

Sustainable Engineering

SWAYAM Prabha Course Code – G7

PROFE	SSOR'S NAME	Pro	f. Yogendra Shastri	
DEPAR	TMENT	Che	mical Engineering	
INSTIT	UTE	Indi	an Institute of Technology, Bombay	
COURS	E OUTLINE	Ach eco mos des dec sust bey des phe bas vari sust fun bala cou to t qua mal	ieving sustainable development by balancing the long-term nomic, environmental and societal objectives is one of the st complex scientific problems of our times. Engineering igns need to increasingly incorporate these aspects in ision making. However, translating the concepts of tainability into decision making is not trivial. This topic goes ond the traditional areas of process development, process ign, and industrial ecology, and encompasses multi-scale nomena and complex interactions of multiple disciplines. It omes essential to take a holistic view and develop systems ed solutions. It is also important to expose students to the ous methods and tools that can be used for designing tainable systems. These methods and tools are based on damental concepts in engineering such as mass and energy ance, thermodynamics, and probability and statistics. This rse will aim to achieve this objective. The course is intended each students the fundamentals of sustainability as well as intitative methods and tools that can be used for decision king (design) for sustainability.	
COURSE DETAILS				
S. No	Module ID/ Lectu	ire ID	Lecture Title/Topic	

1	L1	Introduction to Sustainable Engineering Principles
2	L2	Interpretation of Growth
3		
4		

References if Any: