

Karnatak University, Dharwad



Reaccredited by NAAC 'A' Grade
University with Potential for Excellence

Certificate

This is to certify that, the M.Sc. dissertation entitled **"Green Synthesis of Nanoparticles using Angiosperms and their Applications"**, submitted by **SUPRIYA ANIL SHETTI (Reg. No. 19S04043)** as a partial fulfillment for the award of the degree of Master of Science in Botany is based on the results of the experiment carried out by them under the guidance of **Prof. T. C. TARANATH** in the P. G. Department of Studies in Botany, Karnatak University, Dharwad, during the academic year 2020-21.

Chairman
Chairman
P. G. Dept. of Botany
K. U. Dharwad-3

Examiners

1. KARNATAK UNIVERSITY, DHARWAD,
2. DEPARTMENT OF BOTANY
SUBMITTED FOR VALIDATION
M. SC.

Karnatak University, Dharwad



Reaccredited by NAAC 'A' Grade
University with Potential for Excellence

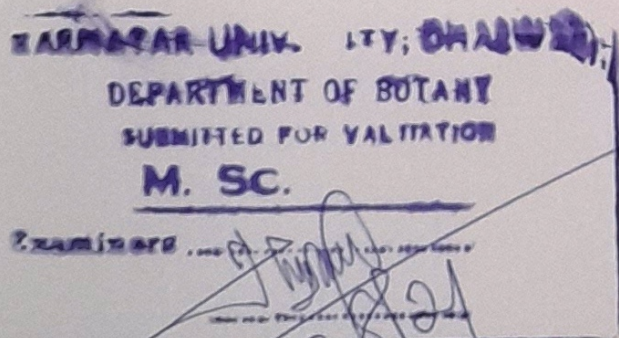
Certificate

This is to certify that, the M.Sc. dissertation entitled "**Fungi Mediated Nanoparticle Synthesis and their Applications**", submitted by **PRAGATI PATIL (Reg. No.19S04025)** as a partial fulfillment for the award of the degree of Master of Science in Botany is based on the results of the experiment carried out by them under the guidance of **Prof. T. C. TARANATH** in the P. G. Department of Studies in Botany, Karnatak University, Dharwad, during the academic year 2020-21.

Examiners

1.

2.



Chairman
Chairman
P. G. Dept. of Botany
K. U. Dharwad-3

Karnatak University, Dharwad



Reaccredited by NAAC 'A' Grade
University with Potential for Excellence

Certificate

This is to certify that, the M.Sc. dissertation entitled **“Bryophytes and Pteridophytes Mediated Synthesis of Nanoparticles and their Applications”**, submitted by **ASHWINI BENNUR (Reg. No. 19S04007)** as a partial fulfillment for the award of the degree of Master of Science in Botany is based on the results of the experiment carried out by them under the guidance of **Prof. T. C. TARANATH** in the P. G. Department of Studies in Botany, Karnatak University, Dharwad, during the academic year 2020-21.

Examiners

- 1.
2. **KARNATAK UNIVERSITY, DHARWAD**
DEPARTMENT OF BOTANY
SUBMITTED FOR VALIDATION
M. Sc.
Examiners

Chairman

Chairman
P. G. Dept. of Botany
K. U. Dharwad-3

Karnatak University, Dharwad



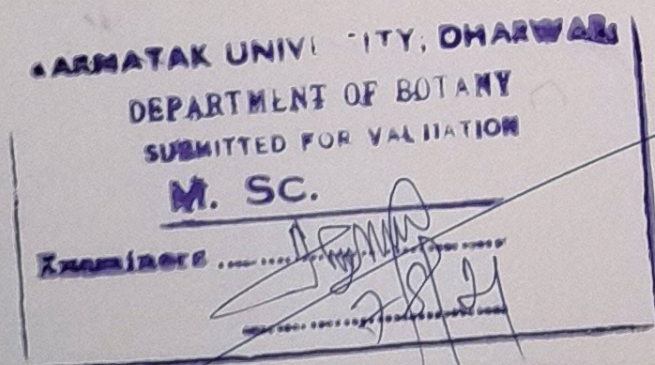
Reaccredited by NAAC 'A' Grade
University with Potential for Excellence

Certificate

This is to certify that, the M.Sc. dissertation entitled **“Use of Algae in the synthesis of Nanoparticles and their Applications”**, submitted by **Trupthi B. A. (Reg. No.19S04045)** as a partial fulfillment for the award of the degree of Master of Science in Botany is based on the results of the experiment carried out by them under the guidance of **Prof. T. C. TARANATH** in the P. G. Department of Studies in Botany, Karnatak University, Dharwad, during the academic year 2020-21.

Examiners

- 1.
- 2.



Chairman

Chairman
P. G. Dept. of Botany
K. U. Dharwad-3

Karnatak University, Dharwad



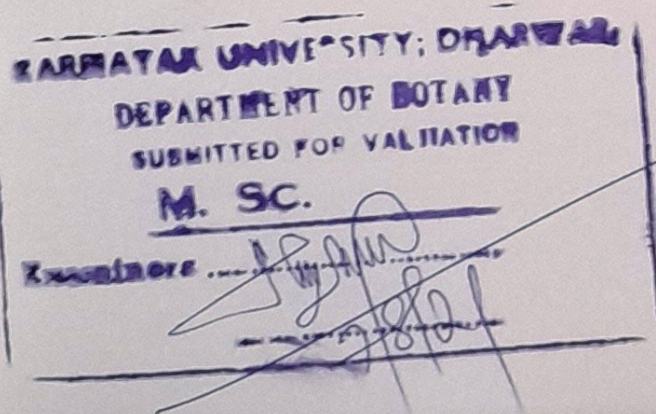
Reaccredited by NAAC 'A' Grade
University with Potential for Excellence

Certificate

This is to certify that, the M.Sc. dissertation entitled **"Nanoparticle Synthesis using Gymnosperms and their Applications"**, submitted by **SHRADDHA V. KAVARI** (Reg. No. 19S04037) as a partial fulfillment for the award of the degree of Master of Science in Botany is based on the results of the experiment carried out by them under the guidance of **Prof. T. C. TARANATH** in the P. G. Department of Studies in Botany, Karnatak University, Dharwad, during the academic year 2020-21.

Examiners

- 1.
- 2.



Chairman
Chairman
P. G. Dept. of Botany
K. U. Dharwad-3

Karnatak University, Dharwad



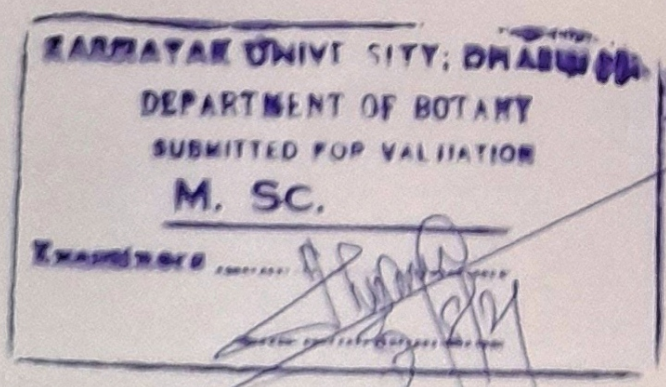
Reaccredited by NAAC 'A' Grade
University with Potential for Excellence

Certificate

This is to certify that, the M.Sc. dissertation entitled **"Biosynthesis of Nanoparticles using Bacteria and their Applications"**, submitted by **M. POORNIMA (Reg. No.19S04015)** as a partial fulfillment for the award of the degree of Master of Science in Botany is based on the results of the experiment carried out by them under the guidance of **Prof. T. C. TARANATH** in the P. G. Department of Studies in Botany, Karnatak University, Dharwad, during the academic year 2020-21.

