



St. Bede's College Shimla
(UGC-NAAC "A+" Grade Re-Accredited)

CRITERION 3

3.5.1. NUMBER OF FUNCTIONAL MOUS / LINKAGES WITH INSTITUTIONS/ INDUSTRIES IN INDIA AND ABROAD FOR INTERNSHIP, ON-THE-JOB TRAINING, PROJECT WORK, STUDENT / FACULTY EXCHANGE AND COLLABORATIVE RESEARCH DURING THE LAST FIVE YEARS

HIMALAYAN FOREST RESEARCH INSTITUTE

LIST OF ACTIVITIES DONE UNDER THE MOU

LETTER OF CONSENT



St. Bede's College Shimla





St. Bede's College Shimla

HIMALAYAN FOREST RESEARCH INSTITUTE

The MOU was signed on December 9, 2015, with the Himalayan Forest Research Institute (HFRI) in Shimla. The primary objective of this agreement was to foster hands-on experience for students through workshops on various themes. Additionally, it aimed to establish a Medicinal Garden at St. Bede's in consultation with HFRI scientists and collaborate on landscape designing at St. Bede's with scientists from HFRI.

The agreement focused on organizing conferences, seminars, and symposia in collaboration with HFRI. It also aimed to promote visits by scientists between the two institutions. These opportunities were intended to enhance the students' academic experience, provide exposure to different educational environments, and foster personal and professional growth.

Under this MOU, an International Conference was organized, providing a platform for knowledge exchange and research discussions.

The students had the opportunity to undergo winter and summer internship programs. These programs allowed them to gain practical experience in their field of study and further develop their skills and knowledge.

LIST OF ACTIVITIES DONE UNDER MOU

The session 2016-17 saw the organization of various activities under the terms and conditions of the MOU signed between Himalayan Forest Research Institute, Shimla (HFRI) and St. Bede's College (SBC).

Three-day International Conference

A three-day International Conference was organized by the Department of Zoology and Botany of St. Bede's College, Shimla from October 6-8, 2016, on the topic "Biodiversity: Current Scenario and Future Strategies" sponsored by the State Council for Science, Technology and Environment, Himachal Pradesh. Prof. V.P. Tiwari, Director, H.F.R.I, Shimla supported the college in organizing the conference.

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St. Bede's College Shimla



International Conference on Biodiversity: Current Scenario and Future Strategies



St. Bede's College Shimla



International Conference on Biodiversity: Current Scenario and Future Strategies

Other Extension activities conducted by HFRI

The Himalayan Forest Research Institute (HFRI) conducted a training program for students of St. Bede's College on "Ecological studies on distribution patterns of food plant resources of butterflies along altitudinal gradients in different ecosystems of Western Himalayan Sub-Alpine Forests of Himachal Pradesh" from August 29 to August 31, 2016. The program made students understand the altitudinal gradients and the different ecosystems of the Western Himalayas, and the role they play in the distribution patterns of food plant resources for butterflies.



Training Program on "Ecological studies on distribution patterns of food plant resources of butterflies along altitudinal gradients in different ecosystems of Western Himalayan Sub-Alpine Forests of Himachal Pradesh"



St. Bede's College Shimla



Training Program on “Ecological studies on distribution patterns of food plant resources of butterflies along altitudinal gradients in different ecosystems of Western Himalayan Sub-Alpine Forests of Himachal Pradesh”

From 6th to 8th December 2016 Himalayan Forest Research Institute (HFRI) organized a three-day training program for B.Sc. students on the research project "Management of insect-pest and diseases in the nursery". The objective of the training program was to provide hands-on experience and knowledge to the students about managing insect-pest and diseases in the nursery.

During the training program, students were learnt basic concepts of insect and pest management. They were also taught about different methods of pest and disease management such as chemical control, biological control, cultural control, and physical control. Students were informed how to identify different pests and diseases affecting the plants in the nursery and were taught the appropriate control measures for each of them.

