

## **Circular Economy for Business** **(Course code:191033G02)** **December 11-15, 2023**

### **Overview**

Organizations must rethink and optimize their existing strategies to meet their sustainable business goals, due to the constant depletion of vital resources and the greater demands of societal issues. The increasing population not only has an impact on natural resources, it also results in greater pollution and contributes to greater levels of poverty. With these considerations, on September 25, 2015, some countries adopted a new set of sustainability development goals (SGs) to end poverty and to improve prosperity worldwide. Seventeen sustainable goals have been targeted to achieve by 2030 under the new sustainable development agenda (UN.org, 2015). Further, these sustainable goals encompass a range of perspectives and various levels of applications, including supply chain management. In recent years, researchers and practitioners have addressed supply chain management issues because of their significant impacts on organizational developments regardless of the field of applications.

Researchers around the globe are exhibiting an increased interest in how the circular economy (CE) may contribute to the SDG's. The level of widespread acceptance being generated clearly shows the potential necessity of implementing CE. Nations are feeling pressured from an alarming decrease in resources, pollution, political insecurity, and breaches of safety. Contrary to the conventional or linear economy approach, which utilizes the take-use-dispose model, the CE model is more focused on value creation by closing the loop. The CE model works as a natural system by utilizing the values of material, energy, and other resources within a particular ecosystem as a single loop. Hence, in recent years, the CE model has gained popularity among businesses and communities.

### **Objectives:**

- i) The primary objectives of the course are as follows:
- ii) Exposing participants to the current practices of circular economy (CE) and SDG's for business.
- iii) Identify and critically discuss the connection between linear/circular economies and environmental sustainability generally and between circular economies and SDG's specifically.
- iv) Identify and critically discuss the histories, concepts, business models, goals and scopes for circular economies.
- v) Identify critical sectors and give examples of areas of implementation for models of circular economies.
- vi) Identify and discuss ideas for transitions to circular economies.

<b>Course information</b>	<p><b>Duration: December 11-15, 2023</b>  <b>Total contact hours:</b> Minimum 20 (Including lectures and hands-on)  <b>The number of participants for the course will be limited to 50.</b></p>
<b>Modules</b>	<ul style="list-style-type: none"> <li>▪ Making the World Go Circular? : The what, why, and how of circular economies</li> <li>▪ Concepts, Critiques, and Cases: Genealogies of CE; CEs as a contested concept: Real, True and non-CEs</li> <li>▪ How to frame circular economy business cases: The Umicore case</li> <li>▪ Materiality: Value Propositions and Circular Economy Business Models: A case from Reverse Logistics -If we live in a world of materials, what are the business models of and for circular economies? What are the value propositions for reverse logistics activities such as reusing and recycling materials? How may these be compromised and even polluted? Can industrial designers provide smarter solutions?</li> <li>▪ Governing Transitions of Circular Economy: EPR perspective-Role of disruptive technologies in the governance of transitions to circular economies by promoting extended producing responsibility (ERP) to eradicate the informal sector.</li> <li>▪ Case related to building business models for alternative solutions</li> <li>▪ Inside the sustainability business: How are businesses adopting circular economy models? Corporate futures of and for CE? Impact of circular economy practices on supply chain (Circular supply chain)? Circular economies and the SDGs: A Global Shift?</li> <li>▪ Metrics: How do we quantify circularity &amp; sustainability? : How do we benchmark and quantify sustainability? Specifically, how do we measure circularity? How do we know what the carbon footprint or environmental impact of any given product or service is?</li> <li>▪ Circular economy cases in Indian Context: What CE-related works were done in India? What is the readiness and maturity level of CE implementation in India?</li> <li>▪ Cases of Circular Economy adoption in India</li> </ul>
<b>You should attend if...</b>	<ul style="list-style-type: none"> <li>▪ Executives, engineers and researchers from manufacturing, service and government organizations including R&amp;D laboratories.</li> <li>▪ Student at all levels (BTech/MSc/MTech/PhD) and Faculty from academic and technical institutions.</li> <li>▪ Non-governmental organization (NGOs) &amp; community based organization (CBOs).</li> </ul>
<b>Course fee</b>	<ul style="list-style-type: none"> <li>▪ <b>Industry/Govt./Research organizations:</b> Rs. 3,500/-</li> <li>▪ <b>Faculty/staff from academic institutions:</b> Rs. 3,500/-</li> <li>▪ <b>Research scholar/Student:</b> Rs. 2,500/-</li> </ul> <p><b>Additional 18% GST as per Govt. of India norms is applicable on the course fee.</b> The course fee covers the course materials, access to all the sessions, laboratory usage, and refreshments/working lunch between the course sessions. The interested participants will be provided single/shared accommodation in the Institute guest house/student hostel on self-payment basis, subjected to availability.</p>

# The Faculty



**Professor Kannan Govindan** is currently a Distinguished Professor with China Institute of FTZ Supply Chain, Shanghai, China, the head of Intelligent Supply Chain Center and the Professor and Head of Center for Sustainable Supply Chain Engineering with the Department of Technology and Innovation, University of Southern Denmark, Odense. He has been recognized as a Highly Cited Researcher in 'Engineering' for five years in a row (2018, 2019, 2020, 2021, and 2022) by Thomson-

