

Course Guideline

Automotive Design and Manufacturing Engineering (ADME) Program

(Apply for student ID 56-60)

FIRST SEMESTER

Year 1/1

- ☐ 2190101 COMP PROG
- ☐ 2190151 COMP PROG LAB
- ☐ **2301107 CALCULUS I (1A)**
- ☐ 2302103 GEN CHEM LAB
- ☐ 2302105 CHEM ENGS
- ☐ 2304153 PHYSICS ENGS
- ☐ 2304193 PHYSICS LAB ENGS
- ☐ **5501112 COMM ENG I (2A)**

Year 2/1

- ☐ **2142251 MFG AUTO ENG I (3A)**
- ☐ **2183212 STATICS (4A)**
- ☐ 2183221 THERMODYNAMICS
- ☐ 2183271 AUTO ENG WORKSHOP
- ☐ 2183281 INTRO AUTO ENG
- ☐ 2184201 PROB STAT AUTO ENG
- ☐ **2301312 DIFF EQUATIONS (1C)**

Year 3/1

- ☐ **2182310 ELEC INSTR AUTOM (5B)**
- ☐ **2183222 FLUID MECH (7A)**
- ☐ 2183261 MECH ENG LAB
- ☐ 2183272 AUTO INSTR LAB
- ☐ 2183331 MECH MAC
- ☐ 2184302 PROD DEV PROC
- ☐ **5501225 TECH WRIT (2C)**
- SUMMER ☐ 2140301 INDUS TRAINING

Year 4/1

- ☐ 2142498 AUTO ENG PREPROJ
- ☐ 2183322 INT COMBN ENG
- ☐ 2183352 MOTOR VEH DSGN
- ☐ APPROVED ELECTIVE
- ☐ APPROVED ELECTIVE
- ☐ GENERAL EDUCATION
- ☐ GENERAL EDUCATION
- ☐ FREE ELECTIVE

Note

- **co-Xa** is a co-requisite subject for Xa. If you take/drop/withdraw Xa subject, you have to take/drop/withdraw co-Xa.
- **Xa** is a prerequisite subject for Xb and xb is also a prerequisite subject for Xc. (Example: Have to pass 2a before register 2b)

SECOND SEMESTER

Year 1/2

- ☐ 2140111 EXPL ENG WORLD
- ☐ 2183101 ENG GRAPHICS
- ☐ 2189101 ENG MAT
- ☐ **2301108 CALCULUS II (1B)**
- ☐ 2304154 PHYS ELEC ENGS
- ☐ 2304194 PHYS ELEC LAB ENGS
- ☐ **5501123 COMM ENG II (2B)**

Year 2/2

- ☐ 2142201 ENG FIRST
- ☐ **2142252 MFG AUTO ENG II (3B)**
- ☐ **2182210 ELEC CIRC (5A)**
- ☐ 2182213 ELEC CIRC LAB
- ☐ **2183213 MECH MAT (4B)**
- ☐ **2183231 DYNAMICS (6A)**
- ☐ **5501214 COM PRES SKIL (2C)**

Year 3/2

- ☐ **2142424 VEH DYNAMICS (6B)**
- ☐ **2183321 HEAT TRANSFER (7B)**
- ☐ 2183332 CAD/CAM/CAE
- ☐ 2183351 MECH ENG DSGN
- ☐ 2184303 ENG MGT
- ☐ GENERAL EDUCATION

Year 4/2

- ☐ 2142499 AUTO ENG PROJECT
- ☐ APPROVED ELECTIVE
- ☐ GENERAL EDUCATION
- ☐ FREE ELECTIVE

(Total Credits for graduation 147)

Course Guideline
Aerospace Engineering (AERO) Program
(Apply for student ID 56-60)

FIRST SEMESTER

Year 1/1

- ☐ 2190101 COMP PROG
- ☐ 2190151 COMP PROG LAB
- ☐ **2301107 CALCULUS I (1A)**
- ☐ 2302103 GEN CHEM LAB
- ☐ 2302105 CHEM ENGS
- ☐ 2304153 PHYSICS ENGS
- ☐ 2304193 PHYSICS LAB ENGS
- ☐ **5501112 COMM ENG I (2A)**

Year 2/1

- ☐ 2145211 INTRO AERO ENG
- ☐ 2183211 ENG MECH
- ☐ **2183221 THERMODYNAMICS (3A)**
- ☐ **2301215 MULTIVAR CALCULUS (1C)/ (4A)**
- ☐ **2301216 LIN ALG DIFFL EQ (1C)**
- ☐ **5501213 TECH COMM I (5A)**

