

PLACEMENT BROCHURE

**M.Sc. Forestry
(2016-18)**



*Driving Action
Fostering Motivation
Processing Innovation*

**FOREST RESEARCH INSTITUTE (DEEMED TO BE UNIVERSITY)
DEHRADUN-248 006, UTTARAKHAND, INDIA**





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From the Vice Chancellor's Desk



The Forest Research Institute (FRI), founded in 1906, is a premier institute in the field of forestry research and education. FRI, one of the institute of the ICFRE, Dehradun, was conferred the status of University in the year 1991 on the recommendation of the UGC, Ministry of HRD, Government of India.

The M.Sc. Forestry programme started in 1991 is designed to train students as future foresters and provides up to date knowledge on forestry practices all over the world. New and relevant courses like GIS and Remote sensing, Wildlife Management and Protection, Eco-development and Tourism, Marketing system and Project Formulation have been added to supplement the already existing courses that includes traditional streams of forestry such as Silviculture, Management and Mensuration. Equal emphasis is maintained on course work and field exposure during the entire programme.

The faculty includes eminent scientists and field officers having a long experience of teaching and research. The programme is well equipped to handle the ever dynamic field of forestry and also exposes the students to Silviculture, Management, Bio-fertilizers and Protection related issues.

On behalf of this prestigious Institution, I take the pleasure of inviting Industries, Corporate, Business organization, NGOs and other employers to organize campus recruitment programme in our University and assess the caliber of our budding foresters. I am confident that a visit to our Institute will be mutually beneficial.

I wish all the students of M.Sc. Forestry the very best in their career. I am sure that they will make significant progress in their profession.

Dr. Savita, IFS
Vice Chancellor,
FRI (Deemed to be University), Dehradun



Forest Research Institute (FRI) is a flagship research institute of Ministry of Environment, Forest and Climate Change, Government of India (GoI) under the aegis of Indian Council of Forestry Research and Education (ICFRE). It has a long history of forestry and allied research. FRI enjoys the status of an ISO 9001:2008 certified organization. Research on every aspect of Environment and Forests like Climate Change, Environment Impact Assessment, Silviculture, Ecology, Hydrology, Pathology, Entomology, Chemistry of Forest Products, Non-Wood Forest Products, Forest Genetics, Tree Propagation, Forest Soil and Land Reclamation is conducted through projects of regional, national and international importance through its dedicated divisions of the respective disciplines. FRI has its roots in the erstwhile Imperial Forest Research Institute (IFRI) established in 1906. The Institute was established basically to organize and lead forestry research activities in the South Asia. The Institute also administered training to forest officers and forest rangers in the country. After Independence, IFRI was aptly renamed as Forest Research Institute and Colleges. After a long way in successfully undertaking the lead role in forestry sciences, in 1986, forestry research set up was re-organized to meet the new dimensions of forestry research and education in the country by bringing the research under the common umbrella of ICFRE. Forest Research Institute was conferred the status of Deemed University in 1991 by University Grants Commission under section 3 of U.G.C. Act 1956 to fulfill the needs of forestry and environment professionals in the country with following objectives:

- To impart education in different branches of forestry and environment.
- To provide facilities for research and development and dissemination of knowledge in the field of forestry and environment.
- To create consciousness about forest and environment among people through forestry extension programmes.
- To carry out such other activities as may be necessary and desirable for further safeguarding of environment, protection of forests and wildlife.

FOREST RESEARCH INSTITUTE AT A GLANCE





About M.Sc. Forestry

Masters in Forestry programme aims to provide opportunity to the students wishing to pursue professional careers in the management and policy of forest resources and to make themselves aware about the problems related to forest. The syllabus draws from coursework in the natural and social sciences and focuses on the complex relationships among the science, management and policy of forest resources. The structure of the curriculum is designed to synthesis the knowledge in multiple disciplinary exposures of biological and social sciences. The goal is to prepare students to manage forest resources for various public and private values within a complex social, political and ecological environment. These professional opportunities can be private or public sector forest management, corporate or consulting, government conservation of forest resources or education. Students are also expected to improve their capacities as leaders and managers through summer internships, professional skills courses and other opportunities.

