

## SPS 103: Circular Fashion Design

### *Course Objectives*

- Introduce the principles of circular fashion and their relevance to the RMG industry in Bangladesh.
- Develop practical knowledge of sustainable practices, materials, and technologies.
- Equip participants with tools for integrating circular fashion into production, operations, and supply chains.
- Address global market trends, compliance, and consumer demand for sustainability.

Session No	Session Title	Detailed Topics	Key Learning Methods
1	<b>Overview of Circular Fashion and its Importance</b>	<ul style="list-style-type: none"> <li>• Definition and principles of circular fashion</li> <li>• Understanding the lifecycle of garments</li> <li>• Environmental and economic implications of linear vs. circular practices</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
2	<b>The Global Perspective on Circular Fashion</b>	<ul style="list-style-type: none"> <li>• Case studies from global apparel brands</li> <li>• Policy frameworks and industry initiatives (e.g., EU Green Deal, Ellen MacArthur Foundation)</li> <li>• Bangladesh's role in the global circular fashion movement</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
3	<b>Circular Fashion in the Context of Bangladesh</b>	<ul style="list-style-type: none"> <li>• Current state of the RMG industry and sustainability challenges</li> <li>• Opportunities for circular practices in local operations</li> <li>• Case studies of local initiatives</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
4	<b>Circular Business Models</b>	<ul style="list-style-type: none"> <li>• Product lifecycle extension: repair, resale, and rental</li> <li>• Recycling, upcycling, and closed-loop systems</li> <li>• Revenue streams from sustainable practices</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
5	<b>Sustainable Materials</b>	<ul style="list-style-type: none"> <li>• Overview of eco-friendly fibers (e.g., organic cotton, hemp, recycled polyester)</li> <li>• Innovations in material science (e.g., biodegradable textiles, bio-based polymers)</li> <li>• Supplier and certification management</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>

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6	<b>Circular Design Principles</b>	<ul style="list-style-type: none"> <li>• Designing for longevity, repair, and recyclability</li> <li>• Zero-waste pattern-making techniques</li> <li>• Tools and software for sustainable design</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
7	<b>Technology and Innovation in Circular Fashion</b>	<ul style="list-style-type: none"> <li>• Digital tools for material traceability and waste tracking</li> <li>• AI and blockchain in the supply chain</li> <li>• Smart textiles and wearable technology</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
8	<b>Practical Workshop on Design and Material Selection</b>	<ul style="list-style-type: none"> <li>• Hands-on sessions to prototype sustainable designs</li> <li>• Exploring local waste streams for upcycling</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
9	<b>Sustainable Production Processes</b>	<ul style="list-style-type: none"> <li>• Energy-efficient manufacturing techniques</li> <li>• Water-saving technologies and chemical management</li> <li>• Waste minimization in factories</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
10	<b>Waste Management and Recycling</b>	<ul style="list-style-type: none"> <li>• Types of textile waste and their impact</li> <li>• Methods for industrial recycling and reprocessing</li> <li>• Partnerships with local recyclers and innovators</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
11	<b>Circular Supply Chains</b>	<ul style="list-style-type: none"> <li>• Creating a transparent and traceable supply chain</li> <li>• Collaboration with stakeholders: suppliers, buyers, and NGOs</li> <li>• Developing take-back programs and reverse logistics</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
12	<b>Compliance and Certification</b>	<ul style="list-style-type: none"> <li>• Overview of key certifications (e.g., GOTS, OEKO-TEX, Fair Trade)</li> <li>• Meeting international standards for sustainable exports</li> <li>• Addressing buyer demands and audits</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
13	<b>Marketing Circular Fashion</b>	<ul style="list-style-type: none"> <li>• Building a brand identity around sustainability</li> <li>• Engaging customers through storytelling and transparency</li> <li>• Using social media to promote circular initiatives</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>

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14	<b>Financial and Market Opportunities</b>	<ul style="list-style-type: none"> <li>• Accessing green finance and grants</li> <li>• ROI analysis for circular fashion investments</li> <li>• Export opportunities in the global sustainable fashion market</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
15	<b>Challenges and Solutions</b>	<ul style="list-style-type: none"> <li>• Overcoming barriers to implementation in Bangladesh</li> <li>• Scaling circular practices in SMEs and large enterprises</li> <li>• Collaboration with policy makers for supportive regulations</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
16	<b>Final Project and Course Wrap-Up</b>	<ul style="list-style-type: none"> <li>• Group presentations on circular business plans or case studies</li> <li>• Feedback and networking session</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>
17	<b>Certificate Presentation</b>	<ul style="list-style-type: none"> <li>• Awarding certificates of completion</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Q&amp;A</li> </ul>

### **Assessment Methods:**

- Quizzes and assignments (20%)
- Hands-on projects (40%)
- Capstone project and presentation (40%)