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**JSS COLLEGE OF ARTS, COMMERCE & SCIENCE**

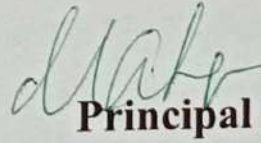
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OOTY ROAD, MYSORE - 570 025, KARNATAKA



☎ 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

## CERTIFICATE

This is to certify that the project work entitled "A survey on irregularities in menstrual cycle based on BMI in the age group of 35-50 in Mysuru city" submitted by Mr. Rahul.S.Hipparagi. M.Sc., IV Semester, in Zoology, was carried out and completed under the guidance of Dr. Nijagal.B.S for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2018-2019. This part of work has not been submitted elsewhere for any other degree or diploma.

  
**Principal**

**(Prof.M.MAHADEVAPPA)**

PRINCIPAL  
J.S.S. College  
Ooty Road, Mysore-570 025

Date: 24/05/19

Place: Mysuru



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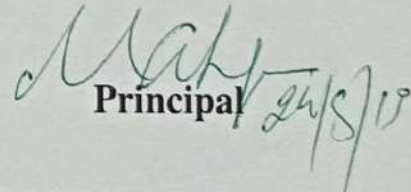
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## CERTIFICATE

This is to certify that the project work entitled **“A STUDY ON AVIFAUNAL DIVERSITY AT KUKKARAHALLI LAKE, MYSURU, KARNATAKA”** Submitted by **Ms. Kavya.R. M.Sc., IV Semester, in Zoology.** This research work was carried out and completed under the guidance of **Dr. Raghunandan. K. Sfor** the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2018-2019. This part of work has not been submitted elsewhere for any other degree or diploma.

  
Principal

**Prof.M.MAHADEVAPPA**

Date: 24-5-19

Place: Mysuru

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J.S.S. College  
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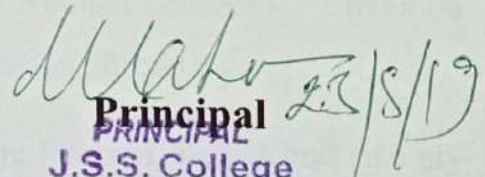
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## CERTIFICATE

This is to certify that the project work entitled "A study on diversity of spiders in farm house, old kesare, Mysuru." is a bonafied research work carried out **Ms. Lorita Nacita D'Souza**. M.Sc., IV Semester and completed under the guidance of **Dr.Nijagal.B.S**, Assistant professor, PG Department of Zoology, JSSCACS for the partial fulfilment of the requirement for the award of degree of **Master of Science in Zoology** during the year 2018-2019. This part of work has not been submitted elsewhere for any other degree or diploma.

  
**Principal**  
PRINCIPAL

**J.S.S. College**  
Ooty Road, Mysore-570 025

**Prof. M. Mahadevappa**

Date: 23/05/19

Place: Mysuru



ESTD - 1964

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## CERTIFICATE

This is to certify that the project work entitled "A Study on Insect diversity in Kukkarahallii lake, Mysuru" is a bonafied research work carried out by Mr .Blesswin joy B. M.Sc., IV Semester and completed under the guidance of Dr.Nijagal.B.S, Assistant professor, PG department of Zoology JSSACS for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2018-2019. This part of work has not been submitted elsewhere for any other degree or diploma.

*Mahadevappa*  
PRINCIPAL  
J.S.S. College  
Ooty Road, Mysore-570 025  
(Prof .M. Mahadevappa)

Date: 23-05-19

Place: Mysuru



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## CERTIFICATE

This is to certify that the project report entitled "**Biochemical analysis of Proteins in Fishes, Salmon and Tuna**". is a bonafide work carried out by **Mr. N Shravankumar**, under the guidance of **Dr. Ramyashree M**, for the partial fulfilment of the requirement for the award of degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2019-2020. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.



Principal

(DR. H. C. HONNAPPA)  
**PRINCIPAL**  
JSS College of Arts, Commerce & Science  
Ooty Road, MYSURU-25

Date:

Place: Mysuru



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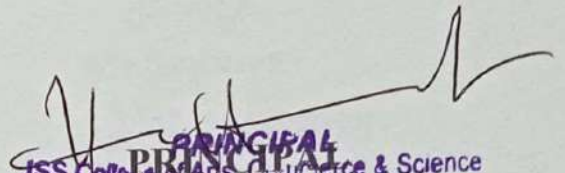
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## CERTIFICATE

This is to certify that the project work entitled "**A PRELIMINARY STUDY ON BIOLOGY OF GREATER WAXMOTH, GALLERIA MELLONELLA LINN.**" Submitted by **Ms. Soumya M.Sc., IV Semester**, in Zoology. This research work was carried out and completed under the guidance of **Dr. K. S. Raghunandan.** submitted in partial fulfilment for the award of Master of Science in Zoology during the year 2019-2020.

This part of work has not been submitted elsewhere for any other degree or diploma.

Date:

  
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JSS College of Arts, Commerce & Science  
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Place: Mysuru



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## CERTIFICATE

This is to certify that the project work entitled **“A survey of foot and mouth disease (FMD) in cattle in selected villages of Mandya district, Karnataka state”** Submitted by **Ms. Inchara.S.**, IV Semester, M.Sc., in Zoology, is a bonafied research work carried out by her and completed under the guidance of **Dr. Nijagal.B.S**, Assistant Professor, Postgraduate Department of Zoology, JSS College of Arts, Commerce and Science for the partial fulfillment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-2020. This project work has not been submitted in part or full elsewhere for any other degree or diploma.

**Date:**

**Place: Mysuru**

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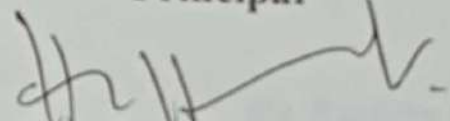


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## CERTIFICATE

*This is to certify that the project work entitled "A Survey on the diversity of cattle in few regions of Mandya district." submitted by Ms. Ranjitha K, M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of Harshitha K.P for the partial fulfillment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-2020. This part of work has not been submitted elsewhere for any other degree or diploma.*

**Principal**



**(Dr. H C Honnappa)**

PRINCIPAL  
JSS College of Arts, Commerce & Science  
Ooty Road, MYSURU-25

**Date:**

**Place: Mysuru**





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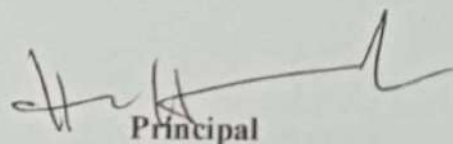
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## CERTIFICATE

This is to certify that the project report entitled "**Biochemical analysis of Lipids in Fishes, Salmon and Tuna**", is a bonafide work carried out by **Mr. Raghavendra R**, under the guidance of **Dr. Ramyashree M**, for the partial fulfilment of the requirement for the award of degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2019-2020. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.



Principal

(DR. H. C. HONNAPPA)  
**PRINCIPAL**

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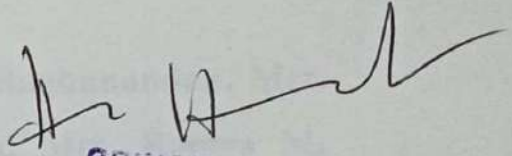
## CERTIFICATE

This is to certify that the project work entitled **“Diversity and distribution of anurans (Amphibia) in selected sites of Sirsi Taluk, Uttara Kannada”** Submitted by **Ms.Rachana. R. Unchalli**, IV Semester, M.Sc., in Zoology is a bonafied research work carried out and completed by her under the guidance of **Dr. Nijagal.B.S.** for the partial fulfillment of the requirement for the award of degree of **Master of Science in Zoology** during the year 2019-20.

This part of work has not been submitted elsewhere for any other degree or diploma.