The students were taken to the HFRI nursery, made to identify pests and diseases and were told about various measures to be taken to control the diseases. They were given demonstrations on the use of pesticides and other control measures.



St. Bede's College Shimla



Training Program on "Management of Insect-pest and Diseases in the Nursery"

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St. Bede's College Shimla

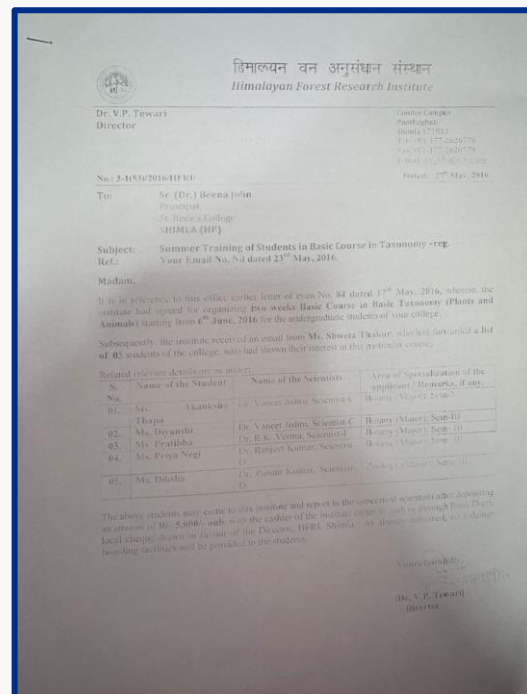
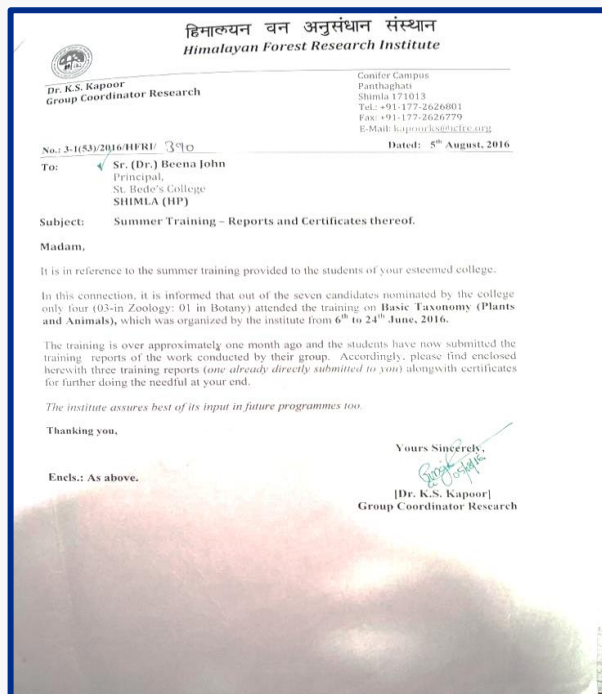
Summer Training for the students:

In the summer of 2016, B.Sc. students of St. Bede's College, Shimla completed a two-week training program in "Basic Course in Taxonomy" at the Himalayan Forest Research Institute (HFRI), Shimla. The program was held from June 6 to June 24, 2016, and provided the information on the principles of taxonomy.

The students were introduced to the basic principles of taxonomy, including the classification of organisms, identification of species, and the principles of nomenclature. They were also given hands-on training in the use of various tools and techniques used in taxonomy, including microscopes, dissection tools, and field identification guides.

During the training program, the students were taken on field trips to various locations in and around Shimla to observe and identify different plant and animal species. They were also given the opportunity to participate in group discussions and presentations, in which they shared their observations and findings with their fellow students.

At the end of the program, the students were evaluated on their understanding of the principles of taxonomy and their ability to apply these principles in the identification of different species. They were also given certificates of completion by the Himalayan Forest Research Institute.



