

College of Engineering and Technology Specialized Courses

Courses	Module	Course Number
Basic and applied science courses	Physics Chemistry Mathematics Mechanics	BA 113 & BA 114 BA 118 BA 123, BA 124, BA 223, BA 224, BA 323, BA 327 BA 141 & BA 142
Electronic and communications courses	Data acquisition system Digital Electronics and processors Electronics	CC 415 CC 442 EC 238, EC 339
Industrial and management engineering courses	Industrial Relations Manufacturing Technology Operations Research International Operations Management	IM 111 IM 112 IM 423 IM 535
Language, humanities and social sciences	Scientific Thinking Engineering Economy Management of energy resources	NE 264 NE 364 NE 467
Mechanical engineering courses	Steam plants engineering Thermal plant engineering Power plant analysis and design Power plant operation and management Renewable energy resources Power Plant Measurement & Control Thermodynamics Thermo fluids Heat Transfer Refrigeration & Air conditioning Refrigeration Applications Air Conditioning Applications Energy management Refrigeration Equipment & Control Air Conditioning Units & Control Refrigeration Plant Design & Selection A/C Systems, Design & Selection Cryogenic Systems Experimental Methods Maintenance Planning Engineering Drawings & Projection Mechanical Engineering Drawing Computer Aided Drafting Theory of Machines Machine Design Machine Design Computer Aided Design Mechanical Vibration Material Handling Equipment Hydraulics Fluid Mechanics Hydraulic Systems Computational Fluid Dynamics Turbomachinery Materials Science Stress Analysis Strength of Materials Internal Combustion Engines Automotive Technology Alternative Fuels and Power Systems Automotive fuel and Ignition Systems Automotive Chassis Systems Vehicle Control and Safety Systems Automotive Electric & Electronic Systems	ME 423 ME 520 ME 522 ME 523 ME 524 ME 526 ME 231, ME 232 & ME 234 ME 234 ME 431 ME 434 ME 532 ME 533 ME 534 ME 535 ME 536 ME 537 ME 538 ME 539 ME 241 ME 542 ME 151 ME 252 ME 255 ME 355 ME 356 & ME 357 ME 454 ME 455 ME 458 ME 555 ME 362 ME 461 ME 464 ME 465 ME 565 ME 274 ME 276 ME 277 ME 381 & ME 382 ME 481 & ME 482 ME 483 ME 581 ME 582 ME 583 ME 584

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	Automotive Power Trains Vehicle Design and Engineering Automotive Manufacturing Vehicle Maintenance & Repair Mechatronics Mechatronics Systems Electromechanical Systems Robotics and Applications	ME 585 ME 586 ME 587 ME 588 ME 591 ME 592 ME 593 ME 594
Humanity, languages and non engineering courses	Scientific Thinking Environmental science and technolog	NE 264 NE 466
Electrical and control engineering courses	Electrical Measurements and Instrumentation Fundamentals of Control Engineering Control Systems Microprocessor Based Process Control Discrete Control Systems Automated Industrial Systems Control Application in Power Engineering Robotics Computer Control of Dynamic Systems Modern control systems Optimal and Adaptive Control Electrical Machines Power Electronic Electrical Drives Special Electrical Machines Electrical Circuits Electric & Magnetic Field EE 332- Network Analysis Electric Power Stations Introduction to Power Engineering Power System Power System Protection Electrical Power Stations Electrical Power Distribution High Voltage Engineering Electrical Engineering Materials Utilization of Electrical Energy Design of Electrical and Electromechanical Systems for Commercial and Industrial Installations	EE 211 EE 311, EE 312 EE 411, EE 412 EE 413 EE 511 EE 512, EE 518 EE 513 EE 514 EE 515 EE 516 EE 517 EE 321, EE 322, EE 422 EE 421, EE 423 EE 424 EE 521, EE 522 EE 231, EE 232 EE 331 EE 332 EE 333 EE 341 EE 342, EE 441, EE 544 EE 442, EE 541 EE 542 EE 543 EE 545 EE 546 EE 547 EE 548
Computer engineering courses	Introduction to Computer Science Structure programming Programming Applications Digital Logic Design Introduction to Microprocessors	CC 111 CC 112 CC 213 CC 216 CC 411