

## COMPLEMENTARY ELECTIVE COURSES

AUE322	VEHICLE DYNAMICS
AUE325	MANUF. PROC. & AUT. PRODUCTION
AUE326	ENGINES AND COMBUSTION
AUE328	POWER TRANSMISSION SYST.
AUE421	VEHICLE DESIGN & CAD
AUE425	MECHATRONICS FOR AUT.ENG.
BME302	Introduction to Biomaterials
BME322	Biomedical Instrumentation II
BME354	Biosignal Processing
CE202	Strength of Materials II
CE311	Structural Analysis I
CE312	Structural Analysis II
CE323	Hydrology and Water Resources
CE332	Foundation Engineering
CE351	Introduction to Transport Engineering
CE358	Railway Engineering
CE362	Reinforced Concrete
CE379	Construction Management and Site Techniques
CSE252	Human Computer Interaction
CSE300	Internet and Web Programming
CSE301	Object Oriented Programming with Java
CSE304	Principles of Programming Languages
CSE312	Analysis of Algorithms
CSE322	Database Systems
CSE330	Operating Systems
CSE332	Operating Systems
CSE340	Distributed Computing
CSE341	Computer Organization
CSE342	Microprocessors
CSE380	Special Project in Computer Engineering
CSE400	Software Engineering
CSE415	Theory of Computation
CSE431	Computer Networks
CSE432	Computer and Network Security
CSE436	Communication Network Applications.
CSE450	Computer Graphics
CSE452	Human Computer Interaction
CSE482	Special Topics (Advanced Java Programming)
CSE483	SPECIAL TOPICS ON MOBILE APPLICATION DEVELOPMENT
CSE485	Special Topics (Data Mining)
CSE486	Special Topics (Introduction to Wireless Sensor Networks)
CSE488	Special Topics (Robotics)
CSE501	Advanced Software Engineering
CSE513	Advanced Algorithms
CSE530	Information Systems Security and Cryptography
CSE561	Advanced Natural Language Processing
CSE566	Machine Learning

CSE567	Image Processing
CSE582	Special Topics (Bioinformatics)
EE302	ELECTROMECHANICAL ENERGY CONVERSION
EE330	Electronics I
EE331	Electronics II
EE335	Electronics
EE350	Signals and Systems
EE352	System Dynamics and Control
EE354	Digital Signal Processing
EE361	Electromagnetic Theory
EE362	Electromagnetic Waves
EE370	Introduction to Communication Systems
EE404	ENERGY DISTRIBUTION SYSTEMS
EE441	Digital Electronics
EE444	Microcontroller Based System Design and Control
EE451	Digital Signal Processing
EE453	Introduction to Image Processing
EE461	Microwave Engineering
EE471	Communication Engineering I
EE472	Communication Engineering II
EE474	Communication Simulation Tech & Lab
EE482	Special Topics (Introduction to Biomedical Engineering)
EE483	DIGITAL CONTROL ENGINEERING
EE484	Special Topics (Multimedia Processing & Communications)
EE487	SPECIAL TOPICS (CIRCUIT SYNTHESIS)
EE488	Special Topics (Applied Speech and Audio Signal Processing)
EE501	Probability and Stochastic Processes
EE584	Special Topics (Digital Video Processing)
EE585	Special Topics (DSP Architecture, Programming and Applications)
EE586	Special Topics (Speech and Audio Signal Processing)
IE242	Engineering Economy
IE301	Operations Research I
IE302	Operations Research II
IE303	System Simulation
IE306	Fundamentals of Operations Research
IE312	Production & Service Operations Planning
IE321	Industrial Production Systems
IE334	Quality Planning and Control
IE351	Forecasting Methods
IE402	Operations Research III
IE403	OR Modelling Applications
IE412	Facilities Design Planning
IE413	Supply Chain Management
IE481	Special Topics (Reliability)
IE482	Special Topics (Pricing and Revenue Optimization)
IE483	Special Topics (Logistics Systems)
IE484	Special Topics (Decision Support Systems)
IE486	Special Topics VI (Energy Policy, Planning and Markets)
MAN342	New Product Development
MAN351	Production Management

MAN372	Total Quality Management
MAN492	Special Topics (Management for Engineers)
MATH302	Numerical Methods
MATH321	Partial Differential Equations
MATH323	Calculus of Variations
MATH324	Methods of Applied Mathematics I
MATH352	Math.Theory of Elasticity
MATH441	Introduction to Modern Algebra
MATH451	Math. Theory of Fluids
MATH462	Introduction to Topology
MCE401	Mechatronic System Design
MCE452	DIGITAL CONTROL
MCE453	FUZZY LOGIC CONTROL SYSTEMS
MCE460	FUZZY LOGIC CONTROL SYSTEMS
ME_C-I	FUZZY LOGIC CONTROL SYSTEMS
ME346	MACHINE THEORY
ME423	Machine Design II
ME425	Mechanical Vibrations
ME427	Introduction to Robotics
ME429	Manufacturing Engineering
ME435	Mechatronics
ME436	Modern Control Theory
ME455	Applied Fluid Mechanics
ME460	Energy Systems
ME482	SPECIAL TOPICS (INDUSTRIAL AUTOMATION)
ME491	Special Topics (Materials Selection for Design)
PHYS333	Quantum Mechanics I
PHYS334	Quantum Mechanics II
PHYS343	Classical Mechanics
PHYS344	Statistical and Thermal Physics
PHYS485	Photonics
PHYS486	Special Topics (Intro Plasma Physics)
PHYS487	Special Topics
SE302	Software Development Practice
STS481	Special Topics (Innovation Management)
STS484	Special Topics (From Creativity to Entrepreneurship)