Letters Regarding Approval of Summer Training Program

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St. Bede's College Shimla



Training Program on "Basic Course in Taxonomy"

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St. Bede's College Shimla




Training Program on "Basic Course in Taxonomy"

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St. Bede's College Shimla

Certificates



HIMALAYAN FOREST RESEARCH INSTITUTE
(INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION)
Conifer Campus, Panthaghathi,
Shimla-171013 (H.P.)

CERTIFICATE

This is to certify that the Training entitled "Basic Course in Taxonomy with special reference to the Order Lepidoptera (Insecta)" submitted to the Department of Zoology, St. BEDE'S COLLEGE, SHIMLA is a faithful record of bonafide work carried out by Diksha, B.Sc. 3rd Semester under the guidance and supervision of Dr. Pawan Kumar, Scientist-D at Forest Protection Division, Himalayan Forest Research Institute, Shimla during the period from 6th June 2016 to 24th June 2016. The assistance and help received during the course have been duly acknowledged.


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Dated: 27.07.2016


Dr. Pawan Kumar
डा० पवन कुमार
मैज (Dr. Pawan Kumar)
हिमाचल प्रदेश संरक्षण विभाग
Forest Protection Division

A Training Report on
Basic Course in Taxonomy with Special Reference To the Order
Lepidoptera (Insecta)

Submitted To the
Department of Zoology
St. Bede's College Shimla




Submitted by: Afsana Khan, B.Sc. 5th Semester
Under The Guidance of
Dr. Pawan Kumar, Scientist-D
Dr. Ranjeet Singh, Scientist-F & Head




Forest Protection Division
Himalayan Forest Research Institute
(ICFRE)
Conifer Campus, Panthaghathi,
Shimla-171013 (H.P.)

A Training Report on
Basic Course in Taxonomy with Special Reference To the Order
Lepidoptera (Insecta)

Submitted To the
Department of Zoology
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Submitted by: Diksha, B.Sc. 3rd Semester
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Dr. Pawan Kumar, Scientist-D
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Forest Protection Division
Himalayan Forest Research Institute
(ICFRE)
Conifer Campus, Panthaghathi,
Shimla-171013 (H.P.)

Certificates



St. Bede's College Shimla

The MOU between Himalayan Forest Research Institute, Shimla (HFRI) and St. Bede's College (SBC) for the session 2017-18 facilitated various activities in accordance with the agreed terms and conditions.

Winter Training for the students:

St. Bede's College in collaboration with Himalayan Forest Research Institute, Shimla (HFRI) organized a winter research training program for students of B.Sc. Zoology and B.Sc. Botany from January 8, 2018, to February 10, 2018. The program was designed to provide hands-on experience in research in the field of forest ecology and biodiversity.

Three students from B.Sc. Zoology and two students from B.Sc. Botany participated in the training program. The program was conducted at the HFRI campus in Shimla, which is equipped with state-of-the-art facilities for research.

During the training program, the students were made aware of field sampling, data analysis, and report writing. They were divided into two groups, one for Zoology and the other for Botany, and were given different research projects to work on. The students of Zoology conducted a study on the avian diversity of the Shimla region, while the students of Botany worked on a project related to the medicinal plants of the region. They were told about plant identification, bird counting, and ecological sampling. They also learned how to use different scientific equipment and software to analyze the data they collected during their research.

हिमालयन वन अनुसंधान संस्थान
Himalayan Forest Research Institute

Dr. V.P. Tewari
Director

Conifer Campus
Panthaghat
Shimla 171013
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Fax: +91-177-2626779
E-Mail: dir_hfri@icfre.org

No.: 3-1(53)/2018/HFRI/094 Dated: 8th Jan., 2018

To, **Dr. (Sr.) Beena John**
Principal,
St. Bede's College
SHIMLA (HP)

Subj: Request for Training during Vacations -reg.

Madam,

It is in reference to your letter, wherein, the undersigned was requested to allow the students of your college to undergo one month training in Botany and Zoology at this institute.

