[As per Choice]	VIRTUAL REA Based Credit Sy	stem (CBCS) schemel			
(Effective from	om the academic SEMESTER –	year 2016 -2017)			
Subject Code	15IS833	IA Marks	120		
Number of Lecture Hours/Week	3		20		
Total Number of Lecture Hours	40	Exam Marks	80		
Total Number of Eccture Hours	CREDITS -	Exam Hours	03		
Course objectives: This course wil	l enable students	to.			
 Explain understanding of thi limits and to learn about the Illustrate process of creating 	is technology, und criteria for defini	derlying principles, its pong useful applications	otential ar	nd	
Module – 1			U	aching	
Introduction: The three I's of virtualities classic components of a VR sys	al reality, comme	rcial VR technology and	1 the 10	Hours	
Input Devices: (Trackers, Nav dimensional position trackers, na gesture interfaces. Text book1: 1.1, 1.3, 1.5, 2.1, 2.2 a	vigation, and Cavigation and m	desture Interfaces): The anipulation, interfaces	and	()\ -	
Module – 2	nu 2.3	A PART W	_		
Output Devices: Graphics displays, Text book1: 3.1,3.2 and 3.3	sound displays &	haptic feedback.	10	Hours	
Module – 3	- 65				
Modeling: Geometric modeling, behaviour modeling, model manage Text book1: 5.1, 5.2 and 5.3, 5.4 and Module – 4	ment.	deling, physical model	ling, 10	Hours	
Human Factors: Methodology and health and safety issues. Text book1: 7.1, 7.2 and 7.3 Module – 5	terminology, use	er performance studies,	VR 101	Hours	
Applications: Medical applications, Text book1: 8.1, 8.3 and 9.2	*	ons, robotics applications	5. 10 I	Hours	
Course outcomes: The students sho	ould be able to:				
 Illustrate technology, underly the criteria for defining useful. Explain process of creating versions. 	il applications.		to learn a	bout	
Question paper pattern: The question paper will have ten questions from each Each question will have questions co The students will have to answer 5 from each module.	estions. module.	ics under a modula	om each		
Text Books:	8				
 Virtual Reality Technology, John Wiley & Sons 	Second Edition, C	Gregory C. Burdea & Phil	lippe Coif	fet,	

Stehely H.O.D.

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