

FOREST RESEARCH INSTITUTE (DEEMED) UNIVERSITY, DEHRADUN

(Under section 3 of UGC Act 1956 vide notification no. F. 9-25/89-U.3 dated 6-12-1991)



PLACEMENT BROCHURE (2017-2018)

M. Sc. Forestry

Driving Action
Fostering Motivation
Processing Innovation





FOR MORE DETAILS CONTACT

Dean (Academic)
Forest Research Institute (Deemed) University
P.O. I.P.E. Kaulagarh Road,
Dehradun-248 195 (Uttarakhand)
E-mail: deanfri@icfre.org
Ph no: +91-135-2752682
Fax no.: +91-135-2751826

Registrar
Forest Research Institute (Deemed) University
P.O. I.P.E. Kaulagarh Road,
Dehradun-248 195 (Uttarakhand)
E-mail: registrarfri@icfre.org
Ph no: +91-135-2751826
Fax no.: +91-135-2756865

Programme Co-ordinator & Placement Officer
Forest Research Institute (Deemed) University
Dehradun-248 006 (Uttarakhand)
E-mail: prakashv2@icfre.org
Ph. no: 0135-222-4373

From the Vice Chancellor 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 organisation, NGOs and other employers to organize campus recruitment programme in our University and assess the calibre 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) University

FOREST RESEARCH INSTITUTE

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 organisation. 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 fulfil the needs of forestry and environment professionals in the country with following objectives.

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

M.Sc. Forestry at a glance

Programme Objective: Master 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.

ABOUT THE COURSE:

Silviculture Systems

Forest types, Locality factors, Forest regeneration, Tree forms, Silvicultural systems Agro-forestry

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 Method

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 spices

Forest Biology

Structure of plants, Morphological characteristics, Nomenclature and classification, General classification of plants, Phonology, 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 Paper

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 thesis 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 and D and provides them an opportunity about identifying challenges and opportunities and helps them in solving problems through research and experimentation

Beyond Classroom

The serene environment and the picturesque campus and aesthetic beauty of FRI campus is unique and which provides multiple opportunities to students. University helps them to unearth and explore their concealed competencies. The student's activities are carried on in the form of various club and cell events *i.e.* Wildlife Cell (*Nisarg*), Cultural Club, Annual Sports Meet etc.

FIELD EXPOSURE

Parks and Sanctuaries

- Great Himalayan National Park, Himachal Pradesh
- Panna & Kanha National Park, Madhya Pradesh
- Banddipur National Park, Karnataka
- Banerghatta National Park, Karnataka
- Periyar Tiger Reserve, Thekkady, Kerala
- Ooty Botanical Garden, Tamil Nadu
- 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
- Kedarnath National Park, Uttarakhand
- Mudumalai National Park, Tamil Nadu
- Rajaji National Park, Uttarakhand
- Silent Valley National Park, Kerala



INSTITUTES

- ICRISAT, Hyderabad
- N.R.S.A, Hyderabad
- C.F.T.R.I, Mysore
- I.I.Sc, Bangalore
- I.I.P, Dehradun
- I.I.R.S, Dehradun
- I.W.F.P, Bangalore
- I.F.G.T.B, Coimbatore
- National Institute of Oceanography, Goa
- Wildlife Institute of India, Dehradun
- Y. S. Parmar University of Horticulture & Forestry, Solan



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
- Ecotourism Destination



Please fax, email or post completed form to
Placement Officer, Forest Research Institute University
PO: IPE Kaulagarh, Dehradun-248195
Ph. No.: +91-135-2224452/4373 (O)
Fax: +91-135-2751826/2756865

M.Sc. FORESTRY PLACEMENT 2017

<p>PREM RANJAN SINHA 24/06/1991</p>  <p>B.Sc. Forestry College of Forestry, & environment SHIATS, Allahabad, UP</p> <p>Area of Interest: Plantation inventory and taxonomy, NTFPs, Nursery mgt., EIA, Community conservation. & wildlife</p> <p>Email: premsinha46@gmail.com</p> <p>Contact: 9918544291</p>	<p>ARPANA PANDEY 02/06/1992</p>  <p>B.Sc. Forestry College of Forestry, & environment SHIATS, Allahabad, UP</p> <p>Area of Interest: Plantation forestry, Agroforestry, Nursery management, NWFP, Forest certification, Social forestry & community development</p> <p>Email: arpanapandey2k11@gmail.com</p> <p>Contact: 9458122954</p>	<p>AKASHRA 05/04/1993</p>  <p>B.Sc. Zoology (Hons.), Hindu College University of Delhi</p> <p>Area of Interest: Genetics and wildlife, forest management, forest ecology</p> <p>Email: akshara_007@hotmail.com</p> <p>Contact: 9411547950</p>
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<p>SHIVANI KAMBOJ 29/12/1992</p>  <p>B.Sc. Botany (Hons.), Hansraj College University of Delhi</p> <p>Area of Interest: Agroforestry, Plantation management, Forest management, Forest Pathology, Silviculture</p> <p>Email: shivani122@gmail.com</p> <p>Contact: 7579214693</p>	<p>SMRITI PANWAR 11/03/1995</p>  <p>B.Sc. Life Sciences D.B.S.(PG) College, Dehradun</p> <p>Area of Interest: Genetics, Agroforestry, Silviculture & Nursery management.</p> <p>Email: smriti.panwar@gmail.com</p> <p>Contact: 9411589780</p>	<p>RAUSHAN KUMAR YADAV 11/02/1991</p>  <p>B.Sc. Forestry College of Forestry, & environment SHIATS, Allahabad, UP</p> <p>Area of Interest: Agroforestry, Seed Technology, Pathology, Wildlife Management</p> <p>Email: raushanraj0888@gmail.com</p> <p>Contact: 7379309031</p>
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RAHUL SAINI