In view of the above and subsequent telephonic discussions of Group Coordinator Research, held with **Dr. Shaweta, Assistant Professor** in your esteemed college, the students as per the details below reported the institute to undergo one month training, starting from 8th Jan., 2018. The students have been allotted supervisors as per the details given as under:

S. No.	Name of the Student	Name of the Scientists/ Technical Officer	Area of Interest of the trainee/Remarks, if any.
01.	Ms. Aayushi Verma	Dr. R.K. Verma, Scientist-G	Botany: Sem-IV (Plant Taxonomy)
02.	Ms. Ankita Verma	Dr. Vaneet Jishu, Scientist-D	Botany: Sem-IV (Plant Taxonomy)
03.	Ms. Umang Singh	Mr. Dushyant Kumar, Technical Officer	Zoology: Sem-IV (Soil & Plant Analysis)
04.	Ms. Neha Chandar	Dr. Ranjeet Singh, Scientist-G	Zoology: Sem-IV (Coleopteran Taxonomy)
05.	Ms. Preeti Sharma	Dr. Pawan Kumar, Scientist-D	Zoology: Sem-IV (Lepidopteran Taxonomy)
06.	Ms. Sandhya Bhatt		Zoology: Sem-IV (Lepidopteran Taxonomy)

The above students may report the concerned scientists after depositing an amount of Rs. 7,000/- only [Rs. 5,000/- training fee and Rs. 2,000/- (refundable security)] with the cashier of the institute either in cash or through Bank Draft/ local cheque drawn in favour of the Director, HFRI, Shimla. No lodging/ boarding facilities will be provided to the students.

Yours faithfully,
[Dr. V.P. Tewari]
Director

हिमालयन वन अनुसंधान संस्थान
Himalayan Forest Research Institute

Dr. V.P. Tewari
Director

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Shimla 171013
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Fax: +91-177-2626779
E-Mail: dir_hfri@icfre.org

No.: 3-1(53)/2016/HFRI/762 Dated: 13th December, 2017

To, **Dr. (Sr.) Beena John**
Principal,
St. Bede's College
SHIMLA (HP)

Subject: Request for internship/Training during Vacations -reg.

Madam,

It is in reference to your letter which was received by the undersigned today on 13th December, 2017 wherein a request was made by your good office to consider under graduate students of your college for winter training in the field of Taxonomy both of Plants and Animals.

In this connection, it is informed that the institute is ready to impart the training as desired at your end. This month long training will cost Rs. 5000/- per student besides, a security of Rs. 2000/- per student which is refundable on completion of the training programme. The students may start their training from 8th January, 2018 onwards.

The institute assures best of its inputs during the training programmes.

Yours Sincerely,
[Dr. V.P. Tewari]
Director

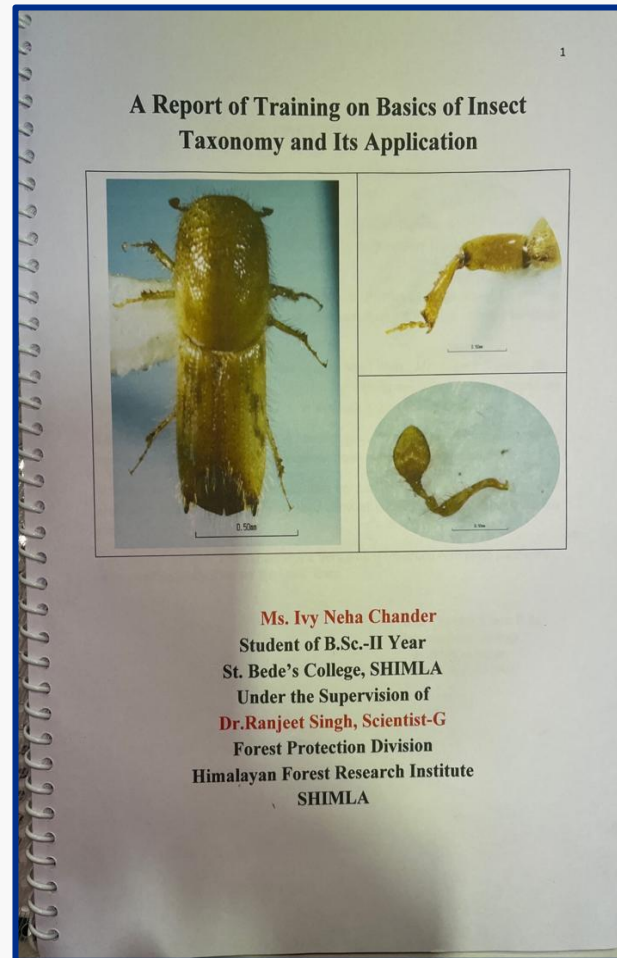
Letters Regarding Approval of Winter Training Program

