ACHARYA INSTITUTE OF TECHNOLOGY

Department of Mechatronics Engineering

Bengaluru-560107

COURSE OUTCOMES

DEPARTMENT	**MT**	**SEMESTER**	**3**	**COURSE CODE**	**17MT32**	**COURSE ID**	**C202**
COURSE TITLE	**Material Science and Technology**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C202.1	Describe the mechanism of various Metallurgical processes and manufacturing processes of composite materials and working of smart sensors.						
C202.2	understand the mechanism of various Metallurgical process & manufacturing process of composite materials & working of smart sensors,.						
C202.3	application of metallurgical process, production process of composite & working principle of smart sensor for various engineering solutions.						
DEPARTMENT	**MT**	**SEMESTER**	**3**	**COURSE CODE**	**17MT33**	**COURSE ID**	**C203**
COURSE TITLE	**Mechanics of Materials**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C203.1	Describe the concepts of stress, strain, Deformation and assumption in beams, columns and shafts.						
C203.2	Apply concepts to calculate the stresses, strains and strain energy in Bars,Beams, Shafts and Columns.						
C203.3	Calculate the stresses and strains for plane stress condition analytically and graphically for structural members.						
C203.4	Analyse shear forces, Bending moments, bending and shear stress in beams.						
C203.5							
DEPARTMENT	**MT**	**SEMESTER**	**3**	**COURSE CODE**	**17MT34**	**COURSE ID**	**C204**
COURSE TITLE	**CONTROL SYSTEM**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C204.1	Demonstrate the concepts of Control systems and its Specifications for mathematical modeling, feedback control and stability analysis in Time and Frequency domains						
C204.2	Express and solve system equations in state-variable form (state variable models), Identify open and closed loop control system to Solve Signal Flow graph and reduction of Block diagram						
C204.3	Apply root-locus and Routh–Hurwitz stability criterion technique to analyze and design control systems						
C204.4	Determine the time and frequency-domain responses of first and second-order systems to step and sinusoidal (and to some extent, ramp) inputs.						
C204.5	Formulate mathematical modeling of physical systems(Mechanical and Electrical System)						

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DEPARTMENT	MT	SEMESTER	3	COURSE CODE	17MT35	COURSE ID	C205
COURSE TITLE	Analog and Digital Electronics						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C205.1	1.Have knowledge of Analog & Digital Electronic Circuits.						
C205.2	2.Understand the characteristics & operation of Electronic Circuits.						
C205.3	3.Formulate the relations for Voltage Gain ,Frequency of Various Electronics Circuits.						
C205.4	4.Design the Electronics Systems for Required Specifications.						

DEPARTMENT	MT	SEMESTER	3	COURSE CODE	17MT36	COURSE ID	C206
COURSE TITLE	COMPUTER ORGANISATION						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C202.1	to describe of architectural concepts of computer and machine instructions. different addressing						
C202.2	analyze the memory subsystems , various I/O devices and interfacing circuits.						
DEPARTMENT	MT	SEMESTER	3	COURSE CODE	15MTL37	COURSE ID	C207
COURSE TITLE	MECHANICAL LAB-01						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C203.1	Demonstrate how to conduct/operate material testing experiments. Demonstrate milling and shaper operation.						
C203.2	Perform machining operations on lathe to produce the model. Taper turning calculation and gear setting for thread cutting.						
C203.3	Determine the mechanical properties of given materials such as Young's modulus, rigidity modulus, Bulks modulus, ultimate strength by conducting tensile, compression, torsion, and bending experiments.						
C203.4	Determine hardness, and toughness of given material by conducting hardness and impact test						
C203.5							
DEPARTMENT	MT	SEMESTER	3	COURSE CODE	15MTL38	COURSE ID	C208
COURSE TITLE	Analog And Digital Electronics Lab						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C203.1	Demonstrate the operation of wave shaping networks, amplifiers & clampers.						