Examiners

- 1.
- 2.



Chairman

Chairman
P. G. Dept. of Botany
K. U. Dharwad-2

KARNATAK UNIVERSITY DHARWAD

Pavate Nagara ,580003



Accredited A Grade by NAAC

University with potential for Excellence

CERTIFICATE

This is to certify that dissertation entitled "Documentation of Algal diversity in Western Parts of India" Submitted by Miss. Kavya Pujar for the partial fulfillment of Master Science in Botany is based on the results of experiment carried out by them under the guidance of Dr. Devarajan Thangadurai during 2020-21 in the Post Graduate Department of studies in Botany, Karnatak University, Dharwad.

Date:

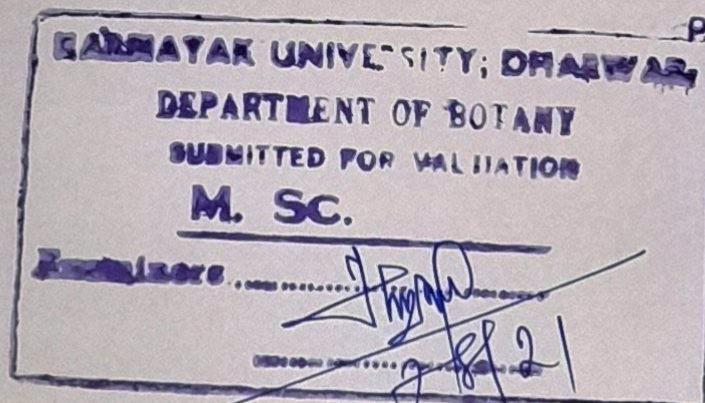
4/6/21

Place: Dharwad

Chairman.

Chairman

P. G. Dept. of Botany
K. U. Dharwad-3



KARNATAK UNIVERSITY DHARWAD

Pavate Nagara ,580003



Accredited A Grade by NAAC

University with potential for Excellence

CERTIFICATE

This is to certify that dissertation entitled "Phycodiversity in southern parts of India" submitted by Miss. Namrata Uday Shetty for the partial fulfillment of Master Science in Botany is based on the results of experiment carried out by them under the guidance of Dr. Devarajan Thangadurai during 2020-21 in the Post Graduate Department of studies in Botany, Karnatak University, Dharwad.

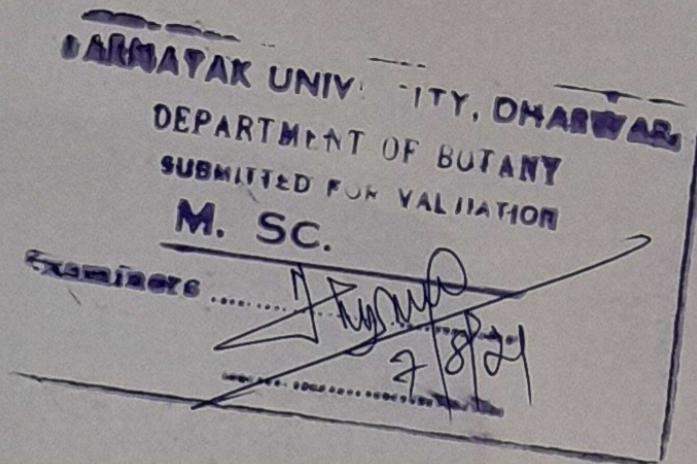
Date:

7/8/21

Place: Dharwad

Chairman.

Chairman
R & Dept. of Botany
K. U. Dharwad-3



KARNATAK UNIVERSITY DHARWAD

Pavate Nagara ,580003



Accredited A Grade by NAAC

University with potential for Excellence

CERTIFICATE

This is to certify that dissertation entitled "Algal Genetic resources from North East India" submitted by Miss. Ankita P. Joshi for the partial fulfillment of Master Science in Botany is based on the results of experiment carried out by them under the guidance of Dr. Devarajan Thangadurai during 2020-21 in the Post Graduate Department of studies in Botany, Karnatak University, Dharwad.

Date:

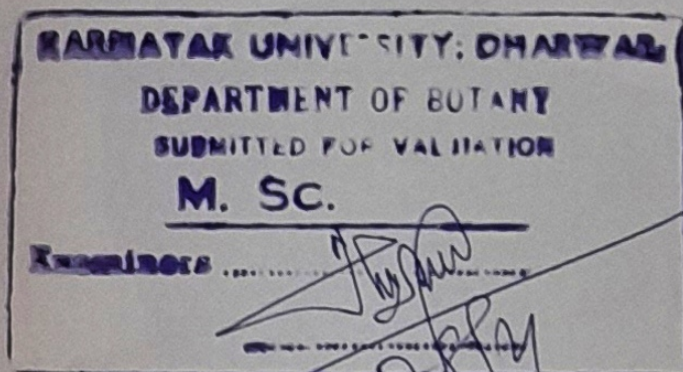
7/8/21

Place: Dharwad

Chairman.

Chairman

P. G. Dept. of Botany
K. U. Dharwad-3



KARNATAK UNIVERSITY DHARWAD

Pavate Nagara ,580003



Accredited A Grade by NAAC

University with potential for Excellence

CERTIFICATE

This is to certify that dissertation entitled "Algal Diversity in Central India " Submitted by Miss. Varsha Venkatesh Gudipati for the partial fulfillment of Master Science in Botany is based on the results of experiment carried out by them under the guidance of Dr.Devarajan Thangadurai during 2020-21 in the Post Graduate Department of studies in Botany,Karnatak University,Dharwad.

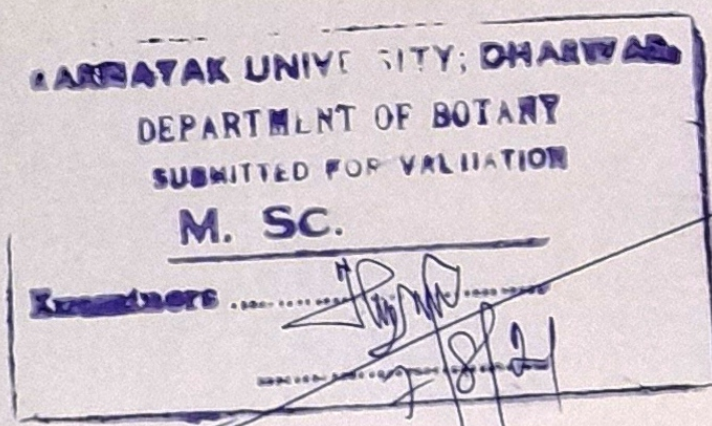
Date:

Place:Dharwad

Chairman.

