



Central University of Himachal Pradesh

(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)

Dharamshala, Himachal Pradesh-176215



NAAC Criterion-I

Key Indicator –1.3.4

Number of students undertaking research projects

1.3.4 Evidences



Department of Plant Science

Central University of Himachal Pradesh, Dharamshala,

Kangra



Central University of Himachal Pradesh

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Dharamshala, Himachal Pradesh-176215



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Department of Plant Science

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हिमाचल प्रदेश केंद्रीय विश्वविद्यालय Central University of Himachal Pradesh

(पादप विज्ञान विभाग / Department of Plant Science)

(जीव विज्ञान स्कूल / School of Life Sciences)

शाहपुर परिसर, जिला काँगड़ा, हिमाचल प्रदेश -176206



File No: Plant Science/2-3(Head File)/CUHP/21/492

Dated: 27/03/2023

1.3.4 Number of students undertaking field projects or research projects or internships

The following are the students who have completed their **project work during the latest completed academic year** (Batch 2020-2022)

S. No.	Roll No	Name of Student	Title	Place of work
1	CUHP20PLS01	Aditi Himta	Ethnobotanical status of <i>Prunus armeniaca</i> Linn. In Tehsil Chaupal of District Shimla, Himachal Pradesh	CUHP, Shahpur
2	CUHP20PLS03	Anjali	The effect of salicylic acid on growth and biochemical characters in UV-C radiation stressed tomato plant (<i>Solanum lycopersicum</i> L.).	CUHP, Shahpur
3	CUHP20PLS04	Ankita Rana	Establishment of <i>in vitro</i> cultures of <i>Valeriana jatamansi</i> Jones using different plant growth regulators	CUHP, Shahpur
4	CUHP20PLS05	Arti Chauhan	Role of Anti-depressant agents derived from selected Flowering plants	CUHP, Shahpur
5	CUHP20PLS06	Damini	The Use of Halotolerant Plant Growth Promoting Rhizobacteria in Sustainable Agriculture	CUHP, Shahpur
6	CUHP20PLS07	Diksha	Effect of heavy metal stress on the morphology of <i>Solanum nigrum</i> growing under soil conditions	CUHP, Shahpur
7	CUHP20PLS08	Diksha	Effect of mannitol induced seed priming in the salinity tolerance of brinjal (<i>Solanum melongena</i>) seeds.	CUHP, Shahpur
8	CUHP20PLS09	Isha Kumari	Ethnobotanical survey of <i>Ficus carica</i> among local residents of Tehsil Shahpur in District Kangra of Himachal Pradesh	CUHP, Shahpur
9	CUHP20PLS10	Kajal Parihar	Ethnobotanical Status of <i>Grewia optiva</i> (J.R. Drumm. ex Burret) as a Multipurpose Tree in Tehsil Shahpur of District Kangra (H.P.)	CUHP, Shahpur
10	CUHP20PLS11	Kanchan	Effect of osmopriming on salinity stress tolerance of tomato variety golden seeds tomato vaishnavi 2082.	CUHP, Shahpur
11	CUHP20PLS12	Km. Divya	Rhizofiltration as an Effective Approach for	CUHP,

