

SPS101: Green Supply Chain Management in RMG

Course Objectives

- Understand the fundamentals of green supply chain management (GSCM).
- Learn about sustainability practices and their applications in the RMG industry.
- Explore tools, technologies, and strategies for implementing GSCM in Bangladesh's garment sector.
- Build skills for designing and managing sustainable supply chains.

This outline ensures a balance between theory and practical skills tailored to the needs of the garment industry in Bangladesh.

Session No	Session Title	Detailed Topics	Key Learning Methods
1	Overview of the RMG Sector and Green Supply Chain Management	<ul style="list-style-type: none"> • Introduction to the RMG industry in Bangladesh • Concept of green supply chain management (GSCM) • Importance of sustainability in the RMG sector • Global sustainability trends 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
2	Fundamentals of Supply Chain Management in the RMG Sector	<ul style="list-style-type: none"> • Key components of a supply chain • Traditional vs. green supply chains • Stakeholders in the RMG supply chain • Challenges in adopting GSCM practices 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
3	Regulatory Framework and Standards	<ul style="list-style-type: none"> • Environmental laws and policies in Bangladesh • International standards: ISO 14001, Oeko-Tex, LEED certifications • Compliance requirements in global trade 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
4	Introduction to Life Cycle Thinking	<ul style="list-style-type: none"> • Concept of product life cycle and its impact on sustainability • Tools for life cycle assessment (LCA) • Case studies on life cycle analysis in the garment industry 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
5	Sustainable Sourcing Practices	<ul style="list-style-type: none"> • Identifying sustainable raw materials (organic cotton, recycled fabrics, etc.) • Partnering with eco-friendly suppliers • Benefits and challenges of sustainable sourcing 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A

Session No	Session Title	Detailed Topics	Key Learning Methods
6	Ethical and Sustainable Production Practices	<ul style="list-style-type: none"> • Environmental impacts of garment production • Resource efficiency (energy, water, chemicals) • Introduction to green manufacturing technologies 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
7	Waste Management in the RMG Sector	<ul style="list-style-type: none"> • Types of waste in garment production • Strategies for waste minimization and recycling • Circular economy concepts in the RMG industry 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
8	Sustainable Packaging Solutions	<ul style="list-style-type: none"> • Eco-friendly packaging materials and designs • Reducing packaging waste • Innovative practices in green packaging 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
9	Green Logistics and Transportation	<ul style="list-style-type: none"> • Carbon footprint of transportation in supply chains • Strategies for reducing emissions (route optimization, modal shifts) • Case studies of green logistics in the garment industry 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
10	Reverse Logistics	<ul style="list-style-type: none"> • Concept and importance of reverse logistics • Managing returns, recycling, and disposal • Reverse logistics in global supply chains 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
11	Distribution and Retail Sustainability	<ul style="list-style-type: none"> • Sustainable practices in warehousing and distribution • Promoting eco-friendly retail practices • Role of digitalization in improving sustainability 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
12	Integration of Renewable Energy in Supply Chain Operations	<ul style="list-style-type: none"> • Renewable energy solutions for factories and logistics • Cost-benefit analysis of adopting renewable energy • Case studies from leading Bangladeshi garment manufacturers 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A

Session No	Session Title	Detailed Topics	Key Learning Methods
13	Measuring and Monitoring Sustainability Performance	<ul style="list-style-type: none"> • Key Performance Indicators (KPIs) for GSCM • Tools for monitoring and reporting (carbon footprint calculators, supply chain dashboards) • Role of sustainability audits 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
14	Innovations in Green Supply Chain Management	<ul style="list-style-type: none"> • Role of technology: blockchain, AI, IoT in GSCM • Innovations in material science (bio-based fabrics, dyeing technologies) • Industry case studies 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
15	Social Responsibility and Community Engagement	<ul style="list-style-type: none"> • Corporate social responsibility (CSR) in the garment sector • Strategies for community engagement and social impact • Examples of successful CSR initiatives 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
16	Capstone Project and Future Trends	<ul style="list-style-type: none"> • Capstone project presentations (group/individual): Developing a green supply chain strategy for an RMG company • Discussions on future trends in GSCM • Feedback and course wrap-up 	<ul style="list-style-type: none"> • Lecture • Discussion • Q&A
17	Certificate Presentation	<ul style="list-style-type: none"> • Awarding certificates of completion 	

Assessment:

- Weekly quizzes (20%)
- Group assignments and case study analysis (30%)
- Capstone project (50%)

This course aims to provide participants with a comprehensive understanding of sustainable practices and the skills to implement green supply chain management in the ready-made garment industry of Bangladesh.