वन अनुसंधान संस्थान सम विश्वविद्यालय, देहरादून — 248195
(राजस्थान अनुसार आयोग अधिनियम 1985 के बाद 3 के तहत)
(अधिसूचना संख्या ए-302/29-93/प्र. नै शिक्षा 6.12.1995 के हार)

प्रवेश प्रसंग 2018

1. विज्ञान स्तर/कक्षा पाठ्यक्रम

प्रायोगिक जारी करने की तारीख   : 22 जनवरी, 2018
हेल्प डाटा प्रायोगिकी को जारी करने की अनौठा तिथि : 20 जनवरी, 2018
संस्करण/कैम्पस कार्यालय से प्रायोगिकी को जारी करने की अनौठा तिथि : 30 जनवरी, 2018
पूरा प्रायोगिकी को प्राप्त करने की अनौठा तिथि : 08 अप्रैल, 2018
प्रतिभा पिंड की तिथि : 20 मई, 2018

विश्वविद्यालय अनुसार प्रदत्त प्रत्येक पहली चरण के पिंडिटियन किया जा सकता है

क. पुरुष,फ्रीडी, बालिका (38 सीट, प्राकी) पाठ्यक्रम : क्रम से क्रम एक नया व्यवस्था प्राकी, रसायन विज्ञान, भृट, बियोलॉजी, अंगिता, ब्रह्मांड, शिक्षा, विज्ञान, प्राकी, विज्ञान के साथ विज्ञान में तीन वर्षों तक भी इतिहास अथवा कृति अथवा वाणिज्य में तीन वर्षों तक की इंतज़ार की होगी।

ख. पुरुष,फ्रीडी, कुछ स्तर प्राकी (38 सीट, प्राकी) पाठ्यक्रम : बीजीएस, बियोलॉजी, अंगिता और स्तर प्राकी से तीन वर्षों व्यवस्था इतिहास अथवा वाणिज्य में होगी

ग. पुरुष,फ्रीडी, पार्वतीय प्राकी (38 सीट, प्राकी) पाठ्यक्रम : आधुनिक अथवा प्राकी (पार्वतीय) विज्ञान की इंतज़ार की भी सामान्य में तीन वर्षों कृति विज्ञान के तीन वर्षों तक की इंतज़ार की होगी।

घ. पुरुष,फ्रीडी, काशीपुर एवं नागरिक प्राकी (20 सीट, प्राकी) पाठ्यक्रम : एक नया व्यवस्था के साथ विज्ञान के साथ विज्ञान से तीन वर्षों तक इतिहास अथवा भृट (अधिकांश विज्ञान में अभिज्ञता)।

इस पाठ्यक्रम के दूसरे एवं कैथोलिक संस्थान के दूसरे एवं कैथोलिक संस्थान, सदर्नगर में होगा।

2. कैथोलिक (अमेरिका में) (क), (ख) एवं (घ) के लिए समाप्ति शेयर में 50% अनुशंसा जितने अधिक अंश और अनुसंधान जितने अनुसंधान के लिए 45% अनुशंसा जितने अधिक अनुसंधान कर सकते हैं।

3. परीक्षा बोर्ड : 1. देहरादून, 2. जयपुर, 3. अल्पी, 4. भाल्मेत, 5. बियोलॉजी,
6. विज्ञान, 7. राजस्थान, 8. पुरुष, 9. निष्णाता, 10. शिक्षा, 11. कैथोलिक, 12. जाति।

4. अवलोकन : जारी करते हुए निम्न बोर्डों अनुसार है:
क. अनुसार, जनजीवन — 15% और 7.5% विद्यार्थियों के साथ अनुसार जनजीवन किया जाएगा।
ग. विद्यालय-विश्वविद्यालय से अधिक अनुसारको को Persons with Disabilities (Equal opportunities, Protection of Rights and Full Participation) Act, 1995 के अनुसार या 39 वें अनुसार खींचने के लिए एक, एक पुष्कर (गैरयोगी में भाग में इतिहास), अनुसार तभी का अधिकतम अनुसार किया जाएगा।

5. अवलोकन करने की प्रक्रिया : सुपुरुष, बुलेटिन और प्राकी नाम बुलेटिन, अनुसंधान संस्थान सम विश्वविद्यालय, देहरादून — 248 195 के नाम में देहरादून में देखते हुए 1200/- (यथावत्) का एक ज्यादा नाम जारी कर जाता द्वारा संस्थान का नाम होता है। प्रायोगिक बुलेटिन कैम्पस कैम्पस (उस अनुसंधान संस्थान से, देहरादून) के कैम्पस से भी प्रायोगिक जितना होस्ता है। आवेदन के लिए कृपया "इंटरनेट बुलेटिन" 2018 को देखिए। दो अनुसार इससे अधिक पाठ्यक्रम के लिए अनुसन्धान का लाभ करने के लिए अनुसार — अनुसार प्रायोगिक का 1200/- प्राकी पाठ्यक्रम के लिए प्राप्त करे। सुपुरुष, बुलेटिन/प्राकी पाठ्यक्रम को वेबसाइट www.fridu.edu.in से भी जानकारी किया जा सकता है।

श्री एक. गृहीती
वन अनुसंधान संस्थान सम विश्वविद्यालय
दुर्गापुर सं 0135-2751826/2224439/2224495
FOREST RESEARCH INSTITUTE DEEMED TO BE UNIVERSITY
DEHRA DUN - 248195
(Under Sec 3 of the UGC Act 1956)
(vide Notification No.F.9-25/89-UJ dated 6-12-1991)

ADMISSION ANNOUNCEMENT-2018

I. MASTER OF SCIENCE COURSES
Issue of application forms starts on : 22nd January, 2018
Last date for issue of application forms by post : 26th March, 2018
Last date for issue of application forms from Institute’s/Bank counter : 30th March, 2018
Date of admission test : 20th May, 2018
The dates may be changed at the discretion of the university authorities.

a) M.Sc. Forestry (38 Seats): Eligibility: Three years Bachelor’s degree in science with at least one of the subjects namely Botany, Chemistry, Geology, Mathematics, Physics, Zoology or a Bachelor’s degree in Agriculture or Forestry.

b) M.Sc. Wood Science & Technology (38 Seats): Eligibility: Three years Bachelor’s degree with Physics, Mathematics and Chemistry or B.Sc. degree in Forestry.

c) M.Sc. Environment Management (38 Seats): Eligibility: Three years Bachelor’s degree in any branch of basic or applied Sciences or Bachelor’s Degree in Forestry or Agriculture or BE/B.Tech in Environment Science.

d) M.Sc. Cellulose & Paper Technology (20 Seats): Eligibility: Three years Bachelor’s degree in Science with Chemistry as one of the subjects or BE/B.Tech. (Chemical or Mechanical Engineering). The 2nd year of this course is likely to be conducted at Central Pulp & Paper Research Institute (CPPRI), Saharanpur.

II. PERCENTAGE OF MARKS (in the qualifying examination): For a) (b) (c) & (d) Candidates having 50% or above marks in general category and 45% marks for Scheduled Castes/Scheduled Tribes may apply.


IV. RESERVATION: Out of the above, following seats are reserved for:
(a) SC/ST : 15% and 7.5% respectively (b) Reservation to OBC: will be provided as per the policy of GOI (c) Physically Handicapped: 3% reservation to the Persons with Disabilities under the Persons with Disabilities (Equal opportunities, Protection of Rights and Full Participation) Act, 1995 Chapter No. 39, in each course for the candidates with locomotor disabilities one leg, one arm (without mobility restriction) and persons with partial deafness. The candidates will have to produce Disability certificate issued by competent authority at the time of Counseling for admission. (d) ICFRE Employee: 5 seats in M.Sc. Environment Management.

V. HOW TO APPLY: Information Bulletin and application form can be obtained by post by submitting a Bank Draft for Rs. 1200/- (Rupees One thousand two hundred only) payable at Dehradun in favour of Registrar, FRI Deemed to be University, P.O.I.P.E., Kaulagarh Road, Dehradun-248 195.
Application Forms will also be available from the counter of the Union Bank of India (FRI Branch, Dehra Dun). For details please refer to “Information Bulletin” 2018. A candidate who want to apply for two or more courses has to fill up separate form fee @ Rs. 1200/- for each course. Information Bulletin/Application forms may also be downloaded from the website www.fridu.nic.in

Dr. A.K. Tripathi
REGISTRAR
FRI DEEMED TO BE UNIVERSITY
Ph. No. 0135-2751826/2224439/2224495
AN OVERVIEW

THE INSTITUTE

Forest Research Institute (F.R.I.), Dehra Dun made a humble beginning as Forest School established in 1878. Initially named as Imperial Forest Research Institute, F.R.I., came into being in 1906. Later renamed as Forest Research Institute and Colleges, with a number of centres located at different places all over the country administering research as well as training of Forest Officers and Forest Rangers. After reorganization of Forestry Research in the country and creation of Indian Council of Forestry Research and Education (ICFRE) in 1988, the training and research centres were given an independent status of institutes. Forest Research Institute, now one of the institutes under ICFRE, was conferred the status of Deemed University in December 1991 on the recommendations of the U.G.C., Ministry of Human Resource Development, Government of India.

OBJECTIVES OF THE FRI DEEMED TO BE UNIVERSITY

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

RESEARCH DIVISIONS AND DISCIPLINES IN THE INSTITUTE

- FOREST BOTANY (Systematic Botany, Wood Anatomy and Plant Physiology)
- CHEMISTRY of FOREST PRODUCT (Chemical Extracts from Trees and Forest Based Oilseeds)
- EXTENSION (Social Forestry, Extension and Agro-forestry)
- ECOLOGY, CLIMATE CHANGE AND FOREST INFLUENCE (Forest Productivity, Biodiversity, Environment and Pollution)
- FOREST ENTOMOLOGY (Control Measures and Taxonomy)
- FOREST PATHOLOGY (Forest Diseases and Biofertilizers)
- FOREST SOIL and LAND RECLAMATION (Wasteland reclamation, Soil Fertility, Soil Geology and Mineralogy)
• GENETICS and TREE PROPAGATION (Genetics, Improvement, Breeding and Tissue Culture)
• NON WOOD FOREST PRODUCTS (Medicinal and Aromatic Plants, Resins and Gums)
• RESOURCE SURVEY and MANAGEMENT (Forest Mensuration and Forest Economics)
• SILVICULTURE (Experimental Silviculture, Logging and Seed Technology)
• CELLULOSE & PAPER (Paper Technology)
• FOREST BIOTECHNOLOGY
• FOREST BIO INFORMATICS
• ENVIRONMENT MANAGEMENT
• WILDLIFE MANAGEMENT
• FOREST GEOINFORMATICS
• FOREST HYDROLOGY

THE APPLICATION FORM

The Forest Research Institute Deemed to be University admission test, 2018 will be held at 12 centres in the country on **Sunday, 20th May, 2018** for the following courses:-

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Courses</th>
<th>Duration (Years)</th>
<th>No. of seats</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Indian</td>
</tr>
<tr>
<td>1.</td>
<td>M.Sc. Forestry</td>
<td>2</td>
<td>38</td>
</tr>
<tr>
<td>2.</td>
<td>M.Sc. Wood Science &amp; Technology</td>
<td>2</td>
<td>38</td>
</tr>
<tr>
<td>3.</td>
<td>M.Sc. Environment Management</td>
<td>2</td>
<td>38</td>
</tr>
<tr>
<td>4.</td>
<td>M.Sc. Cellulose &amp; Paper Technology</td>
<td>2</td>
<td>20</td>
</tr>
</tbody>
</table>

Applications for admission shall be made in the prescribed form available from the Registrar, Forest Research Institute Deemed to be University, Dehra Dun. The application form and the ‘Information Bulletin’ can be obtained in person or by post on payment of Rs.1200/- wherever applicable through bank draft drawn in favour of Registrar, Forest Research Institute Deemed to be University payable at Dehra Dun. **Forms can also be downloaded from the website www.fridu.edu.in**

**Date of sale of forms: 22nd January, 2018 to 30th March, 2018**
Application forms will be available from 22\textsuperscript{nd} January to 30\textsuperscript{th} March 2018 from the counter of the office of the FRI Deemed to be University/ Union Bank of India, FRI Branch, Dehra Dun. The last date for issue of forms from the office of the FRI Deemed to be University by post is 26\textsuperscript{th} March, 2018. Thereafter any request for sending the forms by post will not be entertained. \textit{(For details of important dates please see the last page of the Information Bulletin, 2018)}

Application duly filled in legibly in applicant’s own handwriting with blue/black pen should be sent so as to reach the Registrar, Forest Research Institute Deemed to be University, P.O.: I.P.E., Kaulagarh Road, Dehra Dun – 248 195 on or before the last date. The application form can also be downloaded from the website \url{www.fridu.edu.in}. The candidates filling the downloaded form must pay fee of Rs.1200/-. 

\textbf{The last date of receipt of completed application form: 06\textsuperscript{th} April 2018.}

\textit{(Forms received after the last date will not be accepted)}

\textbf{It is advised that the application form be sent by Registered Post/Speed Post/Courier. Postal delay will not be accepted as a plea to entertain applications after the last date.}

\textbf{Admit card} containing centre code and roll number will be mailed to the applicant by the forth week of April, 2018.

\textbf{If the admit card is not received by 30\textsuperscript{th} April, 2018, the Registrar, FRI Deemed to be University may be contacted on e-mail tripathiak@icfre.org \& registrarfriu@icfre.org}

Please quote your Name, Fathers Name and Date of Birth in all correspondence with the Registrar, FRI Deemed to be University, P.O. I.P.E., Kaulagarh Road, Dehra Dun – 248 195.

