

RFRI CONDUCTS TRAINING AND SKILL INTERNSHIP ON “PREPARATION OF ALLOMETRIC MODELS FOR ESTIMATING VOLUME AND ABOVEGROUND BIOMASS OF STANDING TREES USING NON-DESTRUCTIVE APPROACH”

Rain Forest Research Institute, Jorhat (Assam) conducted 6-week long training and skill Internship on “Preparation of Allometric Models for Estimating Volume and Aboveground Biomass of Standing Trees Using Non-destructive Approach” during 16th June, 2022 to 31st July, 2022. The training programme was sponsored by the Science and Engineering Research Board of Department of Science and Technology (DST-SERB) under Training and Skill Internship (‘VRITIKA’) component of ‘ABHYAAS’ programme of Accelerate Vigyan Scheme. There were total three Interns from North Eastern Regional Institute of Science and Technology (NERIST), Nirjuli, Itanagar (Arunachal Pradesh). These Interns were selected through an advertisement given online as well as offline platforms. The Training was inaugurated by Dr. R.S.C. Jayaraj, IFS, then Director of the Institute. He explained about the importance of allometric models and their use in forest management.

Main objective of the Internship was to train participants in estimation of total volume of standing trees using non-destructive sampling approaches. Initially, Interns were taught about the principles of Forest Mensuration, volume and biomass equations and their application in forestry. Shri Ajay Kumar, Scientist D, RFRI, Jorhat provided hands-on training on handling of modern forestry instruments, like Gator Eyed Calliper, Basal Area Factor Scope (Dendrometer) and Range Finders. Basal Area Factor Scope can measure the diameter of standing trees at various intervals of height. During training programme, all Interns were given the task to measure trees of nearby tea gardens, homestead and other Tree outside Forest areas. During the entire tenure of the internship, Interns collected data of around 200 trees, viz. *Albizia* spp., *Artocarpus heterophyllus*, *Mangifera indica* etc of various girth classes. The Interns were also trained in data analysis and development of best fit volume equation using MS Excel Solver add-in programme.

The trainees were also taught about the research writing and ethical issues in research. Dr. Vishwanath Sharma, Scientist B, RFRI, Jorhat delivered a presentation on the topic. He talked about plagiarism, copy write and research ethics in conducting research and writing research articles.

The valedictory session of the Internship programme was held on 1st of August 2022 where Dr. R. K. Borah, Director, RFRI distributed the Certificates to the Interns.



Measuring of trees in Tea garden and homestead areas



Use of Basal Area Factor Scope (Dendrometer) in measuring the trees



Lecture by Dr. Vishwanath Sharma, Sc. B on Ethical Issues in research



Hands on training by Sh. Ajay Kumar, Sc. D on Data analysis in MS Excel



Certificate distribution to the Interns

