SEMSETER-IV

					GA	NP	AT UNIVERSI	TY			
				FACI	JLTY O	F١	MANAGEMEN [®]	T STUDIES			
Program MBA			В	Branch/Spec.		MBA (Logistics & Supply Chain Management) Elective Subject					
Semester	IV					1	Version	1.0.0.0			
Effective from	Effective from Academic Year				2025-26		ffective for the	e batch Admitted in June 2025			
Subject code IVA02SDS			DS	Subject Name			Supply Chain Analytics, Digital Technologies and SCM Software Tools				
Teaching sche	eme					ı	Examination s	cheme (Marks	5)		
(Per week)	Lecti	ecture(DT) Prac		ical(Lab.) Total				CE	SEE		Total
	L	TU	Р	TW							
Credit	2	0	0		2	-	Theory	100			100
Hours	2	0	0		30	ı	Practical				

Objective:

To equip MBA students with a strategic framework to design, lead, and transform global supply chains by integrating sustainability and green principles to enhance resilience, create value, and build a lasting competitive advantage.

Course Outcome:

- CO 1: The students will be able to explain the strategic business case for sustainability and the core principles governing a responsible global supply chain.
- CO 2: The students will be able to analyze the key operational components of a green supply chain, including logistics, warehousing, and carbon footprint management.
- CO 3: The students will be able to evaluate the challenges and strategies associated with ethical sourcing, supplier management, and the implementation of circular economy principles.
- CO 4: The students will be able to formulate an integrated strategy for building a resilient and sustainable supply chain, incorporating risk management, performance measurement, and stakeholder communication.

Theor	y syllabus	
Unit	Content	Hrs
1	Foundations of Sustainable Supply Chains, The Strategic Imperative: Beyond Cost Efficiency, Traditional vs. Sustainable Supply Chain Models, The Triple Bottom Line: People, Planet, Profit, ESG (Environmental, Social, Governance) Frameworks, The Business Case for Sustainability: Risk, Reputation, Revenue, Stakeholder Theory & Management in Supply Chains	6
2	Designing and Managing the Green Supply Chain, Green Logistics & Transportation: Mode Selection & Route Optimization. Last-Mile Delivery Innovations, Sustainable Warehousing: Energy, Automation, Design, Green Packaging: Reduction, Reuse, Recyclable Materials, Carbon Footprint Management: Scope 1, 2, 3 Emissions (Conceptual), Reverse Logistics & Waste Management: The Waste Hierarchy: Reduce, Reuse, Recycle, Technology's Role: Al & IoT for Efficiency.	8
3	Ethical Sourcing and the Circular Economy, Sustainable Procurement & Ethical Sourcing: Supplier Codes of Conduct & Auditing. Fair Trade & Living Wage Considerations, Managing Social Risk: Human Rights & Modern Slavery Diligence, Supplier Collaboration & Development for Sustainability, The Circular Economy: From Linear to Closed-Loop Systems. Product-as-a-Service & Leasing Models,	8

	Traceability & Transparency: The Role of Blockchain (Conceptual).				
4	Integrated Strategy, Risk, and Reporting, Building Supply Chain Resilience: Agility & Diversification. Nearshoring, Reshoring & Friend-shoring Strategies, Integrated Risk Management: Geopolitical, Climate, Social, Sustainability Performance Measurement: KPIs & Metrics, Communicating Value: Sustainability Reporting & ESG Disclosures, The Role of the Chief Sustainability Officer (CSO), Change Management for Sustainable Transformation, Capstone: Developing a Sustainable Supply Chain Roadmap for a Global Firm	8			
Prac	tical content				
Refe	erence Books				
1.	Christopher, Martin. Logistics & Supply Chain Management. 5th Edition, Pearson, 2016.				
2.	Elkington, John. Green Swans: The Coming Boom in Regenerative Capitalism. Fast Company Press, 2020.				
3.	Savitz, Andrew W. The Triple Bottom Line: How Today's Best-Run Companies Are Achieving Economic, S and Environmental Success - and How You Can Too. Jossey-Bass, 2013.	ocial,			
4.	Wieland, Andreas. Sustainable Supply Chain Management: A C-Suite Compendium. Springer, 2021.				
5.	Esty, Daniel C., and Winston, Andrew S. Green to Gold: How Smart Companies Use Environmental Strategy to Innovate, Create Value, and Build a Competitive Advantage. Yale University Press, 2006.				
6.	heffi, Yossi. The New (Ab)Normal: Reshaping Business and Supply Chain Strategy for a Post-Pandemic World. MIT CTL Media, 2020.				
7.	remmer, Ian. The Power of Crisis: How Three Threats – and Our Response – Will Change the World. Simon & chuster, 2022.				
8.	Rogers, David L. The Digital Transformation Playbook: Rethink Your Business for the Digital Age. Columb	ia			

Business School Publishing, 2016.