C203.2	Analyze the performance of 555 timers as monostable & astable multivibrators.
C203.3	Design the oscillator & multivibrators for desired frequency.
C203.4	construct the combinational & sequential circuits for real time applications

COURSE OUTCOMES

DEPARTMENT	**MT**	**SEMESTER**	**4**	**COURSE CODE**	**15MT42**	**COURSE ID**	**C212**
COURSE TITLE	**Fluid Mechanics and Machines**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C202.1	Describe concept of turbomachines, fluid at statics and motion.						
C202.2	Measurement of fluid flow through pipe and open channel.						
C202.3	Determine the properties of fluid and their effect. Determine the performance of hydraulic turbines & steam turbines.						
C202.4	Analize kinematics and dynamics of fluid flow.						
C202.5	Classification of fluid types, fluid flow, and turbomachines. Dimensional analysis of turbomachines.						
DEPARTMENT	**MT**	**SEMESTER**	**4**	**COURSE CODE**	**17MT43**	**COURSE ID**	**C213**
COURSE TITLE	**Microcontroller**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C203.1	Describe the architecture of 8051 Microcontroller, microprocessor and internal memory organization, types of memory architecture , Concept of Addressing modes and Assembly and C instruction set .als.						
C203.2	Apply various instruction set of assembly and C language for different software and hardware applications .						
C203.3	Calculate time delays ,baud rates and analyze Timer . Counter operation and Transmission of data serially for different modes of operation						
C203.4	Design the hardware interface between microcontroller, memories of different sizes and external peripherals.						
DEPARTMENT	**MT**	**SEMESTER**	**4**	**COURSE CODE**	**17MT44**	**COURSE ID**	**C214**
COURSE TITLE	**Manufacturing Technology**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C204.1	Understand the principles and techniques of casting, forging, rolling & drawing.						
C204.2	Apply the knowledge of metal working process						
C204.3	To express the different techniques of joining processes for metal & non metals.						
C204.4	Understanding and applying knowledge to execute CNC machining programs.						
DEPARTMENT	**MT**	**SEMESTER**	**4**	**COURSE CODE**	**15MT45**	**COURSE ID**	**C215**

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COURSE TITLE	Theory of Machines
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**
C205.1	Describe the concepts of Link, Kinematic pairs, Degrees of freedom, Mobility of Mechanisms, Inversion, Machine, Gear terminology, law of gearing, Types of cams, Types of followers, Displacement, Velocity and, Acceleration time curve for cam profiles, Effect of Gyroscopic Couple on Ship, Plane Disc, Aircraft, Stability of Two Wheelers, Types of governors.
C205.2	Determine mobility, power loss due to friction in various machine elements, balancing mass and its position, stability of a governor
C205.3	Calculate stability of a governor and effect of gyroscopic couple on plane disk, Aircraft, stability of two wheelers and ship.
C205.4	Construct of different types of cam profiles for a given data

DEPARTMENT	MT	SEMESTER	4	COURSE CODE	17MT46	COURSE ID	C210
COURSE TITLE	**Instrumentation and Measurements**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C202.1	apply knowledge of Instrumentation to measure Strain, Pressure, Force, Displacement, and Level.						
C202.2	Use their skill set to measure resistance, Capacitance and Inductance using various bridge control circuits.						
C202.3	Choose various transducers to measure different physical quantities.						
C202.4	Analyze the Static and Dynamic Characteristics and Various Measurement instruments.						
DEPARTMENT	**MT**	**SEMESTER**	**4**	**COURSE CODE**	**15MTL47**	**COURSE ID**	**C217**
COURSE TITLE	**Mechanical Lab – II**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C203.1	Select the type of turbine required with reference to available head of water and discharge.						
C203.2	Determine the coefficient of discharge of flow measuring devices and performance of turbi						
C203.3	Design pneumatic circuit for various industrial applications.						
C203.4	Apply principles of fluid mechanics, machines, and pneumatics.						
C203.5							
DEPARTMENT	**MT**	**SEMESTER**	**4**	**COURSE CODE**	**17MTL48**	**COURSE ID**	**C218**
COURSE TITLE	**Microcontroller Lab**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C203.1	develop an interface between 8051 and external peripherals for various applications using C Assembly Programming						
C203.2	Design microcontroller based circuits for real time applications						
C203.3	Develop a microcontroller program for industrial applications						