**Date:**

**Place: Mysuru**

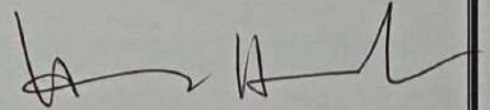
  
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Ph: 0821-2548236 & 2548380. FAX: 0821-2548238 Email: [jssautonomous@gmail.com](mailto:jssautonomous@gmail.com) Website: [JSSCACS.edu.in](http://JSSCACS.edu.in)

## CERTIFICATE

This is to certify that the project report entitled "*The Study of Diversity of Beetles around Kukkarahalli lake, Mysuru*" is a bonafide work carried out by **Mr. Praveen.V.Karibhantanal**, under the guidance of **Dr. Ramyashree. M**, for the partial fulfilment of the requirement for the award of degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science during the year 2019-2020. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.



(**DR. H.C. HONNAPPA**)

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Date:

Place: Mysuru



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## CERTIFICATE

This is to certify that the project work entitled “ **A BRIEF STUDY ON SUGARCANE PEST, SACCHARICOCCUS SACCHARI AT CHANNASANDRA, MANDYA DISTRICT**”, Submitted by **Ms. Manasa M S., M.Sc., IV Semester, in Zoology**. This research work was carried out and completed under the guidance of **Dr. K. S. Raghunandan** and submitted in partial fulfillment for the award of Master of Science in Zoology during the year 2019-2020.

This part of work has not been submitted elsewhere for any other degree or diploma.

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**Place: Mysuru**



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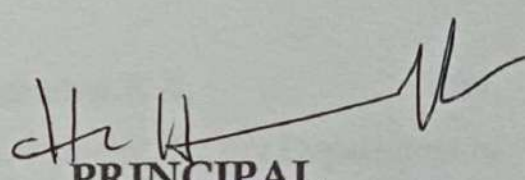
☎ 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

## CERTIFICATE

This is to certify that the project work entitled "**A survey on the diversity of butterfly (Lepidoptera) fauna in Krishnarajanagar town, Mysore district, Karnataka state**" Submitted by **Ms. Hema.K.**, IV Semester, M.Sc., in Zoology, is a bonafied research work carried out by her and completed under the guidance of **Dr. Nijagal.B.S**, Assistant Professor, Postgraduate Department of Zoology, JSS College of Arts, Commerce and Science for the partial fulfillment of the requirement for the award of degree of **Master of Science in Zoology** during the year 2019-20. This project work has not been submitted in part or full elsewhere for any other degree or diploma.

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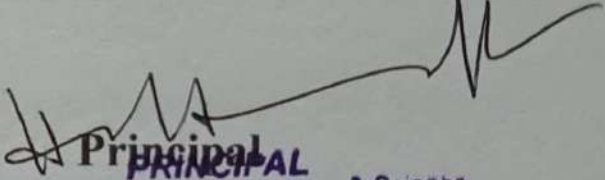
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## CERTIFICATE

*This is to certify that the project work entitled "Study on the prevalence on Dental and Skeletal fluorosis in Fluoride Endemic regions of Mandya district." submitted by Mr. Karthik Prasad S, M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of Harshitha K.P for the partialfulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-2020. This part of work has not been submitted elsewhere for any other degree or diploma.*

  
**Principal**  
JSS College of Arts, Commerce & Science  
Ooty Road MYSURU-25

**(Dr H.C. HONNAPPA)**

**Date:**

**Place: Mysuru**



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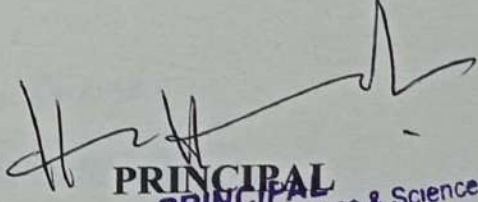
## CERTIFICATE

This is to certify that the project work entitled "**A BRIEF STUDY OF COFFEE BERRY BORER, *HYPOTHENEMUS HAMPEI* IN VALALAHALLI , SAKLESH PURA TALUK, HASSAN DISTRICT , KARNATAKA.**" Submitted by **Ms. A. D. Shashi .,M.Sc.,** IV Semester, in Zoology. This research work was carried out and completed under the guidance of **Dr. K. S. Raghunandan,** submitted in partial fulfillment for the award of Master of Science in Zoology during the year 2019-2020.

This part of work has not been submitted elsewhere for any other degree or diploma.

**Date:**

**Place: Mysuru**

  
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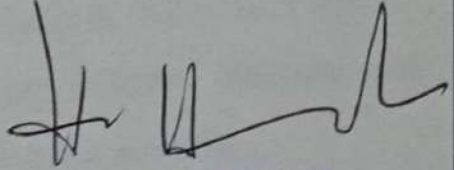
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## CERTIFICATE

This is to certify that the project work entitled "**Survey on the marketing strategies and demand of food fishes in Sakleshpur town, Hassan district, Karnataka state**" submitted by **Mrs. Thejaswini.D.A.**, IV Semester M.Sc., Zoology, is a bonafied research work carried out by her and completed under the guidance of **Dr. Nijagal.B.S**, Assistant Professor, Postgraduate Department of Zoology, JSS College of Arts, Commerce and Science for the partial fulfillment of the requirement for the award of degree of **Master of Science in Zoology** during the year 2019-20. This project work has not been submitted in part or full elsewhere for any other degree or diploma

  
**PRINCIPAL**  
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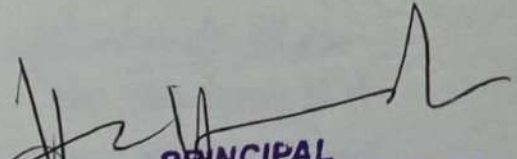
## CERTIFICATE

This is to certify that the project work entitled "***A STUDY ON ZOOPLANKTON DIVERSITY AT MELUKOTE PONDS, MANDYA DISTRICT, KARNATAKA***" Submitted by **Mr. Shashank K. R., M.Sc., IV Semester**, in Zoology. This research work was carried out and completed under the guidance of **Dr. K. S. Raghunandan** for the partial fulfilment of the requirement for the award of degree of **Master of Science in Zoology** during the year 2019-2020.

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**Date:** / /2020

**Place:** Mysuru

  
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## CERTIFICATE

This is to certify that the project work entitled **“Physico-Chemical analysis of water sample from pure and polluted water areas of Kapila river Nanjangud”** Submitted by **Mr.Sanjay.H.V., M.Sc., IV Semester, in Zoology.** This research work was carried out and completed under the guidance of **Dr. Ramyashree.M** for the partial fulfillment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-2020. This part of work has not been submitted elsewhere for any other degree or diploma.

Date:

Place: Mysuru

PRINCIPAL

**Dr. H.C. HONSAIPA**  
JSS College of Arts, Commerce & Science  
Ooty Road MYSURU-25

JSS MAHAVIDYAPEETA

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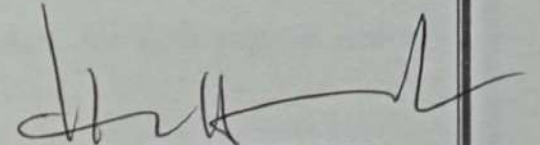
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Ph: 0821-2548236 & 2548380. FAX: 0821-2548238 Email: [jssautonomous@gmail.com](mailto:jssautonomous@gmail.com) Website: [JSSCACS.edu.in](http://JSSCACS.edu.in)

**CERTIFICATE**

This is to certify that the project report entitled "A study on infestation by Nematode in *Morus alba* plant root soil Kumbarahalli (Channarayapattna) is a bonafide work carried out by Ms. Sowmya S.N, under the guidance of Dr. Ramyashree M, for the partial fulfillment of the requirement for the award of degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science during the year 2019-2020. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.