Chairman

P. G. Dept. of Botany
K. U. Dharwad



Karnatak University, Dharwad



Reaccredited by NAAC 'A' Grade
University with Potential for Excellence

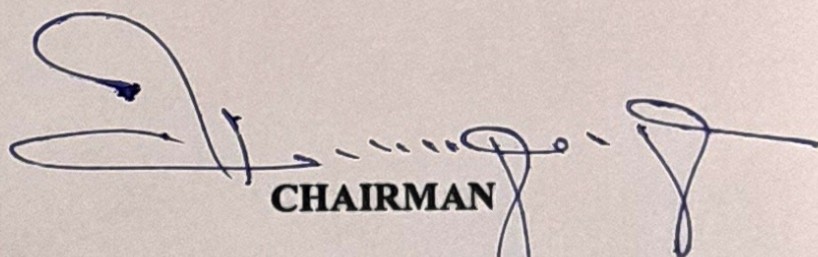
CERTIFICATE

This is to certify that, the M.Sc. dissertation entitled "**Study of Algal Diversity And Distribution In Northern India**". Submitted by **Mr. JAGADISH BANNIGIDAD (Reg. No.19S04010)** as a Partial fulfillment for the award of the degree of Master of Science in Botany is based on the results of the experiment carried out by them under the guidance of **Dr. D. Thangadurai** in the P. G. Department of Studies in Botany, Karnatak University, Dharwad during the academic year 2020-21.

Place: Dharwad

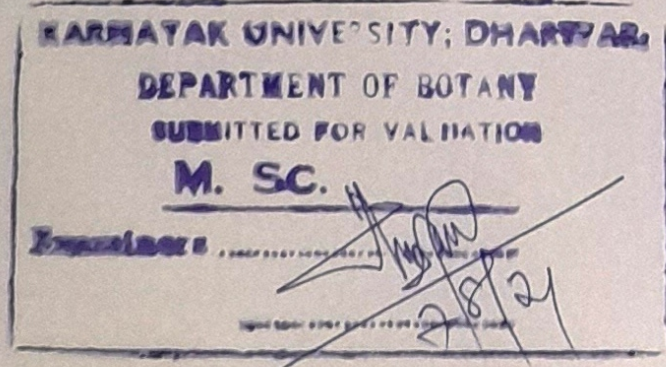
Date:

7/8/21



CHAIRMAN

Chairman
P. G. Dept. of Botany
K. U. Dharwad-3



KARNATAK UNIVERSITY DHARWAD

Pavate Nagara ,580003



Accredited A Grade by NAAC

University with potential for Excellence

CERTIFICATE

This is to certify that dissertation entitled "Ecology and Taxonomy of Algae from Eastern Parts of India" Submitted by Miss.Shivaranjani Bhimappa Nayak for the partial fulfillment of Master Science in Botany is based on the results of experiment carried out by them under the guidance of Dr.Devarajan Thangadurai during 2020-21 in the Post Graduate Department of studies in Botany,Karnatak University,Dharwad.

Date:

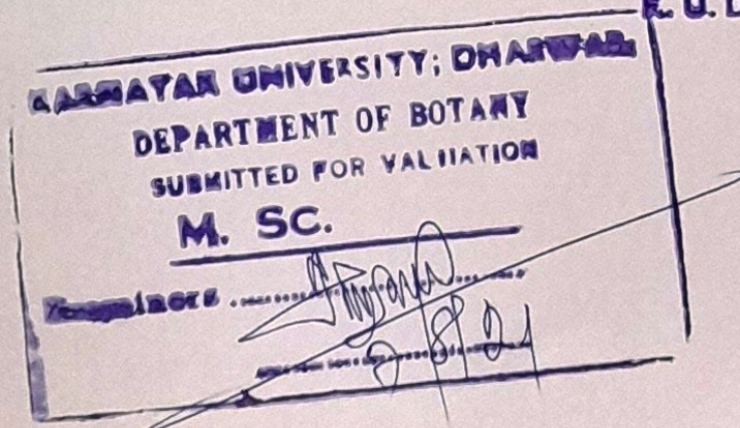
7/5/21

Place:Dharwad

Chairman.

Chairman

R. & Dept. of Botany
K. U. Dharwad-3



KARNATAK UNIVERSITY, DHARWAD



NAAC Accredited "A" Grade

University with Potential for Excellence

Certificate

This is to certify that the dissertation entitled "Pharmacognostic and Pharmacological Activity of Leaves and Bark of the Medicinally Potential plant *Givotia rottleriformis* Griff. Ex Wight" submitted by Ms. Anusha M. Patil and Ms. Parvati M. Jolad for the partial fulfilment of Master of Science in Botany is based on the review of literature carried out by them under the guidance of Dr. H. Niranjana Murthy during 2020-2021 in the Post Graduate Department of Studies in Botany, Karnatak University, Dharwad.

Date:

5/8/21

Place: Dharwad

DEPARTMENT OF BOTANY

SUBMITTED FOR VALUATION

M. SC.

Karnatak University

Chairman
Chairman
P. G. Dept. of Botany
K. U. Dharwad-3

NAAC ACCREDITED "A" GRADE
UNIVERSITY WITH POTENTIAL FOR EXCELLENCE



This is to certify that presentation entitled “Phytochemical Analysis and Pharmacological Study of *Strychnos potatorum* Linn. Submitted by Mr. **Manjunatha Waddar** and Mr. **Prasanna Patgar**. For the partial fulfilment of Master Science in Botany is based on results of experiment carried out by them under the guidance of **Dr. H. Niranjana Murthy** during 2020-2021 in the Post Graduate Department of Studies in Botany, Karnatak University Dharwad.

Date: _____

Place: Dharwad

Chairman

P. G. Department of Studies in Botany

Chairman

Dept. of Botany
R. U. Dharywad

KARNATAK UNIVERSITY, DHARWAD

~~DEPARTMENT OF BOTANY~~

SUBMITTED FOR VALUATION

~~M. SC.~~

Zugunimere

KARNATAK UNIVERSITY

NAAC ACCREDITED "A" GRADE

UNIVERSITY WITH POTENTIAL FOR EXCELLENCE



CERTIFICATE

This is to certify that presentation entitled "Phytochemical and Antimicrobial Analysis of *Andrographis lineata* Nees. Submitted by Mr. **Kirankumar J Patil** and Mr. **Ravindra Naik**. For the partial fulfilment of Master Science in Botany is based on results of experiment carried out by them under the guidance of **Dr. H. Niranjana Murthy** during 2020-2021 in the Post Graduate Department of Studies in Botany, Karnatak University Dharwad.

Date:

5/8/21

Chairman

Place: Dharwad

P.G. Department of Studies in Botany

KARNATAK UNIVERSITY, DHARWAD
DEPARTMENT OF BOTANY
SUBMITTED FOR VOUCHER

Chairman
P.G. Dept. of Botany
K. U. Dharwad-3

M. SC.

Examiner

KARNATAK UNIVERSITY DHARWAD

Pavate Nagar ,Dharwad 580003



CERTIFICATE

This is to certify that ,the dissertation entitled “Phytochemical analysis and Pharmacological study of *Passiflora suberosa* L.” Submitted by Miss .Shruti Hegde and Miss.Shobha S. for the partial fulfillment of Master Of Science in Botany is based on The review of literature under my supervision .This dissertation or part of this has not been previously submitted for any degree to this University or any other higher Educational institutions .