ACADEMIC COURSE AND TRAINING PROGRAMME

Silviculture Systems

Forest types, Locality factors, Forest regeneration, Tree forms, Silvicultural systems

Forest Nursery and Afforestation Techniques

Site selection, design and layout, Nursery soil and water management, Production schedule, Macro-and micro propagation, Propagation structure: shade house, poly house, mist chambers and growth chambers

Plantation Forestry

Plantation type, management, Selection of planting stock, Rotation and regeneration, Harvest and post harvest operations, Native vs exotics, Single species plantation v/s mixed species v/s multi-purpose trees (MPT) plantations

Social Forestry

Social and community forestry concepts, Role in rural, tribal and urban development, National forest policy, Social forestry plantations & management, Micro-level planning & PRA. Tree architecture, Tree landscaping, Elements of bio-aesthetic planting

Forest Mensuration

Measurement of tree diameter, height, girth, bark thickness, weight, tree cross-sectional area, form, crown width, empirical formulae, methods and instrument used, calculation of log volume. Volume estimation of standing trees, Determination of age and crop measurement.

Statistics and Research Methods

Basic statistical method, Importance statistics in forestry, presentation and data compilation, tabulation, Analysis of variance, one way and two way classification, Sampling technique, Design of experiment

Remote sensing and GIS

Basic principles and scope of remote sensing, Aerial photography and photo grammetry, GIS use in forest management, Forest inventory planning, design, alternatives, execution, compilation and reporting

Computer Application

Introduction to Microsoft Word, Microsoft Excel, Microsoft Power Point, Microsoft Access

Forest Protection

Principles of forest protection; factors affecting forest health outbreak of disease and insect attack; droughts and floods, anthropogenic activities, pollution, forest Entomology in relation to forest and forest produce, Disease, symptoms and Koch postulation, Plantation and nursery disease and their management; damping off, leaf blight, seedling blight, rusts, mildews, leaf spores

Forest Biology

Structure of plants, Morphological characteristics, Nomenclature and classification, General classification of plants, Phenology, Introduction to Zoology, Tree physiology

Soil Science

Basic geology, factors and process of soil formation, Soil profile and its development under different climate, topography and vegetation, Soil properties, Soil fertility and nutrients, Soil classification

Forest Resource Utilization

Wood seasoning and preservation, Composite wood, Adhesives, Wood based Industries, Classification and grading of Indian timbers for various wood based products, Wood substitution, utilization of plantation wood, Problems and possibilities, Non-timber forest products and their importance in rural and industrial economy, their distribution, cultivation, harvesting

Forest Economics

Fundamentals of economics, Forest resource economics, Project formulation, Implementation, Monitoring and evaluation

Forest Management

Objectives and principles of Forest Management, sustained yield, yield management, Valuation and appraisals- valuation principles, Interest and investment, Valuation of forest land and timber stand, Valuation of stumpage, tree, non-wood forest outputs, Valuation of financial alternatives, Appraisal of forest damage, Management and working plans; evaluating intensive management decision, working plans- preparation and control, National Working Plan Code

Range Management

Grass lands and ranges of India and of the State, Principle and practices of range land management, Range improvement and livestock management, Grazing system and rotational – nomadic- trans-humans, paddock, closure cycle, cut and carry cycle and carrying capacity, Joint forest management in range management

Natural Resource Management

Natural resource systems, Theoretic aspects of resource management, Forest biodiversity assessment, Forest damage assessment and monitoring, Land evaluation for forestry and forest inventory, Estimation of forest carbon

Wildlife Management and Eco-Development

A. Wildlife Management: Biodiversity and Wildlife, Animal-habitat studies, conservation biology, management of animal communities, habitat management, Man animal conflict, Conservation strategy Wildlife (Protection) Act, 1972 and Amended Act, 2002, Wildlife Management Plan

B. Eco Development: Eco-development in support of conservation & protected area management, Animal habitat studies, Macro and micro planning, Implementation of eco-development, Case studies

Term Papers

To develop the skill of research writing, Students have to review the literature in their field of interest related to forestry and have to submit a project report on a particular topic under the supervision of faculty to the university