(DR. H.C.HONNAPPA)

**PRINCIPAL**

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## CERTIFICATE

This is to certify that the project report entitled "A study on the occurrence of termites and its mounds in Sathgalli Layout (Mysuru)" is a bonafide work carried out by Mr. Venkatesh Prabhu N, under the guidance of Dr. Ramyashree M, for the partial fulfillment of the requirement for the award of degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science during the year 2019-2020. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Head of the Department

  
(Dr. Ramyashree M)

Head

**PG Dept. of Zoology  
JSS College, Ooty Road  
Mysore-570 025**

Date: 14.09.2020

Place: Mysuru



JSS MAHAVIDYAPEETHA  
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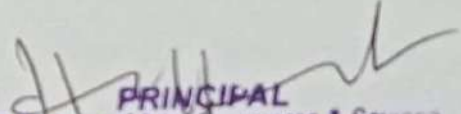
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## CERTIFICATE

*This is to certify that the project work entitled "A survey on the diversity of cattle and analysis of milk sample in few regions of Mandya district" submitted by Ms. Aishwarya. Bhat. R, M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of Harshitha K.P for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-2020. This part of work has not been submitted elsewhere for any other degree or diploma.*

  
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(Dr. H C Honnappa)

Place: Mysuru



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## CERTIFICATE

This is to certify that the project work entitled **“A STUDY ON BUTTERFLY DIVERSITY AT KUNCHEBAILU, CHIKMAGALUR DISTRICT, KARNATAKA”** Submitted by **Ms. Shreekrupa N R.,** M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of **Dr. K. S. Raghunandan** submitted in partial fulfillment for the award of Master of Science in Zoology during the year 2019-2020.

This part of work has not been submitted elsewhere for any other degree or diploma.

**Date:**

**Place: Mysuru**

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## CERTIFICATE

This is to certify that the project report entitled "*Isolation of pathogenic bacteria in Houseflies collected from various locations of Mysuru, Karnataka*" is a bonafide work carried out by **Mr. Thilak kumar M T**, under the guidance of **Dr. Ramyashree M**, for the partial fulfilment of the requirement for the award of degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science during the year 2019-2020. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

  
(Dr. H.C. HONNAPPA)  
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Date:

Place: Mysuru





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## CERTIFICATE

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**Principal**

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**(Prof.H.C.HONNAPPA)**

**Date:**

**Place:Mysuru**



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## CERTIFICATE

*This is to certify that the project work entitled "Study on the prevalence on Dental and Skeletal fluorosis in Fluoride Endemic regions of Mandya district." submitted by Ms. Dayana J, M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of Harshitha K.P for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-2020. This part of work has not been submitted elsewhere for any other degree or diploma.*

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**(Dr. H C Honnappa)**

**Date:**

**Place: Mysuru**



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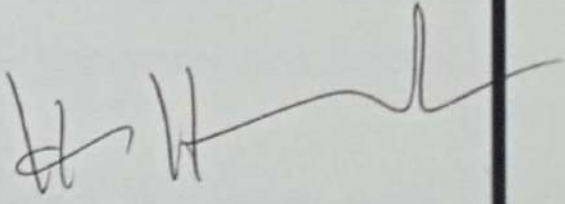
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## CERTIFICATE

This is to certify that the project work entitled "**Diversity of Dragonflies and Damselflies (Insecta: Odonata) at selected places in Mysuru, Karnataka.**" Submitted by **Mr. Mahendra Reddy., M.Sc., IV Semester**, in Zoology. This research work was carried out and completed under the guidance of **Dr. Nijagal B.S., Assistant Professor, PG Department of Zoology, JSS College of Arts, Commerce and Science** for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-20. This part of work has not been submitted elsewhere for any other degree or diploma.

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## CERTIFICATE

This is to certify that the project work entitled **“A BRIEF STUDY ON CATTLE LOUSE, *HEMATOPINUS QUADRIPERTUSUS*”** Submitted by **Ms. Supriya C P., M.Sc., IV Semester, in Zoology.** This research work was carried out and completed under the guidance of **Dr. K. S. Raghunandan,** submitted in partial fulfilment for the award of Master of Science in Zoology during the year 2019-2020.

This part of work has not been submitted elsewhere for any other degree or diploma.

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Place: Mysuru.



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## CERTIFICATE

This is to certify that the project work entitled **“A STUDY ON PREVAILING DISEASES BASED ON LIFESTYLE AMONG AGE OLD INDIVIDUALS AT MYSURU POPULATION”** Submitted by Ms. **Supriya K, M.Sc., IV Semester, in Zoology.** This research work was carried out and completed under the guidance of **Dr. K.S. Raghunandan** for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-2020.

This part of work has not been submitted elsewhere for any other degree or diploma.

**Date:**

**Place: Mysuru**

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## CERTIFICATE

This is to certify that the project work entitled **"Survey of New cattle disease (NCD) in Chickens in selected Regions of Chamarajanagar District"** Submitted by **Ms. Sushma.B.**, IV Semester, M.Sc., in Zoology, is a bonafied research work carried out by her and completed under the guidance of **Dr. Nijagal.B.S**, Assistant Professor, Postgraduate Department of Zoology, JSS College of Arts, Commerce and Science for the partial fulfillment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-2020. This project work has not been submitted in part or full elsewhere for any other degree or diploma.

**PRINCIPAL**  
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**Date:** 3-10-2020

**Place:** Mysuru



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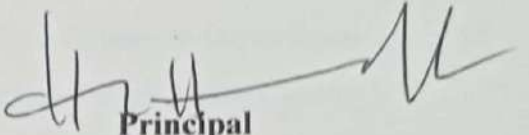
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## CERTIFICATE

*This is to certify that the project work entitled "A Hospital based survey on the prevalence of common allergies in few area of Mysore city." submitted by Ms. Archana S.C M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of Harshitha K.P for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-2020. This part of work has not been submitted elsewhere for any other degree or diploma.*



Principal

(Dr. H C Honnappa)

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**Date:**

**Place: Mysuru**

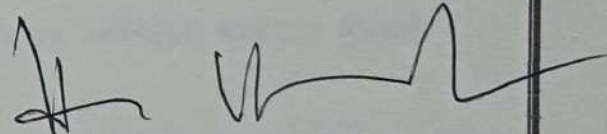
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## CERTIFICATE

This is to certify that the project report entitled "*A Study on Occupational Health Hazards in Automobile Spares Manufacturing Industry in ESS ENN INDUSTRY UNIT, Metagalli, Mysuru*" is a bonafide work carried out by **Ms. Bindhu. D. R.**, under the guidance of **Dr. Ramyashree. M.** for the partial fulfilment of the requirement for the award of degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science during the year 2019-2020. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.



(DR. H.C. PRINCYAPPA)  
JSS College of Arts, Commerce & Science  
Ooty Road MYSURU-25

Date:

Place: Mysuru



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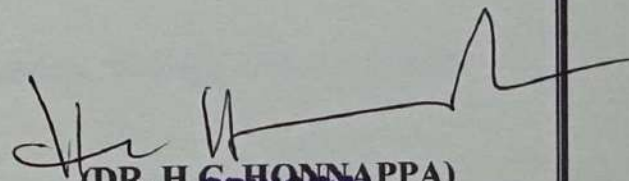
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**Date:**

**Place: Mysuru**



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## CERTIFICATE

This is to certify that the project work entitled **"A SURVEY ON TERMITE MOUNDS AND MICRONUTRIENT COMPOSITION OF MOUND SOIL AT SELECTED SITES OF MYSORE DISTRICT"** Submitted by **Mr. Chintan. M.U IV Semester, M.Sc., Zoology** is a bonafied work carried out and completed by him under the guidance of **Dr. Nijagal. B.S**, Assistant professor, postgraduate Department of Zoology, JSS College of Arts, Commerce and Science for the partial fulfilment of the requirement for the award of degree of **Master of Science in Zoology** during the year 2019-20. This part of work has not been submitted elsewhere for any other degree or diploma.