22/12/1991



B.Sc. Biotechnology
MukandLal National College,
Yamuna nagar,
Kurukshetra University

Area of Interest: Forest Botany, Forest Genetics and Biotechnology Agro Forestry, Forest Management, Forest Products, Forest Ecology &Env., Nursery plantation, Bamboo Crafting.

Email: rahulpk.saini@gmail.com

Contact: 8901010143

RAHUL BODH

07/04/1991



B.Sc. Forestry
Dr. Y. S. Parmar
University of Horticulture and Forestry
Nauni , Solan

Area of Interest: Agro Forestry, Forest Management, Forest Products, Forest Botany, Forest Ecology &Env., Forest protection, Forest soil and moisture.

Email: tenzinlotey202@gmail.com

Contact: 9459164325

KALZEN DOLMA TAMANG

13/09/1993



B.Sc. Forestry
NERIST,
Arunachal Pradesh

Area of Interest: Forest Pathology, Bioinformatics and GIS, Climate Change, Forest Utilization and Waste Management.

Email: kalzen.tamang@gmail.com

Contact: 9458122135

DOM MARGARETH KIPGGEN

11/10/1993



B.Sc. Botany
North Eastern Hill
University,
(Lady Keane
College,
Shillong,
Meghalaya

Area of Interest: NWFPs, Nursery, EIA, Community conservation, Forest Management

Email:
dmkipgen@gmail.com

Contact: 9720411982

PARUL GANGWAR

15/06/1993



B.Sc. ZBC
Mahatama Jyotiba,
Phule Rohilkhand
University, Bareilly

Area of Interest: N.W.F.P, Community Conservation, Plantation Management and Forest Pathology.

Email:
parulgangwar786@gmail.com

Contact: 9411296998

MEENAL SHARMA

10/01/1994



B.Sc. (Hons) Forestry
Dr. Y.S. Parmar
University of Horticulture and Forestry, Nauni
(Solan), (H.P.)

Area of Interest: Bioinformatics and GIS, Forest Ecology and environment, Agroforestry, Forest Products and Wildlife

Email:
meenal10sharma@gmail.com

Contact: 9458122151

SWETA NISHA PHUKON
09/03/1994



B.Sc. botany
J.B. College,
Dibrugarh
University,
Assam

Area of Interest: Plant Taxonomy,
Forest Management, Forest Products
Utilization, NRM, Extension Forestry

Email:
anmolphukon09@gmail.com

Contact:9458122156

SUPRIYA GOWDA K.R
07/05/1991



B.Sc.,(Agriculture)
U.A.S, G.K.V.K
Bengaluru

Area of Interest: Agroforestry,
Forest management and Forest
Product utilization

Email:
swathiramachandra7@gmail.com

Contact:9480034569

ANKITA DUDHRAJ
24/08/1992



B.Sc. Botany
National P.G.
College,
Lucknow
University.

Area of Interest: Forest Pathology,
Wildlife Management, Forest
Product Utilization.

Email:
ankitadraj05@gmail.com

Contact:9455147414

SOHOM SEAL
18/10/1992



B.Sc. Zoology
(Hons.)
Bangabasi
College,
University of
Calcutta

Area of Interest: Wildlife
Management, Lepidopteran
Ecology, Ethology, Animal
Physiology and Biochemistry,
Environment and Climate Change,
Genetics and Tree Breeding, Forest
Management, Wildlife Photography.

Email:
seal.sohom@gmail.com

Contact: 9411589902 / 8981490390

TARA KUMARI
15/03/1992



B.Sc. Forestry
Dr. Y.S. Parmar
University of
Horticulture
and Forestry,
Nauni, Solan

Area of Interest: Agroforestry /
Extension Forestry/Medicinal and
Aromatic Plants/NWFP/Silviculture

Email:
soniii.rishi@gmail.com

Contact:9458122173

THANGSUANLIAN NAULAK
28/02/1996



**B.Sc. Life
Sciences**
Hans Raj
College,
University of
Delhi

Area of Interest: Wildlife
Management, Eco-development.

Email:
thangsuianliannaulak@gmail.com

Contact: 9410536298

SUGANDHA
25/10/1993



B.Sc. Life Sciences
Dyal Singh College,
Delhi University

Area of Interest: Biodiversity Conservation and Management, EIA, Forest Pathology, plantation technology, Forest Products.