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DEPARTMENT	MT	SEMESTER	5	COURSE CODE	15MT51	COURSE ID	C301
COURSE TITLE	Design of machine elements						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C311.1	Illustrate the design phases, selection of materials, effect of stresses, stress concentration, Factor of safety, Codes and Standards and Theories of failure.						
C311.2	Determine the stress in the machine elements like power screws, shafts, keys, couplings, joints, gears and bearings.						
C311.3	Calculate the geometry, stresses in machine elements like clamps and crank pin under various loading conditions.						
C311.4	Design the Keys, Couplings, Joints, Transmission shafts, Spur and helical Gears: and Journal Bearings.						
C311.5							
DEPARTMENT	MT	SEMESTER	5	COURSE CODE	15MT52	COURSE ID	C302
COURSE TITLE	VIRTUAL INSTRUMENTATION						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C312.1	.Understand the structured Lab VIEW programming concepts in developing Virtual Instrumentation.						
C312.2	Build applications employed in various debugging techniques, simulating and analyzing the data and use general purpose interface bus and Serial communication Interface.						
C312.3	Create applications that use plug in DAQ boards and built in analysis functions to process the data.						
C312.4	Design and analyze various applications on Real time monitoring using DAQ boards						
DEPARTMENT	MT	SEMESTER	5	COURSE CODE	15MT53	COURSE ID	C313
COURSE TITLE	Hydraulics and Pneumatics						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C313.1	have knowledge of Hydraulic and pneumatic system						
C313.2	understand the basics of control components of hydraulic system						
C303.3	understand different applications of hydraulics						
C303.4	design the hydraulic circuits for specific applications and analyze the hydraulic circuits.						
DEPARTMENT	MT	SEMESTER	5	COURSE CODE	15MT54	COURSE ID	C304
COURSE TITLE	Micro and Smart Systems Technology						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C304.1	Demonstrate the working methodology of smart materials, microsystems, electronics circuitry in MEMS devices.						

C304.2	Illustrate the process of silicon wafer preparation,thin film deposition techniques ,lithography, etching ,bulk & surface micromachining involved in MEMS fabrication.
C304.3	Examine the behaviour of piezoresistive & piezoelectric materials required to fabricate pressure sensor & vibration control structures.
C304.4	Measure the performance of pressure sensor & vibration control structure in real time applications.

COURSE OUTCOMES

DEPARTMENT	**MT**	**SEMESTER**	**5**	**COURSE CODE**	**15MT551**	**COURSE ID**	**C305**
COURSE TITLE	**Wireless Networks & Communication**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C305	Analyze the concepts of Different wireless communication systems , wireless networks and technologies.						
C305	Explain the working principles of WBAN, LAN,WPAN,WMAN,WWAN and different wireless technologies.						
C305	Illustrate the concepts of adhoc networks, mobile adhocs, Vanets and Mesh networks.						
C305	Explain Different issues in designing various Wireless networks and wireless communication						
DEPARTMENT	**MT**	**SEMESTER**	**5**	**COURSE CODE**	**15MT551**	**COURSE ID**	**C306**
COURSE TITLE	**Wireless networks**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C306.1	Describe the architecture of wireless communication systems and network, wireless switching technology, SNR, channel capacity, wireless networks and technologies.						
C306.2	Illustrate the concepts of adhoc networks, mobile ad hocs, Cellular networks, WLL, WSN, Vanets and Mesh networks.						
C306.3	Classify the types of wireless networks and explain the Architecture of WBAN, LAN,WPAN,WMAN,WWAN and different wireless technologies and its design issues and properties.						
DEPARTMENT	**MT**	**SEMESTER**	**5**	**COURSE CODE**	**15MTL57**	**COURSE ID**	**C307**
COURSE TITLE	**VIRTUAL INSTRUMENTATION LAB**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C307	**Develop LabVIEW programming which employs simulating and analyzing the data for real time automation**						
C307	Engage in designing, implementing, analyzing and demonstrating an application using tools available in LabVIEW through an open ended experiment.						

C307		Design applications that use plug in DAQ boards and built in analysis functions to process the data.					
DEPARTMENT	**MT**	**SEMESTER**	**5**	**COURSE CODE**	**15MTL58**	**COURSE ID**	**C308**
COURSE TITLE		**MICRO & SMART SYSTEMS TECHNOLOGY LABORATORY**					
COURSE OUTCOME NO		**COURSE OUTCOME STATEMENTS**					
C308		Analyse the behavior of Mechanical Components for various kinds of loads.					
C308		Analyse the behavior of Pressure Sensor for various kinds of Pressures applied.					