\textbf{In case a candidate has either not received the admit card or has lost it, duplicate card can be obtained from the centre superintendent of his/her examination centre. Alternatively, the candidate may reach office of the Registrar, FRI Deemed to be University, Dehra Dun on working day during working hours. Where duplicate admit card will be issued after submission of a bank draft of Rs. 50/- and a photograph identical to that pasted on the admission test form.}

\textbf{Under no circumstances the admission test fee, once paid, will be refunded or held in reserve for any future admission test.}
### ELIGIBILITY REQUIREMENTS

The eligibility requirements for admission to these courses are as follows:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Course Code No.</th>
<th>Courses of Studies</th>
<th>Eligibility requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>01 (A)</td>
<td>M.Sc. Forestry</td>
<td>Three years bachelor’s degree in science with at least one of the subjects namely Botany, Chemistry, Geology, Mathematics, Physics, Zoology or a Bachelor’s degree in Agriculture or Forestry.</td>
</tr>
<tr>
<td>2</td>
<td>01 (B)</td>
<td>M.Sc. Wood Science &amp; Technology</td>
<td>Three years bachelor’s degree with Physics, Mathematics and Chemistry or B.Sc. degree in Forestry.</td>
</tr>
<tr>
<td>3</td>
<td>01 (C)</td>
<td>M.Sc. Environment Management</td>
<td>Three years bachelor’s degree in any branch of Basic or Applied Sciences or Bachelor’s degree in Forestry or Agriculture or BE/B.Tech in Environment Science.</td>
</tr>
<tr>
<td>4</td>
<td>01 (D)</td>
<td>M.Sc. Cellulose &amp; Paper Technology</td>
<td>Graduate degree with minimum 50% marks in aggregate in Science with Chemistry as one of the subjects. BE/B.Tech. (Chemical or Mechanical Engineering with minimum 50% aggregate).</td>
</tr>
</tbody>
</table>

**Age Limit for In-service Candidate:**

The maximum age limit in respect of in-service candidate to M.Sc. Environment Management course shall be 50 years. The age shall be reckoned as on 31st July of the year of admission and no further relaxation will be given in any case.

### CHOICE BASED CREDIT SYSTEM

The FRI Deemed to be University has implemented the Choice Based Credit System for M.Sc. courses of FRI Deemed to be University from the session 2016-2017.
RESERVATION OF SEATS

A) SCHEDULED CASTES AND SCHEDULED TRIBES:

Fifteen percent (15%) of the total available seats shall be reserved for scheduled castes and seven and half percent (7.5%) for scheduled tribes candidates subject to their being otherwise suitable. These reservations shall be interchangeable e.g. if sufficient number of candidates are not available to fill up the seats reserved for scheduled tribe candidates, these can be filled up from suitable scheduled castes candidates within the course concerned.

B) OTHER BACKWARD CLASSE (OBC):

The reservation to OBC is being provided as per the policy of the Govt. of India.

C) PHYSICALLY HANDICAPPED:

3% reservation to the persons with Disabilities under the persons with Disabilities (Equal opportunities, Protection of Rights and Full Participation) Act, 1995 Chapter No. 39, in each course for the candidates with locomotor disabilities one leg, one arms (without mobility restriction) and persons with partial deafness as per Govt. of India rules. The Candidates will have to produce Disability certificate issued by competent authority at the time of Counseling for admission.

D) IN-SERVICE CANDIDATES:

Five seats shall be reserved in M.Sc. Environment Management course for in-service candidates working in Government Departments/Autonomous bodies under the Central/State/Union Territory/ICFRE. However, if in-service candidates are not available then the seats reserved for them will be filled up by general candidate(s).

E) FOREIGN NATIONALS:

Reservation to the extent of 15% of the prescribed seats on supernumerary basis for Foreign Nationals shall be made for admission to each M.Sc. course available in the Institute. The foreign nationals are **exempted from appearing in admission test** provided they have passed the equivalent qualifying examination from a University outside India and fulfill the following conditions:

(a) that they must have minimum eligibility requirements;

(b) that the applications of scholarship holding Foreign Nationals (Under various schemes) are routed through Indian Council for Cultural Relations/Ministry of Human Resource & Development (Dept. of Education), Govt. of India, New Delhi;

(c) that the applications of self-financing Foreign nationals should be routed through concerned Indian Diplomatic Mission abroad or Diplomatic Mission of the country of the
applicant in India and should be reached in the office of the FRI Deemed to be University by the 31st May, 2018. Fee to be charged from the foreign nationals is given below.

(d) that they have valid residential permit in India granted for studies/Student Visa for the prescribed duration of the concerned course;

(e) that the antecedents of the candidate have been verified by the forwarding Agencies/Ministry and found in order;

(f) that the candidate must submit certificate duly verified by the Ministry/Agencies to the effect that he/she has been subjected to AIDS test and found negative;

(g) that the degree/certificates of the candidates have been approved by the Association of Indian Universities (AIU) as equivalent to the corresponding degrees/certificates of the AIU;

(h) that they have adequate knowledge of English as per requirements of the course.

Fee

1. Semester fee - 750 US$ per semester
   (1st installment is payable at the time of admission)

2. Caution money - 50 US$ (Refundable)

3. Hostel fee - 40 US$ per month


5. Library/Teaching aid fee - 50 US$ per semester

6. Degree fee - 10 US$

7. The mess charges will be around 23 US$ p.m., if they join mess run by the students.

COMMITTEES

The FRI Deemed to be University has constituted the following committees for safe, secure and stress free environment in the University to the students of the FRI Deemed to be University.

1. Anti-Sexual Harassment Committee
2. Committee to look after the complaints of caste discrimination of SC/ST students
3. Student Counseling Centre
4. Student’s Welfare & Disciplinary Committee

GUIDELINES

- In case a candidate has appeared for the degree examination required for admission but the result of the same has not been announced till the time of submission of application, the application form may still be completed in all other respects and may be submitted to the Registrar, Forest Research Institute Deemed to be University on or before the last date. The degree/result (mark sheet) should however be furnished as soon
as it becomes available, which must reach the office of the Registrar, FRI Deemed to be University on or before the date fixed for admission failing which he/she shall not be admitted treating his/her application for admission as incomplete.

- In case a candidate comes from a university/institute that follows the course credit system, the application shall be considered even though the final viva/voce is yet to be completed provided a full transcript is enclosed showing the grade point average obtained along with a course completion certificate from the Registrar of the University/Institute/Head of the College, Dean/Associate Dean of the campus of multi-campus, Universities/Institutes to the effect that the candidate has completed all the prescribed work. The certificate issued in this regard by the Head of the Department/Division shall not be entertained. However, at the time of admission a certificate shall have to be produced from the Registrar/Head of the College, Dean/Associate Dean of the campus of multicampus Universities stating clearly that the candidate has passed the last degree examination, failing which the candidate shall not be admitted treating his/her application for admission as incomplete.

- The candidate must in his/her own interest fill up the application form most carefully and ensure that all the columns are filled up correctly. Incomplete application shall be rejected out right.

- A candidate may apply in more than one course in test but he/she is required to fill up the separate admission form and separate fee for each course e.g. In case candidate applies for two courses the fee payable shall be Rs.2400/- for application forms. Similarly, for three courses the fee payable shall be Rs.3600/- respectively.

- The applicant is required to mention his/her category in clear terms. The category to which the applicant belongs once mentioned on the form shall be final and no subsequent change shall be allowed. If boxes requiring indication of category on the application form are left blank, the candidate shall be treated as general category and he/she cannot claim the benefit of any other category.

- Candidates are allowed to appear for the Admission Tests provisionally subject to the verification of equivalence of degrees/certificates and validity of certificates/marks-sheets of qualifying examination and also whether involved in the adoption of unfair means in any of the examinations of the University/Admission Tests held earlier at the time of admission in the respective courses. Degree/Certificate recognized by AIU shall be deemed as equivalent degrees.

- Candidates who were admitted as regular students to any course of studies in this Institute through Admission Test in earlier year(s) shall not be allowed to re-appear in the admission test for admission in same course.

- Please fill up all the columns correctly.

- Please read the Information Bulletin thoroughly before filling up the form.
In your own interest please do not give any false information which may make you liable for disqualification.

List of test centres and their codes are as follows.

<table>
<thead>
<tr>
<th>Test Centre</th>
<th>Code No.</th>
<th>Test Centre</th>
<th>Code No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bangalore</td>
<td>1</td>
<td>Jodhpur</td>
<td>7</td>
</tr>
<tr>
<td>Chandigarh</td>
<td>2</td>
<td>Jorhat</td>
<td>8</td>
</tr>
<tr>
<td>Coimbatore</td>
<td>3</td>
<td>Kolkata</td>
<td>9</td>
</tr>
<tr>
<td>Dehradun</td>
<td>4</td>
<td>Lucknow</td>
<td>10</td>
</tr>
<tr>
<td>Delhi</td>
<td>5</td>
<td>Ranchi</td>
<td>11</td>
</tr>
<tr>
<td>Jabalpur</td>
<td>6</td>
<td>Shimla</td>
<td>12</td>
</tr>
</tbody>
</table>

Production of original certificates and mark sheet at the time of admission is an essential requirement which is not relaxable in any case under any circumstances. If any information submitted by the candidate is found to be false at any stage during his/her study at FRI Deemed to be University, his/her admission shall be cancelled.

The minimum qualifying marks for allowing candidate to appear in the written test are 50 percent in aggregate at B.Sc. level/M.Sc. level prescribed for admission to the different courses in respect of general category candidates including physically handicapped, in-service candidates and foreign nationals and 45 percent in aggregate in respect of SC/ST candidates.

Candidates selected for written test based on the academic and other requirements will be sent the admit card through e-mail/surface mail. In case of admission to the M.Sc. courses the aggregate marks of all the three science subjects will only be computed for ascertaining the 50% qualifying marks in respect of General/OBC candidate and 45% in respect of SC/ST candidates. The marks of other than Science subjects and aggregate marks of honours subject shall not be considered in any case for ascertaining the qualifying marks for appearing in the admission test.

In case there is any change in the date of examination for some unforeseen reasons, the final date will be indicated in the admit card.

ANNOUNCEMENT OF RESULTS & ADMISSION

A merit list of candidates including a waiting list will be formed for each course on the basis of aggregate marks secured in the written test. Candidates will be selected in order of merit in all the categories. The result of the exam will be declared on the website [www.fridu.edu.in](http://www.fridu.edu.in). Date of first counseling is 06th July, 2018 and date of second counseling is 09th July, 2018. The candidates will be suitably advised before they come for counseling.

The selected candidates will have to pay the prescribed fees and join the course by the due date notified. The fee has to be paid at the time of counseling otherwise the seat will be offered to the next candidate.
If a selected candidate does not join by the prescribed date or if no extension has been asked for and granted by the University the admission shall stand cancelled automatically and the seat shall be offered to the candidate in the merit/waiting list.

**Documents in original to be produced by the candidate at the time of counselling:**

1. Transfer Certificate
2. Migration Certificate, if passed from University (to be submitted not later than 90 days of admission)
5. B.Sc. degree and Mark sheet of all the three years.
7. Admission Test admit card issued from this office.
8. OBC certificate from District Magistrate or authorities empowered to issue certificate or verification issued not earlier than six months. Please ensure that you are eligible to get reservation under OBC category only as per the Central Educational Institutions (Reservation in Admissions) Act, 2008 and other relevant guidelines issued by Govt. of India.
9. SC/ST certificate on the basis of which reservation is claimed.
10. Physically Handicapped certificate from Civil Surgeon/C.M.O.
11. Aadhar Card

The candidates called for admission have to produce original certificates, mark sheet etc. before the payment of fees. However in cases where the original mark sheet indicates clearly that the candidate have passed the qualifying examination prescribed for admission he/she be admitted on the condition that he/she shall produce the original degree/provisional degree within one month failing which his /her admission is liable to be cancelled. There can be no appeal to any authority if the candidate fails to produce the original documents at the time of admission.

In case equal marks in written test, the following criteria shall be adopted for taking admission in the course concerned:-

i) Preference will be given to the candidate who has higher percentage of aggregate marks in the qualifying examination.

ii) In case the candidates have equal percentage of aggregate marks in qualifying examination then the candidate higher % in graduation will be given preference.
**PLACEMENTS**

FRI Deemed to be University provides assistance in placement of deserving students. Various industries/organizations visit the campus for campus interviews. On an average 50% of the students get placements through the campus interviews. However, in case of M.Sc. Wood Science & Technology the placement is 100% in general.

**SCHOLARSHIP**

FRI Deemed to be University provides merit scholarship to the topper students in each course. The scholarship may be upto Rs.12,000/- per semester and is awarded separately for each semester depending on the result of the previous semester. For the purpose of award of scholarship in the first semester the result of the entrance test is considered and the topper in general category and SC/ST category are awarded the scholarship in each course. However general category candidate must score minimum 50% marks and SC/ST must score 30% marks for obtaining the scholarship.

**GENERAL**

a) Candidate who satisfies the above eligibility requirements may apply for admission test on the prescribed application form for any of the courses mentioning the name of the course with its Code No.

b) The category to which the applicant belongs once mentioned on the form is final and no subsequent change shall be allowed. Boxes requiring indication of category, if left, blank will be treated as indicating General Category.

c) Application forms of candidates, who have submitted forged/fake certificates or adopted fraudulent means, shall be rejected without any reference to the candidate. Further, such candidates are liable to be prosecuted and shall be debarred from appearing in any subsequent Admission Test conducted by FRI Deemed to be University.

d) Candidates are allowed to appear in the Admission Tests provisionally subject to the final decision of equivalence of degrees/certificates of qualifying examination at the time of admission in the respective courses.

e) *Mere appearance in the admission test will not entitle a candidate to be considered for admission to the course unless he/she fulfills the eligibility conditions. Applicants must fully satisfy themselves about their eligibility as prescribed above, before filling in the application form.*

f) No candidate shall be allowed to appear in the Admission Test without a valid admit card issued by the office of the Registrar, FRI Deemed to be University.

g) The *Admission Test will be held on 20th May, 2018.* Date, time and venue for test will be indicated on the admit card.
h) In all matters relating to the Admission Test, the decision of Registrar, FRI Deemed to be University shall be final and binding.

i) No scrutiny or revaluation of the answer book of the Admission Test shall be allowed on any grounds.

j) The candidate who wants to apply for more than one course may do so but he/she is required to fill up separate form and fee @ Rs. 1200/- for each course and indicate the same in prescribed column of the form. Test for all the courses will be the same.

