

Koneru Lakshmaiah Education Foundation (Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

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Voddeswaram Guntur D

Department of Civil Engineering Program: M.Tech - Construction Technology and Management Academic Year: 2019-2020

Course Code	Course Name	Description of Course Outcome
	Green Buildings	Understanding the concept of green buildings and practices
8CE5117		Understanding the Green Building Opportunities and Benefits and Green Building Design
		Understanding the concept of optimal air conditioning
		Understanding the concept of Material Conservation and Indoor Environment Quality and Occupational Health:
	Constructio	Understanding and knowing about the different construction materials properties
		Knowing about the special concretes
8CE5118	n Materials	Knowing about the Tests on Concrete
	& Concrete	Understanding the concept of Precast Concrete structures
		Site visit and preparation of report
	Construction Planning Scheduling	Understand the Project Management, Project manager, organization structures, organizing and staffing the project office and team
8CE 5119		Understand the Management functions, Directing, controlling, project authority, interpersonal influences, barriers, team building, communication, time management, conflicts
		Understand and explain Construction Planning milestone schedules, WBS, Network Techniques, CPM, PERT and Prima Vera, Resources leveling and smoothing.
	en neen	Understand Cost Control, operating cycles, cost account codes, Job cost report, Projected Cost Estimates, status reporting, variance and earned value and Project
		Management System, MIS reporting, Daily, Weekly and monthly reporting, Actual vs. Planned cost reports, Planning & Cost control document, Quality & Safety
		Understanding the concept of One Dimensional Random Variable Understanding the Estimation Theory and Testing of Hypothesis
8CE 5120		Onderstanding the Estimation Theory and Testing of Hypothesis
		Design of Experiments
- x, i	Managemen	Understanding the Queueing Models Koneru Lakshmaiah Educational (Deemed to be University)

