Mechanical Design Project	2
IENG3310	Technical Writing	3
	Total	19

SUMMER

CODES	COURSE TITLE	CREDITS
STEM4301	Internship	3
	Total	3

SEMESTER VII

CODES	COURSE TITLE	CREDITS
STEM4302	Senior Capstone I	3
MECH4125	Senior Colloquium	1
MECH4321	Control System Design	3
MECH4319	Heat Transfer	3
MECH4320	Intermediate Thermodynamics (Tech. El. Course)	3
MECH4226	Senior Mechanical Laboratory	2
GSOC2304	Social Problems (Indv & Soc)	3
	Total	18

SEMESTER VIII

CODES	COURSE TITLE	CREDITS
STEM4303	Senior Capstone II	3
MECH4324	Mechanical Vibrations	3
MECH4329	Planar Multibody Dynamics with Applications (Tech. El. Course)	3
MECH4327	Additive Manufacturing (Tech. El. Course)	3
GHUM1306	Basic Fundamentals of Drawing (art and humanity)	3
	Total	15

TOTAL CREDIT HOURS FOR DEGREE PROGRAM

148

ME TECHNICAL ELECTIVES

MECH4323	Vehicle Dynamics	3	MECH4322	HVAC System Design	3
MECH4328	Finite Element Analysis with ANSYS	3	MECH4331	Numerical Methods in Fluid Mechanics & Heat Transfer	3
MECH4327	Additive Manufacturing	3	MECH4330	Renewable Energy	3
MECH4320	Intermediate Thermodynamics	3	MECH4329	Planar Multibody Dynamics with Applications	3