



शिक्षा मंत्रालय
MINISTRY OF
EDUCATION

सायमेव जयते



CIRCULAR AND SUSTAINABLE MULTI BUSINESS MODEL INNOVATION & TECHNOLOGY

Overview

This is a course that focuses on Circular and Sustainable Multi Business Model Innovation & Technology. The design, reengineering and development of Circular and Sustainable Multi Business Model (CSMBM) integrates CSMBM Innovation, CSMBMI strategies, CSMBMI Development and CSBM cases. This course also integrates CSMBM Innovation thinking concept into the Multi Business Model Innovation and development process. CSMBMI case studies are presented that showcase how strategic CSMBMI ideas can lead to successful technologies and Business models in the Business Model Ecosystem.

This course will talk upon the basics of CSMBMI and present all facets of CSBM design, reengineering and CSMBMI development. This course gives students an opportunity to design, reengineer and develop a Business Model that they can eventually make a CSBM business case as a further follow-up when the course ends. This is done with tailor-made CSMBMI tools, technologies, mindset playing the key role of enabling the CSBM.

The major topics include Circular and Sustainable Business Model design, reengineering and development thinking methodology, opportunity identification and business case evaluation.

Practical aspects of CSMBMI and development are also covered. Examples from CSMBMI and development business cases will be used extensively.

Additional communications, presentations skills workshops (both verbal and written), and interactive sessions will be the key components.



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Course Objectives

The course is intended for undergraduate and graduate students (B. Tech, M. Tech, MBA, M.Sc., Ph.D. students) as well for faculty pursuing research. This course is for those who wish to explore their dream of becoming a scientist, inventor, innovator, researcher, business professionals, technology incubators and engineering leaders in CSMBMI and Development.

The key objectives for those who will attend this course are as follows:

- To harness the power of CSMBMI & supporting technology
- To understand the CSMBMI and development processes
- To appreciate the multi-disciplinary approach to design, re-engineer and develop CSBM's and lead CSMBMI processes.
- To acquire the confidence & competence in CSMBMI and Development

Course Information	<p>Duration: 10th February 2025 – 21st February 2025</p> <p>Place: National Institute of Technology Silchar, Assam, India</p> <p>Total Contact Hours: 32 hours (26 hours lectures and 6 hours tutorials)</p>
Modules and schedules	<p>A: <u>Day 1: 10-02-2025</u></p> <p>Inauguration</p> <p>Lecture 1 (1h): Introduction, vision & goals, historical view of CS business models</p> <p>Lecture 2 (1h): State of the art, models & paradigms, methodologies & topologies of CS business models</p> <p>Lecture 3 (1h): CS business model cube, portfolio, dimensions and components</p> <p>Lecture 4 (1h): Circular and sustainable business models, innovation approach</p> <p>B: <u>Day 2: 11-02-2025</u></p> <p>Lecture 5 (1h): State-of-the-art definitions, models and paradigms, methodologies and topologies of CS Multi Business Model</p> <p>Lecture 6 (1h): “To-be” and “As-is”, Incremental, radical and disruptive CS Multi Business Model Innovation</p>



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Lecture 7 (1h): The task of CS Multi Business Model Innovation

Lecture 8 (1h): A process of CS Multi Business Model Innovation

C: Day 3: 12-02-2025

Tutorial (1h): Circular & Sustainable (CS) Multi Business Model Innovation and Development

Tutorial 2 (1h): CS Multi Business model and technology innovation

D: Day 4: 13-02-2025

Lecture 9 (1h): Relations in CS Business models, Relations between CS and other Business Models

Lecture 10 (1h): Technologies for mapping network- based CS Business models and relations

Lecture 11 (1h): “CS Business Model ecosystems”

Lecture 12 (1h): How to define? Relations between CS Business Model and other Business Model Ecosystems

E: Day 5: 14-02-2025

Lecture 13 (2h): CS Technology-based Multi Business Model

Lecture 14 (1h): Working with CS Technology-based Multi Business Model

Lecture 15 (1h): Innovation case

Lecture 16 (1h): Examen report

F: Day 6: 15-02-2025

Tutorial 3 (1h): CS Multi Business Model Relation Axiom and CS Business Model Ecosystems

Tutorial 4 (1h): CS Technology-based Multi business model innovation case

G: Day 7: 17-02-2025

Lecture 17 (1h): Digital competence and capabilities In CS Multi Business Model Innovation

Lecture 18 (1h): Digital technologies to support CS Multi Business Model Innovation



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	<p>Lecture 19 (1h): AI and CS Multi Business Model Innovation</p> <p>Lecture 20 (1h): Other Competences in CS Multi Business Model Innovation</p> <p>H: <u>Day 8: 18-02-2025</u></p> <p>Lecture 21 (1h): CS Multi Business Model Innovation leadership and management, Capex, Opex and Finance, Strategies within CS Technology- based business model</p> <p>Lecture 22 (1h): CS Multi Business Model Capin, Opin and funding, “CS Tripple Bottom Line”, Innovation Learning</p> <p>Lecture 23 (1h): Risk, complexity and degree, Key performance indicators of CS Technology-based Multi Business Model Innovation</p> <p>Lecture 24 (1h): Green technology-based business model, CS Business Models to Green Symbiosis Business Value Network</p> <p>I: <u>Day 9: 19-02-2025</u></p> <p>Tutorial 5 (1h): CS Multi Business Model Innovation and Digital competences/capabilities</p> <p>Tutorial 6 (1h): CS Multi Business Model Innovation Peter Leadership, Management and Implementation</p> <p>J: <u>Day 10: 20-02-2025</u></p> <p>Lecture 25 (1h): Working with CS Technology- based Multi Business Model</p> <p>Lecture 26 (1h): Innovation Case and examen report</p> <p>K: <u>Day 11: 21-02-2025</u></p> <p>Presentation cum Examination (2h): Hand in report/presentation for the examination in CS Technology- Based Multi Business Model Innovation Case</p> <p>Valedictory</p>
Who can attend ...	<ul style="list-style-type: none">➤ Executives, engineers and researchers from manufacturing, service and government organizations including R&D laboratories.➤ Students at all levels (BTech/MSc/MTech/MBA/PhD).➤ Faculty from reputed academic and technical institutions.