## CANCELLATION OF ADMISSION

### REASONS FOR REJECTION OF APPLICATION FORMS

a) Non-submission of self-attested identical recent photographs at all appropriate places. (Xeroxed copy/copies of photographs shall not be accepted.).

b) Lack of signature of the candidate at any of the appropriate place.

c) Submission of application form by a candidate after erasing the entries made earlier by another candidate.

FRI Deemed to be University has the right to cancel, at any stage, the admission of a candidate who is admitted to a course to which he/she is not entitled, being unqualified or ineligible in accordance with the rules and regulations in force.

## INSTRUCTIONS FOR WRITTEN TEST

a) There will be an objective type written test of three hours with questions grouped under the following four sections:

I. Basic Sciences including Social Science (100 questions)

II. Arithmetic and Quantitative abilities, Computational ability, Quantitative reasoning, Interpretation of Tables, Graphs, etc. (40 questions)

III. General Knowledge and Current Affairs (30 questions)

IV. English Language, Comprehension, Vocabulary, Grammar, Idioms, etc. (30 questions)

b) The candidate will check within 5 minutes of issue of the test booklet, and ensure that it contains all the pages and no question is missing. If any discrepancy is noticed the candidate must bring it to the notice of the Superintendent/Invigilator and obtain a fresh booklet.

c) The entries in answer sheet must be made with Black/Blue ball point pen only. The options in the answers are also to be rounded with ball point pen only.

d) The candidate will fill in all the details in the space provided for it on the front page and affix his signature before starting to answer the questions.
e) Each question will be followed by four alternative answers. The candidate is required to select the one which he/she feels is correct answer. The detail instructions will be printed on the answer sheet. The candidate is advised to go through the instructions.

f) **There will be negative marking for wrong answer to the extent of one-fourth \( \frac{1}{4} \) of the marks allotted to the questions.**

g) No page from the test booklet is to be torn or removed. If candidate is found tearing any paper from the test booklet, he/she is liable to be punished for use of unfair means.

h) Inner cover page of the Test Booklet or the blank space/pages at the end of the Test Booklet may be used for rough work.

i) In case of any dispute it will be subject to jurisdiction of Dehra Dun court only.

### SAMPLE WRITTEN TEST QUESTIONS

The set of questions given below will familiarize the candidates with the type of Questions in the FRI Deemed to be University Admission Test. These questions are only indicative of the nature of the test and it is possible that types of questions not illustrated here may appear in the test.

**ANSWER ALL THE QUESTIONS**

1. Evaporation takes place at -------------- temperature/s  
   a. A fixed  
   b. Boiling  
   c. All  
   d. Melting

2. The atmospheric pressure is due to the ------------ of the air acting on unit area of any surface  
   a. Mass  
   b. Weight  
   c. Volume  
   d. Area

3. The force of attraction between similar kinds of molecules is called the force of -------  
   a. Cohesion  
   b. Adhesion  
   c. Repulsion  
   d. None of the above

4. The amount of matter contained in a body is called--------------  
   a. Weight  
   b. Mass  
   c. Gravity  
   d. Volume
5. Property of material which allows it to be drawn out into plane sheet is ------------
   a. Ductility
   b. Solderability
   c. Super conductivity
   d. Malleability

6. -------------- radiations can damage or destroy the cells of living organisms.
   a. Solar
   b. Nuclear
   c. Sulphur
   d. CO₂

7. The magnetic lines of force ----------- intersects with each other.
   a. can
   b. never
   c. sometimes
   d. most of the times

8. The material which can be deformed permanently by heat and pressure is called a ----
   a. Thermoplastic
   b. Thermoset
   c. Polymer
   d. None

9. ---------- converts electrical energy to mechanical energy
   a. An electric motor
   b. A generator
   c. A dynamo
   d. A transformer

10. Identify the vector quantity from the following
    a. Heat
    b. Angular momentum
    c. Time
    d. Work

11. Work done in a free expansion process is -----------
    a. Zero
    b. Minimum
    c. Maximum
    d. Positive

12. The splitting of different colours of light in a prism is -----------
    a. Refraction of light
    b. Diffraction of light
    c. Dispersion of light
    d. Reflection of light
13. Over the elastic range of a material, stress and strain are related to each other in a ----- 
   a. Exponential manner  
   b. Logarithmic manner  
   c. Linear manner  
   d. None of the above

14. The principle that all microscopic physical entities have both wave and particle properties is called the wave-particle: 
   a. Singularity  
   b. Duality  
   c. Infinality  
   d. Nullility

15. Which of the following alkanes has 80% of carbon?  
   a. Ethane  
   b. Methane  
   c. Propane  
   d. Butane

16. The shape of p orbital is 
   a. Spherical  
   b. Dumb bell  
   c. Rectangular  
   d. Oval

17. In α- decay  
   a. Z and A are unchanged  
   b. Z decreases by 4 and A decreases by 2  
   c. Z decreases by 2 and A decreases by 4  
   d. Z decreases by 4 and A decreases by 4

18. The unit of viscosity is:  
   a. poise  
   b. centipoise  
   c. Both a and b  
   d. None of the above

19. The pH of boiling water is  
   a. 7  
   b. >7  
   c. <7  
   d. Cannot be predicted

20. IUPAC name of succinic acid is  
   a. 1,4-butanedioic acid  
   b. Butanoic acid  
   c. Butane-1,4-dioic acid  
   d. 1-Butane-4-dioic acid
21. Alkylation of nitrobenzene results into formation of
   a. \( o \)-alkyl nitrobenzene
   b. \( p \)-alkyl nitrobenzene
   c. \( o \)- and \( p \)-alkyl nitrobenzene
   d. \( m \)-alkyl nitrobenzene

22. Heterolytic fission of a covalent bond can form
   a. Free radicals
   b. Carbocation only
   c. Carbanion ion only
   d. Both carbocation and carbanion

23. If the valence shell electronic structure for an element is \( ns^2np^6 \), this element will belong to
   a. Alkali metal
   b. Inert metal
   c. Noble gas
   d. Halogen

24. Schiff base is a product of reaction of primary amine with
   a. Aldehyde only
   b. Ketone only
   c. Carbonyl compounds
   d. None of the above

25. On moving top to bottom in VII\(^\text{th} \) group of periodic table, electronegativity of elements
   a. Increases
   b. Decreases
   c. First increases then decreases
   d. First decreases then decreases

26. The units of a rate of a reaction are
   a. Mole- \( L^{-1} \)-Sec\(^{-1} \)
   b. Mole- \( L\)-Sec\(^{-1} \)
   c. Mole\(^{-1}\)- \( L^{-1} \)-Sec
   d. Mole- \( L\)-Sec

27. Which of the following is a colligative property?
   a. Elevation in boiling point
   b. Depression in freezing point
   c. Both of the above
   d. None of the above

28. Blood is an example of
   a. Sol
   b. Gel
   c. Suspension
   d. None of the above
29. A Shield area composed of geologically ancient rocks of diverse origin:
   a. Peninsula                     b. Extra-Peninsula
   c. Indo-gangetic Plain          d. All the three

30. Average altitude of Lesser Himalayan Zone is:
   a. 1000m                       b. 2000m
   c. 3000m                       d. 4000m

31. Rate of weathering depends upon:
   a. Nature of rocks             b. Climate
   c. Topography                  d. All the three

32. Asaphus is found in:
   a. Brachiopods                 b. Trilobites
   c. Crinoids                    d. Bryozoa

33. Average specific gravity of all non-metallic minerals is:
   a. 1.5                         b. 2.5
   c. 3.5                         d. 4.5

34. Chemical composition of orthoclase:
   a. Hydrous magnesium silicate  b. Potassium aluminum silicate
   c. Sodium aluminum silicate   d. None of the three

35. Rocks which are formed during the solidification of magma near the earths Surface:
   a. Plutonic rocks              b. Hypabyssal rocks
   c. Volcanic rocks             d. All the three

36. Most faults in the Himalaya are
   a. Strike slip fault          b. Thrust
   c. Normal fault               d. Landforms

37. The most important mineral in the Garnet group is:
   a. Grossularite               b. Pyrope
   c. Uvarovite                  d. All the three

38. When lateral pressure brings change in the rocks, this process is called:
   a. Thermal metamorphism       b. Dynamic metamorphism
   c. Static metamorphism        d. local metamorphism

39. When temperature ranges from human body to boiling point of water, the springs are:
   a. Mineral spring             b. Scarp foot spring
   c. Hot spring and Geyser      d. Dip foot spring

40. Admantine is the typical luster of:
   a. Quartz                     b. Galena
   c. Diamond                   d. Topaz

41. Name the non reducing sugar from the following
   a. Glucose
   b. Fructose
   c. Mannose
   d. Sucrose
42. Osmosis is the diffusion of
   a. Water
   b. Solute particle
   c. Gas
   d. Energy

43. Which of the following organisms does not obey the ‘Cell Theory’?
   a. Virus       b. Bacteria       c. Fungi       d. Plants

44. Plants that grow in saline water are known as?

45. Which of the following impart yellow colour to urine in humans?

46. Fruits after ripping become soft. It is due to?
   a. Dissolution of tannins in sap
   b. Dissolution of middle lamella
   c. Formation of ethylene gas
   d. Formation of auxins

47. Vessels are present in all plants except

48. Which of the following are the examples of phloem fibres
   a. Jute       b. Hemp       c. Flax       d. All the above

49. Which of the following is micronutrient of the plant
   a. Manganese   b. Phosphorus   c. Calcium       d. Magnesium

50. Yeast is unlike bacteria in being

51. Fungi usually store the reserve food material in the form of
   a. Starch       b. Lipid       c. Glycogen       d. Protein

52. What is the correct descending sequence of taxonomic categories?
   a. Division-Class-Order-Family-Tribe-Genus
   b. Class-Order-Division-Family-Species-Tribe
   c. Tribe-Genus-Class-Division-Family-Order
   d. Family-Order-Genus-Tribe-Division-Class

53. First transgenic crop is
   a. Tobacco       b. Wheat       c. tomato       d. Maize

54. The error degree of freedom for a RBD design with 10 treatments and 4 replications is
   a. 20       b. 27       c. 40       d. 36
55. Growth of plant towards light is called?

56. The C: N ratio of humus is
   a. 20: 1   b. 100: 1   c. 10: 1   d. 400:1

57. Plants absorb phosphorus in the form of
   a. $\text{H}_2\text{PO}_4$   b. $\text{PO}_4$   c. SSP   d. P

58. Principle of Experimental design is given by
   a. R A Fisher   b. Wilcox   c. Cox and Cochran   d. WG Cochran

59. Which one of the plant is the C4 plant?

60. Which one of the following element is a constituent of protoplasm?

61. Which one of the following element is mobile in plants but immobile in soil?

62. Khaira disease in rice is due to the deficiency of

63. The number of Agro-climatic zones of India is
   a. 17   b. 7   c. 15   d. 10

64. Norin - dwarf gene was introduced in which cereal?

65. The centre of origin of *Triticum aestivum* is

66. Which part of the plant cell is known as power house?
   a. Golgi bodies   b. Ribosomes   c. Mitochondria   d. Lysosomes

67. According to the mode of regeneration, silviculture systems are classified in to:
   a. High forests systems   b. Coppice system   c. Both a. and b.   d. None of these

68. A silviculture system in which clear felling is done in form of strips which progress successively in one time is known as
   a. Clear strip system   b. Alternate strip system   c. Both a. and b.   d. None of these
69. Shelterwood-strip system evolved from
   a. Uniform system  
   b. Group system  
   c. Clear felling system  
   d. Irregular shelterwood system

70. Flowering season of *Alnus nepalensis* is
   a. October – December  
   b. July to September  
   c. January - March  
   d. September to November

71. *Shorea robusta* is a
   a. Shade loving  
   b. Light demanding  
   c. Shade bearing  
   d. Shade tolerant

72. *Populus deltoides* sheds its leaves in the month of
   a. January – February  
   b. September – October  
   c. February – March  
   d. November – December

73. Flowering in *Tectona grandis* occurs from:
   a. June to September  
   b. August to November  
   c. July to October  
   d. May to August

74. *Eucalyptus* species is native of
   a. Canada  
   b. the USA  
   c. Australia  
   d. Mexico

75. *Pinus roxburghii* is a .................needle pine.
   a. three  
   b. five  
   c. six  
   d. seven

76. *Casuarina equisetifolia*
   a. Western Himalaya  
   b. North east India  
   c. central India  
   d. Coastal regions

77. Most important tree for plywood industry in India is
   a. *Eucalyptus* hybrid  
   b. *Populus deltoides*  
   c. *Eucalyptus teretecornis*  
   d. *Casurina equisetifolia*

78. Major forest types in India are
   a. twelve  
   b. thirteen  
   c. sixteen  
   d. eighteen

79. Kathha or Cutch dye obtained from
   a. *Acacia nilotica*  
   b. *Acacia catechu*  
   c. *Acacia tortolis*  
   d. *Acacia mearensii*

80. Lac or Lakh is an important non timber forest product obtained from
   a. an insect  
   b. plant root extract  
   c. plant bark  
   d. fungus

81. When was *Jawahar Rojgaar Youjna* was launched
   a. 1989  
   b. 1991  
   c. 1993  
   d. 1995
82. FDI refers to
   a. Fixed Deposit Interest
   b. Foreign Deposit Investment
   c. Foreign Direct Investment
   d. Future Demonetization Initiatives

