



ICAR-Central Agroforestry Research Institute Jhansi :: Uttar Pradesh

F.No. Director/2020/1

Date: 20-11-2021

NOTIFICATION

It has been noticed that there is an increase in the number of students who desire doing short-term internship/dissertation/thesis work in ICAR-CAFRI. In addition, there are already a few who are working with the Institute in various capacities for assisting research activities in the Institute as YPs, JRFs, SRFs, RAs and/or Project Associates, etc.

It has been decided to take up this as a mechanism for Human Resource Development by our Institute so as to capacitate them with agroforestry knowledge and skills so that they act as Ambassadors of agroforestry when they complete their attachment period. Keeping this in view, it has been decided that such incumbents shall have to undergo a 15-day capsule course on a compulsory basis (Course details given in Annexure 1). Mr. Suresh Ramanan, Scientist, ICAR-CAFRI is nominated as Course Coordinator.

All the existing research personnel hired in the Institute/Sponsored Research or Consultancy Projects/AICRPs/AINPs and others and those who are doing their internship/dissertation/thesis work from ICAR-CAFRI are hereby directed to get themselves registered on or before 30th November 2021, and complete the course by December, 2021.

This process will become a routine, twice a year, depending on the enrollment strength. Eventually, the admissions shall be assigned batch/roll numbers accordingly. The guideline for operationalizing this activity is given below:

- All those who are chosen as YPs/JRFs/SRFs/RAs and in any other research assignment afresh shall have to submit this course registration form (Annexure 2; available in the Institute website) for this compulsory course within a week of his/her joining the institute. The Course Coordinator shall verify and recommend the students for admission to the course to Chairman, Higher Education Committee who will then forward it to the Director, ICAR-CAFRI for final approval. The registered candidates shall be notified by the Chairman, Higher Education with a copy to Director, ICAR-CAFRI and the Course Coordinator.
- Once approval is granted, the Course Coordinator shall prepare the timetable for the course in consultation with the Chairman, Higher Education and circulate to the registered candidates. 100% attendance is compulsory. Continuous assessment methods such as quiz, assignments and written test shall be ensured by the Course Coordinator. Upon successful completion, the candidates shall be given a Certificate from ICAR-CAFRI Management.
- Any others not mentioned here shall be decided with the approval of Director, ICAR-CAFRI.

This is issued for adoption with immediate effect.

(A. Arunachalam)

20 November, 2021

To: All Employees of ICAR-CAFRI for information and with a note to disseminate this message to those working under their guidance/supervision.

Copy to: PME, CAFRI; Chairman (Higher Education Committee); Mr. Suresh Ramanan S (Scientist)

Course Code: CAFRI 001

Course Title: Agroforestry R&D Methodologies (4 credits: 1 Theory+1 Tutorial+2 Practice)

Unit 1 (3 working days)

1. Introduction to agroforestry: Definition, Global Perspectives and National Priorities
2. Agroforestry Systems: Typology, Ecology, Biodiversity, Livelihood and Environmental perspectives; Industrial agroforestry
3. Agroforestry Policy: National Agroforestry Policy 2014; Institutional Arrangements and Strategies for agroforestry extension, and upscaling; Impact assessment

Unit 2 (7 working days)

1. Research Methodology: Introduction to research ethics; Objective and motivations in research.
2. Defining the research problems: what is Research Problem, selecting the Problem, Necessity of and Techniques in defining the problem.
3. Types, approaches and significance of research. Research methods and procedure-historical, philosophical, descriptive, experimental, ex-post facto. Research and Scientific Methods, Research Process, Criteria of Good Research.
4. Literature collection and scientific writing: Search engine introduction; database accessing and retrieving research paper from back volumes/archives; reference management; Ethics and Plagiarism; Common error in Language; Abstract/Editorial/Book Review writing; Introduction to review articles, oral and poster presentations.
5. Publication ethics and introduction to scientific journals
Importance of publishing research papers: (a) Preliminaries, Format, Choosing Journal, (b) Title, Running Title (c) Authors: Single and Multi-authorship (d) Writing Abstract (e) Introduction section (f) Materials and Methods Section (g) Results and discussion (h) Figures: Design Principles, Legends, Table components, Graphs: Types, Style, Tables v/s Graphs (i) Acknowledgements (j) References: Different Styles (k) Selecting Keywords (l) Communication with the Editor, Handling Referees' Comments, Galley Proofs.
6. Fundamental statistics and experimental design
Analysis of data: qualitative and quantitative methods, statistics related parametric and nonparametric techniques. General or basic principles of design of experiment
Various of experimental design. Basic designs-completely randomized design, randomized block design and Latin square design
7. Science Communication: Questionnaire survey, PowerPoint presentation and role of audio-video

Unit 3 (5 working days)

1. Field Tour (half-a-day)
2. Introduction to Nursery Management: Identify and select proper site and quality planting materials; forest nursery and nursery beds: Introduction to farm tools and machinery, design layout, undertake fencing, prepare nursery beds as per the plant requirements, ensure sterilization of nursery beds etc.
3. Seed collection, sowing and raising seedlings
4. Nursery management practices: timely irrigation, manure and fertilizer application, weed management, pest & disease management, safe handling and transportation of nursery plants etc.
5. Hands-on training and skilling in nursery management



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**CAPSULE COURSE REGISTRATION FORM
(Academic Session: July-December/January-June; Year: 20__)**

1. Name of the applicant:
2. (a) Designation: (b) Date of Joining:
3. Project/Programme/Section Details:
4. Name of the Supervisor/PI/Project Coordinator:
5. Course details:

Course Code	Course Title	Course Credits	Batch*

*will be allotted by the Institute

Signature with date

Comments of the Supervisor/Project Investigator/Coordinator:

Signature

Remarks of the Programme Leader (PL):

Signature

Forwarded by

Chairman, Higher Education

Approved/Not Approved

Director, ICAR-CAFRI