**Date:**

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**Place: Mysuru**



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## CERTIFICATE

*This is to certify that the project work entitled "Study on the prevalence on Dental and Skeletal fluorosis in Fluoride Endemic regions of Mandya district." submitted by Ms.Anushree.o.k.m , M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of Harshitha K.P for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-2020. This part of work has not been submitted elsewhere for any other degree or diploma.*

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**(Dr H C Honnappa)**

**Date:**

**Place: Mysuru**



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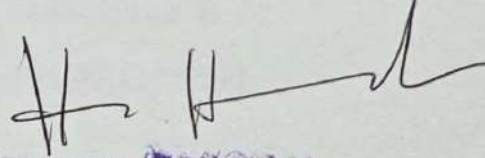
## CERTIFICATE

This is to certify that the project work entitled "**A PRELIMINARY STUDY ON WILD HONEYBEES, *APIS DORSATA* COLONIES AT TUMKUR**" Submitted by **Ms. Sulochana K N., M.Sc., IV Semester**, in Zoology. This research work was carried out and completed under the guidance of **Dr. K. S. Raghunandan**, submitted in partial fulfillment for the award of Master of Science in Zoology during the year 2019-2020.

This part of work has not been submitted elsewhere for any other degree or diploma.

**Date:**

**Place: Mysuru**

  
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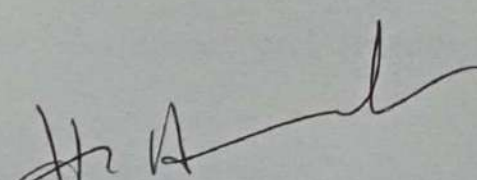
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## CERTIFICATE

This is to certify that the project work entitled **“Survey of ectoparasites infestation on livestock in Krishnarajanagara Taluk, Mysore District”** Submitted by **Mrs. Chaithra.D.A.**, IV Semester, M.Sc., in Zoology, is a bonafied research work carried out by her and completed under the guidance of **Dr. Nijagal.B.S**, Assistant Professor, Postgraduate Department of Zoology, JSS College of Arts, Commerce and Science for the partial fulfillment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-2020. This project work has not been submitted in part or full elsewhere for any other degree or diploma.

**Date:**

**Place: Mysuru**

  
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## CERTIFICATE

This is to certify that the project work entitled "Morphometric analysis of Indian worker bee , *Apis cerana* worker bees in Mysuru district , Karnataka, State " Submitted by **Ms. Chethana.J.M .**, IV Semester, M.Sc., in Zoology, is a bonafied research work carried out by her and completed under the guidance of **Dr. Nijagal.B.S**, Assistant Professor, Postgraduate Department of Zoology, JSS College of Arts, Commerce and Science for the partial fulfillment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-20. This project work has not been submitted in part or full elsewhere for any other degree or diploma.

**Date:**

**Place: Mysuru**

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## CERTIFICATE

This is to certify that the project entitled "**A study on diversity of wasp in JSScampus Mysuru, Karnataka**" is a bonafide work carried out by **Mr. Mahadevaprasad M.B** under the guidance of **Dr. NIJAGAL B.S**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date:

Place: MYSURU

  
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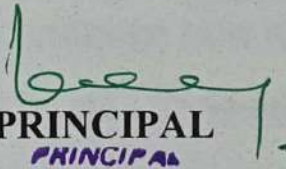
Phone:0821-2548380 Fax:0821-2548238 E-mail:jssautonomous@gmail.com

### CERTIFICATE

This is to certify that the project "**Laboratory method for extraction of microplastics from sediment sample of Manglore coastal regions, Karnataka**" is a bonafide work carried out by **Mr. CHAKRESH JAIN H P** under the guidance of **Dr NIJAGAL B S** for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date:

Place: Mysuru

  
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Banjargudi-Ooty Road, MYSORE-4

(Prof VIJAYENDRA KUMAR M P)





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**CERTIFICATE**

This is to certify that the project entitled “**A Study on abundance of Copepods and physicochemical parameters in Gobli lake, Mysuru**” is a bonafide work carried out by **Mr. DARSHAN KUMAR D** under the guidance of **Dr. NIJAGAL B.S**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date: 06-08-2022

Place: MYSURU

  
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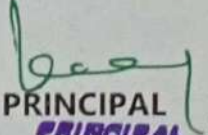
**CERTIFICATE**

This is to certify that the project work entitled "**SOLID AND LIQUID WASTE MANAGEMENT IN JSS INSTITUTIONS IN MYSURU CITY**" submitted by Ms. NAYANA.M.C, 4<sup>th</sup> semester M.Sc., in Zoology. This project work was carried out and completed under the guidance of **Dr .M. RAMYASHREE**, submitted in partial fulfillment for the award of Master of Science in Zoology during the year 2021-2022.

This part of work has not been submitted elsewhere for any other degree or diploma.

Date: 08-08-2022

Place: Mysuru

  
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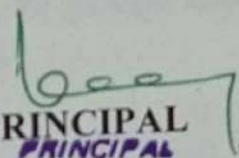
Ph: 0821-2548236 & 2548380. FAX: 0821-2548238 Email: jssautonomous@gmail.com Website: JSSCACS.edu.in

## CERTIFICATE

This is to certify that the project entitled "A Survey On Human-Elephant Conflict At Tenginakallu State Forest, Channapatna Taluk, Karnataka, India" is a bonafide work carried out by **Mr. RAKESH KUMAR B R** under the guidance of **Dr.NIJAGAL B.S**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date:

Place: MYSURU

  
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(Prof. VIJAYENDRA KUMAR M.P)



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### CERTIFICATE

This is to certify that the project "**A study on management and honey production of *Apis cerana* in Bilagi village (Uttar Kannada District)**" is a bonafide work carried out by Ms. ANUSHA A S under the guidance of Dr NIJAGAL B S for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date:

Place: Mysuru

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### CERTIFICATE

This is to certify that the project "**Studies on morphometry of stingless bees with varying nesting places and patterns.**" is a bonafide work carried out by **Ms. GREESHMA K T** under the guidance of **Dr NIJAGAL B S** for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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Place: Mysuru

  
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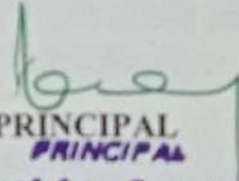
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CERTIFICATE

This is to certify that the project entitled “**Morphometrics Study of worker Indian Honey bee *Apis cerana* in Bilagi village, Siddapur taluk of Uttara Kannada District**” is a bonafide work carried out by Ms ASHA RANI G under the guidance of Dr NIJAGAL B.S, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation have been incorporated into the report. The project report has been approved as it satisfies the academic requirements in respect of the project report prescribed for the Master of Science in Zoology.

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This is to certify that the project entitled "**A study on Checklist of fishes and socio-economic status of fishermen at Sagarkatte village, K R Nagar taluk, Mysore district**" is a bonafide work carried out by Ms. SAHANA S under the guidance of **Dr. NIJAGAL B.S**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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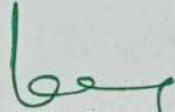
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This is to certify that the project entitled "**THE PRELIMINARY STUDY OF SUGARCANE PESTS IN BEVINAHALLI VILLAGE, MANDYA DISTRICT**" is a bonafide work carried out by **Mr.CHANDAN.B.U** under the guidance of **Dr.NIJAGAL.B.S, Assistant Professor.**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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**P. VIJAYENDRA KUMAR**





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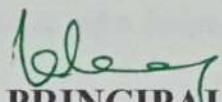
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**C E R T I F I C A T E**

This is to certify that the project work entitled" **A STUDY ON PREVELANCE OF CLINICAL MASTITIS IN AND AROUND MYSURU, KARNATAKA** "submitted by **Ms. CHAITHRA H.K, IV Semester, M.Sc., in Zoology.** This project work was carried out and completed under the guidance of **Dr. NIJAGAL B.S,** submitted in partial fulfillment for the award of Master of Science in Zoology during the year 2021-2022.

This part of work has not been submitted elsewhere for any other degree or diploma.