	t	
		Understanding the Standard types of Equipment
	Mechanized	Knowing the Earthmoving Equipment-I
18CE 5221	Constructio	Knowing the Earthmoving Equipment- II
2 of ² [vil	nand	Knowing the Pumping Equipments
	Machinery	Preparation of report on Different equipment types and their usage
		To study elements of project formulation and appraisal
18CE 5222	Project	Gain knowledge on project costing and appraisal
	Formulation	To understand the financial aspects of projects.
	Appraisal	To study the scope and applications of private sector participation in construction projects.
		Understanding the Construction Contracts
18CE 5223	n Laws and	Understanding the Tenders
		Understanding the concept of Arbitration
	Regulations	Understanding the Legal Requirements and Labour Regulations
		Understand concepts of quality management, system requirements and documentation.
	Quality	Understand quality planning and programs in construction industry.
8CE 5224	Managemen	Understand objectives, techniques for testing and analysis and application of tools for improvement of quality
	t and Safety	Understand the fundamentals of safety management systems in construction industry
	Managemen	Demonstrate procedures and quality assurance systems and safety management systems in construction projects
	i bystems m	, and a construction projects.
	Constructio	
	n	
000 5171		Introduction to High Performing Buildings
8CE 5111	High	Understanding the High-Performance Building Concepts and Practices
	Performanc	Understanding the High-Performance Building Design and Air Conditioning
	eBuildings	Understanding the Material Conservation and Indoor Environment Quality and Occupational Health
00E 5110		Introduction to Precast Concrete Structures
3CE 5112		Knowing the Earthmoving Equipment- II Knowing the Pumping Equipments Preparation of report on Different equipment types and their usage Io study elements of project formulation and appraisal Gain knowledge on project costing and appraisal To understand the financial aspects of projects. In ostudy the scope and applications of private sector participation in construction projects. Understanding the Construction Contracts Understanding the Construction Contracts Understanding the Concept of Arbitration Understanding the Legal Requirements and Labour Regulations Understand quality management, system requirements and documentation. Understand quality planning and programs in construction industry. Understand objectives, techniques for testing and analysis and application of tools for improvement of quality Demonstrate procedures and quality assurance systems in construction industry Demonstrate procedures and quality assurance systems and safety management systems in construction projects. Introduction to High Performing Buildings Understanding the High-Performance Building Concepts and Practices Understanding the Material Conservation and Indoor Environment Quality and Occupational Health Introduction to Preast Concrete Structures Knowing about the Prefabricated components Understanding the Design Principles Understanding the Design Principles Understanding the Design Principles Understanding the Design Principles Understanding the Joint in Structural Members and Design for abnormal loads Understand the manufacturing process and additional ingredients of concrete Recognize different types of special concretes Calculate the different types of special concretes Thoroughly know the mechanical properties and durability of concrete Understanding the Periodic and Continuous Monitoring of structures Understanding the different types Structural Cracks Department of Civil Er
-	Concrete	Understanding the Design Principles
	Structure	Understanding the Joint in Structural Members and Design for abnormal loads
	Special	Understand the manufacturing process and additional ingredients of concrete
BCE 5113		Recognize different types of special concretes
	Concrete	Calculate the different mix designs of concrete
	. 10	Thoroughly know the mechanical properties and durability of concrete
Charles Ing 8.1	Structural I	Understanding the Static Field Testing
8CE 51I4		Dynamic Field Testing
	Health	Understanding the Periodic and Continuous Monitoring of structures
INSTITUTE OF STATE	Monitoring	Understanding the different types Structural Cracks Department of Civil Engineer
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rad Namen		Understanding about Manpower Planning
18CE 51J1	Constructio	Understanding about the Organisation
	n Personnel	Understanding about Human Relations and Organizational Behaviour
	Managemen	Understanding the Welfare Measures, Management and Development Methods
	<u> </u>	Understanding the Water Supply and Electric Services
18CE 51J2	Building Services, Maintenanc	Understanding the Drainage and Solid Waste Disposal methods
		Understanding the Fire Fighting Services, Plumbing and Firefighting Layout of simple building
		Understanding the Illumination and lighting design
	e	enderstanding the mammation and righting design
	Managemen	
	t	
10CE 5112	T. C.	Understand the fundamentals of Value, worth and value engineering and also understand the general techniques in
18CE 51J3		infraction valuation.
	e valuation	Gain knowledge on the various special techniques in infrastructure valuation.
		Understand the different numeric analysis techniques in value engineering and study life cycle cost.
		Recognize the applications of value engineering
OCE 5114	C	Understanding the Construction accounting
8CE 51J4		Understanding the Benefit-cost analysis
		Understanding the Turnkey activities
	Economics & Finance	Understanding the International finance
21 3 14		To acquire the Knowledge of Environmental Technology.
8CE 52K1		To attain Strong base of knowledge of EIA
		To obtain the Knowledge of EIA Methodologies
	on built	To know the Risks to Environment and Human, Health to solve societal problems
	Environmen	The second process of
	Deep	Understanding about the Deep Excavation
8CE 52K2		Understanding about the Roads, Tunnels and Dewatering
3 1 1 2 1		Understanding about the Grouting Methods
		Understanding about the Piling & Coffer dams and Caisson
	control	enderstanding debut the Timing & Confer dams and Caisson
	methods	
and Took Heet		Understanding about Planning, site equipment and plant for form work
8CE 52K4	Form Work	Understanding about Materials accessories proprietary products and pressures
STERM NAVIONES GREEN MARSON	for	Understanding the Design of forms and shores
	Constructio [Understanding the building and erecting the form work methods and forms for domes and tunnels, slip forms and
	n Structures	scaffoldings Department of Civil Engin
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		Knowing and understanding about the emerging construction technologies	
	Emerging	Knowing and understanding about the Modular FRP Composite Bridge Deck construction procedures	
10.0	construction	Understanding the Post-Tensioned Steel Structure construction procedure	
	Technologies	Understanding the behaviour of Low Temperature Concrete Admixture	
18CE 52L2	Building Envelopes	Understanding the Building envelop systems	
		Understanding about foundation construction	
		Understanding about wall construction and roof construction	
		Understanding about window, door installation and ventilation system; building envelope best practices	
	Construction and fire	Understanding about the Classification of fire	
18CE 52L3		Understanding about the Site planning and housekeeping	
		Understanding about the Safety in scaffolding	
	safety	Understanding about the Road work and pilling operation	
	Resource Management	Understanding about the Resource Planning	
		Understanding about the Labour Management	
		Understanding about the Materials and Equipment	
	and Control	Understanding about the Time Management, Resource Allocation and Leveling	
		5 Thousand and Develing	
	Construction		

Academic Professor I/C

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