		Pawar	Removal of Heavy Metal from Aqueous Environment	Shahpur
12	CUHP20PLS13	Kushal Thakur	A Review on the Botanicals in Organic Agriculture	CUHP, Shahpur
13	CUHP20PLS14	Madhvi Negi	<i>Saussurea costus</i> (Falc) Lipsch. A Review on Its Ethnomedicinal uses, Phytochemistry and Pharmacology	CUHP, Shahpur
14	CUHP20PLS15	Manu Choudhary	Elicitation approach for <i>in vitro</i> regeneration of <i>Salvia officinalis</i> L.	CUHP, Shahpur
15	CUHP20PLS16	Monika verma	Allelopathic effect of aqueous plant extracts <i>Parthenium hysterophorus</i> and <i>Urtica dioica</i> on seed germination and growth parameters of <i>Capsicum annum</i> variety –suraj mukhi.	CUHP, Shahpur
16	CUHP20PLS17	Nitin Sharma	Commercial Cultivation of Lavender in Salooni Valley: Current Scenario and its Future Prospectives	CUHP, Shahpur
17	CUHP20PLS18	Pallvi	Study on Kangra Tea and “Why it is not Famous”	CUHP, Shahpur
18	CUHP20PLS19	Pitamber	Effect of proline induced seed priming on seedling growth and biochemical parameters of brinjal under salinity salt stress	CUHP, Shahpur
19	CUHP20PLS20	Pooja Thakur	Media manipulative approaches for <i>in vitro</i> propagation of <i>Rhynchosytilis retusa</i>	CUHP, Shahpur
20	CUHP20PLS22	Priya Verma	A systematic review on ethnobotany, pharmacology and phytochemical constituents of <i>Lonicera japonica</i>	CUHP, Shahpur
21	CUHP20PLS23	Rakesh Kumar	A Review on the Phytochemical, Ethnobotanical, and Pharmacological Studies of <i>Thymus linearis</i>	CUHP, Shahpur
22	CUHP20PLS24	Saroj Kumari	Effects of Plant Growth Regulators and Explant Type on <i>in vitro</i> multiplication of <i>Viola odorata</i> L.	CUHP, Shahpur
23	CUHP20PLS25	Shivani	Effect of proline seed priming on growth and biochemical characters of tomato(<i>Solanum lycopersicum</i> L.) under salinity stress	CUHP, Shahpur
24	CUHP20PLS26	Simran	Ethnobotanical Study on Noxious Weeds: <i>Ageratum conyzoides</i> L. and <i>Parthenium hysterophorus</i> L. in Tehsil Shahpur of District Kangra of Himachal Pradesh.	CUHP, Shahpur
25	CUHP20PLS27	Sushma Kumari	Ethnobotanical Status of <i>Nasturtium officinale</i> in Tehsil Shahpur of District Kangra (H.P.)	CUHP, Shahpur
26	CUHP20PLS28	Swati	Seed priming with proline improved the photosynthetic pigment composition and growth of okra(<i>Abelmoschus esculentus</i>) under salinity stress	CUHP, Shahpur
27	CUHP20PLS29	Swati	Synthesis of zinc oxide mediated nanoparticles from Rhizome of <i>Costus speciosus</i> (J.Koenig) Sm.	CUHP, Shahpur
28	CUHP20PLS30	Udaypal Pal Verma	Standardization of Bio-Ethanol Production Under Different Laboratory Conditions	CUHP, Shahpur

29	CUHP20PLS31	Vikash Mirdha	The comparative study of physicochemical parameters and phytoplankton diversity of Dal Lake and Khajjiar Lake in Himachal Pradesh	CUHP, Shahpur
30	CUHP20PLS32	Vineeta Kaundal	In vitro regeneration of <i>Origanum majorana</i> L. -- an endangered medicinal herb	CUHP, Shahpur
31	CUHP20PLS33	Wajid Hussain	Effect of seed priming by mannitol on biochemical and morphological parameters of capsicum under salinity stress	CUHP, Shahpur


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**Ethnobotanical status of *Prunus armeniaca* Linn. In Tehsil Chaupal of District Shimla,
Himachal Pradesh**

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial

Fulfillment of the degree of

Masters of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

Prof. Pardeep Kumar

By

Aditi Himta

(CUHP20PLS01)

June 2022

CENTRAL UNIVERSITY OF HIMACHAL PRADESH



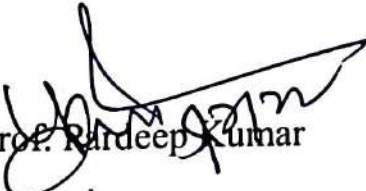
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This is to certify that the dissertation entitled “**Ethnobotanical status of *Prunus armeniaca* Linn. in Tehsil Chaupal of District Shimla, Himachal Pradesh**” submitted by **Aditi Himta CUHP20PLS01 D/O Sh. Santosh Himta** to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of the degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.


