Degree Plan Chart for Mechanical Engineering (New-ME) Revised 29 October, 2020

Total Credit Hours: 128

NAME: _____

ID No.: _____

KEY

- Pre-Requisites
- Co-Requisites
- Credit Hours
- General Education Requirements
- Core Requirements
- Elective Requirements
- Technical Training

FRESHMAN YEAR

18 hrs.

CHEM 101 General Chemistry (4)	ENGL 101 Intro. to Acad. Discourse (3)	MATH 101 Calculus I (4)	PHYS 101 General Physics I (4)	IAS 121 Language Foundation (2)	PE 101 Health & Physical Edu. I (1)

16 hrs.

ENGL 102 Intro. to Report Writing (3)	ICS 104 Intro. to Prog. in Python & C (3)	MATH 102 Calculus II (4)	PHYS 102 General Physics II (4)	IAS 111 Belief & its Consequences (2)	
ENGL 101		MATH 101	PHYS 101		

SOPHOMORE YEAR

16 hrs.

CE 202 Statics & Strength of Materials (3)	MATH 201 Calculus III (3)	ME 203 Thermodynamics I (3)	ME 210 ME Drawing and Graphics (3)	ME 216 Mat. Sci. & Eng. (3)	ME 217 Mat. Sci. & Eng. Lab (1)
PHYS 101	MATH 102	MATH 102, PHYS 102		CHEM 101, MATH 102	

17 hrs.

ENGL 214 Academic & Professional Communication (3)	ISE 291 Intro. to Data Science (3)	MATH 202 Elements of Differential Equations (3)	ME 201 Dynamics (3)	ME 204 Thermodynamics II (3)	ME 218 Intro. ME Design (2)
ENGL 102	ICS 104, MATH 102	MATH 102	CE 202	ME 203	ME 210, PHYS 102

JUNIOR YEAR

17 hrs.

COE 292 Intro. to Artificial Intelligence (3)	EE 234 EE Principles & Applications (3)	EE 235 EE Principles & Applications Lab (1)	ME 301 Machine Design I (3)	ME 311 Fluid Mechanics (3)	ME 322 Manufacturing Processes (3)	ME 323 Manufacturing Lab (1)
ISE 291	MATH 102, PHYS 102		CE 202, ME 218	MATH 201, ME 201, ME 203	ME 210, ME 216, ME 217	

17 hrs.

BUS 200 Business & Entrepreneurship (3)	CGS 392 Career Essentials (1)	IAS 212 Professional Ethics (2)	STAT 319 Prob. & Stat. for Engineers (3)	ME 302 Machine Design II (3)	ME 303 Mechanical System Design Lab (1)	ME 315 Heat Transfer (3)	ME 316 Thermo-Fluids Lab (1)
		IAS 111	MATH 102	ME 301		ME 204, ME 311	

SUMMER

ME 399 Summer Training (0)
BUS 200, ENGL 214, ME 204

SENIOR YEAR

14 hrs.

MATH 371 Intro. Numerical Methods (3)	ME 401 System Dynamics & Control (3)	ME 402 Measurements & Control Lab (1)	ME 411 Senior Design Project I (1)	ME 4XX ME Elective I (3)	ME 4XX ME Elective II (3)
MATH 201	EE 234, EE 235, MATH 202, ME 315		BUS 200, ME 315 Co-Req: ME 302, ME 303		

13 hrs.

GS XXX General Studies Elective (3)	IAS XXX Islamic/Arabic Elective (2)	ME 412 Senior Design Project II (2)	ME 4XX ME Elective III (3)	XE XXX Technical Elective (3)
	IAS 212	ME 411		