Date :

5/8/21

Place :Dharwad

Dr.H.Niranjana Murthy

Professor

P G Dept. of studies in Botany

KARNATAK UNIVERSITY, DHARWAD
DEPARTMENT OF BOTANY
SUBMITTED FOR VALUATION
M. SC.

Examiners

Chairman
R. G. Dept. of Botany
K. U. Dharwad-3

KARNATAK UNIVERSITY, DHARWAD



NAAC Accredited "A" Grade
University With Potential for Excellence

CERTIFICATE

This is to certify that dissertation entitled "Phytochemical analysis and medicinal importance of *Garcinia xanthochymus*". Submitted by Miss. Divya Bhuti and Miss .Soumy D. M. for the partial fulfillment of Master Science in Botany is based on the results of experiment carried out by them under the guidance of Dr.H.Niranjana Murthy during 2020-21 in the Post Graduate Department of studies in Botany , Karnatak University, Dharwad .

KARNATAK UNIVERSITY, DHARWAD
DEPARTMENT OF BOTANY
SUBMITTED FOR VALIATION
M. SC.

Examiners

Date :

Place :Dharwad

Chairman
Chairman

R. G. Dept. of Botany
K. U. Dharwad-3

KARNATAK UNIVERSITY DHARWAD



Accredited "A" Grade by NAAC

University with potential for Excellence

Certificate

This is to certify that, the dissertation entitled "Phytochemical analysis of leaves of *Antigonon leptopus* Hook and Arn .and biological activity of roots of *Antigonon leptopus* Hook and Arn. Submitted by Miss. Sharada Laxman Naik and Miss. Vaibhavi Vasudev Shanbhag for the partial fulfilment of Master of Science in Botany is based on the review of literature under my supervision. This dissertation or part of this has not been previously submitted for any degree to this University or any other higher Educational institutions.

Date:

5/8/24

Place: Dharwad

Chairman

Chairman
R. G. Dept. of Botany
K. U. Dharwad-3

KARNATAK UNIVERSITY, DHARWAD
DEPARTMENT OF BOTANY
SUBMITTED FOR VALUATION
M. SC.

Signature

Digitally signed by [Signature] DN: cn=[Signature], o=Karnatak University, dh=K. U. Dharwad, email=[Signature]

KARNATAK UNIVERSITY, DHARWAD



NAAC Accredited "A" Grade

University with Potential for Excellence

Certificate

This is to certify that the dissertation entitled "Survey of Literature on Development of Female Gametophyte in Angiosperms From 2010-2020." submitted by Mr. Manjunath V Metri For the partial fulfilment of Master of Science in Botany is based on the survey of literature carried out by him under the guidance of Dr. M. Jayaraj during 2020-2021 in the Post Graduate Department of Studies in Botany, Karnatak University, Dharwad.

Date:

7/8/21

Place: Dharwad

KARNATAK UNIVERSITY, DHARWAD
DEPARTMENT OF BOTANY
SUBMITTED FOR VALUATION
M. SC.

Chairman

Chairman
P. G. Dept. of Botany
K. U. Dharwad-2

KARNATAK UNIVERSITY, DHARWAD



NAAC Accredited "A" Grade

University with Potential for Excellence

Certificate

This is to certify that the dissertation entitled "Survey of Literature on Development of Male Gametophyte in Angiosperms From 2010-2020." submitted by Ms. Priya Gabasavalagi For the partial fulfilment of Master of Science in Botany is based on the survey of literature carried out by her under the guidance of Dr. M. Jayaraj during 2020-2021 in the Post Graduate Department of Studies in Botany, Karnatak University, Dharwad.

Date:

7/8/21

Place: Dharwad

KARNATAK UNIVERSITY, DHARWAD

DEPARTMENT OF BOTANY

SUBMITTED FOR VALUATION

M. SC.

Examiners

Chairman

Chairman
R.G. Dept. of Botany
K. U. Dharwad

KARNATAK UNIVERSITY, DHARWAD



NAAC Accredited "A" Grade

University with Potential for Excellence

Certificate

This is to certify that the dissertation entitled "Survey of Literature on Development of Embryo in Angiosperms From 2010-2020." submitted by Ms.Lambani Chaithra For the partial fulfilment of Master of Science in Botany is based on the survey of literature carried out by her under the guidance of Dr. M. Jayaraj during 2020-2021 in the Post Graduate Department of Studies in Botany, Karnatak University, Dharwad.

Date:

7/8/21

Place: Dharwad

KARNATAK UNIVERSITY, DHARWAD

DEPARTMENT OF BOTANY

SUBMITTED FOR VALUATION

M. SC.

Examiners

Chairman

Chairman
R.G. Dept. of Botany
U. Dharwad-3

KARNATAK UNIVERSITY, DHARWAD



NAAC Accredited "A" Grade

University with Potential for Excellence

Certificate

This is to certify that the dissertation entitled "Survey of Literature on Pollen-Pistil Interaction in Angiosperms From 2010-2020." submitted by Ms Mahalakshmi Haveri For the partial fulfilment of Master of Science in Botany is based on the survey of literature carried out by her under the guidance of Dr. M. Jayaraj during 2020-2021 in the Post Graduate Department of Studies in Botany, Karnatak University, Dharwad.

Date:

Place: Dharwad

KARNATAK UNIVERSITY, DHARWAD

DEPARTMENT OF BOTANY

SUBMITTED FOR VALUATION

M. SC.

Examiners

Chairman

Chairman

R.G. Dept. of Botany
K. U. Dharwad

KARNATAK UNIVERSITY, DHARWAD



NAAC Accredited "A" Grade

University with Potential for Excellence

Certificate

This is to certify that the dissertation entitled "Survey of Literature on Fertilization in Angiosperms From 2010-2020." submitted by Mr. Amit S Nandagadkar For the partial fulfilment of Master of Science in Botany is based on the survey of literature carried out by him under the guidance of Dr. M. Jayaraj during 2020-2021 in the Post Graduate Department of Studies in Botany, Karnatak University, Dharwad.

Date:

7/8/21 KARNATAK UNIVERSITY, DHARWAD

Place: Dharwad

DEPARTMENT OF BOTANY

SUBMITTED FOR VALUATION

M. SC.

Examiners

Chairman

Chairman
R.G. Dept. of Botany
K. U. Dharwad-3

KARNATAK UNIVERSITY, DHARWAD



NAAC Accredited "A" Grade

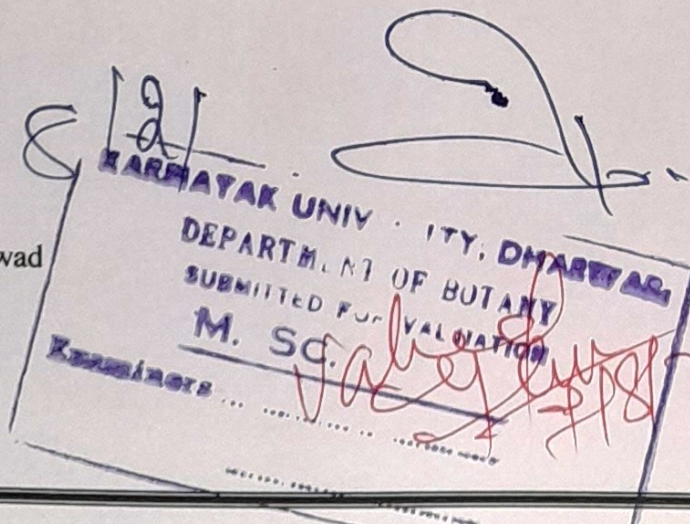
University with Potential for Excellence

Certificate

This is to certify that the dissertation entitled "Survey of Literature on Pollination Studies in Angiosperms From 2010-2020." submitted by Mr. Ningappa For the partial fulfilment of Master of Science in Botany is based on the survey of literature carried out by him under the guidance of Dr. M. Jayaraj during 2020-2021 in the Post Graduate Department of Studies in Botany, Karnatak University, Dharwad.

