

REPORT OF ASIA BOOK OF RECORDS ORGANISED BY CENTRES

Name of Centre / Overseas Chapter:	Kancheepuram Local Centre
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Title of Activity:		ACADEMIC & INDUSTRY CONCLAVE ON GREEN SUSTAINABILITY	
Date:	DAY 5 11-05-2022	Venue:	Sathyabama Institute of Science and Technology, Chennai-600119.



Banner

Report on SUSTAINABLE GREEN AGRICULTURE

Brief about the Programme:



The first session was handled by Dr. E. Anna Devi, Associate Professor, Department of ECE, Sathyabama Institute of Science and Technology on the topic “Sustainable Green Agriculture”. Sustainable agriculture is one that produces abundant food without depleting the earth's resources or polluting its environment. It is agriculture that follows the principles of nature to form systems for raising crops and livestock that are, like nature, self-sustaining. The main components of both sustainable farming and conventional farming are exactly the same: soil management, crop management, water management, disease/pest management and waste management. The session gave a new perspective about various techniques approaches, importance of sensors and IoT in real time applications.

SUSTAINABILITY PRODUCT CYCLE - SUSTAINABLE DEVELOPMENT GOALS

Brief about the Programme:



The second session was handled by Dr. D.Prabu, Associate Professor, Department of Chemical Engineering, Sathyabama Institute of Science and Technology on the topic “Sustainability product cycle - Sustainable development goals”. Life Cycle Sustainability Assessment (LCSA) emerged as a methodology allowing a detailed representation of technologies in their processes from a life cycle perspective. From a Sustainability perspective, the currently dominant political framework is the Sustainable Development Goals (SDGs). Sustainable Development Goals are accompanied by targets and will be further elaborated through indicators focused on measurable outcomes.

SUSTAINABILITY IN PROCESS ENGINEERING

Brief about the Programme:



The third session was handled by Dr. D. Venkatesan, Associate Professor, Department of Chemical Engineering, Sathyabama Institute of Science and Technology on the topic “SUSTAINABILITY IN PROCESS ENGINEERING”. Sustainable process engineering is a methodology to design new and redesign existing processes that follow the principles of green chemistry and green engineering, and ultimately contribute to a sustainable development. The newest achievements of chemical engineering, opened new opportunities to design more efficient, safe, compact and environmentally benign chemical processes.

**BIOREFINERIES FROM THE PERSPECTIVE OF
SUSTAINABILITY – FEEDSTOCKS, PRODUCTS AND
PROCESS - A WAY TO SUSTAINABLE ENVIRONMENT**

Brief about the Programme:



The fourth session was handled by Dr. S. Sathish, Associate Professor & Head, Department of Chemical Engineering, Sathyabama Institute of Science and Technology on the topic “BIOREFINERIES FROM THE PERSPECTIVE OF SUSTAINABILITY – FEEDSTOCKS, PRODUCTS AND PROCESS - A WAY TO SUSTAINABLE ENVIRONMENT”. Nowadays, eco-designing products are increasingly practiced. The next challenge for sustainability is to optimize production processes. Biorefineries are particularly concerned with this improvement, because they use renewable resources. Indeed, Life Cycle Costing and Social Life Cycle Assessment can be performed to obtain an integrated methodological framework. The simultaneous optimization of the environmental, economic, and social performances of the process can lead to antagonist ways of improving.