Year 3/1

- ☐ **2145311 AERODYNAMICS I (7B)**
- ☐ **2145321 AIR STRUC (9A)**
- ☐ **2145324 MOD CTRL DYNAM SYS (10A)**
- ☐ **2145361 AERO ENG LAB I (11A)**
- ☐ 2183381 NUM METH ENG
- ☐ **5501315 TECH COMM III (5C)**
- ☐ GENERAL EDUCATION
- SUMMER ☐ 2140301 INDUS TRAINING

Year 4/1

- ☐ **2145363 AERO ENG LAB III (11C)**
- ☐ **2145402 AIR PROPULSION (3B), (7B)**
- ☐ **2145451 AIR DSGN (6B)**
- ☐ **5501417 TECH COMM V (5E)**
- ☐ APPROVED ELECTIVE
- ☐ GENERAL EDUCATION

SECOND SEMESTER

Year 1/2

- ☐ 2140111 EXPL ENG WORLD
- ☐ 2183101 ENG GRAPHICS
- ☐ 2189101 ENG MAT
- ☐ **2301108 CALCULUS II (1B)**
- ☐ 2304154 PHYS ELEC ENGS
- ☐ 2304194 PHYS ELEC LAB ENGS
- ☐ **5501123 COMM ENG II (2B)**

Year 2/2

- ☐ **2145221 INTRO AIR DESIGN (6A)**
- ☐ 2145230 AIR ELEC
- ☐ 2145290 AERO ENG SEM I
- ☐ **2182203 PROB STAT ENGS (1C)**
- ☐ **2183222 FLUID MECH (7A)**
- ☐ **2183231 DYNAMICS (8A)**
- ☐ **2301317 METH APP MATH (4B)**
- ☐ **5501224 TECH COMM II (5B)**

Year 3/2

- ☐ **2145312 AERODYNAMICS II (3B), (7C)**
- ☐ **2145322 AIR STRUC II (9B)**
- ☐ **2145325 FLIGHT MECH (8B), (10B)**
- ☐ **2145362 AERO ENG EXP LAB II (11B)**
- ☐ 2145390 AERO ENG SEM II
- ☐ **5501326 TECH COMM IV (5D)**
- ☐ GENERAL EDUCATION

Year 4/2

- ☐ 2145490 AERO ENG SEM III
- ☐ 2145499 AERO ENG PROJ
- ☐ APPROVED ELECTIVE
- ☐ FREE ELECTIVE
- ☐ FREE ELECTIVE
- ☐ GENERAL EDUCATION

Note

- **Xa** is a prerequisite subject for Xb and Xb is also a prerequisite subject for Xc. (Ex: Have to pass 2a before register 2b)

(Total Credits for graduation 146)

Course Guideline

Information and Communication Engineering (ICE) Program

(Apply for student ID 56-60)

FIRST SEMESTER

Year 1/1

- ☐ **2190101 COMP PROG (1A)**
- ☐ 2190151 COMP PROG LAB
- ☐ **2301107 CALCULUS I (2A)**
- ☐ 2302103 GEN CHEM LAB
- ☐ 2302105 CHEM ENGS
- ☐ 2304153 PHYSICS ENGS
- ☐ 2304193 PHYSICS LAB ENGS
- ☐ **5501112 COMM ENG I (3A)**

Year 2/1

- ☐ 2143101 INTRO ICE
- ☐ **2182202 ADV MATH METH (2C)**
- ☐ **2182211 ELEC CIR ICE (4B)**
- ☐ **2182212 CIR DIG ELEC LAB (co-4B)**
- ☐ **2190102 ADV COMP PROG (1B)/ (5A)**
- ☐ **2190152 ADV COMP PROG LAB**
- ☐ 2190200 DISCRETE STRUC
- ☐ GENERAL EDUCATION

Year 3/1

- ☐ 2182370 INTRO DIG COMM
- ☐ 2182371 PRIN DATA COMM
- ☐ 2184301 ENG ECON APP
- ☐ **2190213 PRIN INFO SYS (5B)**
- ☐ **2190472 NETCENT ARCH (1B)**
- ☐ **5501214 COM PRES SKIL (3C)**
- SUMMER ☐ 2140301 INDUS TRAINING

Year 4/1

- ☐ **2143491 ICE PREPROJ (8A)**
- ☐ 2190415 ENT INFO SYS
- ☐ APPROVED ELECTIVE
- ☐ APPROVED ELECTIVE
- ☐ FREE ELECTIVE
- ☐ GENERAL EDUCATION