Prof. Randeep Kumar
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Dr. Parveen Sharma
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**The Effect of Salicylic Acid on Growth and Biochemical Characters in UV-C
Radiation Stressed Tomato Plants (*Solanum lycopersicum* L.)**

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial

Fulfillment of the degree of

Masters of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

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By

Anjali

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June, 2022

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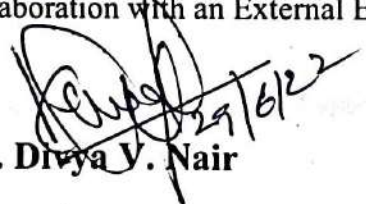
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This to certify that the dissertation entitled “**The Effect of Salicylic Acid on Growth and Biochemical Characters in UV-C Radiation Stressed Tomato Plants (*Solanum lycopersicum* L)**”. submitted by **Anjali (CUHP20PLS03) D/O Yashpal** to the Central University of Himachal Pradesh, Dharamshala in partial fulfilment of the requirements for the award of degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.


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**Establishment of *in vitro* cultures of *Valeriana jatamansi*
Jones using different plant growth regulators**

A dissertation

Submitted to the Central University of Himachal Pradesh for the partial
fulfillment of the degree of

Masters of Science in Plant Science (Botany)

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

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June, 2022



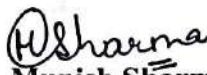
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This to certify that the dissertation entitled “Establishment of *in vitro* cultures of *Valeriana jatamansi* Jones using different plant growth regulators” submitted by Ankita Rana (CUHP20PLS04) D/O Sh. Karnail Rana to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of degree of Master of Science in Plant Science (Botany) has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.


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A Review on the “**Role of Anti-depressant Agents derived from selected
Flowering Plants**”

Submitted to the Central University of Himachal Pradesh for the Partial

Fulfilment of the degree of

Masters of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

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This to certify that the dissertation entitled "A Review on Role of Antidepressant agents derived from selected Flowering Plants" submitted by Arti Chauhan (CUHP20PLS05) D/O Sh. Surender Kumar to the Central University of Himachal Pradesh, Dharamshala in partial fulfilment of the requirements for the award of degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.

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शाहपुर, कांगड़ा (हि.प्र.) / Shahpur, Kangra (H.P.)-176206

**The Use of Halotolerant Plant Growth Promoting Rhizobacteria in
Sustainable Agriculture**

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial

Fulfillment of the degree of

Masters of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

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Damini

Roll No. CUHP20PLS06

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Effect of Heavy Metal Stress on the morphology of *Solanum nigrum* growing under soil conditions

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial
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Masters of Science in Plant Science (Botany)

In the School of Life Sciences

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**Effect of Mannitol Induced Seed Priming in the Salinity Tolerance of Brinjal
(*Solanum melongena*) Seeds**

A Dissertation

Submitted to the Central University of Himachal Pradesh for the Partial

Fulfillment of the Degree of

Master of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

Dr. Divya V. Nair

By

Diksha

June ,2022

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हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
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Dharamshala, District Kangra,

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This to certify that the dissertation entitled "Effect of Mannitol Induced Seed Priming in the Salinity Tolerance of Brinjal Seeds (*Solanum melongena*)" submitted by Diksha (CUHP20PLS08) D/O Sh. Ravinder Kumar to the Central University of Himachal Pradesh, Dharamshala in partial fulfilment of the requirements for the award of degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.