83. In India gold mines are located in
   a. Kolar
   b. Dhanbad
   c. Raniganj
   d. All of the above

84. What was 10th five year plan period
   a. 2002-2007
   b. 2007-2012
   c. 1997-2002
   d. 1999-2003

85. Main source of income in India is
   a. Service sector
   b. Agricultural sector
   c. Industrial sector
   d. Educational sector

86. Which is the highest National Award
   a. Padma Vibhushan
   b. Padma Shri
   c. Bharat Ratna
   d. Ashok Chakra

87. The 79th amendment of Indian constitution was related to
   a. Reservation of SC and ST in Lok Sabha and State Assembly
   b. Laying strong foundation for the Panchayati Raj institutions in the country
   c. Administration of the Union Territories
   d. Formation of Interstate Councils

88. Method of constitutional amendment is provided in the Article
   a. 348
   b. 358
   c. 378
   d. 368

89. First general election was held in
   a. 1948
   b. 1951
   c. 1953
   d. None of the above
90. First Finance Commission was constituted in
   a. 1950
   b. 1951
   c. 1952
   d. 1953

91. First Municipal Corporation was set up in
   a. New Delhi
   b. Madras
   c. Bombay
   d. Calcutta

92. Executive head of the state Government is
   a. Governor
   b. Chief Minister
   c. Prime Minister
   d. President

93. The system of judicial review exist in
   a. India and UK
   b. UK and USA
   c. India and USA
   d. UK and Australia

94. Name of 16 digit identification number for each individual is
   a. UID
   b. Aadhar
   c. Both the above
   d. None of the above

95. In which year state of Jharkhand was formed
   a. 1999
   b. 2000
   c. 2001
   d. 2002

96. Sikkim was made integral part of India under
   a. 36th Amendment
   b. 38th Amendment
   c. 32nd Amendment
   d. 30th Amendment

97. Who was Tagore of Punjab
   a. Puran Singh
   b. Amrita Pritam
   c. Kartar Singh Duggal
   d. None of the above
98. Who gave the slogan ‘Jai Hind’
   a. Mahatma Gandhi
   b. Subhash Chandra Bose
   c. Jawahar Lal Nehru
   d. Sardar Vallabhbhai Patel

99. Which Party was founded by Subhash Chandra Bose
   a. Indian Freedom Party
   b. Azad Hind Fauj
   c. Forward Block
   d. Hind Army

100. Who started newspaper Bande Mataram
    a. Bipin Chandra Pal
    b. Rabindra Nath Tagore
    c. Devendra Nath Tagore
    d. Surendra Nath Bannerjee

101. The difference between the place value and face value of 6 in 856973 is
    a. 984
    b. 8563
    c. 5994
    d. 3765

102. The unit digit in \((7^{95} - 3^{58})\) is
    a. 4
    b. 6
    c. 0
    d. 8

103. The least number which should be added to 24978 so that the sum is exactly divisible by 5, 6, 4 and 3 is
    a. 13
    b. 23
    c. 62
    d. 3

104. Six belles commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?
    a. 16
    b. 12
    c. 8
    d. 4

105. 0.232323….. when converted into a fraction is
    a. 15/40
    b. 23/99
    c. 23/100
    d. 15/17
106. The value of 0.002 x 0.5 is
   a. 0.01
   b. 0.001
   c. 0.1
   d. 0.0001

107. A sum of Rs. 312 was divided among 100 boys and girls in such a way that each girl gets Rs. 3.60 and each boy gets Rs. 2.40. The number of boys is
   a. 40
   b. 30
   c. 20
   d. 50

108. Ajay and Vijay distribute Rs. 100 each in charity. Ajay distributes money to 5 more people than Vijay and Vijay gives Rs. 1 more than Ajay. How many people receive the charity?
   a. 65
   b. 55
   c. 45
   d. 30

109. The number when divided by √0.25 gives the result as 25 is
   a. 25
   b. 0.25
   c. 12.5
   d. 50

110. The cube root of 0.000216 is
   a. 0.06
   b. 0.6
   c. 0.24
   d. 0.006

111. When 15 is subtracted from 7 times a number, the result is 10 more than twice the number. The number is
   a. 7
   b. 9
   c. 11
   d. 5

112. 50 is divided into two parts such that the sum of their reciprocals is 1/12. The two parts are
   a. 35 and 15
   b. 30 and 20
   c. 10 and 40
   d. 25 and 25

113. A batsman makes a score of 87 runs in the 17\textsuperscript{th} inning and results in increasing his average by 3. The average after 17\textsuperscript{th} Inning is
   a. 39
   b. 33
   c. 37
   d. 49
114. The product of two fractions is $14/15$ and their quotient is $35/24$. The greater fraction is
a. $\frac{7}{4}$
b. $\frac{7}{3}$
c. $\frac{9}{7}$
d. $\frac{7}{6}$

115. A two-digit number is such that the product of the digits is 8. When 18 is added to the number, the digit re reversed. The number is
a. 18
b. 42
c. 24
d. 81

116. The value of $(27)^{2/3}$ is
a. 8
b. 9
c. 6
d. 3

117. If $\sqrt{2^n} = 64$, n is
a. 12
b. 8
c. 4
d. 16

118. In expressing a length 81.472 km as nearly as possible with three significant digits, the percentage of error is
a. 0.028%
b. 0.016%
c. 0.020%
d. 0.034%

119. If the numerator of a fraction be increased by 15% and its denominator decreased by 8%, the value of fraction is $15/16$. The original fraction is
a. $\frac{2}{3}$
b. $\frac{3}{4}$
c. $\frac{4}{5}$
d. $\frac{3}{5}$

120. A shopkeeper sells an article at a loss of 20%. If the selling price had been increased by Rs. 100, there would have been a gain of 5%. The cost price of the article was
a. 300
b. 200
c. 100
d. 400
121. Present ages of Kiran and Syam are in the ratio of 5:4 respectively. Three years hence, the ratio of their ages will become 11:9 respectively. What is Syam's present age in years?
   a. 24  
   b. 22  
   c. 18  
   d. 29

122. A rectangular parking space is marked out by painting three of its sides. If the length of the unpainted side is 9 feet, and the sum of the lengths of the painted sides is 37 feet, find out the area of the parking space in square feet?
   a. 120  
   b. 154  
   c. 126  
   d. 100

123. \[ 4211.01 + 22.261 - \? = 2645.759 \]
   a. 1587.512  
   b. 1262.542  
   c. 1348.526  
   d. 1232.658

124. How much time will it take for an amount of Rs. 900 to yield Rs. 81 as interest at 4.5% per annum of simple interest?
   a. 4 years  
   b. 6 years  
   c. 1 year  
   d. 2 years

125. The square root of 16641 is
   a. 229  
   b. 199  
   c. 129  
   d. 139

126. \[ \sqrt{248} + \sqrt{64} \] equals to
   a. 14  
   b. 18  
   c. 20  
   d. 16

127. What smallest number should be added to 8444 such that the sum is completely divisible by 7?
   a. 3  
   b. 4  
   c. 5  
   d. 6
128. The missing number, $x$, of the series 1, 8, 27, 64, 125, 216, $x$ is
   a. 243
   b. 453
   c. 456
   d. 343

129. A train of length 150 metres takes 40.5 seconds to cross a tunnel of length 300 metres. The speed of the train in kmph is
   a. 60
   b. 50
   c. 40
   d. 30

130. One side of a rectangular field is 15 m and one its diagonal is 17 m. The area of the field is
   a. $100 \text{ m}^2$
   b. $120 \text{ m}^2$
   c. $140 \text{ m}^2$
   d. $100 \text{ m}^2$

131. The percentage profit earned by selling an item for Rs. 1920 is equal to the percentage loss incurred by selling the same item for Rs. 1280. At what price should the item be sold to make 25% profit?
   a. 2000
   b. 2500
   c. 3000
   d. 4000

132. In a km race A beat B by 28 metres or 7 seconds. A’s rime over the course is
   a. 3 min. 4 sec.
   b. 4 min. 3 sec.
   c. 2 min. 5 sec.
   d. 5 min. 4 sec.

133. The average of five numbers is 27. If one number is excluded, the average becomes 25. The excluded number is
   a. 30
   b. 25
   c. 35
   d. 20

134. The ratio $5:4$ expressed as a percent equals
   a. 125
   b. 12.5
   c. 40
   d. 30
135. The least number which when increased by 5 is divisible by 24, 32, 36 and 54, is
   a. 859
   b. 429
   c. 879
   d. 359

136. If \(1.125 \times 10^k = 0.001125\), the \(k\) is
   a. -1
   b. -2
   c. -3
   d. -4

137. A hemisphere and a cone have equal bases. If their heights are also equal, the ratio of their curved surfaces will be
   a. 1:2
   b. 1:3
   c. 1:√3
   d. 1:√2

138. In a rain shower 5 cm of rain falls. The volume of water that falls on 1.5 hectares of ground is
   a. 75 cu. m
   b. 750 cu. m
   c. 7.5 cu. m
   d. 75000 cu. m

139. In what ratio must a grocer mix two varieties of tea worth Rs. 60 a kg and Rs. 65 a kg so that selling the mixture at Rs. 68.20 per kg gives him a profit of 10%?
   a. 2:3
   b. 3:2
   c. 3:4
   d. 4:3

140. The fourth proportional to 4, 9, 12 is
   a. 27
   b. 15
   c. 18
   d. 30

141. Which day is observed as Diabetes Day
   a. 14\textsuperscript{th} November
   b. 24\textsuperscript{th} November
   c. 2\textsuperscript{nd} November
   d. 4\textsuperscript{th} November
142. Who wrote the famous book “Origin of Species by Means of Natural Selection”
   a. Darwin
   b. Lamarck
   c. Hooker
   d. Wallace

143. The Prime Minister launched Swach Bharat Abhiyan on October 2014 at
   a. Rashtrapathi Bhawan, New Delhi
   b. Rajghat, New Delhi
   c. Gandhi Nagar, Gujarat
   d. Sabarmati, Ahmedabad, Gujarat

144. Ozone hole is maximum over
   a. Russia
   b. Antarctica
   c. Alaska
   d. America

145. The most abundant element is
   a. Nitrogen
   b. Iron
   c. Calcium
   d. Silicon

146. Hydrocarbons from Petroleum are isolated through
   a. Pyrolysis
   b. Fractional Crystallization
   c. Fractional distillation
   d. Sublimation

147. Milk is
   a. Oil in water emulsion
   b. Water in oil emulsion
   c. Fat in protein emulsion
   d. None of the above

148. What is speed of light in vacuum
   a. $8 \times 10^{13} \text{ m s}^{-1}$
   b. $3 \times 10^{18} \text{ m s}^{-1}$
   c. $8 \times 10^{3} \text{ m s}^{-1}$
   d. $3 \times 10^{8} \text{ m s}^{-1}$

149. A fuse wire is made up of
   a. Tin and Copper Alloy
   b. Tin and Lead Alloy
   c. Tin and Silver Alloy
   d. Tin and Aluminum Alloy
150. Which of the following is not a poor conductor of electricity
   a. Selenium
   b. Sulphur
   c. Phosphorus
   d. Bromine

151. SI unit for amount of substance
   a. gram
   b. kilogram
   c. mol
   d. dalton

152. Bandipur National Park is situated in
   a. Rajasthan
   b. Madhya Pradesh
   c. Karnataka
   d. Chhattisgarh

153. National Institute of Design is situated in
   a. New Delhi
   b. Hyderabad
   c. Ahmedabad
   d. Mumbai

154. First Five Year Plan was started in
   a. 1949-50
   b. 1950-51
   c. 1951-52
   d. 1952-53

155. The national flower of India is
   a. Rose
   b. Sunflower
   c. Jasmine
   d. Lotus

156. *Canis* is genus name for
   a. cats
   b. dogs
   c. pigs
   d. monkey

157. Which of the following was twice winner of the Nobel Prize
   a. Marie Curie
   b. Maria Goeppert Mayer
   c. Youyou Tu
   d. née Sklodowska
158. Who was awarded Padma Vibhushan award 2015
   a. Shri L. K. Advani
   b. Shri Prakash Singh Badal
   c. Shri Kottayan K. Venugopal
   d. All of the above

159. Recently GBU-43/B bomb was dropped in Afghanistan. It is a
   a. Low Powered Nuclear Bomb (LPNB)
   b. Massive Ordnance Air Blast Bomb (MOAB)
   c. None of the above
   d. Both the above

160. Which country was first to make Corporate Social Responsible Act
   a. England
   b. USA
   c. Japan
   d. China

161. Montreal Protocol is related to
   a. Global warming
   b. Protection of Ozone layer
   c. Green house gas emission
   d. Deforestation

162. International Mother Earth Day is observed every year on
   a. 22 April
   b. 22 May
   c. 22 June
   d. 22 July

163. ‘Amrapali’ is a name of
   a. Litchi variety
   b. Pineapple variety
   c. Mango variety
   d. Basmati rice variety

164. Where XIX Commonwealth Forestry Conference was organized in India
   a. New Delhi
   b. Uttarakhand
   c. Tamil Nadu
   d. Madhya Pradesh

165. Tropical Forest Research Institute is situated in
   a. Dehradun
   b. Bangalore
   c. Jabalpur
   d. New Delhi
166. Who is the Minister of State for Environment, Forest and Climate Change (Independent Charge)
   a. Shri Prakash Javadekar
   b. Shri Anil Madhav Dave
   c. Smt. Sushma Swaraj
   d. Smt. Maneka Sanjay Gandhi

167. Shri Yogi Adityanath is New Chief Minister of
   a. Uttarakhand
   b. Uttar Pradesh
   c. Punjab
   d. Goa

168. First GM variety of cotton developed by
   a. Punjab Agriculture University
   b. Tamil Nadu Agriculture University
   c. G. B. Pant University of Agriculture and Technology
   d. Indian Agriculture Research Institute

169. IFFCO and which bank provide credit cards to the farmers with overdraft facility
   a. State Bank of India
   b. Reserve Bank of India
   c. Bank of Baroda
   d. ICICI Bank

