ANNEXURE A4

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN AND MANUFACTURING (IIITD&M) KANCHEEPURAM

Course Title	Reverse Logistics management	Course No						
Specialization		Structure (IPC)	3	0		3		
Offered for	M.Tech, M.Des, Ph.D	Status	Core	Elect	tive			
Course Objectives	Introducing students to key theoretical dimensions of reverse logistics (RL); analyzing regulatory, technological, and environmental dimensions of RL							
Course Outcomes	Upon completing this course, students should be able to: Understand the theoretical foundations of RL Optimize the RL network Understand the benefits of Reuse, Re-manufacturing and Recycle. Balance a disassembly line in RL							
Contents of the course (With	Defining RL; The development of RL; The main trends and Dimensions of RL networks, Issues and Challenges in Reverse Logistics (4)							
approximate break up of hours)	Reactive and efficient supply chain; Returns of products initiated during production distribution, and by end customers; Other reasons for returning the product. (6)							
	Introduction to Product Recovery Network, Classification of Recovery Networks, Product Recovery Network Types, Vehicle Routing Issues (6)							
	Inventory Systems with Reverse Logistics: Characteristics of Recoverable Inventory Management, Inventory Models in RL, Deterministic Models, Stochastic Periodic Review Models (10)							
	Modeling Supplier Selection in Reverse Supply Chains (4) Introduction to Disassembly Line Balancing in Closed-loop Supply chain (6)							
	Case Studies					(4)		
Text and References	 Text Books Surendra M. Gupta, Reverse Supply Chains: Issues and Analysis, CRC Press 2013. ISBN 9781439899038 Moritz Fleischmann, Quantitative Models for Reverse Logistics, Springer, 2001, ISBN 978-3-540-41711-8 Reference Book Mark E. Ferguson and Gilvan C. Souza, Closed-Loop Supply Chains, CRC Press, 2016 ISBN 9781420095265 							
Name of the	Dr. B. SHAHUL HAMID KHAN							

Proposer		