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**Ethnobotanical survey of *Ficus carica* among local residents of
Tehsil Shahpur in District Kangra of Himachal Pradesh**

A dissertation

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In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

Prof. Pardeep Kumar

By

ISHA KUMARI

Roll No. - CUHP20PLS09

June, 2022

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Date- 30 / JUNE / 2022

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This is to certify that the dissertation entitled, “Ethnobotanical survey of *Ficus carica* among local residents of Tehsil Shahpur in Kangra District of Himachal Pradesh”. submitted in partial fulfillment of the requirements for the award of the degree of **Master of Science (Plant science)** in the Central University of Himachal Pradesh, Dharamshala is a bonafide research work carried out by **ISHA KUMARI** under my supervision and that no part of this thesis has been submitted for any other degree or diploma.

The assistance and help received during the course of this investigation have been fully acknowledged.

Prof. Pardeep Kumar
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**Ethnobotanical Status of *Grewia optiva* (J.R. Drumm. ex Burret) as a
Multipurpose Tree in Tehsil Shahpur of District Kangra (H.P.)**

A Dissertation

Submitted to the Central University of Himachal Pradesh for the Partial

Fulfillment of the Degree of

Masters of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



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This is to certify that dissertation entitled “**Ethnobotanical Status of *Grewia optiva* (J.R. Drumm. ex Burret) as a Multipurpose Tree in Tehsil Shahpur of District Kangra (H.P.)**” submitted by **Kajal Parihar** (CUHP20PLS10) D/O Mr. Sunil Parihar to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.


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**Effect of osmopriming on salinity stress tolerance of
Tomato variety - Golden Seeds Tomato Vaishnavi – 2082**

A Dissertation

Submitted to the Central University of Himachal Pradesh for the partial

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Masters of Science in Plant Science

In the school of Life Sciences

In the Department of Plant Science



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This to certify that the dissertation entitled "Effect of osmopriming on salinity stress tolerance of Tomato variety - Golden Seeds Tomato Valshnavi-2082" submitted by Kanchan (CUHP20PLS11) D/O Sh. Pawan Kumar to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.

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Rhizofiltration as an Effective Approach for Removal of Heavy Metals from Aqueous Environment

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial
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Masters of Science in Plant Science (Botany)

In the School of Life Sciences

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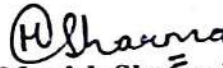
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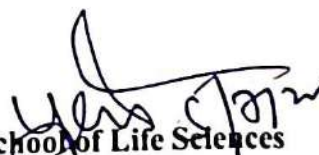
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A Review on the Botanicals In Organic Agriculture

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial

Fulfillment of the degree of

Masters of Science In Plant Science

In the School of Life Sciences

In the Department of Plant Science



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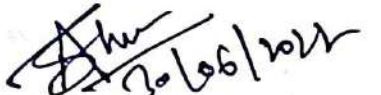
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***Saussurea costus* (Falc) Lipsch. A Review on Its Ethnomedicinal uses,
Phytochemistry and Pharmacology**

A dissertation

Submitted for the purpose to fulfill

The Requirement

Of the degree of

Master of Science in Plant Science

In the school of life Sciences

In the department of Life Science



Under the guidance of

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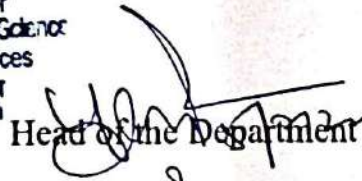
Dharamshala, District Kangra,

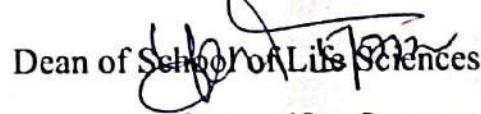
Himachal Pradesh [India]-176215

This to certify that the dissertation entitled "*Saussurea costus* (Falch) Lipsch: A Review on its Ethnomedicinal uses, Phytochemistry and Pharmacology". submitted by Madhvi Negi (CUHP20PLS14) D/O Jaspal Singh Negi to the Central University of Himachal Pradesh, Dharamshala in partial fulfilment of the requirements for the award of degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.