Date:

Place: Dharwad



Chairman

Chairman
R.G. Dept. of Botany
F. U. Dharwad-3



KARNATAK UNIVERSITY, DHARWAD.

Post Graduate Department of Studies in Botany.

Office Phone: 0836-2215314, Office Pax-0836-2747884

Pavate Nagar, Dharwad-580003, Karnataka, India

CERTIFICATE

This is to certify that Miss. Deepa C Patil of M. Sc. IV semester has completed project work entitled "ONTOGENY AND HISTOCHEMICAL INVESTIGATION IN RICE ANTHOR. Under the guidance of Dr.S.N. Agadi, Professor, Department of studies in Botany, Karnatak University, Dharwad, for the partial fulfilment of degree of Master of Science in Botany.

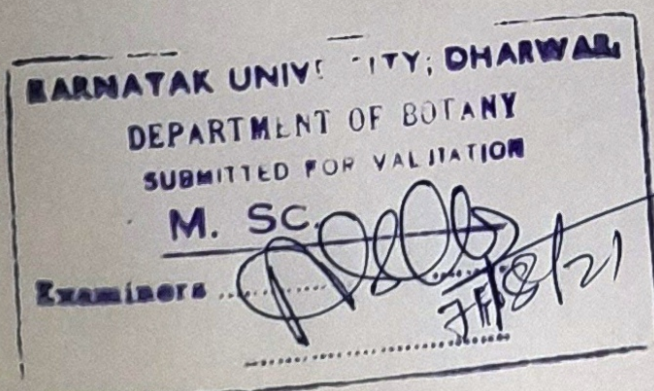
Date:

6/8/21

Place: Dharwad

Chairman

Chairman
R. & Dept. of Botany
K. U. Dharwad-3





KARNATAK UNIVERSITY, DHARWAD.

Post Graduate Department of studies in Botany.

Office Phone: 0836-2215314, office Fax: 0836-2747884

Pavate Nagar, Dharwad- 580003, Karnataka, India

CERTIFICATE

This is to certify that Miss. Renuka Vibhuti of M.Sc.IV semester has completed project work entitled "The Anther Development and its Histochemical studies on *Eichhornia crassipes* (Mart) Solms." Under the guidance of Dr.S.N Agadi, Professor, Department of studies in Botany, Karnatak University, Dharwad, for the partial fulfilment of degree of Master of Science in Botany.

Date: 6/8/21

Place: Dharwad

Chairman

Chairman
P. G. Dept. of Botany
K. U. Dharwad-3

KARNATAK UNIVERSITY, DHARWAD,

DEPARTMENT OF BOTANY

SUBMITTED FOR VALUATION

M. SC.

Examiners

6/8/21



KARNATAK UNIVERSITY, DHARWAD.

Post Graduate Department of Studies in Botany.

Office Phone: 0836-2215314, Office Fax-0836-2747884

Pavate Nagar, Dharwad-580003, Karnataka, India

CERTIFICATE

This is to certify that **Miss. RENUKA AKKI** of M.Sc IV semester has completed the dissertation entitled "**DEVELOPMENTAL AND HISTOCHEMICAL STUDIES IN CAPSICUM ANNUUM L. ANTHUR**" under the guidance of **Dr.S.N.Agadi**, Professor, Department of studies in Botany, Karnatak University, Dharwad, for the partial fulfillment of **Master of Science in Botany**. This dissertation work is based on the literature survey carried out under the guidance of research supervisor.

Date: 7/6/21

Place: Dharwad

KARNATAK UNIV. DHARWAD
DEPARTMENT OF BOTANY
SUBMITTED FOR VALUATION
M. Sc.
Examiners

CHAIRMAN

Chairman
P. G. Dept. of Botany
U. Dharwad



KARNATAK UNIVERSITY, DHARWAD.

Post Graduate Department of Studies in Botany.

Office Phone: 0836-2215314, Office Fax-0836-2747884

Pavate Nagar, Dharwad-580003, Karnataka, India

CERTIFICATE

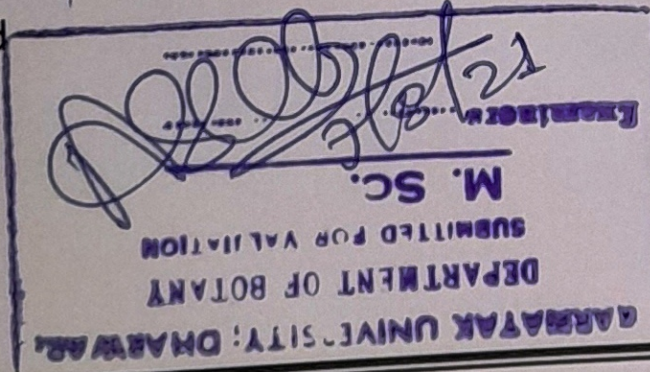
This is to certify that **Miss. SNEHA VADDATTI** of M.Sc IV semester has completed the dissertation entitled "**DEVELOPMENTAL AND HISTOCHEMICAL ASPECTS IN KIGELIA PINNATA L. ANTHOR**" under the guidance of **Dr.S.N.Agadi**, Professor, Department of studies in Botany, Karnatak University, Dharwad, for the partial fulfillment of **Master of Science in Botany**. This dissertation work is based on the literature survey carried out under the guidance of research supervisor.

Valued

Date:

7/8/21

Place: Dharwad



CHAIRMAN
Chairman
R & Dept. of Botany
K. U. Dharwad-3

CHAIRMAN
P.G.Department of Botany,
Karnatak University,
Dharwad - 580003
Karnataka, India



Office phone:0836-221534
Office Fax :0836-2747884

Certificate

This is to certify that, the dissertation entitled "**DEVELOPMENTAL AND HISTOCHEMICAL STUDIES ON ANTHER OF *Helianthus petiolaris* Nutt.**" Submitted for the partial fulfilment of master of Science in Botany to Karnatak university, Dharwad embodies the literature survey carried out by **Mr.MUTTAPPA KOTEWALE**, based on work of **AGADI.B.S.** This literature survey is carried out under my guidance at developmental Biology and histochemistry laboratory of the P.G.Dept. of studies in Botany, Karnataka University, Dharwad.

