



**AGRICULTURAL
ENGINEERING**

FOREST BIOMETRY

Instructor Name : PROF. MAINAK DAS / DR. ANKUR AWADHIYA (IIT Kanpur - Others)

COURSE DURATION : Aug-Oct 2017 **CORE / ELECTIVE :** Core **UG / PG:** Both

PRE-REQUISITES : Has cleared 10+2 with science

INTENDED AUDIENCE : Officers and staff of Forest departments, Students of Forestry, Students of Agriculture, Policy makers

INDUSTRIES APPLICABLE TO : Green energy industries, Renewable energy / materials industry, Bio-fuel industries, Paper and pulp manufacturing industries, Plywood industries, Agroforestry industries

COURSE OUTLINE : This course aims to provide an overview of the methods of measuring the tree resources present in the forest. Going by the adage whatever can not be measured, cannot be managed, the estimation of the tree resources becomes crucial for managing a forest. It is important whether the forests are to be managed for commercial purposes such as wood production and energy production, or for non-commercial purposes. Forest biometry forms the foundation for the preparation of working plans that are technical documents for the working of any forest in India. The course will not only focus on the theories of measurement, but shall also provide an overview of the instrumentation basics of various equipment used for the purpose.

ABOUT INSTRUCTOR : Dr. Ankur Awadhiya (B. Tech IIT Kanpur 2009, Ph. D IIT Kanpur 2015, AIGNFA IGNFA Dehradun 2016) is an IFS officer borne on the Madhya Pradesh cadre. His interests include photography, tourism, research, instrumentation and creative literary pursuits.

COURSE PLAN

Week 1: Introduction

Week 2: Tree form

Week 3: Tree diameter

Week 4: Tree height

Week 5: Tree canopy

Week 6: Basal area

Week 7: Volume

Week 8: Measurement of other attributes