Date: 06-08-2022  
Place: Mysuru

  
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**Prof. Vijayendra Kumar M.P**



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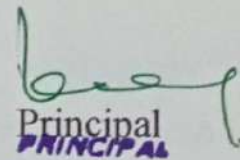
**Website: [JSSCACS.edu.in](http://JSSCACS.edu.in)**

**CERTIFICATE**

This is to certify that the project entitled "Diversity of nectariferous and polleniferous bee flora and floral calendar of honey bees in JSS College campus, Mysuru" is a bonafide work carried out by Ms. NISARGA H.R under the guidance of Dr. NIJAGAL B.S , for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date: 06-08-22

Place: MYSURU

  
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(Principal) M.P. VIJAYENDRA KUMAR  
(Project) Jengud-Only Bees, Mysuru-2



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### CERTIFICATE

This is to certify that the project "**A study on avian diversity of Karanji lake, Mysuru**" is a Bonafide work carried out by **Mr. SUSHANTH S** under the guidance of **Dr. NIJAGAL B. S.** for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date:

Place: Mysuru

  
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## CERTIFICATE

This is to certify that the project work entitled "**Diversity of Freshwater Molluscs in Panamaram and Valapattanam Riverbanks of Wayanad and Kannur districts of Kerala**" submitted by **Ms. ANAKHA JOHNSON** and **Ms. ASHA KURIAN**, 4th semester M.Sc., in Zoology was carried out and completed under the guidance of **Dr. NIJAGAL B.S.**, Assistant Professor, PG Department of Zoology, JSSCACS for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2021-2021.

This part of work has not been submitted elsewhere for any other degree or diploma.

Date: / /2022

Place: MYSURU

  
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## CERTIFICATE

This is to certify that the project entitled "**A STUDY ON INSECT DIVERSITY AT HOSAHOLLALU AND RAYASAMUDRA VILLAGE, KRISHNARAJAPETE TALUK, MANDYA DISTRICT**" is a bonafide work carried out by **Ms. SUSHMITHA R.P** under the guidance of **Dr. NIJAGAL B.S**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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**CERTIFICATE**

This is to certify that the project work entitled "**SURVEY ON THREE MAJOR COCONUT PESTS AT SHEGEBAGI VILLAGE, CHIKNAYAKANAHALLI TALUK, TUMKUR DISTRICT, KARNATAKA.**" is a bonafide research work carried out by **Ms. Surabhi. T.N. M.Sc.**, IV Semester and completed under the guidance of **Dr. Nijagal. B.S**, Assistant professor, PG Department of Zoology JSSCACS for the partial fulfilment of the requirement for the award of degree of **Master of Science in Zoology** during the year 2021-2022. This part of work has not been submitted elsewhere for any other degree or diploma.

  
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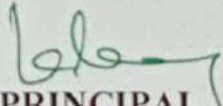
Ph: 0821-2548236 & 2548380. FAX: 0821-2548238 Email: jssautonomous@gmail.com Website: JSSCACS.edu.

## CERTIFICATE

This is to certify that the project entitled "**Study of Tardigrade at Haralahalli, Nagamangala Taluk, Mandya District.**" is a bonafide work carried out by Ms. SANDHYA H G under the guidance of Dr. NIJAGAL B.S, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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This is to certify that the project entitled "**A study on zooplankton diversity (Rotifers and cladocerans) and physicochemical parameters in Gobli lake, Mysuru**" is a bonafide work carried out by Ms. NEHA KHANUM R & Ms. NABIYA under the guidance of Dr. NIJAGAL B.S, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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Website: JSSCACS.edu.in

**CERTIFICATE**

This is to certify that the project entitled "**DETERMINATION OF LC50 OF CHLORPYRIFOS ON *DROSOPHILA MELANOGASTER* AND ITS EFFECT ON LOCOMOTOR BEHAVIOUR AND REPRODUCTIVE ABILITY**" is a bonafide work carried out by Ms. ROHINI under the guidance of Dr. RAMYASHREE M., for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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**CERTIFICATE**

This is to certify that the project work entitled "**SOLID AND LIQUID WASTE MANAGEMENT IN JSS INSTITUTIONS IN MYSURU CITY**" submitted by Ms. OMSHREE.H.R., 4<sup>th</sup> semester M.Sc., in Zoology. This project work was carried out and completed under the guidance of **Dr. M. RAMYASHREE**, submitted in partial fulfillment for the award of Master of Science in Zoology during the year 2021-2022.

This part of work has not been submitted elsewhere for any other degree or diploma.

Date: -08-2022

Place: Mysuru

  
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This is to certify that the project entitled "**A SURVEY ON MANAGEMENT OF POULTRY FARM IN ARSIKERE TALUK (DISEASES, PROFIT AND LOSS)**" is a bonafide work carried out by **Mr. PRAJWAL DR** under the guidance of **Dr. RAMYASHREE M**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2020-2021. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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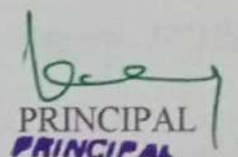
Website: [JSSCACS.edu.in](http://JSSCACS.edu.in)

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This is to certify that the project entitled **A SURVEY ON DYSMENORRHEA IN A FEW VILLAGES OF MANDYA DISTRICT** is a bonafide work carried out by **Ms. Surabhi N** under the guidance of **Dr. Ramyashree M** for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (autonomous) during the year 2021-2022. It is certified that all correction and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report described for Master of Science in Zoology.

Date:

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**CERTIFICATE**

This is to certify that the project entitled **"A STUDY ON THE PREVALENCE ON DENTAL AND SKELETAL FLUOROSIS IN FLUORIDE ENDEMIC REGIONS OF MYSURU TALUK, KARNATAKA"** is a bonafide work carried out by **Ms. SOUMYA HIEMATH** under the guidance of **Dr. RAMYASHREE M**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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Place: MYSURU

  
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(Prof. VIJAYENDRA KUMAR M.P.)





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## C E R T I F I C A T E

This is to certify that the project work entitled "**A STUDY ON PREVALENCE OF CARDIOVASCULAR DISEASE (CVD) IN MYSURU CITY POPULATION**" submitted by **Ms. Brundashree.R, IV Semester, M.Sc., in Zoology**. This project work was carried out and completed under the guidance of **Dr. M. Ramyashree**, submitted in partial fulfillment for the award of Master of Science in Zoology during the year 2021-2022.

This part of work has not been submitted elsewhere for any other degree or diploma.

Date:

Place: Mysuru

  
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**CERTIFICATE**

This is to certify that the project work entitled "A SURVEY ON COMPARISON OF RATE OF DIABETIC PATIENTS IN URBAN (MYSORE CITY) AND RURAL (SUDI, VILLAGE RON TQ, GADAG DISTRICT)AREAS." submitted by **Ms.AKSHATA ARER**, 4th semester M.Sc., in Zoology. This research work was carried out and completed under the guidance of **Dr. RAMYASHREE.M**, Assistant Professor, Head of the Department, PG Department of Zoology, JSSCACS submitted in partial fulfillment for the award of Master of Science in Zoology during the year 2021-2022.

This part of work has not been submitted elsewhere for any other degree or diploma.

Date: / /2022

Place: Mysuru.

  
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**CERTIFICATE**

This is to certify that the project entitled "**Diversity Of Zooplanktons At Durgadevi Pond Located In Hirekerur Taluk, Haveri District, Karnataka**" is a bonafide work carried out by **Ms. Uma Hediymath** under the guidance of **Dr. RAMYASHREE M**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date:

Place: MYSURU

  
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## CERTIFICATE

This is to certify that the project work entitled **"A STUDY ON BUTTERFLY DIVERSITY AT BANASURA SAGAR DAM OF WAYANAD DISTRICT, KERALA"** submitted by **Ms.ADHEENA EK**, 4th semester M.Sc., in Zoology. This research work was carried out and completed under the guidance of **Dr. RAMYASHREE.M**, Assistant Professor, Head of the Department, PG Department of Zoology, JSSCACS submitted in partial fulfillment for the award of Master of Science in Zoology during the year 2021-2022.

This part of work has not been submitted elsewhere for any other degree or diploma.

