## 20CE4702C -IRRIGATION MANAGEMENT

Offering Branches			es	CE											
Course Category:			y:	Professional Elective							Credits:			3	
Course Type:				Theory							Lecture- Tutorial- Practical:		3-0-0		
Prerequisites:				20CE3401-Environmental engineering							Continuous Evaluation:			30	
				20CE3405-Water resources engineering 20MC1301-Environmental science							Semester End Evaluation:			70	
Course Outcomes													00		
Upon s	Jpon successful completion of the course, the student will be able to:														
CO1	Un	Inderstand and analyze various approaches in irrigation management										K4			
CO2	Un	derstan	d and	analyze the capability of irrigable soils and management										K4	
CO3	Ap	pply Societal approach to irrigation management								K3					
			d the p	provisions of irrigation and conflict resolution										K2	
CO5 Understand the			d the b	basic concepts of integrated water management										K2	
	C	Contribution of Course Outcomes towards achievement of Program Outcomes													
	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1	2	2				3	3	3						3	
CO2	2	2				3	3	3						3	
CO3	2	2				2	2	2						2	
CO4	2	2				2	2	2						2	
CO5	2	2				2	2	2						2	
Avg.	2	2				2	2	2						2	
		1- Low					2-Me	dium				3-Hi	gh		
Course Content															
UNIT-		<b>Introduction:</b> Need for proper management of land and water resources. Planning of irrigation projects – Inadequacies in present approaches in canal irrigation													
ONII-	-	management – command area development programmes.													
UNIT-	.2	Soil Management: Classification of irrigable soils – soils-plant-water relationships – soil management. Water logging and salinity – water quality for irrigation – Reclamation of salt affected soils								CO2					
UNIT-	Irrigation Management: Irrigation management – Irrigation Management Matrix – Society and irrigation –perceptions of various stake holders on irrigation system performance. Livelihood and Production Thinking Philosophy – the different approaches. Macro and precision irrigation.								CO3						
UNIT-		Participatory irrigation management – Farmer's management of irrigation system acts - conflict resolution.								CO4					
UNIT-	Legal aspects in water sharing and management – PC-CP - case studies Introduction Integrated Water Resources Management (IWRM).								ction	CO5					
Learning Resources															
Text Books  1. Irrigation Theory and practice by A. M. MICHAEL Vicas publishing house pvt ltd 2. Irrigation Water Management: Principles and Practice by Dilip Ku															

Page **187** of **278** 

	Majumdar PHI Learning pvt.Ltd
Reference Books	Chambers R, Canal Management, Oxford IBH.     VVN Murthy, Land and Water Management Engineering, Kalyani Publishers.
e- Resources & other digital material	1. https://nptel.ac.in/courses/105/102/105102159/ 2. https://nptel.ac.in/courses/126/105/126105010/