

Subject: PG Elective course for Environmental Science/biological science/chemistry/Agriculture

Course: Biomass characterization

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Module Title 39. Future directions on biomass energy

Module ID: FD/FDBE/39

Objectives: To study the advantages of biomass and advancement in the technologies and methods that will support to convert the various biomass sources into different energy forms.

Key words: Biomass; Renewable ethanol; Advances; Future prospects; Algae biomass.

Prerequisites: Energy in biomass; Biomass sources; Types of biomass; Methods of biomass conversation.

Outcome: At the end of the module, learners get information about the importance of biomass energy for a sustainable development, and the current technologies of biomass conversion as well as future directions on these technologies for improving it.

39.1. Introduction