Date: / /2022

Place: Mysuru

  
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This is to certify that the project entitled "*Macrocheler Mites on Drosophila melanogaster*" is a bonafide work carried out by **Mr. Rakesh M.K** under the guidance of **Dr. RAMYASHREE M**, for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date:

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**CERTIFICATE**

This is to certify that the project entitled "**STUDY ON PARASITES IN FOOD FISHES AVAILABLE IN LOCAL MARKETS OF MYSORE CITY**" is a bonafide work carried out by **Ms.UMME SALMA** under the guidance of **Dr. RAMYASHREE M**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date:

Place: MYSURU

  
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**CERTIFICATE**

This is to certify that the project entitled "**A BRIEF STUDY ON TURMERIC PESTS IN RAMASAMUDRA CHAMARAJANAGARA DISTRICT**" is a bonafide work carried out by **Mr. Pavan B** under the guidance of **Dr. RAMYASHREE M**, for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date:

Place: MYSURU

  
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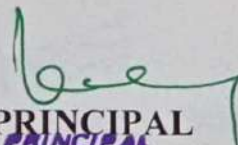
## CERTIFICATE

This is to certify that the project work entitled **"A STUDY ON BUTTERFLY DIVERSITY AT ANNADATA ORGANIC FARM GANGADAHOSAHALLI, MYSURU, KARNATAKA"** submitted by **Mr. Halashankar Madivalar**, 4th semester M.Sc., in Zoology. This project work was carried out and completed under the guidance of **Dr. RAMYASHREE.M**, Assistant Professor, Head of the Department, PG Department of Zoology submitted in partial fulfilment for the award of Master of Science in Zoology during the year 2021-2022

This part of work has not been submitted elsewhere for any other degree or diploma.

Date: / /2022

Place: Mysuru

  
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This is to certify that the project entitled "**Study on Dog Ticks in Chamarajanagarcity**" is a bonafide work carried out by **Ms.Arptha Joice S R** under the guidance of **Dr. RAMYASHREE M**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date: 10/08/22

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### CERTIFICATE

This is to certify that the project entitled “**An Observation of Arthropods present in different Vermicomposting manures**” is a bonafide work carried out by **Ms.NIVEDITHA RAJ V G** under the guidance of **Dr. RAMYASHREE M**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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This is to certify that the project entitled "**STUDY ON PARASITES IN FOOD FISHES AVAILABLE IN LOCAL MARKETS OF MYSORE CITY**" is a bonafide work carried out by **Ms. CHANDANA H M** under the guidance of **Dr. RAMYASHREE M**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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This is to certify that the project entitled "**A Survey on diabetes patient in a Few Villages Charamajanagr District**" is a bonafide work carried out by **Mr. SHIVAPRASAD H L** under the guidance of **Dr. RAMYASHREE M**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2020-2021. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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This is to certify that the project entitled **"SURVEY ON SOCIO-ECONOMIC PROFILE AND PROFIT OF FISH FARMERS AT KABINI BACK WATERS"** is a bonafide work carried out by Ms. **PRIYANKA C N** under the guidance of **Dr. RAMYASHREE M**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2021-2022. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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This is to certify that the project entitled "**Evaluation of phytochemical profile, bioefficacy and repellent activity of *Piper longum* against *Sitophilus* species**" is a bonafide work carried out by **Ms. SOWMYA G** under the guidance of **Dr. RAMYASHREE M, HOD & Assistant Professor.**, for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) Ooty road Mysore during the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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**CERTIFICATE**

This is to certify that the project entitled "A Case Study on Solid Waste Management of Four Different Sectors in Chikmagalur City" is a bonafide work carried out by Ms. SAHANA. J, Ms. G. LAXMI ANNAPURNA, Ms. PRIYANKA. Mand Ms. SANDHYA under the guidance of Dr. NIJAGAL. B.S, Assistant Professor., PG Department of Zoology for the partial fulfillment of the requirement for the award of the degree, Master of Science (M.Sc.,) in Zoology at JSS College of Arts, Commerce and Science (Autonomous), Ooty road, Mysuru during the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of the project report prescribed for Master of Science in Zoology.

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**CERTIFICATE**

This is to certify that the project entitled "A Study on Avifauna diversity of two different Lakes at Mysuru City, Karnataka " is a bonafide work carried out by Mr. K M HARSHA under the guidance of Dr. RAMYASHREE M, HOD & Assistant Professor., for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) Ooty road Mysore during the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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Place :MYSURU



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## CERTIFICATE

This is to certify that the project work entitled "**Diversity of Lacertilia in and around Shimoga**" submitted by Shilpa B., M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of **Dr. Navyashree.B** for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-2020. This part of work has not been submitted elsewhere for any other degree or diploma.

**Date:**

**Place: Mysuru**

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## CERTIFICATE

This is to certify that the project work entitled "**Isolation and identification of ecto and endo parasites from *Periplaneta americana* species in Mysuru district.**" Submitted by **Megha. and Manoj. K. Burli** of M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of **Dr.Navyashree.B** for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2021-2023.

This part of work has not been submitted elsewhere for any other degree or diploma.

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Place: Mysuru





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## CERTIFICATE

This is to certify that the project work entitled "**A Study on identification of risk factors in developing PCOS among the teenagers in JSSCACS Mysuru**" Submitted by **DIVYA .K.**, M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of **Dr. NAVYASHREE.B** for the partial fulfillment of the requirement for the award of degree of Master of Science in Zoology during the year 2021-2023. This part of work has not been submitted elsewhere for any other degree or diploma.

Date:

Place: Mysuru

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This is to certify that the project entitled "**Evaluation of phytochemical profile, bioefficacy and repellent activity of *Parmelia perlata* against *Sitophilus* species**" is a bonafide work carried out by Mr. SANJAY M S under the guidance of Dr. RAMYASHREE M, HOD & Assistant Professor., for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) Ooty road Mysuru during the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date:

Place: MYSURU

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This is to certify that the project work entitled "A Survey on Ant Diversity in Krishnapura village, Heggadadevana kote taluk, Mysuru district, Karnataka" Submitted by Ms. SUSHMITHA S B, M.Sc., 4<sup>th</sup> semester M.Sc., in Zoology. This research work was carried out and completed under the guidance of Dr. B S NIJAGAL Assistant Professor, PG Department of Zoology, JSSCACS for the partial fulfillment of the requirement for the award of degree of Master of Science in Zoology during the year 2022-2023.

This part of work has not been submitted elsewhere for any other degree or diploma.

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Mysuru  
**Prof. Dr. S. Prathibha**

Date:

Place: Mysuru



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**CERTIFICATE**

This is to certify that the project entitled "A Study on Avifaunal Diversity at Lingambudhi and Thippayyana Lake of Mysuru city, Karnataka" is a bonafide work carried out by Ms. KAVYASHREE N and Ms. VINAYA PAI A, under the guidance of Dr. NIJAGAL. B.S, Assistant Professor., PG Department of Zoology for the partial fulfillment of the requirement for the award of the degree, Master of Science (M.Sc.) in Zoology at JSS College of Arts, Commerce and Science (Autonomous), Ooty road, Mysuru during the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of the project report prescribed for Master of Science in Zoology.

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**CERTIFICATE**

This is to certify that the project entitled "A Survey on Sleeping Disturbances among workers of different age groups" is bonafide work carried out by Ms. TEJU SD, Ms. YASHASWINI TD, Mr. RAKSHITH GOWDA, Ms. SOWJANYA S under the guidance of Dr. NIJAGAL. B.S, Assistant Professor., PG Department of Zoology for the partial fulfillment of the requirement for the award of the degree, Master of Science (M.Sc.) in Zoology at JSS College of Arts, Commerce and Science (Autonomous) Ooty road, Mysuru during the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of the project report prescribed for Master of Science in Zoology.

