

## Capacity Building in Built Environment Sustainability Research (CAPABLE) Course

Lecture S.N.	Topic	Contents	Instructor
Lecture 01	Elements of circular economy	Basic of sustainability, Environmental issues, History of sustainable development goals and status of the country Sustainability and circular industrial economy	BNCA Dr. Amruta Garud
Lecture 02	Systems thinking for Circularity in the built environment	Distinction between linear economy and circular economy in the built environment	BNCA Ar. Ravindra Rahigude
Lecture 03	Design principles	Challenges in designing circularity based products. Relooking at design principles	BNCA Dr Sujata Karve
Lecture 04	Life cycle assessment	Background of life cycle assessment – Environmental, Social and Economic Case study of built environment	BNCA Ar. Nidhi Dixit
Lecture 05	Material science	Use of eco-friendly materials in built environment, Use of waste materials in built environment	BNCA Dr Vaishali Anagal
Lecture 06		Policies of Govt of India in promotion of circularity	Ar. Namrata Khatri
Lecture 07	Innovative green business models	Understand the nine principles and the leadership and essential indicators against each of the nine principles.	BNCA Dr Sujata Karve
Lecture 08		Construction and Demolition waste management as a green business opportunity	BNCA Dr Vaishali Anagal
Lecture 09	Policy framework	Regulatory requirements in India especially for industries, Sustainability reporting BRSR and BRSR core	BNCA Siddharth Bhagwat
Lecture 10	Stakeholder engagement and social aspects	Role of social stakeholders in circular economy, Role of unorganised sectors in delivery of circular economy – a case study of used vehicles	Dr. Bakul Rao IIT Bombay
Lecture 11	Energy efficiency in the built environment	Introduction and importance of energy efficiency, system thinking approach in energy efficiency, energy use in building	BNCA Ar. Namrata Dhamankar
Lecture 12	Energy conservation and climate goals	Role of energy conservation in meeting climate goals, energy conservation policies, codes, action plans	BNCA Dr. Prajakta Dalal