Reuters/Clarivate Analytics. He has published more than 350 international journal articles (with 49850+ citations and an h-index of 119) in leading journals such as *Nature*, *European Journal of Operational Research*, *Omega*, *Decision Sciences*, *Journal of the Operational Research Society*, *Journal of Environmental Management*, *Journal of Cleaner Production*, *Computers & Industrial Engineering*, *Transportation Research Part E: Logistics and Transportation Review*, *Transportation Research Part D: Transport and Environment*, *European Management Journal*, *International Journal of Production Economics* and *International Journal of Production Research*. Many of his papers were selected as the ESI top 1% highly cited papers or 0.1% hot papers and highlighted as the Key Scientific Articles contributing to the excellence in Engineering and Environmental research. He is an executive editor of the *Journal of Cleaner Production*, Associate Editor of *Transportation Research Part E: Logistics and Transportation Review*, Senior Editor of *Industrial Management and Data Systems*, Editor of *Annals of Operations Research*, an area Editor of *INFOR: Information Systems and Operational Research*, and was a Guest Editor in journals such as *Decision Sciences*, *European Journal of Operations Research*, *Computers and OR*, *Annals of OR*, *Journal of Cleaner Production*, *International Journal of Production Economics*. Finally, he is an Editorial Board Member of several international journals. His research interests include digital supply chain, industry 4.0 on supply chain, sustainable development goals, reverse logistics, closed-loop supply chain, digitalized sustainable circular economy, green supply chain management, and sustainable supply chain management.



**Dr. Ravi Kant**, Associate Professor in the Mechanical Engineering Department of the Sardar Vallabhbhai National Institute of Technology (SVNIT) Surat, India. He has also worked as Visiting Assistant Professor at Industrial Systems Engineering (ISE) Programme of Asian Institute of Technology, Bangkok under the Scheme of Indian faculty secondment by the Ministry of Human Resource Development, New Delhi for a period of upto 16

weeks during the January, 2019 semester. He has about 12 years of teaching and research experience. His research interests are Decision Sciences, Supply Chain Management, Reverse logistics, Sustainable Supply Chain Remanufacturing, Knowledge Management, Lean & Six Sigma and Circular Supply Chain. He has guided 17 Ph.D. and more than 55 Masters of Technology (M.Tech) students. He has published more than more than 115 research papers in reputed International Journals and 80 papers in international conference proceedings. He has authored 02 text books on Operations Research and Industrial Engineering. He has developed Industrial Management Course in Pedagogy Framework under the National Mission Project on Education through ICT (Main Phase), Government of India. He has conducted 10 short term training programs and 4 international conferences. He has received awards for his research works like top 10 Most Outstanding

## Course coordinator:

**Dr. Ravi Kant**  
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Researcher-2017 in India under the category of Business, Management and Accounting by Carrier360, Special Award-2014 and Dr J. M. Mahajan Award -2017 for continuous innovative development of Industrial Engineering in its operation and significant encouragement to the industries in India by Indian Institution of Industrial Engineering, Navi Mumbai

## Registration process

### Step 1: One Time Web (Portal) Registration

The candidates are advised to visit GIAN Website using the link: <https://gian.iitkgp.ac.in/GREGN/index> and create Login User ID and Password. Fill up the blank registration form and do web registration by paying Rs. 500 online through Net Banking/Debit/Credit Card. This provides the candidate with life-time registration of the GIAN portal to enroll in any number of the GIAN courses offered. **Those candidates, who have already enrolled at the GIAN portal, need not register again.**

### Step 2: Course Registration (Through GIAN Portal)

Log in to the GIAN portal with the user ID and Password created. Click on “Course Registration” option given at the top of the registration form. Select the Course titled ‘**Circular Economy for Business**’ (**Course code: 191033G02**) from the list and click on ‘Save’ option. Confirm your registration by Clicking on ‘Confirm Course’

### Step 3: Course fee payment

After registration on GIAN portal, the course fee is to be paid online in the account of SVNIT Surat, the details of which are given below:

#### Course Fee

- Industry/Govt./Research organizations: Rs. 3,500 (+ 18% GST)
- Faculty/staff from academic institutions: Rs. 3,500 (+ 18% GST)
- Research scholar/Student: Rs. 2,500 (+ 18% GST)

#### Account Details

Bank: State Bank of India  
Name: Director, SVNIT-CCE  
Account Number: 37030749143  
IFSC Code: SBIN0003320  
MCIR Code: 395002012

#### Scan code:

MERCHANT NAME: DIRECTOR SVNIT CCE  
UPI ID: DIRECTORSVNITCCE@SBI

**SCAN & PAY**



The participants should pay registration fee through online mode (NEFT/IMPS/SCAN & PAY) and fill in the transaction ID/details in the Google Form using the link given in Step-4.

### Step-4:

After online payment of course fee, fill the google form Registration link given below: [Circular Economy for Business \( December 11-05, 2023\) \(google.com\)](#)

You will receive the final confirmation of participants from the course coordinator after few days of completion of all steps.

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