COURSE OUTCOMES

DEPARTMENT	**MT**	**SEMESTER**	**6**	**COURSE CODE**	**15MT61**	**COURSE ID**	**C311**
COURSE TITLE	**PLC AND SCADA**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C301.1	Demonstrate the concepts of basic programming skills of PLC using logical instructions						
C301.2	Apply the architecture process involved in programmable logic controller and basic programming skills of PLC using logical instructions						
C301.3	Examine the various operation involved in the PLC input/output module and SCADA system						
C301.4	Construct the ladder diagram for PLC using logical instructions, timer and counters, Data Handling instructions and Build the SCADA System for Real time industrial process.						
DEPARTMENT	**MT**	**SEMESTER**	**6**	**COURSE CODE**	**15MT62**	**COURSE ID**	**C312**
COURSE TITLE	**Embedded Systems (ARM)**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C302.1	Compare the concepts of RISC/CISC processor, ARM processor, memory management, and interrupt handlers.						
C302.2	Classify the ARM instruction set and register functions to write and optimize the basic arithmetic and logical programs						
C302.3	Classify the memory organization to understand the software performance and to allocate the memory for storing the results.						
C302.4	Illustrate the assembly code and C code programs for bit manipulation, conditional execution and interrupt handling.						
DEPARTMENT	**MT**	**SEMESTER**	**6**	**COURSE CODE**	**15MT63**	**COURSE ID**	**C313**
COURSE TITLE	**Power Electronics**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C303.1	Have a knowledge of semiconductors devices, thyristors, AC voltage controllers choppers and inverters						

C303.2	Understand the characteristics and working principle of thyristors, AC voltage controllers, choppers and inverters.						
C303.3	Apply control techniques to meet desired switching objectives.						
DEPARTMENT	**MT**	**SEMESTER**	**6**	**COURSE CODE**	**15MT64**	**COURSE ID**	**C314**
COURSE TITLE	**Computer Aided Machine Drawing**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C304.1	understanding the concepts of sections of solids, orthographic views, threads, fasteners, couplings, joints and assembly drawing						
C304.2	apply the concepts of sections of solids, orthographic views for development of product or component						
C304.3	Make use of computer aided modeling tool to create machine parts and to do assembly operation						
C304.4	design threads, fasteners, couplings and joints for engineering application						
C314.5							

DEPARTMENT	**MT**	**SEMESTER**	**6**	**COURSE CODE**	**15MT652**	**COURSE ID**	**C315**
COURSE TITLE	**Rapid Prototyping**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C315	Understanding of rapid prototyping techniques.						
C315	Explain advantages, techniques and construction of selective laser sintering, Fusion deposition Modeling, Solid Ground Curing.						
C315	Explain 3D printers, rapid tooling, software tools and their errors.						
C315	Analyze the working principle of rapid prototyping and manufacturing processes such as selective laser sintering, Fusion deposition Modeling, Solid Ground Curing, 3D printers, rapid tooling and types of softwares						
C315							
DEPARTMENT	**MT**	**SEMESTER**	**6**	**COURSE CODE**	**15MT661**	**COURSE ID**	**C316**
COURSE TITLE	**Robotics and Automation**						
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**						
C316.1	Have the knowledge of Joints, Links, Sensors, Control units, Actuators. and elements of Automation						
C316.2	Describe motions and control system of Robots						
C316.3	Have Knowledge of Basics of Automation						
C316.4	Understand Material Handling and storage applications in Automation						
DEPARTMENT	**MT**	**SEMESTER**	**6**	**COURSE CODE**	**15MTL67**	**COURSE ID**	**C317**
COURSE TITLE	**PLC AND SCADA LAB**						

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COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS
C307.1	Develop the logical instructions involved in Development of programmable logic controller for various operations
C307.2	Construct the Ladder Logic for various operation using PLC and SCADA for industrial Environment
C307.3	Design the SCADA System for the Industrial Environment.

DEPARTMENT	MT	SEMESTER	6	COURSE CODE	15MTL68	COURSE ID	C308

COURSE TITLE	Power Electronics Lab
COURSE OUTCOME NO	**COURSE OUTCOME STATEMENTS**
C308.1	List and describe various power semiconductor devices, power converters and its applications.
C308.2	Explain the characteristics of power semiconductor devices and operation of various power converters for different loads.
C308.3	Apply the concept of power electronic converters to control different loads and compute their performance parameters