170. Indian health institute wining first prize for sanitation and hygiene under the Kayakalp awards
   2017
   a. All India Institute of Medical Sciences, New Delhi
   b. Sanjay Gandhi Postgraduate Institute of Medical Sciences
   c. The Christian Medical College, Vellore
   d. Maulana Aad Medical College, New Delhi

171-175: Out of the four alternatives, choose the one which best expresses the meaning of the given Word

171. Abstruse
   a. Exiting
   b. Profound
   c. Suspended
   d. Recondite

172. Veracious
   a. Truthful
   b. Gluttonous
   c. Funny
   d. Venturous
173. Truculent
a. Juicy
b. Aggressive
c. Violent
d. Uncivilized

174. Supercilious
a. Trivial
b. Haughty
c. Secret
d. Honest

175. recalcitrant
a. Fragrant
b. Revolutionary
c. Obstinateley stubborn
d. Curative

176-180: In each of the four words given under following four choices, one word is wrongly spelt. Identify the incorrect word

176.
a. DECENT
b. DESCENT
c. DISSENT
d. DESENT

177.
a. PHYSICS
b. PHYSICK
c. PHYSIQUE
d. PHYSIC

178.
a. CITE
b. SIGT
c. SIGHT
d. SITE

179.
a. AFECT
b. EFFECT
c. CASUAL
d. CAUSAL
180.  
   a. VAIN 
   b. VEIN 
   c. VANE 
   d. VAIN 

181-185: Pick out the most appropriate meaning of the following underlined phrases in each sentence out of four options – 

181. You should be [fare and square] in your dealings 
   a. Reasonable 
   b. Honest 
   c. Prudent 
   d. Quick 

182. By and by he became expert in dealing customers 
   a. Gradually 
   b. Very soon 
   c. Without any efforts 
   d. With great efforts 

183. His honor is at stake 
   a. Watched by everybody 
   b. Disliked 
   c. Respected 
   d. In danger 

184. The whole night he talked at random 
   a) Continuously 
   b) Very loudly 
   c) Without any aim 
   d) Honestly 

185. The then Vice Chancellor was all in all at Allahabad University 
   a. Supreme 
   b. Holding all the administrative posts 
   c. Very resourceful 
   d. Helping to all 

186-190: Pick out the most appropriate meaning of the following idiomatic expressions out of four options given in each case 

186. To nip in the bud 
   a. To pluck a flower bud 
   b. To destroy at an early stage 
   c. To poke a needle to a very soft thing 
   d. To destroy a soft thing
187. To give the cold shoulder
   a. To treat coldly
   b. To treat nicely
   c. To treat warmly
   d. None of the above

188. To do yeoman’s service
   a. To do social work
   b. To do public service
   c. To do excellent work
   d. To do poor work

189. To cry over spilt milk
   a. To spend time in useless regret
   b. To cry after the event is over
   c. To fight over unnecessary things
   d. To cry for some loss

190. To make a figure
   a. To draw a sketch
   b. To distinguish oneself
   c. To make a statue of mud
   d. To make a statue of wood

191-195: Fill in the blank with appropriate preposition

191. Come what may adhere to --------------my principles
   a. With
   b. To
   c. On
   d. Upon

192. Sincere people always abide _____ their friends in all circumstances
   a. With
   b. In
   c. By
   d. Up

193. They sailed____ the river.
   a. In
   b. On
   c. Down
   d. Against

194. Everyone of us will have to atone -----------his or her misdeeds.
   a. Of
   b. About
   c. With
   d. For
195. I waited ____ him for four hours but he did not turn up.
   a. By
   b. Upon
   c. For
   d. Seeing

196-200: Chose the most correct answer from the given choices based on the contents of the passage only.

The memory can be improved. It can be improved vastly and by anyone with normal intelligence. Moreover, the methods by which it can be cultivated are all based on practical common sense. Every experience in life makes an impression through one or more of the senses on the brain or other nerve centers. The problem of memory improvement is to emphasize these impressions and to file them away in such an orderly manner that many will remain intact and stay put. The clearer and neater your mental storehouse, the easier it will be to remember.

196. Memory is something which is
   a. Hereditary
   b. Rare
   c. Natural
   d. Can be improved

197. Every experience in life makes an impression on
   a. The senses
   b. The brain
   c. The spinal chord
   d. Both the brain and the spinal chord

198. Mental clarity and neatness
   a. Improve memory
   b. Have no effect on memory
   c. Are impossible to attain
   d. Result in confusion

199. Memory is best cultivated by methods based on
   a. Magic
   b. Practical common sense
   c. Practice
   d. Hypnotism

200. Improvement in memory can be done
   a. By doing regular exercise
   b. By writing in a piece of paper and then reading it regularly
   c. By remembering the events again and again
   d. By keeping the impressions experienced by senses in orderly manner in mind
DESCRIPTION OF COURSES OFFERED

M.Sc. Forestry

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 across the span of urban to rural environments. 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 of knowledge in multiple disciplinary exposures in the 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.

Programme structure: The Programme consists of courses and other requirements worth a total of 90 credits. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week. Each semester consists of 18 to 20 weeks of academic work equivalent to 90 actual teaching days. The programme structure and respective credits are given below as:

<table>
<thead>
<tr>
<th>Programme Structure</th>
<th>Credit</th>
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<tbody>
<tr>
<td>Core courses</td>
<td>54</td>
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<tr>
<td>Foundation courses</td>
<td>5</td>
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<tr>
<td>Elective courses</td>
<td>5</td>
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<tr>
<td>Synopsis</td>
<td>1</td>
</tr>
<tr>
<td>Master’s thesis</td>
<td>17</td>
</tr>
<tr>
<td>Master thesis seminar</td>
<td>2</td>
</tr>
<tr>
<td>Term paper I</td>
<td>2</td>
</tr>
<tr>
<td>Term paper II</td>
<td>2</td>
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<tr>
<td>Study tour</td>
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<td>Total</td>
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### First Semester

<table>
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<tbody>
<tr>
<td></td>
<td><strong>Foundation Course</strong></td>
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<tr>
<td>FMS 101</td>
<td>Elements of Mathematics and Statistics</td>
<td>1</td>
</tr>
<tr>
<td>FCR 102</td>
<td>Computer Application, Remote Sensing and GIS</td>
<td>1</td>
</tr>
<tr>
<td>FOF 103</td>
<td>Overview of Forestry</td>
<td>1</td>
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<tr>
<td></td>
<td><strong>Core course</strong></td>
<td></td>
</tr>
<tr>
<td>FBS 111</td>
<td>Elements of Biological Science</td>
<td>1</td>
</tr>
<tr>
<td>FFF 112</td>
<td>Fundamentals of Forest Ecology</td>
<td>2</td>
</tr>
<tr>
<td>FSC 113</td>
<td>Silviculture – I</td>
<td>2</td>
</tr>
<tr>
<td>FGS 114</td>
<td>Basic Geology and Soil science</td>
<td>2</td>
</tr>
<tr>
<td>FMB 115</td>
<td>Forest Mensuration and Biometry</td>
<td>2</td>
</tr>
<tr>
<td>FHV 116</td>
<td>Forest Health and Vitality</td>
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<tr>
<td>FTP 117</td>
<td>Term Paper I</td>
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</table>

Total credits in first semester: $14^a + 8^b + 2^c = 24$

### Second Semester

<table>
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<tr>
<th>Course Code</th>
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<td><strong>Core course</strong></td>
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<tr>
<td>FPL 211</td>
<td>Forest Policy and Law</td>
<td>2</td>
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<tr>
<td>FLM 212</td>
<td>Landscape Approach to Management</td>
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</tr>
<tr>
<td>FRU 213</td>
<td>Forest Resource Utilization – I (NTFP)</td>
<td>2</td>
</tr>
<tr>
<td>FFE 214</td>
<td>Forest Economics</td>
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<tr>
<td>Course Code</td>
<td>Course</td>
<td>Credit</td>
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<td>FFP 215</td>
<td>Forest and People</td>
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<td>FRM 216</td>
<td>Natural Resource Management</td>
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<tr>
<td>FSC 217</td>
<td>Silviculture–II</td>
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<td>Seed and Nursery Technology</td>
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<td>Term Paper II</td>
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<td><strong>Total credits in first semester: 15^a+5^b+2^c=22</strong></td>
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## THIRD SEMESTER

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<td>Core course</td>
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<tr>
<td>FRM 311</td>
<td>Resource Survey and Forest Management</td>
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<tr>
<td>FWD 312</td>
<td>Wildlife and Eco Development</td>
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<tr>
<td>FRU 313</td>
<td>Forest Resource Utilization – II (Wood)</td>
<td>2</td>
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<td></td>
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<tr>
<td>FGT 314</td>
<td>Forest Genetics and Tree Improvement</td>
<td>2</td>
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<tr>
<td>FFC 315</td>
<td>Forest Certification</td>
<td>2</td>
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<td>FCC 316</td>
<td>Forest, Society and Climate Change</td>
<td>2</td>
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<tr>
<td>FST 317</td>
<td>Study Tour</td>
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<td><strong>Total credits in first semester: 12^a+5^b+2^c+5^d=24</strong></td>
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## FOURTH SEMESTER

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<td>FSY 441</td>
<td>Synopsis</td>
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<td>FMT 442</td>
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<td>FTS 443</td>
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**LIST OF ELECTIVE COURSE**

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<th>Course Code</th>
<th>Elective Course</th>
<th>Credit</th>
<th>Theory</th>
<th>Practical</th>
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<tr>
<td>FGB 321</td>
<td>Forest Genetics and Biotechnology</td>
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<td>3</td>
<td>2</td>
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<tr>
<td>FRG 322</td>
<td>Remote Sensing and Geographic Information System</td>
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<td>2</td>
<td>3</td>
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<tr>
<td>FWH 323</td>
<td>Wildlife and Habitat Management</td>
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<td>3</td>
<td>2</td>
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<td>FSM 324</td>
<td>Sustainable Forest Management</td>
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<td>FAF 325</td>
<td>Agro forestry</td>
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<tr>
<td>FFP 326</td>
<td>Forest Pathology</td>
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<td>FFE 327</td>
<td>Forest Entomology</td>
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<td>EIA 328</td>
<td>Environmental Impact Assessment</td>
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<td>FPT 329</td>
<td>Plantation Technology</td>
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<td>PTN 330</td>
<td>Plant Taxonomy</td>
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<td>2</td>
<td>3</td>
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</tbody>
</table>


One lecture credit comprises of one hour teaching of the course in a week, while one practical credit comprises of two hours of practical/assignment work in a week

**Descriptions of Course Code**

The courses of M. Sc. programme are divided into four series:

- 100-series courses pertain to first semester
- 200-series courses pertain to second semester
- 300-series courses pertain to third semester
- 400-series courses pertain to fourth semester
- Credit for Synopsis, Master’s thesis and Master thesis seminar is designated by code no. 441, 442 and 443 respectively
Course code is formulated as:

- First alphabet shows programme
- Second and third alphabet shows course name
- First digit shows semester number
- Second digit shows course type (0= foundation, 1= core, 2= elective)
- Last digit shows course number

M.Sc. Wood Science & Technology

Programme Objective: The Master in Wood Science and Technology programme aims to provide opportunity to the students wishing to pursue professional careers in science and technology of wood as natural resource and to make themselves aware about the problems related to wood as basic material to manufacture various useful products. The structure of the curriculum is designed to synthesize multi-disciplinary knowledge in the biological and physical science of wood and its industrial application. The syllabus comprises of basics of wood anatomy, chemistry, physics, mechanics as well as processing knowledge and techniques to manufacture solid and composite wood products. The programme is designed to improve the qualitative, quantitative and futuristic aspects of students. Students are also expected to improve their capacities as leaders and managers through study tour, industrial attachment and excursions and other opportunities. Human Resource Management and Marketing and Enterprise Development are also the part of syllabus to build their entrepreneurial skills and aptitude.

