



Koneru Lakshmaiah Education Foundation

(Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

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Department of Electronics and Communication Engineering

Program: M.Tech – Atmospheric Science

Academic Year : 2018-19

COURSE CODE	COURSE NAME	CO NO	COURSE OUTCOME DESCRIPTION
18EC5117	MICROWAVE AND SATELLITE COMMUNICATIONS	CO1	Understand the satellite communications concepts
		CO2	Understand the orbital mechanics
		CO3	Design Satellite links
		CO4	Understand the propagation effects on Satellite earth links
18EC5118	FOUNDATIONS OF ATMOSPHERIC SCIENCE & SPACE TECHNOLOGY	CO1	Introduction to Structure of atmosphere
		CO2	Understand the Electrodynamic and radio wave propagation
		CO3	Understand of Remote Sensing techniques
		CO4	Analysis of Signal processing and Communications techniques
18EC5119	GLOBAL NAVIGATION SATELLITE SYSTEM	CO1	Understand of GNSS fundamentals
		CO2	GPS Signals and Modelling of GPS error Models
		CO3	Analysis of GPS data processing and position fixing
		CO4	Understand of Other satellite Navigation Systems
18EC5120	PHYSICS AND DYNAMICS OF LOWER ATMOSPHERE	CO1	Introduction to Atmospheric Stability of layers
		CO2	Analysis of Atmospheric motion
		CO3	Characteristics Atmospheric boundary layer (ABL)
		CO4	Modelling of Atmospheric dynamics
18EC5111	ATMOSPHERIC AND WEATHER RADARS	CO1	Understand of Principles of Radar
		CO2	Analysis of Radar signal processing

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		CO3	Analysis of Wind profilers
		CO4	Understand the MST Radars
18EC51I2	MODERN DIGITAL COMMUNICATION	CO1	Under stand Modern Digital Modulation Techniques
		CO2	Analysis Bit Error Performance.
		CO3	Under stand Spread Spectrum Signals for Digital Communication
		CO4	Analysis of Frequency Hopped Spread Spectrum signals
18EC51J1	GIS ANALYSIS & MODELING	CO1	Understand the fundamentals of GIS
		CO2	Analysis of GIS spatial objects
		CO3	Analysis of overlays
		CO4	Modelling of GIS Data
18EC51J2	DYNAMICAL AND PHYSICAL METEOROLOGY	CO1	Introduction to Global atmospheric circulation and Monsoon systems
		CO2	Understand of Mesoscale weather systems
		CO3	Analysis of Global and regional Circulation systems
		CO4	Understand of Atmospheric –Ocean phenomena
18EC52K1	AERONOMY	CO1	Understand the netural and chemical compistion of atmsophere
		CO2	Understand the ionospheric layes
		CO3	Analysis of loss process in D,E and F regions
		CO4	Characterization of Ionospheric morphology
18EC5221	SATELLITE METEOROLOGY	CO1	Introduction to Remote sensing for meteorology
		CO2	Analysis of Radiation measurements and estimation
		CO3	Understand of Radiative Transfer Equation (RTE)
		CO4	Analysis of satellite systems and Satellite meteorological data and products atmospheric parameters
18EC5222	ATMOSPHERIC & SPACE INSTRUMENTATION	CO1	Understand Observational Techniques of atmospheric parameters


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		CO2	Understand of Radar principles and technology
		CO3	Analysis of Radar Measurements
		CO4	Understand of Satellite Sensors
18EC5223	ADVANCED SATELLITE NAVIGATION SYSTEMS	CO1	Introduction to Differential GPS systems
		CO2	Introduction to Inertial Navigation Systems
		CO3	Understand of GPS/INS Integration
		CO4	Understand of GPS receivers
18EC5224	WEATHER AND CLIMATE APPLICATIONS	CO1	Introduction to Weather and climate data
		CO2	Applications to hydrology
		CO3	Applications to air quality
		CO4	Applications to agriculture
18EC52K1	AERONOMY	CO1	Introduction of Neutral Atmosphere
		CO2	Analysis of Chemical concepts in Atmosphere
		CO3	Understand of Ionoized atmosphere
		CO4	Understand Loss process in D, E and F regions: Morphology
18EC52K2	DETECTION AND ESTIMATION THEORY	CO1	Introduction to Random - Discrete-time signals
		CO2	Analysis of Detection of signals in noise
		CO3	Analysis of Estimation of signals in noise
		CO4	Analysis of Recursive linear mean squared Estimation
18EC52L1	WEATHER HAZARDS & RISK ASSESSMENT	CO1	Introduction to Weather hazards
		CO2	GIS based Modelling
		CO3	Analysis of Disaster Impact and Damage
		CO4	Understand of Pre-Disaster Risk Assessment:
18EC52L2	CLIMATE CHANGE	CO1	Introduction to climate change
		CO2	Understand the global warming
		CO3	Analyze the climate change trends
		CO4	Assesment of climate change interms of short term and long term.

Academic Professor I/C


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