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St. Bede's College Shimla

Report





Report of Winter Training Program

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St. Bede's College Shimla

Letter of Consent

LETTER OF CONSENT

Under the MOU between Himalayan Forest Research Institute, Shimla (HFRI) and St. Bede's College (SBC) the following activities were organised as per terms and conditions for the session 2016-17.

Three-day International Conference



A three-day International Conference was organized by the Department of Zoology and Botany of St. Bede's College, Shimla from October 6-8, 2016, on the topic "Biodiversity: Current Scenario and Future Strategies" sponsored by the State Council for Science, Technology and Environment, Himachal Pradesh. Prof. V.P. Tiwari, Director, H.F.R.I, Shimla supported the college in organising the conference.

Other Extension activities conducted by HFRI



- A training program for hands-on-experience for students was conducted at HFRI w.e.f. August 29-August 31, 2016, on "Ecological studies on distribution patterns of food plant resources of butterflies along altitudinal gradients in different ecosystem of Western Himalayan Sub-Alpine Forests of Himachal Pradesh."
- B.Sc. students attended a training program under the research project "Management of insect-pest and diseases in the nursery" at HFRI w.e.f. 6th -8th December, 2016.

Summer Training for the students:

- B.Sc. students completed a two-week Summer Training Program in "Basic Course in Taxonomy" w.e.f. July 6- July 24, 2016, at Himalayan Forest Research Institute, Shimla.

For and on behalf of: Himalayan Forest Research Institute, Shimla Signature:  Name: <u>Dr. V.P. Tiwari</u> Designation: Director, HFRI, Shimla DATE: <u>29-11-2016</u> Seal:	For and on behalf of: St. Bede's College, Shimla Signature:  Name: Dr. Sr. Molly Abraham Designation: Principal, SBC, Shimla DATE: <u>7/11/22</u> Seal:
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Principal
St Bede's College
Shimla 171002






LETTER OF CONSENT

Under the MOU between Himalayan Forest Research Institute, Shimla (HFRI) and St. Bede's College (SBC) various activities were organised as per terms and conditions for the session 2017-18.

Winter Training for the students:

- Winter research training at HFRI, Shimla was undertaken by three students of B.Sc. with Zoology w.e.f. Jan. 8, 2018- Feb. 10, 2018
- Winter research training at HFRI, Shimla was undertaken by two students of B.Sc. with Botany w.e.f. Jan. 8, 2018- Feb. 10, 2018

For and on behalf of: Himalayan Forest Research Institute, Shimla Signature:  Name: <u>Dr. V.P. Tiwari</u> Designation: Director, HFRI, Shimla DATE: <u>29-11-2016</u> Seal:	For and on behalf of: St. Bede's College, Shimla Signature:  Name: Dr. Sr. Molly Abraham Designation: Principal, SBC, Shimla DATE: <u>7/11/22</u> Seal:
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Principal
St Bede's College
Shimla 171002

Letter of Consent between Himalayan Forest Research Institute and St. Bede's College for 2016-17 and 2017-18

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