Programme structure: The programme consists of courses and other requirements worth a total of 90 credits. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week. Each semester will consist of 18 to 20 weeks of academic work equivalent to 90 actual teaching days. The programme structure and respective credits are given below as:

<table>
<thead>
<tr>
<th>Programme Structure</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Core course</td>
<td>59</td>
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<tr>
<td>Foundation courses</td>
<td>7</td>
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<tr>
<td>Elective courses</td>
<td>5</td>
</tr>
<tr>
<td>Master’s thesis</td>
<td>12</td>
</tr>
<tr>
<td>Master thesis seminar</td>
<td>2</td>
</tr>
<tr>
<td>Study tour</td>
<td>2</td>
</tr>
<tr>
<td>Industrial Attachment</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>90</td>
</tr>
</tbody>
</table>
Allotment of credits to different courses

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Credit</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOC 101</td>
<td>Orientation Course (Wood Science, Basic Forestry, Basic Botany)</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>WCA 102</td>
<td>Computer Application</td>
<td>-</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>WWC 111</td>
<td>Wood Chemistry</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>WWP 112</td>
<td>Wood Physics - I</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>WWP 113</td>
<td>Wood Physics - II</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WSM 114</td>
<td>Sawmilling and Saw Doctoring</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>WWA 115</td>
<td>Wood Anatomy - I</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>WWA 116</td>
<td>Wood Anatomy - II</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WEM 117</td>
<td>Timber Entomology and Microbiology</td>
<td>3</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Total credits in first semester \[17^a + 6^b = 23\]

**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Credit</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSM 201</td>
<td>Statistics and Research Methodology</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>WTM 211</td>
<td>Timber Mechanics -I</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>WTM 212</td>
<td>Timber Mechanics -II</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WWP 213</td>
<td>Wood Preservation -I</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course</td>
<td>Theory</td>
<td>Practical</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>--------</td>
<td>-----------</td>
<td></td>
</tr>
<tr>
<td>WAD 214</td>
<td>Composite Wood I - Adhesives</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>WPW 215</td>
<td>Composite Wood II - Plywood</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WWS 216</td>
<td>Wood Seasoning - I</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>WWW217</td>
<td>Wood Working</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**

Total credits in second semester = \(15^a + 6^b = 21\)

---

### THIRD SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>WWS 311</td>
<td>Wood Seasoning -II</td>
<td>2</td>
</tr>
<tr>
<td>WWP 312</td>
<td>Wood Preservation II</td>
<td>2</td>
</tr>
<tr>
<td>WWF 313</td>
<td>Wood Finishing</td>
<td>2</td>
</tr>
<tr>
<td>WRW 314</td>
<td>Composite Wood III-Reconstituted Wood</td>
<td>2</td>
</tr>
<tr>
<td>WLW 315</td>
<td>Composite Wood IV- Laminated Wood</td>
<td>2</td>
</tr>
<tr>
<td>WTE 316</td>
<td>Timber Engineering</td>
<td>2</td>
</tr>
<tr>
<td>WPD 317</td>
<td>Products Design and Fabrication</td>
<td>2</td>
</tr>
<tr>
<td>WST 318</td>
<td>Study Tour</td>
<td>2</td>
</tr>
<tr>
<td>WIA 319</td>
<td>Industrial attachment and Report</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total credits in third semester = 14^a + 6^b + 2^c + 3^d = 25**

---

### FOURTH SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHR 401</td>
<td>Human Resource Management</td>
<td>1</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>WME 402</td>
<td>Marketing and Enterprise Development</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Elective Courses</strong></td>
<td><strong>5</strong></td>
</tr>
<tr>
<td>WFC 421</td>
<td>Forest Certification and Nano-technology</td>
<td>5</td>
</tr>
<tr>
<td>WFJ 422</td>
<td>Finger Joints for Efficient Wood Utilization</td>
<td>3</td>
</tr>
<tr>
<td>WVS 423</td>
<td>Vacuum Seasoning Technology</td>
<td>3</td>
</tr>
<tr>
<td>WMT 441</td>
<td>Master’s thesis</td>
<td>12</td>
</tr>
<tr>
<td>WMS 442</td>
<td>Master thesis seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

Total credits in fourth semester: \(2^a + 5^b + 12^c + 2^d = 21\)

- **a**: Theory, **b**: Practical, **c**: Study tour, **d**: Industrial attachment, **e**: Elective paper, **f**: Master thesis report, **g**: Seminar. One lecture credit comprises of one hour teaching of the course in a week, while one practical credit comprises of two hours of practical/assignment work in a week.

### Descriptions of Course Code

The courses of M. Sc. programme are divided into four series:

- 100-series courses pertain to first semester
- 200-series courses pertain to second semester
- 300-series courses pertain to third semester
- 400-series courses pertain to fourth semester
- Credit for Master’s thesis and Master thesis seminar is designated by code no. 441 by 442 respectively.

Course code is formulated as:

- First alphabet shows programme
- Second and third alphabet shows course name
- First digit shows semester number
- Second digit shows course type (0= foundation, 1= core, 2= elective)
- Last digit shows course number
M.Sc. Environment Management

Programme objectives: The programme aims to provide opportunities to the students to make themselves aware about the problems related to environmental concerns and its management. The programme is designed to provide a holistic and integrated approach of learning comprising of classroom lectures, classroom assignments, practical sessions, interactive seminars, field visits, industrial visits, term papers, divisional attachments and master’s thesis writing. The course builds and facilitates understanding of the dynamics of environment especially in the context of ecology, forestry, and climate change. Different types of processes, models, plans and techniques related to environmental processes are described and discussed through class room interaction as well as exposures visits to different ecosystems and institutional/industrial arrangements. The students are expected to get enough exposure for practical solutions to various ecological and environmental problems in the context of today’s world.

Programme structure: The programme consists of courses and other requirements worth a total of 89 credits. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week. Each semester will consist of 18 to 20 weeks of academic work equivalent to 90 actual teaching days. The programme structure and respective credits are given below as:

<table>
<thead>
<tr>
<th>Programme Structure</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core courses</td>
<td>: 53</td>
</tr>
<tr>
<td>Foundation courses</td>
<td>: 5</td>
</tr>
<tr>
<td>Elective courses</td>
<td>: 5</td>
</tr>
<tr>
<td>Synopsis</td>
<td>: 1</td>
</tr>
<tr>
<td>Master’s thesis</td>
<td>: 17</td>
</tr>
<tr>
<td>Master thesis seminar</td>
<td>: 2</td>
</tr>
<tr>
<td>Term paper I</td>
<td>: 2</td>
</tr>
<tr>
<td>Term paper II</td>
<td>: 2</td>
</tr>
<tr>
<td>Study tour</td>
<td>: 2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>: 89</td>
</tr>
</tbody>
</table>

Allotment of credits to different courses
## FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Credit</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Foundation Course</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERG 101</td>
<td>Remote Sensing and Geographical Information System</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Core Course</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EFE 111</td>
<td>Fundamentals of Ecology</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>EEA 112</td>
<td>Ecosystem Analysis</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>EPB 113</td>
<td>Environment Physics and Biogeochemistry</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>ECE 114</td>
<td>Conservation Ecology</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>EIA 115</td>
<td>Environment Impact Assessment</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>ERE 116</td>
<td>Restoration Ecology</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>ETP 117</td>
<td>Term Paper I</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td><strong>Total credits in first semester</strong></td>
<td>19(^a) + 7(^b) + 2(^c) = 28</td>
<td></td>
</tr>
</tbody>
</table>

## SECOND SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Credit</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Foundation Course</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESC 201</td>
<td>Environment Statistics and Computer Application</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Core Course</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EFM 211</td>
<td>Forestry for Sustainable Management</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>EEM 212</td>
<td>Environment Microbiology</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>EGF 213</td>
<td>Global Climate Change and Forest</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>EDM 214</td>
<td>Disaster Management</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>FFE 214</td>
<td>Forest Economics</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course</td>
<td>Credit</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------------------------------</td>
<td>--------</td>
<td>-------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Theory</td>
<td>Practical</td>
</tr>
<tr>
<td>ETM 215</td>
<td>Term Paper II</td>
<td>2</td>
<td>-</td>
</tr>
</tbody>
</table>

Total credits in second semester \(16^a + 6^b + 2^c = 24\)

**THIRD SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Credit</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Course</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPS 311</td>
<td>Environment Policy, Law and Sociology</td>
<td>3</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EPM 312</td>
<td>Environment Pollution Management</td>
<td>3</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EFC 313</td>
<td>Forest Certification</td>
<td>2</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>EST 314</td>
<td>Study Tour</td>
<td>2</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Elective course 5 Credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Credit</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENM 321</td>
<td>Natural Resource Conservation and Management</td>
<td>4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EBM 322</td>
<td>Bio Diversity Monitoring and Management</td>
<td>4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EBC 323</td>
<td>Bio Statistics and Computer Application</td>
<td>4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ESM 324</td>
<td>Solid Waste Management</td>
<td>4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EPC 325</td>
<td>Forest, Society and Climate Change</td>
<td>4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ERG 326</td>
<td>Remote sensing and Geographic Information System- Advance and Application in Environment Management</td>
<td>4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EIA 328</td>
<td>Environment Impact Assessment</td>
<td>4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PTN 330</td>
<td>Plant Taxonomy</td>
<td>2</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total credits in first semester \(8^a + 2^b + 5^c + 2^d = 17\)
FOURTH – SEMESTER

<table>
<thead>
<tr>
<th>Code</th>
<th>Particulars</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESY 441</td>
<td>Synopsis</td>
<td>1</td>
</tr>
<tr>
<td>EMT 442</td>
<td>Master’s thesis</td>
<td>17</td>
</tr>
<tr>
<td>ETS 443</td>
<td>Master thesis seminar</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

*a- Theory, b- Practical, c- Term paper, d- Study tour, e- Elective paper. One lecture credit comprises of one hour teaching of the course in a week, while one practical credit comprises of two hours of practical/assignment work in a week*

**Descriptions of Course Code**

The courses of M. Sc. programme are divided into four series:

- 100-series courses pertain to first semester
- 200-series courses pertain to second semester
- 300-series courses pertain to third semester
- 400-series courses pertain to fourth semester

Credit for Synopsis, Master’s thesis and Master thesis seminar is designated by code no. 441, 442 and 443 respectively

Course code is formulated as:

- First alphabet shows programme
- Second and third alphabet shows course name
- First digit shows semester number
- Second digit shows course type (0= foundation, 1= core, 2= elective)
- Last digit shows course number

**M.Sc. Cellulose & Paper Technology**

**Programme objectives:** The academic programme emphasizes on skills in multidisciplinary and advance education in cellulose and paper sciences. Programme includes courses in modern areas of applied paper science, industrial processing and paper technology. During the university’s educational programme at Masters level, the students receive adequate exposure of theoretical and practical aspects of cellulose and paper technology and gain competence in a distinctive set of skills to lead in paper industry. The course is also ideal for
engineers and scientists currently working in the industry who wish to retrain and refresh in a new field. The current demand for pulp and paper experts indicates that this programme will be in high demand in the near future.

**Programme structure:** The programme consists of courses and other requirements worth a total of 91 credits. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week. Each semester will consist of 18-20 weeks of academic work equivalent to 90 teaching days. The programme structure and respective credits are given below as:

<table>
<thead>
<tr>
<th>Programme Structure</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core courses</td>
<td>77</td>
</tr>
<tr>
<td>Foundation courses</td>
<td>3</td>
</tr>
<tr>
<td>Project work</td>
<td>8</td>
</tr>
<tr>
<td>In Plant training</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>91</td>
</tr>
</tbody>
</table>

**Allotment of credits to different courses**

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>S. No</th>
<th>Course Code</th>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>PP-111</td>
<td>Basic Forestry</td>
<td>3</td>
</tr>
</tbody>
</table>

*Foundation course*

| 2.    | PP-112      | Paper Industry and Fibrous Raw Materials | 4      |
| 3.    | PP-113      | Pulping                              | 4      |
| 4.    | PP-114      | Elements of Mechanical and Electrical Engineering | 4 |

*Core Course*

| 5.    | PP-115      | Washing of pulp                      | 3      |
| 6.    | PP-116      | Practical                            | 5      |

**Total credits in first semester : 23**

**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>S. No</th>
<th>Course Code</th>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>PP-121</td>
<td>Refining, Beating and Chemical Additives</td>
<td>4</td>
</tr>
<tr>
<td>2.</td>
<td>PP-122</td>
<td>Paper Machines-I</td>
<td>4</td>
</tr>
<tr>
<td>3.</td>
<td>PP-123</td>
<td>Paper Machines-II</td>
<td>3</td>
</tr>
<tr>
<td>4.</td>
<td>PP-124</td>
<td>Papermaking Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>5.</td>
<td>PP-125</td>
<td>Screening and Cleaning</td>
<td>3</td>
</tr>
</tbody>
</table>
THIRD SEMESTER

<table>
<thead>
<tr>
<th>S. No</th>
<th>Course code</th>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>PP-211</td>
<td>Chemical Recovery</td>
<td>4</td>
</tr>
<tr>
<td>2.</td>
<td>PP-212</td>
<td>Bleaching Technology</td>
<td>4</td>
</tr>
<tr>
<td>3.</td>
<td>PP-213</td>
<td>Material and Energy Balance</td>
<td>4</td>
</tr>
<tr>
<td>4.</td>
<td>PP-214</td>
<td>Specialty Paper</td>
<td>3</td>
</tr>
<tr>
<td>5.</td>
<td>PP-215</td>
<td>Secondary Fibre Technology</td>
<td>4</td>
</tr>
<tr>
<td>6.</td>
<td>PP-216</td>
<td>Practical</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits in third semester: 24

FOURTH SEMESTER

<table>
<thead>
<tr>
<th>S. No</th>
<th>Course code</th>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>PP-221</td>
<td>Paper Properties</td>
<td>3</td>
</tr>
<tr>
<td>2.</td>
<td>PP-222</td>
<td>Environmental Pollution Control</td>
<td>3</td>
</tr>
<tr>
<td>3.</td>
<td>PP-223</td>
<td>Project Work</td>
<td>8</td>
</tr>
<tr>
<td>4.</td>
<td>PP-224</td>
<td>In Plant Training</td>
<td>3</td>
</tr>
<tr>
<td>5.</td>
<td>PP-225</td>
<td>Practical</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Credits in fourth semester: 22

FEES AND DEPOSITS

The fees is to be paid by a student to the Registrar, FRI Deemed to be University, Dehradun through Bank Draft payable at Dehradun only. A marginal upward revision of the fee is under active consideration of the University.

M.Sc. Courses:

i) **General Seats:**

Tuition fee Rs. 96,000/- payable in four equal installments of Rs.24,000/- each.

ii) **Foreign National Seats:**

Tuition fee 3000 US $ payable in four equal installments of 750 US $ each.

First installment fee will be paid at the time of admission and rest fee at the beginning of each semester.

Fee once paid will not be refunded under any circumstances.
Besides course fee they have to pay students club, sports and magazine, Library, Degree, Electricity/water, Hostel fees etc. as per schedule fixed by the Institute. The student who will be allotted hostel have to pay hostel fees as per schedule.

a) **Caution Money:**

Rs. 3,000/- is payable at the time of admission. The caution money will be refunded on completion of the course after making deductions, if any.