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Dr. Praveen Sharma
External Examiner

**Elicitation approach for *in vitro* regeneration of
Salvia officinalis L.**

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial
Fulfillment of the degree of

Master of Science in Plant Science (Botany)

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

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June, 2022



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This to certify that the dissertation entitled "Elicitation approach for *in vitro* regeneration of *Salvia officinalis* L." submitted by Manu Choudhary (CUHP20PLS15) D/O Sh. Balbir Singh to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of degree of Master of Science in Plant Science (Botany) has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.


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“Allelopathic effect of aqueous leaf extract of *Parthenium hysterophorus* and *Urtica dioica* on the seed germination and growth parameters of *Capsicum annum* variety – Suraj mukhi”

A dissertation
submitted to Central University of Himachal Pradesh
for the partial Fulfillment of the degree
MASTERS OF SCIENCE IN PLANT SCIENCE
In the School of Life Sciences
In the Department of plant science



Under the Supervision of

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This is to certify that the dissertation entitled, “Allelopathic effect of aqueous leaf extract of *Parthenium hysterophorus* and *Urtica dioica* leaves on the seed germination and growth parameters of *Capsicum annum* Variety – Suraj mukhi” submitted by Miss MONIKA VERMA (CUHP20PLS16)) D/o Sh. PARMOD KUMAR to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of the degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.

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Dr. Prof. Parveen Sharma
External Examiner

**Commercial Cultivation of Lavender in Salooni Valley: Current Scenario
and its Future Prospectives**

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial

Fulfilment of the degree of

Masters of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

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CUHP20PLS17

June, 2022

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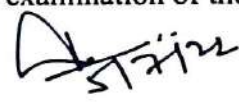
CERTIFICATE

Dated: 30/06/2022

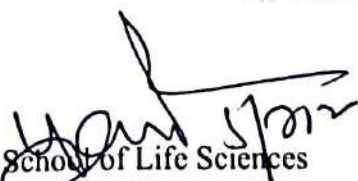
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This is to certify that dissertation entitled “**Commercial Cultivation of Lavender in Salooni Valley: Current Scenario and its Future Prospectives**” submitted by **Nitin Sharma (CUHP20PLS17)** S/O Sh. Mool Raj to the Central University of Himachal Pradesh, Dharamshala in partial fulfilment of the requirements for the award of degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.


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A SURVEY ON KANGRA TEA AND ITS IMPORTANCE

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial

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This is to certify that the dissertation entitled "A survey on Kangra Tea and its importance" is submitted by Pallvi (CUHP20PLS18) D/O Sh. Trilok Chand to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of the degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.

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**“Effect of Proline Induced Seed Priming on Seedling Growth and Biochemical Parameters
of Brinjal Under Salinity Stress”**

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial Fulfillment of the

Degree of

Master of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

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Dr. Parveen Sharma
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Media manipulative approaches for *in vitro* propagation of *Rhynchosyilis retusa*

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial
Fulfillment of the degree of

Masters of Science in Plant Science (Botany)

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

Dr. Munish Sharma

By

Pooja Thakur
(CUHP20PLS20)

CENTRAL UNIVERSITY OF HIMACHAL PRADESH

June, 2022



हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय
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This to certify that the dissertation entitled “Media manipulative approaches for *in vitro* propagation of *Rhynchosytilis retusa*” submitted by Pooja Thakur (CUHP20PLS20) D/O Sh. Om Prakash to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of degree of Master of Science in Plant Science (Botany) has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.


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**A Systematic Review on Ethnobotany, Pharmacology and
Phytochemical Constituents of *Lonicera japonica***

A dissertation

Submitted for the purpose to fulfill

The Requirement

Of the degree of

Master of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



Under the guidance of

Dr. Ashun Chaudhary

By

Priya Verma

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**CENTRAL UNIVERSITY OF HIMACHAL PRADESH
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This to certify that the dissertation entitled "A Systematic Review on Ethnobotany, Pharmacology and Phytochemical Constituents of *Lonicera japonica* submitted by Priya Verma (CUHP20PLS22) D/O Sh. Pawan Kumar to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.



