

GOVINDRAO WANJARI COLLEGE OF ENGINEERING & TECHNOLOGY

148/149, SalaiGodhani, Near Chikna Village, Hudkeshwar Road, Nagpur – 441204

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President Secretary Treasurer Principal

Dr. (Smt) SuhasiniWanjari Adv. Abhijit G. Wanjari Dr. Smeeta Wanjarri Dr Salim Chavan



DEPARTMENT OF CIVIL ENGINEERING BTECH 5TH SEMESTER LEARNING MANAGEMENT SYSTEM (LMS)

	LEARNING MANAGEMENT SISIEM (LMS)			
S.N	NAME OF SUBJECT	CO'S	NOTES	
1.	Design of Steel	CO1:Analyze and design the various connections and identify the	UNIT 1	
	Structures	potential failure modes.		
	(BTCVC501)	CO2:Analyze and design various tension, compression and flexural members.	UNIT 2	
		CO3: Analyse and design various gantry girder and roof trusses.	UNIT 3	
		CO4: Make use of knowledge to design column bases.	UNIT 4	
		CO5:Use the knowledge of structural properties in assessing its strength and understand design philosophy.	UNIT 5	
2.	Geotechnical	CO1:Introduction to the soil engineering and its application.	UNIT 1	
_•	Engineering	CO2:Understand different soil properties and behaviour.	UNIT 2	
	(BTCVC502)	CO3:Explain permeability of soil and seepage aspects.	UNIT 3	
	,	CO4:Understand stresses in soil and application of shear stress parameters in the field.	UNIT 4	
		CO5:Develop ability to take up soil design of various foundations.	UNIT 5	
3.	Structural Mechanics –	CO1:Have a basic understanding of concept of influence line and will be	UNIT 1	
	II	able to Analysis of trusses.		
	(BTCVC503)	CO2:Have a basic understanding of Cable, Suspension Bridges and	UNIT 2	
		arches and will be able to analyze three hinged and two hinged arches		
		CO3:Have a basic understanding of fundamental concepts of flexibility method of analysis.	UNIT 3	
		CO4:Have a basic understanding of matrix method of analysis and will be	UNIT 4	
		able to analyze the determinant structure.		
		CO5:Have a basic understanding of the principles and concepts related to finite difference and finite element methods	UNIT 5	
4.	Concrete Technology	CO1: Understand the various types and properties of ingredients of	UNIT 1	
	(BTCVC504)	concrete		
		CO2: Understand the properties of Fresh concrete	UNIT 2	
		CO3: Understand effect of admixtures on the behaviour of the fresh and	UNIT 3	
		hardened concrete		
		CO4: Understand the desired Properties of Concrete	UNIT 4	
		CO5: Formulate concrete design mix for various grades of concrete	UNIT 5	
_	Project Management	CO1:Understand various steps in project Management, different types of	UNIT 1	
5.	Project Management		UNII I	
	(BTHM505)	charts.	IINHT A	
		CO2: Construct network by using CPM and PERT method.	UNIT 2	
		CO3: Determine the optimum duration of project with the help of various time estimates.	UNIT 3	
		CO4: Know the concept of engineering economics, economic	UNIT 4	
		comparisons, and linear break even analysis problems.		
		CO5: Understand the concept of total quality Management including	UNIT 5	
		Juran and Deming's philosophy.	CITE U	
(Advanced	CO1: Determine the sewage characteristics and design various sewage	UNIT 1	
6.	Environmental Engg.		<u>U1111 1</u>	
		treatment plants.	TINITE A	
	(BTCVPE506)	CO2: Understand municipal water and wastewater treatment system	UNIT 2	
		design and operation.		

Amar Sewa Mandal's



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CO3: Apply environmental treatment technologies and design	gn processes <u>UNIT 3</u>
for treatment of industrial waste water.	
CO4: Understand the environmental sanitation.	UNIT 4
CO5: Understand the rural sanitation schemes.	UNIT 5