COURSE OUTCOMES

DEPARTMENT	MT	SEMESTER	7	COURSE CODE	15MT71	COURSE ID	C401

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COURSE TITLE	Industrial Robotics						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C401.1	have knowledge of Robotics, automation, robotics motion, sensors and control, machine vision, robotic programming and roles of robots in industry						
C401.2	understand the basics of Kinematics and Dynamics of robot motion						
C401.3	understand the working methodology of robotics and automation, motion and control, machine vision and programming, application of robots in industry.						
C401.4	write the program for robot for various applications						
DEPARTMENT	MT	SEMESTER	7	COURSE CODE	15MT72	COURSE ID	C402
COURSE TITLE	Thermal Engineering						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C402.1	Understand the concepts of system, energy interaction, laws of thermodynamics, and modes of heat transfer.						
C402.2	Applications of laws of thermodynamics to open and closed system and laws of heat transfer to different shapes and types of boundary conditions. Determine energy change of a system, energy interaction in terms of work and heat between system and surrounding.						
C402.4	Develop and apply thermal resistance concepts. Apply boundary conditions to solve heat transfer problems.						
C402.4	Analyze the thermodynamic performance, heat transfer and temperature distribution. Dimensional analysis of convective heat transfer and physical significance of dimensional numbers.						
DEPARTMENT	MT	SEMESTER	7	COURSE CODE	15MT73	COURSE ID	C403
COURSE TITLE	Signal Process						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C303.1	have knowledge of signal, system, transformation, filter design.						
C403.2	understand the difference between time domain, frequency domain, analog and digital filters.						
C403.3	transform the signals from one domain to another using transformation techniques.						
C403.4	design analog and digital filters for specific applications.						
DEPARTMENT	MT	SEMESTER	7	COURSE CODE	15MT743	COURSE ID	C404
COURSE TITLE	Real Time Systems						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C404.1	Describe the concepts of real time system, types of real time system, processor and controllers.						
C404.2	Analyze the advantages of RTS and can apply in various applications.						
C404.4	Understand the different methodologies of operating system.						
C404.4	Use the scheduling strategies, interrupt mechanism and memory management for various application.						

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DEPARTMENT	MT	SEMESTER	7	COURSE CODE	15MT755	COURSE ID	C405
COURSE TITLE	Digital Image Processing						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C315	Describe the concept of image processing, sampling, quantization, enhancement and restoration of image.						
C415	Apply the methods of image transforms and enhancement techniques to the image processing						
C415	Apply the noise removal techniques for the restoration of original images.						
C415	Describe the process of colour image processing using different restoration techniques.						
C415							
DEPARTMENT	MT	SEMESTER	7	COURSE CODE	15MTL76	COURSE ID	C406
COURSE TITLE	Robotics Laboratory						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C406.1	Understand the importance of Robot system in Industrial Process in Virtual Environments						
C406.2	erstand the importance of Robot system in Industrial Process in Virtual ronments						
DEPARTMENT	MT	SEMESTER	7	COURSE CODE	15MTL77	COURSE ID	C407
COURSE TITLE	Signal Process Lab						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C407.1	have knowledge of Scientific Programming using Matlab.						
C407.2	understand the programming in Matlab software and hardware						
C407.3	use DSP board for real time applications						
DEPARTMENT	MT	SEMESTER	7	COURSE CODE	15MTL78	COURSE ID	C408
COURSE TITLE	Project Phase – I Seminar						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C408.1							
C408.2							
C408.3							
C408.4							

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DEPARTMENT	MT	SEMESTER	8	COURSE CODE	15MT81	COURSE ID	C411
COURSE TITLE	AUTOMOTIVE ELECTRONICS AND HYBRID VEHICLES						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C411.1	Understanding of Engine Parameters and a critical awareness of current problems within the automotive electronics domain using Various Measurement Technology.						
C411.2	Apply the fundamental Concepts of automotive electronics on various Engine parts, Sensor, Actuator, Communication and Measurement System.						
C411.3	Determine the extent and nature of electronic circuitry in automotive systems including monitoring and control circuits for engines, transmissions, brakes, steering, suspension						
C411.4	Analyze climate control, instrumentation and radios and accessories involved in the Automotive Industry.						
DEPARTMENT	MT	SEMESTER	8	COURSE CODE	15MT82	COURSE ID	C412
COURSE TITLE	Communication Systems						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C412.1	have Knowledge Of different modulation techniques, analog and digital modulation and demodulation, different waveform code techniques and spread spectrum.						
C412.2	understand the concept of generation of modulated and demodulated signals, encoding, decoding and multiplexing, de-multiplexing of signals.						
DEPARTMENT	MT	SEMESTER	8	COURSE CODE	15MT832	COURSE ID	C413
COURSE TITLE	Artificial Intelligence						
COURSE OUTCOME NO	COURSE OUTCOME STATEMENTS						
C413.1	Demonstrate the effects of Orbits, Trajectories, Orbital parameters & Perturbations on Satellites.						
C413.2	Illustrate the characteristics of Eclipses, Satellite Subsystems, Satellite Tracking & Earth stations.						
C413.5	Analyze the working of Multiple Access Techniques in Establishing effective Communication.						
C413.4	Analyze the performance of Satellites in the areas of communication, Remote Sensing, Navigation & Weather Forecasting.						