



# SYMBIOSIS COLLEGE OF ARTS & COMMERCE

An Autonomous College | Under Savitribai Phule Pune University

Reaccredited 'A+' with 3.51 CGPA For Third Cycle By NAAC | College with Potential for Excellence

## UG/PG (Revised Curriculum under NEP w.e.f. June 2023)

PROGRAM	BA	BA(Hon)	B.Com	B.Com(Hon)	M.Com	MA - Eng	MA- Eco	MA- Psy
Tick ✓					✓			

SEMESTER	1	2	3	4	5	6	7	8
Tick ✓	✓							

SPECIALIZATIONS									
BA	Eco	Eng	Psy	Gen					
Tick ✓									
BCOM	Costing	Banking	Entrep	MKT	Fin & Acc	Mgt Acc	HRM	Bus Analytics	Gen
Tick ✓									

<b>Name of Board of Studies</b>	Commerce
<b>Name of the Department</b>	Commerce
<b>Name of Head of Department</b>	Dr. Hrishikesh Soman
<b>Title of the Course</b>	Operations and Supply Chain Management
<b>Course Code</b>	
<b>Type of Course (New / Revised)</b>	New
<b>Nature of Course (Maj/Min/AEC/SEC/VEC/VSC)</b>	
<b>Number of Credits</b>	
<b>Name of the Faculty</b>	Alka Arora
<b>Date of Approval by BoS</b>	
<b>Date of Implementation</b>	

Course Outcomes
1. Enlist components of sustainable Operations and Supply Chain Management
2. Identify the key metrics and process to transform to sustainable Supply Chain
3. Analyze the social and environmental aspects in Operations and Supply Chain
4. Acquire the knowledge about the business operating in circular economy.

5. Develop the sustainable business model

<b>DETAILS OF SYLLABUS</b>		
<b>UNIT NUMBER</b>	<b>DETAILS</b>	<b>NUMBER OF LECTURES</b>
1	<p><b><u>Title of the topic : Creating Value through Sustainable Operations and Supply Chain</u></b></p> <p><b><u>Contents</u></b></p> <ol style="list-style-type: none"> <li>1.1. Concept of sustainability, components of Operations and Supply Chain.</li> <li>1.2. The necessity of sustainability in Operations and Supply Chain Management in Globalization era.</li> <li>1.3. Diffusion of sustainable Operations and Supply Chain Management: Where are we now and where are we going?</li> <li>1.4. Key metrics for sustainability and Supply Chain drivers</li> <li>1.5. Development of sustainable objectives from Triple bottom line perspective               <ul style="list-style-type: none"> <li>• Environmental performance</li> <li>• Social performance</li> <li>• Financial performance</li> </ul> </li> <li>1.6. Transformation process from Traditional to Sustainable Supply Chain Management</li> <li>1.7. How does innovativeness foster sustainable Operations and Supply Chain Management?</li> <li>1.8. How business can leverage through sustainable Operations and Supply Chain Management and an insight to the barriers for sustainable Supply Chain Management</li> <li>1.9. Develop Core Competencies in sustainable Operations and Supply Chain practices.</li> </ol> <p><b>Case studies:</b> Sustainability initiative in Supply Chain by Walmart and P&amp;G</p>	16
2	<p><b><u>Title of the topic : Green Operations management</u></b></p> <p><b><u>Contents:</u></b></p> <ol style="list-style-type: none"> <li>2.1 Green product design and procurement               <ul style="list-style-type: none"> <li>• Designing the product based on life cycle assessment and cradle to cradle approach</li> <li>• Eco-Efficiency and Eco- Effectiveness</li> </ul> </li> </ol>	16

	<ul style="list-style-type: none"> <li>• Quality Function Deployment: House of quality tool</li> <li>• Implementing a sustainable procurement strategy</li> </ul> <p>2.2 Green production</p> <ul style="list-style-type: none"> <li>• Lean management for sustainable production</li> <li>• Leveraging Six sigma for a sustainable production</li> </ul> <p>2.3 Impact of sustainability implementation on bottom line of business and how company cope with it.</p> <p><b>Case studies</b></p> <ul style="list-style-type: none"> <li>• Green Manufacturing and Sustainability at Frito-Lay</li> <li>• Coca-Cola’s redesigned Dasani bottle in sustainable product design</li> </ul> <p>Lean Operations at Alaska Airlines</p>	
3	<p><b><u>Title of the topic : Transformation in Logistics and packaging towards Green</u></b></p> <p><b><u>Contents:</u></b></p> <p>3.1 Sustainability and logistics:</p> <ul style="list-style-type: none"> <li>• Social and environmental aspects in logistics and physical distribution</li> <li>• Mapping logistics services in Sustainable Production and Consumption systems : What are the necessary dynamic capabilities?</li> <li>• Reverse logistics and closed loop Supply Chain: Integrating the forward and backward flow</li> </ul> <p>3.2 Physical distribution and sustainability:</p> <ul style="list-style-type: none"> <li>• Carbon Footprint auditing</li> <li>• Eliminating transportation waste</li> </ul> <p>3.3 Inventory management</p> <p>3.4 Green warehouse</p> <p>3.5 Sustainable packaging</p> <p><b>Case studies:</b></p> <ul style="list-style-type: none"> <li>• Green innovation in logistic and sustainability-DHL</li> </ul> <p>Sustainable initiatives in packaging by IKEA.</p>	16
4	<p><b><u>Title of the topic: Business Models in Circular economy and Standards For sustainability</u></b></p> <p><b><u>Contents</u></b></p> <p>4.1 Transformation from traditional SCOR to GreenSCOR model</p> <ul style="list-style-type: none"> <li>• Benefits of GreenSCOR Model</li> </ul> <p>4.2 Business models in circular economy and the enabling role of circular Supply Chain</p> <p>4.3 Standards:ISO 9001, ISO 14001, ISO 27001, ISO 20400 2017</p> <p><b>Case studies:</b></p> <ul style="list-style-type: none"> <li>• Adidas futurecraft.loop in circular product design</li> </ul> <p>“Subaru’s Clean, Green Set of Wheels with ISO 14001” illustrates the growing application of the ISO 14000 standards.</p>	12
	Assignments Case study, Article review, filed visit, Group presentations	

Reference List

1. Sustainable Operations and Supply Chain Management by Alberto Grandi, 13<sup>th</sup> edition
2. Sustainable Supply Chain Management by Joielle Morana
3. Green Supply Chain Management for best business Practice by Khan, Mehmood, Hussain

**Essential Readings:**

1. Sustainable Logistics and Supply Chain Management by David. B. Grant
2. The Lean Sustainable Supply Chain: How to create Green by Robert Plevich
3. Sustainable Operations and Supply Chain Management by Valeria Belvedre

**Suggested Readings:**

Handbook on the Sustainable Supply Chain by Joseph Sarkis

Note: Latest edition of text book may be used.

Principal  
Symbiosis College of  
Arts & Commerce, Pune-4.

Name and Sign of Head

**Examination Pattern**

**Total 100 marks**

Internal – 50 marks

External- 50 marks

**Format of the Question Paper**

Q.1 Short notes

Q.2 objectives

Q.3 short answers/case studies

Q.4 Long answers