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This is to certify that the project entitled "**Morphological diversity and distributional patterns of Bivalves and Gastropods molluscs on the coastal region of Malpe, Udupi District, Karnataka**" is a bonafide work carried out by **Mr. VINAY B S** under the guidance of **Dr. RAMYASHREE M**, for the partial fulfilment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) during the year 2020-2023. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

**Date:**

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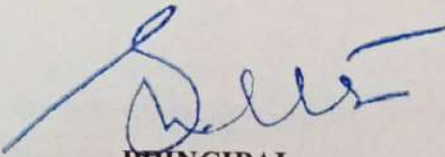
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jssautonomous@gmail.com. Website: JSSCACS.edu.in

**CERTIFICATE**

This is to certify that the project entitled "**A STUDY OF DIVERSITY OF CATTLE IN DIFFERENT VILLAGES OF YELAWALA HOBLI**" is a bonafide work carried out by Ms. **THANUSHREE M** and **VISMITHA P** under the guidance of **Dr.RAMYASHREE M, HOD & Assistant Professor.** ,for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) Ootyroad Mysore during the year 2022-2023.It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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## CERTIFICATE

This is to certify that the project work entitled "Study on diversity of Spiders in Kukkarahalli, Lingambudhi and Karanji Lake, Mysuru" Submitted by PUSHPA T K, RESHMA B A and SANTHOSH of M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of **Dr. Navyashree.B** for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2021-2023. This part of work has not been submitted elsewhere for any other degree or diploma.

Date:

Place: Mysuru

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## CERTIFICATE

This is to certify that the project work entitled "**Larvicidal effects of methanolic leaf extract of *Cordia dichotoma* against *Aedes aegypti***" Submitted by **Channabasav. M. Ganjihal** of M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of **Dr. Navyashree. B** for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2021-2023.

This part of work has not been submitted elsewhere for any other degree or diploma.

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Date:

Place: Mysuru



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## CERTIFICATE

This is to certify that the project work entitled **“A study on episodes of snake rescuing with few case studies at Mysore city, Karnataka”** submitted by **Ms. Shivaani A, M.Sc., IV Semester**, in Zoology. This research work was carried out and completed under the guidance of **Dr.Navyashree.B** for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2021-2023.

This part of work has not been submitted elsewhere for any other degree or diploma.

**Date:**

**Place: Mysuru**

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**CERTIFICATE**

This is to certify that the project entitled "**Exploring factors affecting cotton crop damage in Shakhapur, Nerabench, Madalagatti and Hirearalahalli villages of Koppal district due to pest: A comparative analysis**" is a bonafide work carried out by Mr. KIRAN LAXMAN BADIGER under the guidance of Dr.RAMYASHREE M, HOD & Assistant Professor., for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) Ooty road Mysore during the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date:

Place: MYSURU

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DR. S. PRATHIBA



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**CERTIFICATE**

This is to certify that the project entitled "**A Study on Management and Marketing of Sericulture Farming in ChamaraJanagar District**" is a bonafide work carried out by Ms SAHANA A. N under the guidance of **Dr.RAMYASHREE M, HOD & Assistant Professor.,** for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) Ooty road Mysore during the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

Date:

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## CERTIFICATE

This is to certify that the project work entitled "A Survey on Human-Elephant Conflict in Kushalnagar Forest Range" Submitted by RITU.S SUMAN H GOWDA & VIDYA M KURAHATTI DESAI., M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of **Dr. Navyashree.B** for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2019-2020. This part of work has not been submitted elsewhere for any other degree or diploma.

**Date:**

**Place: Mysuru**

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**CERTIFICATE**

This is to certify that the project entitled "A Study on Diversity of ants in Arakalavadi and Honnahalli village of Chamarajanagara District, Karnataka" is a bonafide work carried out by Ms. ASHWINI A M under the guidance of Dr. NIJAGAL. B.S, Assistant Professor., for the partial fulfillment of the requirement for the award of the degree Master of Science in Zoology in the JSS College of Arts, Commerce and Science (Autonomous), Ooty road, Mysuru, during the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of the project report prescribed for Master of Science in Zoology.

Date:

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## CERTIFICATE

This is to certify that the project entitled "**An assessment on human elephant conflict (HEC) in two different study areas Gudalur and Virajpet**" is bonafide work carried out by **Ms. Megha.A. and Ms. Amritha Doreswamy** under the guidance of **Dr. NIJAGAL. B.S, Assistant Professor.,** for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) Ooty road Mysuru. During the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation have been incorporated in the report. The project report has been approved as it satisfies the academic requirements prescribed for Master of Science in Zoology.

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## CERTIFICATE

This is to certify that the project work entitled "Isolation and identification of ecto and endo parasites from *Periplaneta americana* species in Mysuru district." Submitted by **Megha. and Manoj. K. Burli** of M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of **Dr.Navyashree.B** for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2021-2023.

This part of work has not been submitted elsewhere for any other degree or diploma.

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**Date:**

**Place: Mysuru**





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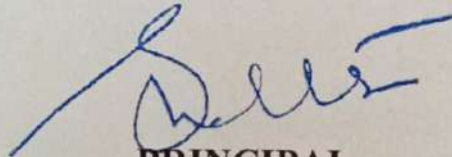
## CERTIFICATE

This is to certify that the project work entitled "A study and general survey on anemia regarding nutrition, diet and lifestyle in youths to know the probable risk factors at JSS Hospital, Mysuru" submitted by **Ms. Thanushree C.V**, M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of **Dr.Navyashree.B** for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2021-2023.

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**CERTIFICATE**

This is to certify that the project entitled "To Study Staining Efficiency of Herbal Dyes: Gulmohar (*Delonix regia*) and Marigold (*Tagetes erecta*)." is a bonafide work carried out by Ms. SHAKTHI. N and Ms. PALLAVI under the guidance of Dr.RAMYASHREE M, HOD & Assistant Professor., for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) Ooty road Mysore during the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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**CERTIFICATE**

This is to certify that the project entitled "**Melissopalynology- a study on pollen grains in honey samples taken from Kerala**" is a bonafide work carried out by **Ms.ALGA MATHEW** and **Ms.NANDANA.V** under the guidance of **Dr.RAMYASHREE M, HOD & Assistant Professor.,** for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) Ooty road Mysore during the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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**CERTIFICATE**

This is to certify that the project entitled "**A SURVEY ON COCONUT PESTS AND DISEASES IN KENKERE, BELAVADI AND BHATRAHALLI VILLAGES OF TUMKUR DISTRICT**" is a bonafide work carried out by Ms. SHRIDEVI G A under the guidance of Dr.RAMYASHREE M, HOD & Assistant Professor., for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) Ooty road Mysore during the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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**CERTIFICATE**

This is to certify that the project entitled “**Melissopalynology- a study on pollen grains in honey samples taken from Chamaraianagar district of Karnataka**” is a bonafide work carried out by **Ms. Rakshitha K R** under the guidance of **Dr.RAMYASHREE M, HOD & Assistant Professor.,** for the partial fulfillment of the requirement for the award of the degree Master of Science (M.Sc.,) in Zoology in the JSS College of Arts, Commerce and Science (Autonomous) Ooty road Mysore during the year 2022-2023. It is certified that all corrections and suggestions indicated for the dissertation has been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project report prescribed for Master of Science in Zoology.

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**Place :MYSURU**

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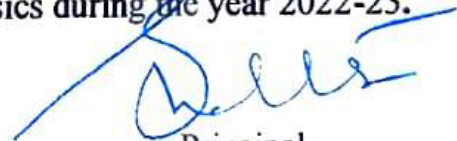
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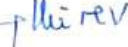

This is to certify that the dissertation entitled "*Structural and dielectric properties of Zinc substituted Aluminium Cadmium nano ferrites*" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by **Shruti Duganavar**. (Reg.no.P01BE21S0001) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

  
Guide

  
Head of the Department  
Head

  
Principal

#### Examiners

1.  
2. 

Place: Mysuru

Date: 5/9/2023

JSSMAHAVIDYAPEETHA

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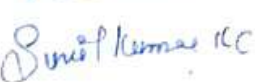
This is to certify that the dissertation entitled "*Structural and dielectric properties of Zinc substituted Aluminium Cadmium nano ferrites*" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by **Vani R.**(Reg.no.P01BE21S0031) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

  
Guide

  
Head of the Department  
Head

  
Principal

#### Examiners

1. 
2. 