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Dr. Pooveen Sharma
External Examiner

**A Review on the Phytochemical, Ethnobotanical, and Pharmacological
Studies of *Thymus linearis***

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial

Fulfillment of the degree of

Masters of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

Dr. Ashun Chaudhary

By

Rakesh Kumar

Roll No. CUHP20PLS23

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CENTRAL UNIVERSITY OF HIMACHAL PRADESH



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This is to certify that the dissertation entitled "A Review on the Phytochemical, Ethnobotanical, and Pharmacological Studies of *Thymus linearis*" submitted by Rakesh Kumar (CUHP20PLS23) S/O Sh. Govind Ram to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of the degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.


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Effects of Plant Growth Regulators and Explant Type on *in vitro* multiplication of *Viola odorata* L.

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial
Fulfillment of the degree of

Masters of Science in Plant Science (Botany)

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

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Saroj Kumari
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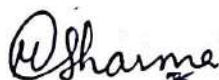
हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय
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This to certify that the dissertation entitled "Effects of Plant Growth Regulators and Explant Type on *in vitro* multiplication of *Viola odorata* L." submitted by Saroj Kuamri (CUHP20PLS24) D/O Sh. Ravinder Kumar to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of degree of Master of Science in Plant Science (Botany) has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.




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**“Effect of Proline Seed Priming on Growth and Biochemical Characters of
Tomato (*Solanum lycopersicum* L.) under Salinity Stress.”**

A Dissertation

Submitted to the Central University of Himachal Pradesh for the Partial

Fulfilment of the Degree of

Master of Sciences in Plant Science

In the School of Life Sciences

In the Department of Plant Sciences



Under the Supervision of

Dr. Divya V. Nair

By

Shivani

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June, 2022

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This is to certify that the dissertation entitled “ **Effect of proline seed priming on growth and biochemical characters of tomato (*Solanum lycopersicum* L.) under salinity stress** ” submitted by Shivani (CUHP20PLS25) D/o Rameshwar Dutt to the Central University of Himachal Pradesh, Dharamshala in partial fulfilment of the requirements for the award of degree of Master of Science in Plant Sciences has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.

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Dr. Parveen Sharma

External Examiner

**Ethnobotanical Study on Noxious Weeds: *Ageratum conyzoides* L. and
Parthenium hysterophorus L. in Tehsil Shahpur of District Kangra of
Himachal Pradesh.**

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial

Fulfillment of the degree of

Masters of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

Prof. Pardeep Kumar

By

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Dated: 30/06/22


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This to certify that the dissertation entitled "**Ethnobotanical Study on Noxious Weeds: *Ageratum conyzoides* L. and *Parthenium hysterophorus* L. in Tehsil Shahpur of District Kangra of Himachal Pradesh**" submitted by **Simran** (CUHP20PLS26) D/O Sh. Mohinder Singh to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.


Prof. Pardeep Kumar
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External Examiner
Prof. Parveen Sharma


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ii

**Ethnobotanical Status of *Nasturtium officinale* in
Tehsil Shahpur of District Kangra (H.P.)**

A Dissertation

Submitted to the Central University of Himachal Pradesh for the Partial

Fulfillment of the Degree of

Masters of Science in Plant Science (Botany)

In the School of Life Sciences

In the Department of Plant Science (Botany)



Under the Supervision of

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This to certify that dissertation entitled “*Ethnobotanical status of Nasturtium officinales in Shahpur tehsil of District Kangra (H.P.)*” submitted by Sushma Kumari (CUHP20PLS27) D/0 Mr. Sham Lal to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.