Master Thesis

In final semester, students have full six months to conduct their own experiments and conclude the findings as theses reports. Students work on research problem and hypotheses under the supervision of a concerned faculty. It equips the students to pursue the goal in academic area or R & D and provides them an opportunity about identifying challenges and opportunities and helps them in solving problems through research and experimentation

ACADEMIC AND FIELD EXPOSURE

FIELD EXPOSURE

PARKS & SANCTUARIES

- Great Himalayan National Park, Himachal Pradesh
- Panna & Kanha National Park, Madhya Pradesh
- Bandipur National Park, Karnataka
- Periyar Tiger Reserve, Thekkady, Kerala
- Eravikulam National Park, Kerala
- Salim Ali Bird Sanctuary, Goa
- Gir National Park, Gujarat
- Snake Park, Chennai
- Government Museum, Chennai
- Madras crocodile bank, Chennai
- Jim Corbett National Park, Uttarakhand
- Mysore Zoological Park, Mysore



INSTITUTES

- C. F. T. R. I., Mysore
- I. I. Sc., Bangalore
- I. I. P., Dehradun
- I. I. R. S., Dehradun
- I. W. S. T., Bangalore
- I. F. G. T. B., Coimbatore
- National Institute of Oceanography, Goa
- Wildlife Institute of India, Dehradun
- NCBS, Bangalore



FIELD VISITS

- Sand Dune Rehabilitation & Restoration
- Watershed Management
- Management of High Coniferous Forest
- Reclamation of Mining Areas
- Social Forestry & Urban Forestry
- Joint Forest Management Technique
- Captive Breeding Programme Wasteland & Salt Marshes
- Shola Forests, Kerala



WHY SHOULD YOU HIRE OUR STUDENTS?

We know the value of highly skilled manpower in the field of forestry. Hence, we emphasize on foundation knowledge as well as state of art training and practical exposure. We ensure that this Masters course of FRI (Deemed to be University) sculpture a student as a professional forester who is totally job-ready in any sector of paper this field. Given below are the combinative points as why are students are the best to fit into paper related jobs:

1. **They are capable enthusiasts:** Our students have strong foundation and practical knowledge regarding forestry from silvicultural techniques to forest economics to forest certification and from biodiversity conservation to yielding the best quality wood. These young enthusiasts are always ready to learn and fit into any professional position.
2. **Knowledge beyond classroom:** The students get regular boost through practical assignments, summer trainings and academic field tours, R & D exposure and research based dissertation that leaves no stone unturned to prepare them for future career.
3. **They are the groomed leaders:** Besides study, our students are motivated to take active participation in sports, cultural activities, interactive forums, student clubs etc. to build their quality as team workers and leaders so that they can exploit the best of their capabilities and flexibly fit into diverse opportunities.

INDUSTRIES WHERE OUR ALUMNI ARE PLACED

2015-2017 Batch

- **M/s Goel Exports, Gurugram, Haryana**
 - **M/s Century Plyboards (P) Ltd. Kolkata, West Bengal**
 - **HCL Foundation, Lucknow, Uttar Pradesh**
 - **Chhattisgarh Forest Department, Chattisgarh**
 - **Bilt Yamunanagar, Haryana**
-so on and so forth....
-waiting opportunity...

STUDENTS PROFILE (2016-2018)

AAHELI CHAKI



Graduation: B.Sc. (Hons.) Botany

Area of Interest: Plant Taxonomy, Molecular Genetics & Biotechnology, Forest Certification, Agroforestry and Eco-Development

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ABHISHEK KHANNA



Graduation: B.Sc. Botany

Area of Interest: Forest Biotechnology, Molecular Genetics, Tree breeding and improvement and Plant Systematics.

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ANAND ANIL



Graduation: B.Sc. (Hons.) Forestry

Area of Interest: Forest Genetics, Biodiversity conservation and Social Forestry

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ARGHYA CHAKRABARTY



Graduation: B.Sc. Zoology (Hons.)