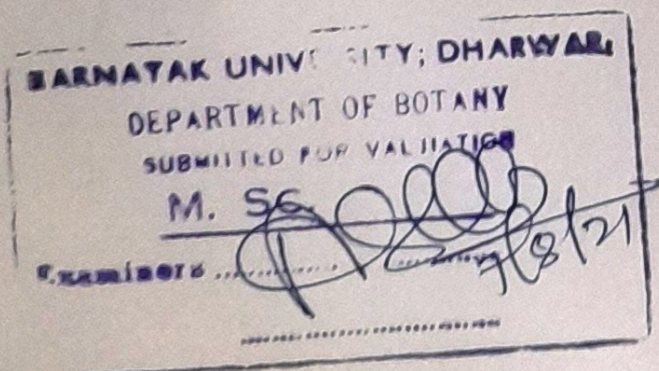
Date :

7/8/24

Place :Dharwad

(CHAIRMAN)

Chairman
P. G. Dept. of Botany
K. U. Dharwad-3



CHAIRMAN

P.G.Department of Botany,
Karnatak University,
Dharwad - 580003
Karnataka, India



Office phone:0836-221534
Office Fax :0836-2747884

Certificate

This is to certify that, the dissertation entitled **"DEVELOPMENTAL AND HISTOCHEMICAL STUDIES ON ANTHER OF *Carthamus tinctorius* L..** Submitted for the partial fulfilment of master of Science in Botany to Karnatak university, Dharwad embodies the literature survey carried out by **Mr.SHAKTHI MANOJ A**, based on work of **Doddappa, Paramanna**. This literature survey is carried out under my guidance at developmental Biology and histochemistry laboratory of the P.G.Dept. of studies in Botany, Karnataka University, Dharwad.


Date :

6-8-21

Place :Dharwad

(CHAIRMAN)

Chairman
P. G. Dept. of Botany
K. U. Dharwad-3

KARNATAK UNIVERSITY, DHARWAD	
DEPARTMENT OF BOTANY	
SUBMITTED FOR VALIDATION	
M. SC.	
Examiners	
	7/8/21



KARNATAK UNIVERSITY DHARWAD

Post Graduate Department of Studies in Botany

Office Phone: 0836-2215314, Office Fax – 0836-2747884

Pavate Nagar Dharwad-580003, Karnataka, India

Re-Accredited by NAAC with 'A' Grade

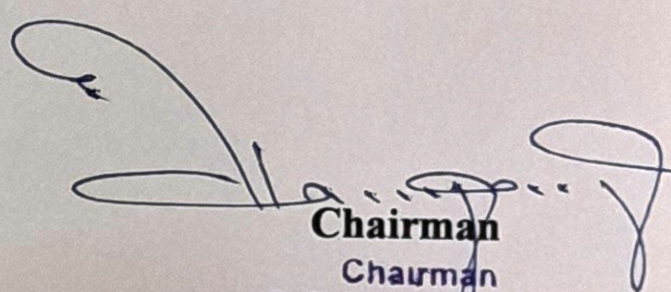
CERTIFICATE

This is to certify that **Miss. Shreya R Jambagi** of M. Sc. IV semester has completed project work entitled “**ACTINOMYCETES AND APPLICATIONS OF IT'S SECONDARY METABOLITES**” under the guidance of **Dr. Sreenivasa Nayaka**, Asst. Professor in the P.G. Department of Studies in Botany, Karnatak University, Dharwad, for the partial fulfillment for the award of degree of **Master of Science in Botany**. This dissertation work or part has not been previously submitted for any other degree or diploma or such other similar title to this university or other higher educational institutes.

Place: Dharwad

Date:

7/8/24


Chairman

Chairman
P. G. Dept. of Botany,
K. U. Dharwad-3

KARNATAK UNIVERSITY DHARWAD
DEPARTMENT OF STUDIES IN BOTANY
SUBMITTED BY
M. SC.
Registration No.
7-8-2024



Re-Accredited by NAAC with 'A' Grade

KARNATAK UNIVERSITY DHARWAD

Post Graduate Department of Studies in Botany

Office Phone: 0836-2215314, Office Fax – 0836-2747884

Pavate Nagar Dharwad-580003, Karnataka, India

CERTIFICATE

This is to certify that **Ms. POOJA V. GUNAGAMBHIRE** of M. Sc. IV semester has completed project work entitled **“Natural compounds: The potential source for antifungal drugs-A Review”** under the guidance of **Dr. Sreenivasa Nayaka**, Asst. Professor in the P.G. Department of Studies in Botany, Karnatak University, Dharwad, for the partial fulfilment for the award of degree of **Master of Science in Botany**. This dissertation work or part has not been previously submitted for any other degree or diploma or such other similar title to this university or other higher educational institutes.

Place: Dharwad

Date: 7/8/21

KARNATAK UNIVERSITY, DHARWAD

DEPARTMENT OF BOTANY

SUBMITTED FOR EXAMINATION

M. SC.

Examiner's ...

Chairman

Chairman

**R. G. Dept. of Botany
K. U. Dharwad**

7-8-2021



KARNATAK UNIVERSITY DHARWAD

Post Graduate Department of Studies in Botany

Office Phone: 0836-2215314, Office Fax – 0836-2747884

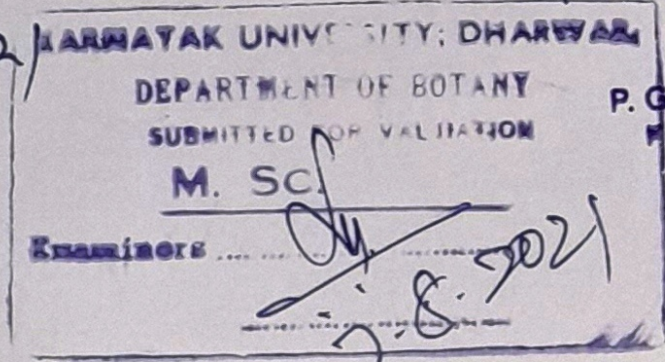
Pavate Nagar Dharwad-580003, Karnataka, India

CERTIFICATE

This is to certify that Miss **Akshata Kamat** of M.Sc. IV semester has completed project work entitled “**Potential Application of Silver Nanoparticles in Agriculture and Future Prospects**” under the guidance of Dr. **Sreenivasa Nayaka**, Assistant Professor in the P.G. Department of Studies in Botany, Karnatak University, Dharwad, for the partial fulfillment for the award of degree of Master of Science in Botany. This dissertation work or part has not been previously submitted for any other degree or diploma or such other similar title to this university or other higher educational institutes.

Place: Dharwad

Date: 7/8/21



Chairman

Chairman
P. G. Dept. of Botany
K. U. Dharwad-3



Re-Accredited by NAAC with 'A' Grade

KARNATAK UNIVERSITY DHARWAD

Post Graduate Department of Studies in Botany

Office Phone: 0836-2215314, Office Fax – 0836-2747884

Pavate Nagar Dharwad-580003, Karnataka, India

CERTIFICATE

This is to certify that **RAMESHAGOURA YADAV G** of M.Sc. IV semester has completed project work entitled **“Biological Applications of Synthesized Zinc Nanoparticles”** under the guidance of **Dr. Sreenivasa Nayaka**, Asst. Professor in the P.G. Department of Studies in Botany, Karnatak University, Dharwad, for the partial fulfillment for the award of degree of **Master of Science in Botany**. This dissertation work or part has not been previously submitted for any other degree or diploma or such other similar title to this university or other higher educational institutes.