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**“Seed Priming with Proline Improved the Photosynthetic Pigment
Composition and Growth of Okra (*Abelmoschus esculentus*) under Salinity
Stress.”**

A Dissertation

Submitted to the Central University of Himachal Pradesh for the partial

Fulfilment of the Degree of

Masters of Science in Plant Science

In the school of Life Sciences

In the Department of Plant Science



Under the Supervision of

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By

Swati

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This to certify that the dissertation entitled "Seed priming with proline improved the photosynthetic pigment composition and growth of okra (*Abelmoschus esculentus*) under salinity stress" submitted by Swati (CUHP20PLS28) D/O Pardeep Kumar to the central university of Himachal Pradesh Dharamshala in partial fulfilment of the requirements for the award of degree of Master of Science in Plant Science in collaboration with external examiner.


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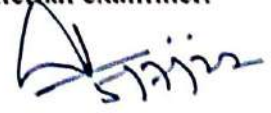
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External Examiner

Synthesis of Zinc Oxide mediated Nanoparticles from Rhizome of *Costus speciosus* (J. Koenig) Sm.

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial
Fulfillment of the degree of

Masters of Science in Plant Science (Botany)

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

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June, 2022



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This to certify that the dissertation entitled “**Synthesis of zinc oxide mediated nanoparticles from rhizome of *Costus speciosus* (J.Koenig) Sm.**” Submitted by Swati (CUHP20PLS29) D/O Sh.Prem Singh to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of degree of Master of Science in Plant Science (Botany) has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.




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STANDARDIZATION OF BIO-ETHANOL PRODUCTION UNDER DIFFERENT LABORATORY CONDITIONS

A Dissertation

Submitted to the Central University of Himachal Pradesh for the Partial
Fulfillment of the Degree of

Masters of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

Dr. Ashun Chaudhary

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UDAYPAL

June, 2022

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This to certify that the dissertation entitled “Standardization of bio-ethanol production under different laboratory conditions” submitted by UDAYPAL (CUHP20PLS30) S/o VINOD KUMAR to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.


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"The comparative study of physicochemical parameters and phytoplankton diversity of Dal Lake and Khajjar Lake in Himachal Pradesh"

A dissertation

Submitted to the Central University of Himachal Pradesh for the Partial Fulfillment of the Degree of

Master of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

Dr. Ashu Chaudhary

by

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(Roll No. CUHP20PLS31)

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CENTRAL UNIVERSITY OF HIMACHAL PRADESH



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(Established under central university act 2009)
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CERTIFICATE


Dated 30/06/2022


Department /Centre

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This is to certify that the dissertation entitled “The comparative study of physicochemical parameters and phytoplankton diversity of Dal Lake and Khajjlar Lake in Himachal Pradesh” submitted by Vikash Mirdha (CUHP20PLS31) S/O Suresh Kumar Mirdha to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of the degree of Master of Science in Plant Science has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.


Dr. Ashim Chaudhary
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Dr. Parveen Sharma
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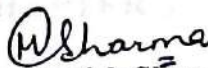
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This to certify that the dissertation entitled "*In vitro* regeneration of *Origanum majorana* L. – an endangered medicinal herb" submitted by Vineeta Kaundal (CUHP20PLS32) D/O Sh. Khem Chand to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of degree of Master of Science in Plant Science (Botany) has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.



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Effect of seed priming by mannitol on biochemical and morphological parameters of Capsicum under salinity stress

A Dissertation

Submitted to the Central University of Himachal Pradesh for the Partial Fulfilment
of the Degree of

Masters of Science in Plant Science

In the School of Life Sciences

In the Department of Plant Science



Under the Supervision of

Dr. Divya V. Nair

By

WAJID HUSSAIN

JUNE, 2022

CENTRAL UNIVERSITY OF HIMACHAL PRADESH



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय

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This to certify that the dissertation entitled "Effect of seed priming by mannitol on biochemical and morphological parameters of Capsicum under salinity stress" submitted by Mr. Wajid Hussain (CUHP20PLS33) D/o/ S/o Mr. Khursheed Ahmed to the Central University of Himachal Pradesh, Dharamshala in partial fulfillment of the requirements for the award of degree of Master of Science in Botany has been approved by the committee after an oral examination of the student in collaboration with an External Examiner.

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