Area of Interest: Wildlife, Remote Sensing & GIS, Molecular Genetics & Biotechnology, Forest Certification, Entrepreneurship and Global Marketing Communication

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ARINDERPAL SINGH



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DAYLAHOYA LUKRAM



Graduation: B.Sc. Forestry

Area of Interest: Remote Sensing, GIS, Agroforestry and Wood Industries

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STUDENTS PROFILE (2016-2018)

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Forest Management

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ELAVARASAN E



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Environmental Impact Assessment

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FREDDY N T



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Agroforestry and Climate Change

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GARIMA MISHRA



Graduation: B.Sc. (CBZ)

Area of Interest:
Genetics, Tissue Culture, Wood
Industries and Agroforestry

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GAURAV ARYA



Graduation: B.Sc. Life Sciences

Area of Interest: EIA, Stream
Line Pollution and Water
Conservation Management

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STUDENTS PROFILE (2016-2018)

HARISH BAHADUR CHAND



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Area of Interest: GIS and Remote Sensing, Climate Change and Forest Fires

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ISHPREET KAUR



Graduation: B.Sc. CBZ

Area of Interest: Joint Forest Management

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KANGUJAM PREM KUMAR SINGH



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Area of Interest: Forest Fire, GIS and Remote Sensing, Plantation Forestry and Biodiversity & Conservation

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KHAIDEM HITLER SINGH



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MAHIMA



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Area of Interest: Silviculture, Remote Sensing and GIS, Genetics

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NANI SUNYA



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Area of Interest: Medicinal and Aromatic Plants (NTFP), Sustainable Management, Conservation Biology and Taxonomy

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STUDENTS PROFILE (2016-2018)

NIDHI



Graduation: B.Sc. (CBZ)

Area of Interest: Genetics (Tissue Culture), Botany and Silviculture

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NIDHI BISHT



Graduation: B.Sc. Physics (H)

Area of Interest: Ethno Botanical & Medicinal use of Himalayan plant species and Forest Conservation

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NITIKA SHARMA



Graduation: B.Sc. Biotechnology

Area of Interest: Genetics, Tree improvement, Biotechnology and Botany

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PALLAVI



Graduation: B.Sc. Ag Hons

Area of Interest: Agroforestry, Plantations, Tissue Culture, Wood Industries and other allied sectors related to Forestry

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**PRAKASHKAR AKSHAY
ASHOK**



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Area of Interest: Moths Diversity (Entomology), Human-Striped Hyena/Grey Wolf/Fox conflict and management in North Western part of Maharashtra

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PUJA SINGH



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Area of Interest: EIA, Biodiversity Conservation, Pathology, Forest Certification and Eco-development

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ROJI BARMAN



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RONAK YADAV



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ROOP JYOTI DAS



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SARANG KISHOR MISHRIKOTKAR



Graduation: B.Sc. Environmental Science, Zoology, Botany

Area of Interest: Conservation Ecology

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SHIVAM KISHWAN



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STUDENTS PROFILE (2016-2018)

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Area of Interest: Agroforestry

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SHUBHANGI SINGH



Graduation: B.Sc. (Botany,
Chemistry)

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Botany/Taxonomic study

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SIDDHANT SOMVANSHI



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SIDDHARTH B.



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Area of Interest: Yoga,
Spirituality, Ayurved,
Conservation and Eco-tourism

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SIPU KUMAR



Graduation: B.Sc. (Chemistry)

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Macroecology, GIS/Remote
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SUSHANT SHARMA



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STUDENTS PROFILE (2016-2018)

VEENU MAHECHA



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VISHNU SATHEESAN



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RINU RIBA



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JOB OPPORTUNITY DETAILS

Name of Organization/ Company:.....

Contact Person:

Designation:

Address for Communication:

Phone:

FAX:

Email:

Functional area	
Location	
No. of candidates required	
Gross salary	
Take home	
Other perks	

Job Description (in brief):

.....
.....

Tentative date/month of your visit:

Number of persons visiting from your organization for whom accommodation is required:

Comments (if any):

.....
.....

Date:

Name:

Place :

Designation :

Signature:



*If you provide us an opportunity
We will serve you the best*



M.Sc. Forestry (2016-18)

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This brochure has been prepared by Arghya Chakrabarty and Dr. Vipin Parkash (Placement Officer, FRIDU).