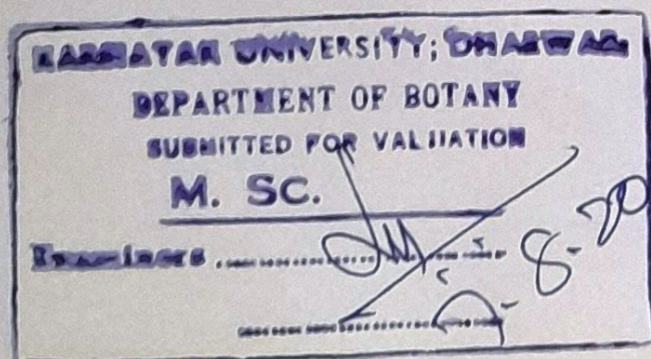
Place: Dharwad

Date:

7/8/21

Chairman

Chairman
R. Q. Dept. of Botany
F. U. Dharwad-3





Re-Accredited by NAAC with 'A' Grade

KARNATAK UNIVERSITY DHARWAD

Post Graduate Department of Studies in Botany

Office Phone: 0836-2215314, Office Fax – 0836-2747884

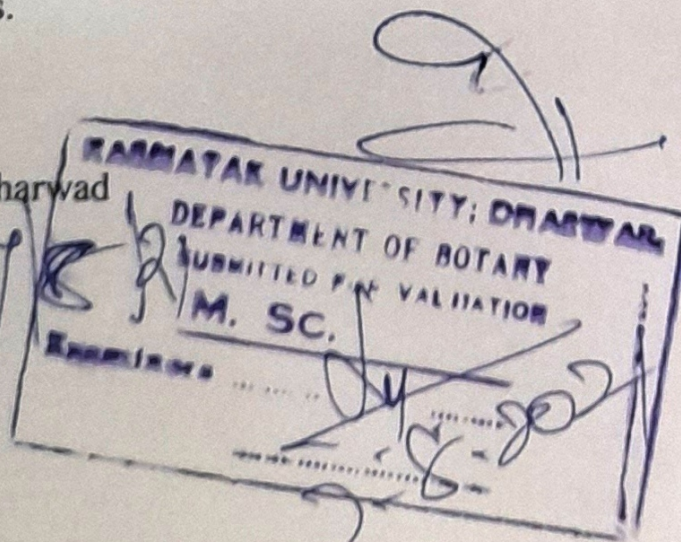
Pavate Nagar Dharwad-580003, Karnataka, India

CERTIFICATE

This is to certify that **Ms. SHEELA VEERAPPA DAVAGI** of M.Sc. IV semester has completed project work entitled **“CURRENT STATUS OF PLATINUM NANOPARTICLES - SYNTHESIS, CHARACTERIZATION AND ITS APPLICATIONS”** under the guidance of **Dr. Sreenivasa Nayaka**, Asst. Professor in the P.G. Department of Studies in Botany, Karnatak University, Dharwad, for the partial fulfillment for the award of degree of **Master of Science in Botany**. This dissertation work or part has not been previously submitted for any other degree or diploma or such other similar title to this university or other higher educational institutes.

Place: Dharwad

Date:



Chairman

Chairman,
P. G. Dept. of Botany,
K. U. Dharwad-3



KARNATAK UNIVERSITY DHARWAD

Post Graduate Department of Studies in Botany

Office Phone: 0836-2215314, Office Fax – 0836-2747884

Pavate Nagar Dharwad-580003, Karnataka, India

Re-Accredited by NAAC with 'A' Grade

CERTIFICATE

This is to certify that **SWAPNA GOUDAR** of M. Sc. IV semester has completed project work entitled **“Isolation, Screening and Plant Growth Promoting Activity of Endophytic Actinomycetes”** under the guidance of **Dr. Sreenivasa Nayaka**, Asst. Professor in the P.G. Department of Studies in Botany, Karnatak University, Dharwad, for the partial fulfillment for the award of degree of **Master of Science in Botany**. This dissertation work or part has not been previously submitted for any other degree or diploma or such other similar title to this university or other higher educational institutes.

KARNATAK UNIVERSITY, DHARWAD
DEPARTMENT OF BOTANY
SUBMITTED FOR VALUATION
M. SC.
Examiners

Place: Dharwad

Date: 7/8/21

Chairman

Chairman
P. G. Dept. of Botany
K. U. Dharwad



KARNATAK UNIVERSITY DHARWAD

Post Graduate Department of Studies in Botany

Office Phone: 0836-2215314, Office Fax – 0836-2747884

Pavate Nagar Dharwad-580003, Karnataka, India

Re-Accredited by NAAC with 'A' Grade

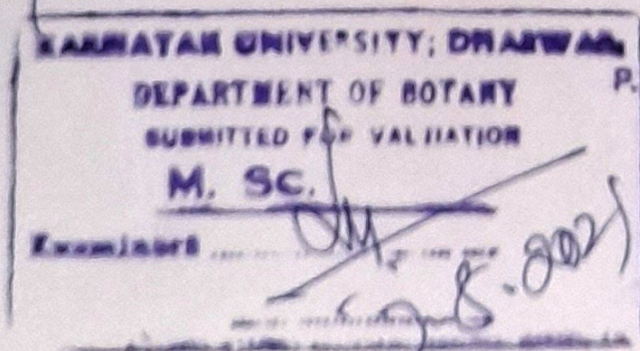
CERTIFICATE

This is to certify that **Miss. ARATI TORASE** of M.Sc. IV semester has completed project work entitled **"BIOSYNTHESIS AND APPLICATIONS OF COPPER NANOPARTICLES"** under the guidance of **Dr. Sreenivasa Nayaka**, Asst. Professor in the P.G. Department of Studies in Botany, Karnatak University, Dharwad, for the partial fulfillment for the award of degree of **Master of Science in Botany**. This dissertation work or part has not been previously submitted for any other degree or diploma or such other similar title to this university or other higher educational institutes.

Place: Dharwad

Date:

7/8/21



Chairman
Chairman
P. G. Dept. of Botany
K. U. Dharwad-3



Re-Accredited by NAAC with 'A' Grade

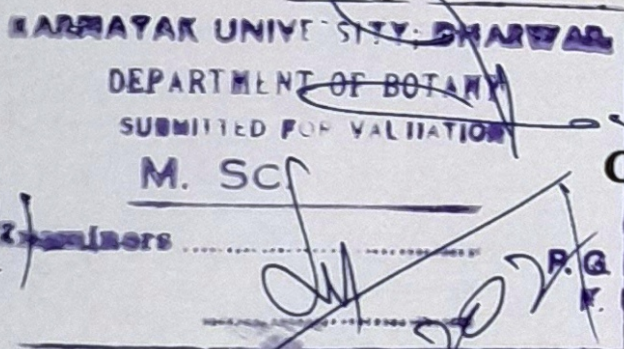
KARNATAK UNIVERSITY DHARWAD
Post Graduate Department of Studies in Botany
Office Phone: 0836-2215314, Office Fax – 0836-2747884
Pavate Nagar Dharwad-580003, Karnataka, India

CERTIFICATE

This is to certify that **Miss. SOUBHAGYA B. GOUDAR** of
M. Sc. IV semester has completed project work entitled
“**BIOFABRICATION, CHARACTERIZATION AND**
APPLICATIONS OF GOLD NANOPARTICLES” under the
guidance of **Dr. Sreenivasa Nayaka**, Asst. Professor in the P.G.
Department of Studies in Botany, Karnatak University, Dharwad, for
the partial fulfillment for the award of degree of **Master of Science in**
Botany. This dissertation work or part has not been previously
submitted for any other degree or diploma or such other similar title to
this university or other higher educational institutes.