SECOND SEMESTER

Year 1/2

- ☐ 2140111 EXPL ENG WORLD
- ☐ 2183101 ENG GRAPHICS
- ☐ 2189101 ENG MAT
- ☐ **2301108 CALCULUS II (2B)**
- ☐ **2304154 PHYS ELEC ENGS (4A)**
- ☐ 2304194 PHYS ELEC LAB ENGS
- ☐ **5501123 COMM ENG II (3B)**

Year 2/2

- ☐ 2182203 PROB STAT ENG
- ☐ **2182204 SIG LIN SYS (2D)**
- ☐ 2184202 TECH ENG MGT
- ☐ **2190221 FUND DS ALG (6A)**
- ☐ 2190250 COMP ARCH ORG
- ☐ **2190261 FUND DS ALG LAB (co-6A)**
- ☐ GENERAL EDUCATION

Year 3/2

- ☐ 2143399 ICE CAPSTONE
- ☐ 2182372 PRIN TELECOMM
- ☐ 2184304 FUND OM
- ☐ **2190422 DATABASE SYS (7A)**
- ☐ 2190423 SOFTWARE ENG
- ☐ **2190462 DATABASE SYS LAB (co-7A)**
- ☐ **5501225 TECH WRIT (3C)**
- ☐ GENERAL EDUCATION

Year 4/2

- ☐ **2143499 ICE PROJECT (8B)**
- ☐ APPROVED ELECTIVE
- ☐ APPROVED ELECTIVE
- ☐ APPROVED ELECTIVE
- ☐ FREE ELECTIVE
- ☐ GENERAL EDUCATION

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- **co-Xa** is a co-requisite subject for Xa. If you take/drop/withdraw Xa subject, you have to take/drop/withdraw co-Xa.
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(Total Credits for graduation 146)

Course Guideline
Nano Engineering (NANO) Program
(Apply for student ID 56-59)

FIRST SEMESTER

Year 1/1

- ☐ 2190101 COMP PROG
- ☐ 2190151 COMP PROG LAB
- ☐ 2301107 CALCULUS I (1A)
- ☐ 2302103 GEN CHEM LAB (2A)
- ☐ 2302105 CHEM ENGS (3A)
- ☐ 2304153 PHYSICS ENGS
- ☐ 2304193 PHYSICS LAB ENGS
- ☐ 5501112 COMM ENG I (4A)

Year 2/1

- ☐ 2182201 MATH NANO (1C)
- ☐ 2182210 ELEC CIRC (5B)
- ☐ 2183211 ENG MECH
- ☐ 2189201 INTRO MAT SCI ENG
- ☐ 2303111 BIO ENG
- ☐ 2303112 BIOLOGY LAB ENGR
- ☐ 5501214 COM PRES SKIL (4C)

Year 3/1

- ☐ 2182311 MST INSTR (5C)
- ☐ 2185320 INORG CHEM NANO ENG
- ☐ 2189341 MAT CHARN
- ☐ 2189336 MAT DLY LIFE
- ☐ APPROVED ELECTIVE
- SUMMER ☐ 2140301 INDUS TRAINING

Year 4/1

- ☐ 2141491 RES METHODO
- ☐ 2141498 NANO PREPROJ
- ☐ APPROVED ELECTIVE
- ☐ APPROVED ELECTIVE
- ☐ APPROVED ELECTIVE
- ☐ GENERAL EDUCATION
- ☐ FREE ELECTIVE

SECOND SEMESTER

Year 1/2

- ☐ 2140111 EXPL ENG WORLD
- ☐ 2183101 ENG GRAPHICS
- ☐ 2189101 ENG MAT
- ☐ 2301108 CALCULUS II (1B)
- ☐ 2304154 PHYS ELEC ENGS (5A)
- ☐ 2304194 PHYS ELEC LAB ENGS
- ☐ 5501123 COMM ENG II (4B)

Year 2/2

- ☐ 2182203 PROB STAT ENG (1C)
- ☐ 2182213 ELEC CIRC LAB
- ☐ 2182280 SEMICONDEVI I
- ☐ 2185220 BSC ORG CHEM (3B)
- ☐ 2185221 ORG CHEM LAB (2B)
- ☐ 2185222 PHYS CHEM NANO
- ☐ 5501225 TECH WRIT (4C)

Year 3/2

- ☐ 2184303 ENG MGT
- ☐ 2185322 THERMO NANO
- ☐ 2185333 TRANS PHENOM
- ☐ GENERAL EDUCATION
- ☐ APPROVED ELECTIVE

Year 4/2

- ☐ 2141490 NANO SEM
- ☐ 2141499 NANO ENG PROJ
- ☐ APPROVED ELECTIVE
- ☐ GENERAL EDUCATION
- ☐ GENERAL EDUCATION
- ☐ FREE ELECTIVE

Note

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(Total Credits for graduation 146)