The breakup of fee chargeable from students is as follows:-

**Fee Structure of M.Sc. Forestry, Environment Management and Wood Science & Technology Courses of FRI Deemed to be University**

<table>
<thead>
<tr>
<th>1st Semester at the time of admission</th>
<th>Sl. No.</th>
<th>Item</th>
<th>Revised Fee (in Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Admission Fee</td>
<td></td>
<td>4000.00</td>
</tr>
<tr>
<td>2</td>
<td>Misc. Fee/Sports / Cultural Fee (at the time of admission)</td>
<td></td>
<td>2500.00</td>
</tr>
<tr>
<td>3</td>
<td>Degree Fee (at the time of admission)</td>
<td></td>
<td>200.00</td>
</tr>
<tr>
<td>4</td>
<td>Tuition Fee per semester</td>
<td></td>
<td>24000.00</td>
</tr>
<tr>
<td>5</td>
<td>Hostel charges per semester</td>
<td></td>
<td>3000.00</td>
</tr>
<tr>
<td>6</td>
<td>Electricity, Water &amp; Other maintenance per semester</td>
<td></td>
<td>1200.00</td>
</tr>
<tr>
<td>7</td>
<td>Library/Teaching aid per semester</td>
<td></td>
<td>1000.00</td>
</tr>
<tr>
<td>8</td>
<td>Caution Money (refundable) one time</td>
<td></td>
<td>3000.00</td>
</tr>
<tr>
<td>9</td>
<td>Semester Exam Fee M.Sc./PGD/PMD courses</td>
<td></td>
<td>1000.00</td>
</tr>
<tr>
<td>10</td>
<td>Study Tour/Field Excursion Fee</td>
<td></td>
<td>500.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>40400.00</strong></td>
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</table>

<table>
<thead>
<tr>
<th>2nd Semester</th>
<th>Sl. No.</th>
<th>Item</th>
<th>Revised Fee (in Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tuition fees per semester</td>
<td></td>
<td>24000.00</td>
</tr>
<tr>
<td>2</td>
<td>Hostel charges per semester</td>
<td></td>
<td>3000.00</td>
</tr>
<tr>
<td>3</td>
<td>Electricity Water &amp; Other maintenance per semester</td>
<td></td>
<td>1200.00</td>
</tr>
<tr>
<td>4</td>
<td>Library/Teaching aid per semester</td>
<td></td>
<td>1000.00</td>
</tr>
<tr>
<td>5</td>
<td>Semester Exam Fee M.Sc./PGD/PMD courses</td>
<td></td>
<td>1000.00</td>
</tr>
<tr>
<td>6</td>
<td>Study Tour/Field Excursion Fee</td>
<td></td>
<td>500.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>30700.00</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>3rd Semester</th>
<th>Sl. No.</th>
<th>Item</th>
<th>Revised Fee (in Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tuition fees per semester</td>
<td></td>
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</tr>
<tr>
<td>2</td>
<td>Hostel charges per semester</td>
<td></td>
<td>3000.00</td>
</tr>
<tr>
<td>3</td>
<td>Electricity Water &amp; Other maintenance per semester</td>
<td></td>
<td>1200.00</td>
</tr>
<tr>
<td>4</td>
<td>Library/Teaching aid per semester</td>
<td></td>
<td>1000.00</td>
</tr>
<tr>
<td>5</td>
<td>Semester Exam Fee M.Sc./PGD/PMD courses</td>
<td></td>
<td>1000.00</td>
</tr>
<tr>
<td>6</td>
<td>Study Tour/Field Excursion Fee</td>
<td></td>
<td>8000.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>38200.00</strong></td>
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<tr>
<td>Sl. No.</td>
<td>Item</td>
<td>Revised Fee (in Rs.)</td>
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<td></td>
</tr>
<tr>
<td>1</td>
<td>Admission Fee</td>
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</tr>
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<td>3</td>
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<td></td>
</tr>
<tr>
<td>4</td>
<td>Tuition Fee per semester</td>
<td>24000.00</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Hostel charges per semester</td>
<td>3000.00</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Electricity, Water &amp; Other maintenance per semester</td>
<td>1200.00</td>
<td></td>
</tr>
<tr>
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<td>Library/Teaching aid per semester</td>
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<td></td>
</tr>
<tr>
<td>8</td>
<td>Caution Money (refundable) one time</td>
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<td></td>
</tr>
<tr>
<td>9</td>
<td>Semester Exam Fee M.Sc./PGD/PMD courses</td>
<td>1000.00</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Study Tour/Field Excursion Fee</td>
<td>500.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>40400.00</strong></td>
<td></td>
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</tbody>
</table>

**4th Semester**

<table>
<thead>
<tr>
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<th>Item</th>
<th>Revised Fee (in Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Tuition fees per semester</td>
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<td>2</td>
<td>Hostel charges per semester</td>
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<tr>
<td>3</td>
<td>Electricity Water &amp; Other maintenance per semester</td>
<td>1200.00</td>
</tr>
<tr>
<td>4</td>
<td>Library/Teaching aid per semester</td>
<td>1000.00</td>
</tr>
<tr>
<td>5</td>
<td>Semester Exam Fee M.Sc./PGD/PMD courses</td>
<td>1500.00</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>30700.00</strong></td>
</tr>
</tbody>
</table>

**Fee Structure of M.Sc. Cellulose & Paper Technology Course of FRI Deemed to be University**

**1st Semester at the time of admission**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Item</th>
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<td>3</td>
<td>Degree Fee (at the time of admission)</td>
<td>200.00</td>
</tr>
<tr>
<td>4</td>
<td>Tuition Fee per semester</td>
<td>24000.00</td>
</tr>
<tr>
<td>5</td>
<td>Hostel charges per semester</td>
<td>3000.00</td>
</tr>
<tr>
<td>6</td>
<td>Electricity, Water &amp; Other maintenance per semester</td>
<td>1200.00</td>
</tr>
<tr>
<td>7</td>
<td>Library/Teaching aid per semester</td>
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</tr>
<tr>
<td>10</td>
<td>Study Tour/Field Excursion Fee</td>
<td>500.00</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>40400.00</strong></td>
</tr>
</tbody>
</table>

**2nd Semester**

<table>
<thead>
<tr>
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<th>Item</th>
<th>Revised Fee (in Rs.)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Tuition fees per semester</td>
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<tr>
<td>2</td>
<td>Hostel charges per semester</td>
<td>3000.00</td>
</tr>
<tr>
<td>3</td>
<td>Electricity Water &amp; Other maintenance per semester</td>
<td>1200.00</td>
</tr>
<tr>
<td>4</td>
<td>Library/Teaching aid per semester</td>
<td>1000.00</td>
</tr>
<tr>
<td>5</td>
<td>Semester Exam Fee M.Sc./PGD/PMD courses</td>
<td>1000.00</td>
</tr>
<tr>
<td>6</td>
<td>Study Tour/Field Excursion Fee</td>
<td>500.00</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>30700.00</strong></td>
</tr>
</tbody>
</table>

**3rd Semester**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Item</th>
<th>Revised Fee (in Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tuition fees per semester</td>
<td>24000.00</td>
</tr>
<tr>
<td>2</td>
<td>Hostel charges per semester</td>
<td>3000.00</td>
</tr>
<tr>
<td>3</td>
<td>Electricity Water &amp; Other maintenance per semester</td>
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<tr>
<td>4</td>
<td>Library/Teaching aid per semester</td>
<td>1000.00</td>
</tr>
<tr>
<td>5</td>
<td>Semester Exam Fee M.Sc./PGD/PMD courses</td>
<td>1000.00</td>
</tr>
<tr>
<td>6</td>
<td>Study Tour/Field Excursion Fee</td>
<td>500.00</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>30700.00</strong></td>
</tr>
</tbody>
</table>
**4th Semester**

<table>
<thead>
<tr>
<th></th>
<th>Tuition fees per semester</th>
<th>24000.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Hostel charges per semester</td>
<td>3000.00</td>
</tr>
<tr>
<td></td>
<td>Double occupancy</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Electricity Water &amp; Other maintenance per semester</td>
<td>1200.00</td>
</tr>
<tr>
<td>4</td>
<td>Library/Teaching aid per semester</td>
<td>1000.00</td>
</tr>
<tr>
<td>5</td>
<td>Semester Exam Fee M.Sc./PGD/PMD courses</td>
<td>1500.00</td>
</tr>
<tr>
<td>---</td>
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</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>30700.00</strong></td>
</tr>
</tbody>
</table>

Fee payable at the time of admission (with double occupancy)  Rs. 40,400.00

**HOSTEL RULES**

Subject the general control of the Academic Council, the following Ordinances and Regulations shall regulate the maintenance of discipline among the students residing in the Hostels. The hostel facility is normally provided all the students subject to availability.

**INSTITUTE HOSTELS**

1. **Residence**

1.1 Students may be admitted to the Institute Hostel, according to the criteria laid down (vide Appendix – I) for the purpose and in accordance with the accommodation available for residence.

1.2 The Institute hostels should be totally vacated for a period of one month preferably in June, every year to enable the administration to attend to the maintenance and other associated matters of the hostels. However, if the presence of certain research students is considered essential then they may be accommodated in one hostel.

1.3 Students failing to secure a seat in a hostel are required to make their own arrangement and intimate to the registry address of their residences.

For the purpose of the above Regulation the term “Guardian” shall mean the legal guardian of the student, if one has been appointed or as an alternative a near relative if any, of responsible age provided that the guardian so declared shall sign a declaration of his relationship if any, with the student and shall execute a bond indicating that he shall be responsible for the good behavior of the student.

2. **Disciplinary Control**

2.1 Every student living in a hostel (city campus) will be subject to the disciplinary control of the Registrar/Warden / Dean or any officer appointed by the Director, as the case may be. The Director shall constitute a Disciplinary Committee which will deal with all matter arising out of indiscipline and misconduct in the hostels.

2.2 An officer appointed by the Director shall with the cooperation of warden deal with all cases of indiscipline of students.

2.3 So long as the students is on the role of the Institute he/she shall be subject to the disciplinary control of the Institute authorities.
3. **Rules of Residence**

3.1 Students residing in the hostel, shall not absent themselves except under condition prescribed under regulation and shall follow the rules laid down under these regulations.

3.2 (a) A boy boarder is required to return by 9.00 p.m unless he has taken permission of the concerned warden.

(b) A girl boarder is required to return by 7.30 p.m (from September to February) and 8.30 p.m (from March to August) unless she has taken permission from the concerned warden.

3.3 No boarder shall leave the hostel or remain outside Dehra Dun when the Institute is open and course under which he has taken admission is running except with the written permission of the warden. Permission shall be given by the warden only when the student concerned has obtained leave from Course Coordinator.

3.4 Unless the permission of the warden has been received no boarder shall leave hostel except in an emergency. In the later case he shall inform the warden at the earliest and seek his permission.

3.5 Students going out on authorized tours excursion, etc, shall inform the warden in writing, stating that they have been permitted by the Course Coordinator/Dean/Director to go on such tours excursion, etc. for a specific period. The permission must be taken before they leave the hostel.

4. **Extra – Curricular Activities**

4.1 Apart from the official organizations approved by the Institute, students residing in the hostel with the permission of the Director organise Societies and Association for healthy promotion of their academic cultural, athletic and social welfare activities.

4.2 The Societies and Associations for promoting the academic cultural and other activities of the inmates of the hostel shall be subject to the guidance and control of the warden. On the recommendations of the warden the names of such Associations or Societies along-with their constitutions shall be forwarded to the Registrar as soon as possible for getting recognition by the Academic Council/Board of Management as the case may be.

4.3 For any functions in the hostel in respect of the Associations/Societies use of loudspeaker shall not be permitted.

4.4 Students shall not hold any meeting or organise any activity in the hostel without the written permission of the warden.

4.5 In all function and meeting organised in the Institute student shall maintain due decorum. Such student as are found to create disturbance or to disobey any instruction given to them shall be liable to disciplinary action as per Appendix-2
5 Accommodation of Guests

No boarder residing in hostel shall accommodate a guest in his/her room.

6 Boarder in Women’s Hostel

6.1 Women students residing in the Women’s hostel are required to return as per time given at 3.2 clause unless specially permitted by the warden.

6.2 Women Students residing in the Women’s hostel shall be allowed to meet the visitors in the visitors room only from 5:00 p.m. to 6:30. p.m.

6.3 No Women student residing in the Women’s hostel shall accommodate guests in her room.

7. Power of Enquiry from Students

Every Officer/Scientist and other members of the staff have the power of demanding from the students their identity card and such other information as may be desired by him/her. Students failing to provide the correct information shall be liable to disciplinary action as per Appendix-2.

8. Penalty for Violation

For any contravention of the Ordinances/Rules relating to discipline misconduct or moral turpitude the guilty students shall be liable to such punishment as is provided for in the rules. Punishment for any omissions or commissions or for breach of discipline or any misconduct shall be awarded in accordance with the rules mentioned in Appendix-2.

1.1 In case of serious misconduct, the name of the students shall be entered in the conduct book maintained with the warden. If the name of the student has been entered thrice in the conduct book for misconduct the student shall be liable to expulsion from the hostel under the order of the Director.

1.2 Students found guilty of misconduct in the Institute are liable to be denied hostel facility.

1.3 For act of indiscipline and or misconduct student may be fined by the warden upto a limit of Rs. 200/-.  

9 Articles Permitted/Prohibited in the room

9.1 Every border shall be provided at least the following articles

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Takhat/Cot (one)</td>
</tr>
<tr>
<td>2</td>
<td>Mattress (one)</td>
</tr>
<tr>
<td>3</td>
<td>Table (one)</td>
</tr>
<tr>
<td>4</td>
<td>Chair (one)</td>
</tr>
</tbody>
</table>

9.2 Use of the heater by a boarder is not permitted.

9.3 Students desirous of keeping costly items may do at their own risk.
9.4 Students shall not be permitted to keep even licensed firearms, knives contraband material, etc, in the hostel room under any circumstances whatsoever. A breach of this regulation will lead to the expulsion of the student from the hostel without any enquiry.

9.5 Students shall not be permitted to use any hallucinogenic drug or alcoholic drinks. Even possession of these prohibited articles will render them to severe disciplinary action vide Appendix-2.

10 Invitation to guests for inaugural and other functions

10.1 Students of the Institute may invite any person from outside the Institute for inaugural and other functions of the Societies, Associations, and Students function etc. after obtaining prior permission of the warden.