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	<p>➤ Others who want to learn the basic and advanced concepts dealing with technology-based CS Multi Business Model Innovation.</p>
Fees	<p>The participation fees for taking the course is as follows:</p> <ul style="list-style-type: none">a. Participants from abroad: USD 250b. Participants from Industry/Research Organizations: Rs. 5000/-c. Participants from Academic Institutions:<ul style="list-style-type: none">i. Faculty member: Rs. 2000/-ii. External Students: Rs. 500/-iii. Internal Ph.D. Students: Rs. 500/-iv. Internal UG & PG Students: Nil <p>The above fee includes all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, 24 hours free internet facility. The participants may be provided with accommodation (single/sharing) on payment basis.</p>

The Faculty (Experts)

Peter Lindgren
Professor, PhD
CTIF Global Capsule (CGC)
Aarhus University, Denmark



Peter Lindgren is a distinguished professor in Multi-Business Model and Technology Innovation at Aarhus University, Denmark. He serves as Vice President of CTIF Global Capsule (CGC) and has held key roles such as Director of the CTIF Global Capsule/MBIT Research Centre and member of the Aarhus University Research Committee.

With a career spanning over two decades, Lindgren is an expert in high-speed network-based innovation, interdisciplinary research, and technology-driven business development. His international academic engagements include research tenures at Politecnico di Milano (Italy), Stanford University (USA), and Tor Vergata University (Italy).

He has founded and co-founded numerous research groups and initiatives, including the International Centre for Innovation and the MBIT research group. His projects span areas such as e-business, green business models, 5G technologies, and drone ecosystems, supported by over 30 funded research grants.

Lindgren has published 180+ journal and conference papers, authored nine books, and supervised multiple PhD candidates. His work focuses on multi-business model innovation, sensing and virtual business models, and interdisciplinary network research.

An entrepreneurial researcher, he has co-founded startups such as The Bee Business and DigiBusiness. He is an active member of global networks like the Academy of Management and serves as a scientific advisor for EU Future Internet Enterprise Systems on business model innovation.

Key Accomplishments:

- Author of several notable books and research papers.
- Organizer of major conferences across Europe and the US.
- Expertise in green and digital business model innovation.
- Fluent in multiple languages, including Danish and English.



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Course Coordinators

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About Silchar

Silchar is the second largest town in the state of Assam. It was the kingdom of the Kachhari kings from 1755 to 1830. It was annexed to the British East India Company in 1833. The city has now attained a cosmopolitan status with inhabitants from all over India although Bengali speaking people constitute the majority. It is an educational and business hub in North East India next to Guwahati. Aesthetically the campus is very beautiful with greeneries and wet lands.

During the month of February, the weather in Silchar is quite pleasant at 25°C.





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How to reach NIT Silchar

The city is well connected by Road, Train and Air. There are direct flights from Kolkata and Guwahati and trains from New Delhi, Kolkata, Guwahati, and Agartala. Daily bus services are available from Agartala, Guwahati, Aizawl, and Imphal. The Institute is located around 35 kms from the Silchar airport, 10 kms from the Silchar railway station, 14 kms from ISBT Silchar, and 8 kms from the heart of the Silchar town. Prepaid taxi and auto services are available from Silchar.

Registration Guidelines (Step-by-Step):

1. Courses Registration for GIAN course may be done by paying the requisite fees as below through SBI collect.

SBI Collect Name: GIAN COURSE NIT SILCHAR, 2412241, Saurabh Verma

- a. Participants from abroad: USD 250
- b. Participants from Industry/Research Organizations: Rs. 5000/-
- c. Participants from Academic Institutions:
 - i. Faculty member: Rs. 2000/-
 - ii. External Students: Rs. 500/-
 - iii. Internal PhD Students: Rs. 500/-
 - iv. Internal UG & PG Students: Nil

2. Fill out the Registration form given below, sign it. Send the scan copy of the filled in form with scanned copy of course fee transaction slip obtained by SBI collect to the course coordinator e-mail address (saurabhverma@mba.nits.ac.in , ranjay@ei.nits.ac.in). This is for the Course Coordinator's record. Now, await the Course Coordinator's confirmation.



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GIAN: Global Initiative of Academic Network

**NAME OF THE COURSE: CIRCULAR AND SUSTAINABLE MULTI BUSINESS
MODEL INNOVATION & TECHNOLOGY**

(Course ID: 2412241)

Dates: 10-21 February, 2025

Department of Management Studies and Electronics and
Instrumentation Engineering, NIT Silchar, Assam, India

REGISTRATION FORM

GIAN Portal Application Number:

Full Name: Category (Industry/Academic/Student):

Organization:

Address:

Email Id:

Mobile Number:

Highest Academic qualification:

SBI Collect payment details:

Transaction Id/Ref No	Date	Amount

Accommodation Required: Yes/No (please tick in the applicable field)

Date:

Place:

Signature of Applicant