Email:
kumarsugandha7@gmail.com

Contact:9410914430

DIVESH PANGTEY
10/10/1993



B.Sc. PCM
M.B.Gov. Post-Graduate College,
Kumaun University,
Haldwani

Area of Interest: Biodiversity conservation, Environment management, Forest management, EIA

Email:
09.divseh@gmail.com

Contact:9411526188

PATIL SAMADHAN DAYARAM
15/08/1994



B.Sc. Zoology
Fergusson College, Pune

Area of Interest: Forest Management, Wildlife Management, Forest Certification, NTFP, Environment and Ecology.

Email:
samapatil10@gmail.com

Contact:7579217593

PRAMOD K. CHOURASIA
09/12/1991



B.Sc. Forestry
Doon Group of Colleges of Agriculture Science & Tech. Selaqui (H N B Garhwal University)

Area of Interest: Remote sensing, Watershed Management, Silviculture, Agroforestry, Wildlife management, Forest Management, Forest Pathology, Bamboo Crafting.

Email:
prcforestry@gmail.com

Contact:7579245204

SAPNA THAKUR
18/03/1994



B.Sc. Forestry (Hons.)
Dr. Yashwant Singh Pamar University of Horticulture and Forestry, Solan (H.P.)

Area of Interest: Agroforestry, Forest Management & Forest Certification, Forest Products, NTFP, Plantation Nursery Management, Social forestry & Community Development, Silviculture.

Email:
thakursapnadhatwalia@gmail.com

Contact:9458122183

SONALI MAITHILI
07/03/1994



B.Sc. Forestry (Hons.)
Faculty of Forestry Birsa Agricultural University, Ranchi.

Area of Interest: Agroforestry, Forest Management & Forest Certification, Forest Products, NTFP, Plantation Nursery Management, Social forestry & Community Development, Silviculture.

Email:
sonalimaithili20@gmail.com

Contact:7579217563

INDRANIL PAUL
29/03/1993



**B.Sc. Botany
(Hons.)**
Dinabandhu
Andrews
College,
University of
Calcutta

Area of Interest: Wildlife
Management & Eco-development,
Genetics & Biotechnology

Email:
29indranil@gmail.com

Contact: 9412928295

GARGI ROY CHOWDHURY
25/09/1992



**B.Sc. Botany
(Major)**
Presidency
University,
Kolkata

Area of Interest: Genetics &
Biotechnology, Wildlife Management
& Eco-development

Email:
rc.gargi244@gmail.com

Contact: 9456106618

AMRITHA K.S
16/09/1994



**B.Sc. Botany
H.H.M.S.P.B.**
NSS College for
Women,
Kerala
University

Area of Interest: Forest
management, Forest certification,
Forest Ecology & Environment,
Bioinformatics and GIS, Wildlife
Management, Forest Product
Utilization, Plant Taxonomy.

Email:
amrithakumar201@gmail.com

Contact: 7579205024

BHOOPESH THAKUR



**B.Sc. Forestry
(Hons.)**
Dr. Y. S. Parmar
University of
Horticulture &
Forestry

Area of Interest: Forest
Management & Forest Entomology

Email:
bhoopeshthakur@yahoo.com
Contact: 8988298218

TASHI YANGCHEN



**B.Sc. Forestry
(Life Science)**
Sherubtse
College, Royal
University of
Bhutan

Area of Interest: Forest Pathology,
Forest Management and Wildlife
Management & Eco Development

Email:
tyang2121993@gmail.com
Contact: 9410914461

NGAWANG DEMA



**B.Sc. Forestry
(Life Science)**
Sherubtse
College, Royal
University of
Bhutan

Area of Interest: Forest
management and Wildlife
management & Eco Development

Email:
demangawang76@gmail.com
Contact: 9456521032

<i>Vinayak Bohare</i>	<i>Rimpee Garg</i>
 <p data-bbox="341 255 517 412"><i>B.Sc. Geology Dr. H. S. Gour, Central University, Sagar, M. P.</i></p>	 <p data-bbox="868 315 1007 472"><i>Choudhary Charan Singh University, Meerut</i></p>
<p data-bbox="105 600 517 667"><i>Area of Interest: Soil Geology and Forest Management</i></p>	<p data-bbox="560 568 1011 636"><i>Area of Interest: Pathology, Genetics, Ecology and Wildlife</i></p>
<p data-bbox="268 669 352 696"><i>Email:</i></p> <p data-bbox="137 703 485 730"><i>tensagarvinayak@gmail.com</i></p>	<p data-bbox="743 669 828 696"><i>Email:</i></p> <p data-bbox="644 703 927 730"><i>gargrimpee@gmail.com</i></p>
<p data-bbox="181 736 440 763"><i>Contact: 9458949714</i></p>	<p data-bbox="660 736 916 763"><i>Contact: 9412928974</i></p>



If you provide us an opportunity

We will serve you the best

FOREST RESEARCH INSTITUTE (DEEMED) UNIVERSITY

(Indian Council of Forestry Research and Education)

P.O. I.P.E. Kaulagarh Road, Dehradun-248 195 (Uttarakhand)

Website: www.icfre.org, www.fridu.edu.in and www.icfre.gov.in