11 Breach of general rules of the Institute

11.1 Students of the Institution shall abide by the general rules of traffic, health, sanitation, messing extra curricular activities and security of property which may be announced by the Institute from time to time. Any breach on their part will render them liable to such disciplinary action as may be taken by the Institute vide Appendix-2. Wearing of helmet is compulsory in the campus.

12 Violation of general Laws of the land

12.1 All cases of indiscipline amounting to violation of the law of the land, shall be reported to the Registrar / Director who may after preliminary enquiry handover the student concerned to the police for instituting case in a Court of Law.

13 Saving Clause

13.1 Any question of discipline not covered by these rules and other rules framed by the Academic Council shall be dealt with by the Director.

Appendix – I

CATEGORY OF BOARDERS / RESIDENTS IN A INSTITUTE
HOSTEL AND PERIOD OF THEIR STAY

1. Ph.D. Research Scholars

1.1 Residence facility - 4 years with effect from the date of registration or till submission of thesis, whichever is earlier.

   It may be extended for one year in two installments of 6 months each on recommendation of the Supervisor / Head of the Division. However no extension will be given after the submission of thesis.

2. Other bonafide Students

2.1 Only such students who have joined a regular Post – graduate Diploma, Post – graduate Degree & other courses in the Institute shall be eligible for hostel accommodation. The period of allotment though renewable every year, shall not exceed the period of the course to which a student has been admitted.
2.2 Students, who have been expelled rusticated or are under suspension for various act(s) of indiscipline during the course of their studentship, shall not be considered for allotment of seats in the hostel.

2.3 Unauthorized occupants will be expelled from the hostel by the warden. It is equally the responsibility of the hosteller to see that no guest stays in his room. If they persist in disobeying the orders then they are likely to be subjected to severe disciplinary action including rusticated for a specified period or even expulsion from the Institute.

2.4 Defaulters in payment of fees will be liable for cancellation of their allotment in the hostel (vide appendix-2)

2.5 It shall be necessary for the boarders of the hostel to fulfill the requirement of attendance in the classes as laid down in the regulations. Boarders are liable to loose their hostel seats if they do not fulfill the attendance requirement as stated above (vide appendix -2)

2.6 Notwithstanding the period of stay mentioned above at various level, no students of the Institute should be allowed to stay in the hostels of the Institute for a total period exceeding 7 (seven) years. Ordinarily it implies 2 years of post graduate course and maximum of 5 years of Ph.D. Programme but will depend on the duration of the courses run in the Institute.

2.7 No students of the Institute shall have the right to stay in the same room in the next academic session. In the beginning of each academic session fresh allotment of accommodation will be made on production of No Dues Certificate.

**ATTENDANCE RULES**

1. A student has to attend 75% of the lectures delivered and 75% of the practical held separately for each course in each semester.

2. The duration of Industrial attachment/dissertation/thesis works/study tour have to be accounted separately for 75% attendance.

3. The attendance of a student shall be counted from the date of his/her admission, while in the case of promoted student, attendance shall be counted from the date on which respective classes begin.

**STUDENTS WELFARE ACTIVITIES**

→ The Institute provides basic medical facilities to its students.

→ Hostel accommodation is available in the Institute. However, the admission to the Institute does not entitle a student to hostel accommodation automatically.

→ The facilities for indoor games and common room/Gym are provided to the hostlers.

→ Institute library facilities are available to the students.

→ For hostel accommodation the students have to apply separately after taking admission in the FRI Deemed to be University.
UNIFORM

Boys

Maroon Blazer with FRI logo on the chest pocket of the Blazer (In Winters)
White shirt (Full sleeves)
Tie : Brick Red with Diagonal pair of white strips and FRI Logo
Trouser : Black
Shoes: Black Leather shoes

Girls

Maroon Blazer with FRI logo on the chest pocket of the Blazer (In Winters)
Saree : Cream colour with Red Border of about two inches.
Blouse: Red colour with half sleeves
Shoes: cream colour bellies

ACCIDENTS DURING STUDY PERIOD

The Institute does not accept any liability in case of any injury caused due to any accident during the duration of the course.

DISCIPLINARY ACTION

Non conformity or infringements of the rules and regulations in force shall render a student liable to disciplinary action which may extend to expulsion of the student from the course and forfeiture of the deposits and fee already paid by him/her.

IMPORTANT DATES

Issue of application forms starts on 22nd January, 2018
Last date for issue of application forms by post 26th March, 2018
Last date for issue of application forms from Institute’s/ Bank counter at Dehra Dun 30th March, 2018
Last date for receiving completed application forms 06th April, 2018
Date of admission test 20th May, 2018
Date of Ist counseling 06th July, 2018
Date of IInd counseling 09th July, 2018
Date of starting new session 16th July, 2018

The FRI Deemed to be University has the right to change these dates, if required. However, the candidates will be informed in case of a change of date.
FOREST RESEARCH INSTITUTE DEEMED TO BE UNIVERSITY
Under Section 3 of the UGC Act 1956
APPLICATION FORM FOR ADMISSION IN
M.SC. COURSES -2018
FOREIGN CANDIDATES

1. Candidate’s Name: _________________________________________________________________
2. Father’s Name: _________________________________________________________________
3. Mother’s Name: _________________________________________________________________
4. Date of Birth : Date _______ Month _______ Year _______
5. Sex : Male _______ Female _______
6. Category : SC _______ ST _______ OBC _______ GEN _______ PH _______ IN-SERVICE _______
7. Physically Handicapped: Yes/No
8. Nationality: _________________________________________________________________
9. E-mail address: _________________________________________________________________
10. Address (1) : For Correspondence ________________________________________________
    Phone No. _____________________
11. Permanent Address : _____________________________________________________________
    Phone No. _____________________
12. Qualifying Examination Passed _______ Appearing _______
   Details of the examinations Passed/Appearing in: (Please enclose the documentary evidence for the entries in these columns)

<table>
<thead>
<tr>
<th>Name of the Examination</th>
<th>Board/University</th>
<th>Year of Passing/Appearing</th>
<th>Subjects</th>
<th>Marks</th>
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DECLARATION

I declare that in case any information furnished by me is found wrong my candidature for the selection to the Course be cancelled outright and disciplinary action be taken against me. I declare that I am a Foreign National.

Place: ....................................
Candidate: ...............................
Date: .....................................

Signature of Candidate

LIST OF ENCLOSURES:

Note: -

1. International students under self-financing scheme seeking admission to general course such as Master’s degree in Science can apply directly to the institutions concerned. No clearance from Government of India is required for admission to general course. Foreign students are required to apply directly to the University concerned, which would then issue a provisional admission letter depending upon the eligibility. Based on the admission letter, a student visa is issued by the Indian mission abroad. No international student can be admitted to any university or college without a student’s visa. A valid residential permit in India, granted for studies is treated at par with a student’s visa.
2. The original marksheet/certificate/degree of the above examinations are to be presented at the time of admission.

CERTIFICATE

The undersigned is pleased to forward the application of Mr. /Ms. .............................. who is resident of .................................................................for..........years. It is certified that Mr./Ms. .................citizen.

As far as known to me /she bears a good moral character.

Place: ...............................
Date: ...............................  
Signature of official  
(with seal)  
Name..............................  
Designation .....................
the candidate must have minimum eligibility requirement;

2. that the applications of scholarship holding Foreign Nationals (Under various schemes) are routed through Indian Council for Cultural Relations/MHRD, Govt. of India or MoEF, Govt. of India

3. that the applications of self-financing foreign Nationals should be routed through the Ministry of External Affairs, Govt. of India/concerned Indian Diplomatic Mission abroad or Diplomatic Mission of the country of the applicant in India.

4. they must have valid students VISA for the duration of the concerned course.

5. the antecedence of the candidate must have been verified by the forwarding agencies/ministry.

6. The candidate must have a certificate to be verified by the Ministry/Agencies to the effect that the candidate had been subjected to AIDS test and found negative.

7. Fee fixed for and to be realized from the sponsored self financing candidates shall be in foreign currency as may be decided by the Institute from time to time.

8. The candidate have adequate knowledge of English.

The following fee will be paid by the candidate in Foreign currency at the time of admission:-

1. Semester fee - 750 US$ per semester
   (1st installment is payable at the time of admission)

2. Caution Money - 50 US$ (Refundable)

3. Hostel fee - 40 US$ per month

4. Sports, Magazine fee - 30 US$ per annum

5. Library/Teaching aid fee - 50 US$ per semester

6. Degree fee - 10 US$

The mess charges will be around 23 US$ per month, if join mess run by the students.
FOREST RESEARCH INSTITUTE DEEMED TO BE UNIVERSITY
Under Section 3 of the UGC Act 1956
APPLICATION FORM FOR ADMISSION TEST – 2018
(Please go through the guidelines for filling up the application form before filling up the form)

Form No…………………
ROLL No. ________________
(Not to be filled up by candidate)

Course(s) applied for

<table>
<thead>
<tr>
<th>Course(s) applied for</th>
<th>Code No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.Sc. Forestry</td>
<td>01 (A)</td>
</tr>
<tr>
<td>M.Sc. Wood Science &amp; Technology</td>
<td>01 (B)</td>
</tr>
<tr>
<td>M.Sc. Environment Management</td>
<td>01 (C)</td>
</tr>
<tr>
<td>M.Sc. Cellulose &amp; Paper Technology</td>
<td>01 (D)</td>
</tr>
</tbody>
</table>

1. Candidate’s Name:    First Name | Middle Name | Last Name
__________________________ | __________ | __________

2. Father’s Name:    ________________________________________________

3. Mother’s Name:    ________________________________________________

4. Date of Birth : Date  Month  Year

5. Sex :    Male | Female | Transgender

6. Category :  SC | ST | OBC | GEN | PH | IN-SERVICE

7. Physically Handicapped:    Yes/No

8. Nationality:    ____________________

9. Aadhar Card No.    ________________________________________________

10. E-mail address:    ________________________________________________

11. Address (1) :    ________________________________________________
(For Correspondence)
______________________________

Police Station ____________________ Phone No. ______________

12. Permanent Address :    ____________________
______________________________
Phone No. ______________

13. Choice for Test Centre:    1st Choice | 2nd Choice

______________________________ | __________

Photograph (to be pasted & signed by the candidate)
14. Qualifying Examination

<table>
<thead>
<tr>
<th>Passed</th>
<th>Appearing</th>
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</thead>
</table>

Mention the Subjects in Qualifying Exam (B.Sc/M.Sc) | Percentage *

* Minimum 50% marks in science subjects are necessary in the qualifying exam for general category students and 45% marks for SC/ST category students.

15. Details of fee deposited.

<table>
<thead>
<tr>
<th>DD No. &amp; Date</th>
<th>Name of Issuing Branch</th>
<th>Amount (Rs.)</th>
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</table>

DECLARATION

Certified that I am eligible for admission in the above course of FRI Deemed to be University as per the requirements given on website www.fridu.edu.in. The details given by me above are correct to the best of my knowledge and belief. In case it is found in due course that the information given above is incorrect, action may be taken against me as per the rules of the FRI Deemed to be University and my candidature will stand automatically cancelled.

Place:

Date:

Signature of Candidate
FOREST RESEARCH INSTITUTE DEEMED TO BE UNIVERSITY
ADMISSION TEST – 2018
REGISTRATION FORM

1. Candidate’s Name :
2. Father’s Name :
3. Mother’s Name :
4. Date of Birth :
5. Sex :
6. Postal Address :
   (For Correspondence)
7. Category :
8. Aadhar Card No. :
9. Course :
10. Test Centre :
    Choice 1
    Choice 2
11. Full Signature of the Candidate :
12. Signature of the Candidate to be taken at the time of the Test:-
    (To be filled in only in the Examination Hall)

<table>
<thead>
<tr>
<th>Candidate’s Signature</th>
<th>Name(s) of Invigilator’s</th>
<th>Full Signature of Invigilator’s</th>
</tr>
</thead>
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FOREST RESEARCH INSTITUTE DEEMED TO BE UNIVERSITY
ADMISSION TEST – 2018
ADMIT CARD (PROVISIONAL)

1. Candidate Name :
2. Name of the Course in which
   the Candidate is appearing in Admission Test:
3. Address :
4. Examination Centre Allotted:
   (To be filled by University Office)

Date: 20th May, 2018
Time: 10.00 A.M. to 1.00 P.M.

Registrar
FRI Deemed to be University
Dehra Dun
INSTRUCTIONS FOR THE CANDIDATE

1. The candidate must bring the admit card with him/her to secure admission to the examination hall.
2. Method of answering question is given in the answersheet.
3. No candidate shall bring into the examination hall any article other than those specified in this notice. Calculator/Slide Rule/Mobile is NOT allowed.
4. No candidate shall copy from the papers of any other candidate or permit his/her own papers to be copied, or attempt to obtain irregular assistance of any description.
5. The doors of the examination room will be opened half an hour before the time fixed for commencement of the examination.
6. No candidate will be admitted to the examination after fifteen minutes of starting of the paper.
7. No candidate will be allowed to leave the examination hall before half an hour of starting of the paper.
8. No candidate, without special permission of the invigilator, shall leave his/her seat in the examination room until the end of the examination.
9. The candidate should not leave the room without handing over papers to the invigilator. No papers can be taken out of the examination hall.
10. The candidate is advised not to scribe or otherwise spoil the furniture and the Roll No. Cards placed at their desks.
11. Each candidate must write his/her own Roll No. at the space provided for.
12. Candidate will be required to sign the attendance when directed to do so by the invigilator.
13. Silence must be observed in the examination hall; any candidate found guilty, disorderly or of improper conduct will be expelled from the examination hall.
14. Candidate, who fails to observe these regulations, may be disqualified and debarred from appearing in this and any subsequent examination held by the Institute (FRI Deemed to be University).
15. For obtaining acknowledgement of the receipt of the application, please attach a self addressed postcard along with application form.