Place: Dharwad

Date: 7/8/21



Chairman

Chairman
P.G. Dept. of Botan
K. U. Dharwad-3



Re-Accredited by NAAC with 'A' Grade

KARNATAK UNIVERSITY DHARWAD

Post Graduate Department of Studies in Botany

Office Phone: 0836-2215314, Office Fax – 0836-2747884

Pavate Nagar Dharwad-580003, Karnataka, India

CERTIFICATE

This is to certify that **Miss. NOOTAN RAMESH KURANE** of M. Sc. IV semester has completed project work entitled **“Synthesis, Charecterization and Applications of Bio-derived Iron Nanoparticles”** under the guidance of **Dr. Sreenivasa Nayaka**, Asst. Professor in the P.G. Department of Studies in Botany, Karnatak University, Dharwad, for the partial fulfillment for the award of degree of **Master of Science in Botany**. This dissertation work or part has not been previously submitted for any other degree or diploma or such other similar title to this university or other higher educational institutes.

Place: Dharwad

Date: 7/8/21

KARNATAK UNIVERSITY, DHARWAD	
DEPARTMENT OF BOTANY	
SUBMITTED FOR EVALUATION	
M. SC.	
Examiners	Chairman

Chairman
P. G. Dept. of Botany
K. U. Dharwad-3



Re-Accredited by NAAC with 'A' Grade

KARNATAK UNIVERSITY DHARWAD

Post Graduate Department of Studies in Botany

Office Phone: 0836-2215314, Office Fax – 0836-2747884

Pavate Nagar Dharwad-580003, Karnataka, India

CERTIFICATE

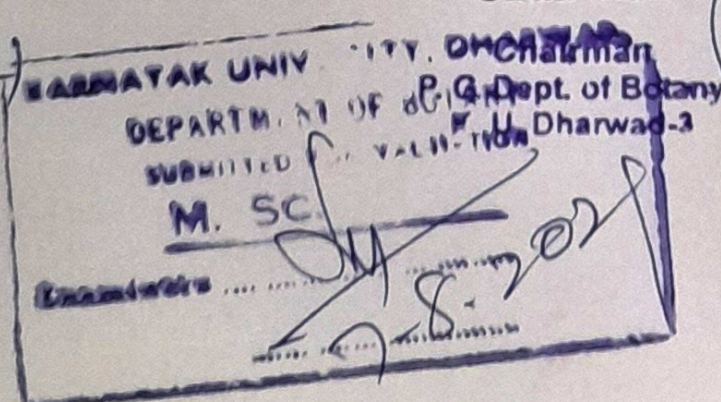
This is to certify that Miss. **Unesa Khwaja** of M. Sc. IV semester has completed project work entitled **“Biogenic Synthesis of Silver Nanoparticles from Plants: Formulation, Properties and Its Characterization Techniques”** under the guidance of **Dr. Sreenivasa Nayaka**, Assistant Professor in the P.G. Department of Studies in Botany, Karnatak University, Dharwad, for the partial fulfillment for the award of degree of **Master of Science in Botany**. This dissertation work or part has not been previously submitted for any other degree or diploma or such other similar title to this university or other higher educational institutes.

Place: Dharwad

Chairman

Date:

7/8/21





Re-Accredited by NAAC with 'A' Grade

KARNATAK UNIVERSITY DHARWAD

Post Graduate Department of Studies in Botany

Office Phone: 0836-2215314, Office Fax – 0836-2747884

Pavate Nagar Dharwad-580003, Karnataka, India

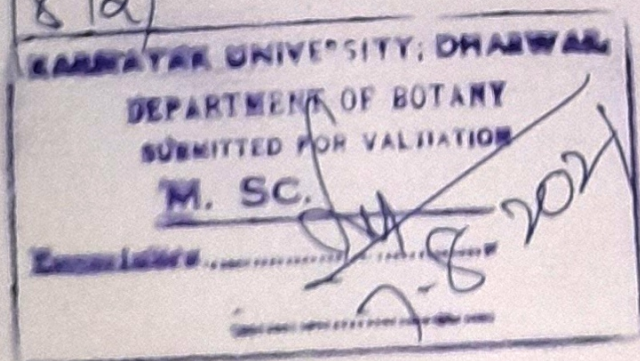
CERTIFICATE

This is to certify that **SHIVAKUMAR S KUMBAR** of M. Sc. IV semester has completed project work entitled **“Biological Synthesis of Alkaloids and Flavonoids Produced By Actinomycetes from Soil”** under the guidance of **Dr. Sreenivasa Nayaka**, Asst. Professor in the P.G. Department of Studies in Botany, Karnatak University, Dharwad, for the partial fulfillment for the award of degree of **Master of Science in Botany**. This dissertation work or part has not been previously submitted for any other degree or diploma or such other similar title to this university or other higher educational institutes.

Place: Dharwad

Date:

7/8/21



Chairman
A. G. Chelvan
R. G. Chelvan
K. U. Dharwad



Re-Accredited by NAAC with 'A' Grade

KARNATAK UNIVERSITY DHARWAD

Post Graduate Department of Studies in Botany

Office Phone: 0836-2215314, Office Fax – 0836-2747884

Pavate Nagar Dharwad-580003, Karnataka, India

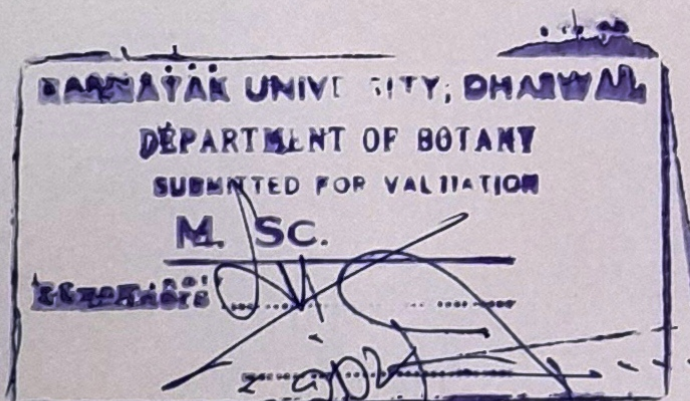
CERTIFICATE

This is to certify that **ANUSHA M GOUDA** of M. Sc. IV semester has completed project work entitled **“Promising Enzymes from Actinomycetes”** under the guidance of **Dr. Sreenivasa Nayaka**, Asst. Professor in the P.G. Department of Studies in Botany, Karnatak University, Dharwad, for the partial fulfillment for the award of degree of **Master of Science in Botany**. This dissertation work or part has not been previously submitted for any other degree or diploma or such other similar title to this university or other higher educational institutes.

Place: Dharwad

Date:

7/8/21



Chairman

Chairman
R. & Dept. of Botany
K. U. Dharwad-3
Dharwad-7/11