P.G. Department of Physics  
JSS College of Arts, Commerce & Science (Autonomous)  
Ooty Road, Mysore-570 025

Place: Mysuru

Date: 05/09/2023



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**CERTIFICATE**

This is to certify that the dissertation entitled "**LITHIUM DOPED BARIUM TITANATE OXIDE SENSORS**" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru is a bonafide work carried out by **MEGHA D S** (Reg. no. P01BE21S0032) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

10. P. S. S. P. S.  
5/19/2023  
(Teacher)

Guide

**Head**

P.G. Department of Physics  
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**Examiners**

1. M. R. V.
2. B. S. K. M. R. C.

Place: Mysuru

Date: 31.08.2023 (Thursday)





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K. Padma Prasad  
Guide 5/9/2023  
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Head of the Department  
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### Examiners

1. jkvi H V
2. Dinesh Kumar ICC

Place: Mysuru

Date: 31.08.2023 (Thursday)



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5/5/2023/...*  
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## CERTIFICATE



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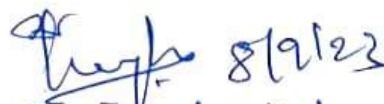
  
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1. Dr. T.N. Govindaiyal (Mandya University, Mandya)
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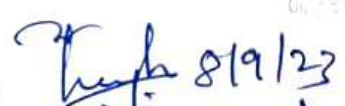
  
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Place: Mysuru

Date: 5/9/23



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Date: 05/09/23

1. Dr. T. N. Govindarath (Mandya University, Mandya)
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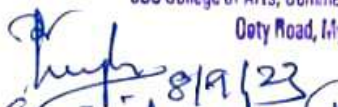
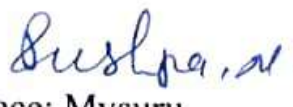
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Guide

  
Head of the Department

  
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### Examiners

1.  8/9/23  
Dr. T. N. Govindarath (Mandya University, Mandya)
2.   
Dr. N. Pushpa, JSS College, Mysore

Place: Mysuru

Date: 08-09-2023



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## CERTIFICATE

This is to certify that the dissertation entitled "**Synthesis and Characterization of Sodium-Based Battery Material**" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is bonafide work carried out by **Anjaneya**(Reg.no.P01BE21S0185) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

Head

P.G. Department of Physics

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Head of the Department

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(Suresh)

8/9/23

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1. Dr. T. N. Govindaraj (Mandya University, Mandya)
2. Deeshyra A. [Dr. N. Pushpa, JSS College, Mysore]

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K. P. B. B. B.  
Guide 31/8/2023  
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Place: Mysuru

Date: 31.08.2023 (Thursday)



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submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by **Ms. Sindhu Shree K R** (Reg.no.P01BE21S0192) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

  
Guide

  
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Date: 08-9-2023





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## CERTIFICATE

This is to certify that the dissertation entitled "SYNTHESIS AND CHARACTERISATION OF LITHIUM BASED BATTERY MATERIALS" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by NANDINI S in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

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## CERTIFICATE

This is to certify that the dissertation entitled “**Synthesis and Characterization of Nanoparticle Aluminum oxide by Solution Combustion method**” submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by **HARSHIKA U**(Reg.no.P01BE21S0207) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

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This is to certify that the dissertation entitled **"Solid State Synthesis of  $\text{LiNbO}_2$  Uncovers  $\text{LiNbO}_3$ 's Intriguing Structural and Optical Features"** submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by **Muhammed Fayis Yousaf M K** (Reg.no.P01BE21S0228) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

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This is to certify that the dissertation entitled "*Structural and dielectric properties of Zinc substituted Aluminium Cadmium nano ferrites*" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by **Parvati**.(Reg.no.P01BE21S0252) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

  
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## CERTIFICATE

This is to certify that the dissertation entitled "*Synthesis and Characterization of Nanoparticle Sodium Aluminate By Solution Combustion Method*" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by **Aishwarya S** (Reg.no.P01BE21S0256) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

  
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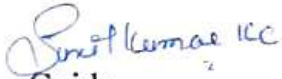
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## CERTIFICATE

This is to certify that the dissertation entitled "**GREEN SYNTHESIS OF BISMUTH OXIDE NANOPARTICLES BY DATURA INOXIA PLANT EXTRACT AS FUEL AND EXPLORING PHOTOCATALYTIC APPLICATIONS AND ELECTROCHEMICAL SENSOR ACTIVITY**"

submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by **Ms. Varsha S J** (Reg.no.P01BE21S0269) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

  
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submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by **Mr. Yashwanth M K** (Reg.no.P01BE21S0280) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.


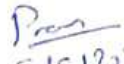
  
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Place: Mysuru

Date:



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## CERTIFICATE


This is to certify that the dissertation entitled "STRUCTURAL, OPTICAL AND ELECTRONIC PROPERTIES OF GaAs COMPOUND: A DFT ANALYSIS" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by Megha S (Reg.no. P01BE21S0281) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

  
Guide

  
Head of the Department

  
Principal

**Examiners**

-   
9/19/23
1. Dr. T. H. Govindaraj Mandyala University, Mandyala
2. K. Padma Prasad  
9/19/2023  
(Saturday)

P.G. Department of Physics  
JSS College of Arts, Commerce & Science (Autonomous)  
Doty Road, Mysore-570 025

Place: Mysuru

Date:





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## CERTIFICATE

This is to certify that the dissertation entitled "**Synthesis and Characterization of Sodium-Based Battery Material**" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is bonafide work carried out by **Monika G M** (Reg.no. P01BE21S0282) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

**Head**

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**Head of the Department**

**Principal**

K. Patil Prasa  
5/5/2023  
(Tuesday)  
Guide

**Examiners**

1. Dr. T.N. Govindiah (Mandya University, Mandya)
2. K. Patil Prasa  
9/9/2023 (Scholar)

**Place: Mysuru**

**Date: 31.08.2023 (Thursday)**

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This is to certify that the dissertation entitled "**Hirshfeld surface analysis of Thiazole derivatives**" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by **Raksha B** (Reg.no.P01BE21S0283) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

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1. Dr. T. N. Govindaraj *Thyph 9/9/23* Mandya University Mandya
2. K. P. ... *9/9/23 (S. ...)*

Place: Mysuru

Date:



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## CERTIFICATE

This is to certify that the dissertation entitled "**Construction of Radio telescope and detection of 21cm hydrogen line**" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by **Pooja S M** (Reg.no.P01BE21S0285) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

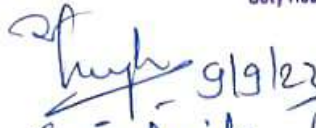
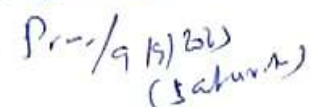
  
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Examiners

1. Dr. T. N.  9/9/23  
Govindaraj Mandy University Mandy
2. K. P.  9/9/23  
(Saturday)

Place: Mysuru

Date: 9/9/2023



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## CERTIFICATE

This is to certify that the dissertation entitled "**Synthesis and Characterization of Sodium-Based Battery Material**" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is bonafide work carried out by **Ranjitha M** (Reg.no.P01BE21S0286) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

Head

P.G. Department of Physics

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Head of the Department

Principal

16. P. P. P. P.  
Guide 5/9/2023  
(S. S. S.)

### Examiners

1. Dr. T. N. Govindaraj (Mandya University, Mandya)

2. K. P. P. P.  
9/9/2023  
(S. S. S.)

Place: Mysuru

Date:



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## CERTIFICATE

This is to certify that the dissertation entitled "SYNTHESIS AND CHARACTERISATION OF LITHIUM BASED BATTERY MATERIALS" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a benified work carried out by **BHAVANA T S** (Reg. No. PO1BE21SO288) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

K. Padma Prasa  
5/9/2023  
(Thursday)  
Guide

Head of the Department  
**Head**

Principal

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Examiners

- (Thurs 9/9/23)
1. Dr. T. N. Govindarath Mandyga university Mandyga
  2. K. Padma Prasa / 9/9/2023 (Saturday)

Place: Mysuru

Date: 31.08.2023 (Thursday)

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Head

  
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Examiners

1. Dr. T. N. Girindar'ah (Mandya University Mandya)

2. K. Reddy (9/19/2023 (Saturday))

Place: Mysuru

Date: 09/09/2023