





Subject: PG Elective course for Environmental Science/biological science/chemistry/Agriculture **Course: Biomass characterization Development Team** Corse Coordinator: Dr.K. Arunkumar, Ph.D Associate Professor& Head, Department of Plant Science, Central University of Kerala, Kasaragod-671320, Kerala, India Content Writer: Dr.K. Arunkumar, Ph.D Associate Professor& Head, Department of Plant Science, Central University of Kerala, Kasaragod-671320, Kerala, India Content Reviewer: Prof. Dr.R.Rengasamy, Ph.D **Director Rtd** Centre for Advanced studies in Botany University of Madras, Chennai-620 025, India

Module Title : 5. Forms of Biomass: Liquid

Id :FBL/LBOA/5

Pre-requisites: Forms of biomass, Plant and animal oils, source of oils, biodiesel,

types of alcohol.

OBJECTIVES: To study

- Various forms of liquid biomass
- Sources of various liquid biomass

KEYWORDS: Biomass forms, liquid biomass, oil crops, liquid fuel, higher alcohol, biodiesel.

OUTCOME: At the end of this module learners understand the various types of liquid biomass fuel, source of availability, part of biomass in which oil get accumulated, site of oil synthesis, various oil crops for biofuel, transesterification and biodiesel production and biomass for various types of alcohol production and its fuel application.

5.1 Introduction

In this module, we discuss about what is liquid biofuel?, various forms of liquid biomass and sources of various liquid biomass, in detail.

5.2 What is liquid biomass?

Liquid biomass refers to biomass in liquid form or any kind of liquid obtained from a solid biomass which can be processed to converted into biofuel. The conversion