

### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE - 570 025, KARNATAKA



28 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

#### CERTIFICATE

This is to certify that the project work entitled "A BRIEF STUDY ON, MAJOR COCONUT PEST RHINOCEROS BEETLE, AT K R NAGAR TALUK, KARNATAKA" Submitted by Ms. G Shivaleela M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of Dr. K. S. Raghunandan 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 2020-2021.

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

JSS College of Arts, Custimerce & Science Ooty Roard MYSURU-25

Date: / /2021

Place: Mysuru

# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERECE AND SCIENCE

(An Autonomous College of University of Mysore)

B N Road, MYSUSRU – 570025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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

#### CERTIFICATE

This is to certify that the project entitled "Morphometric and Biochemical Analysis of Pampus argenteus in Mysuru Karnataka" is a bonafide work carried out by Ms. DIVYA H.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 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.

Date:

Place: MYSURU

JSS Color of Although MYSURU-25



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) Re-accredited by NAAC with 'A' grade Recognised by UGC as "College with Potential for Excellence" 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 BRIEF STUDY ON FEW INSECT PESTS RECORDED AT PADDY FIELD IN KOLLEGAL TALUK" Submitted by Ms. Eshwari B. M., M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of Dr. K. S. Raghunandan 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 2020-2021.

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

Date: / /2021

Place: Mysuru

JSS College of Arts, Curimerce & Science Ooty Roard MYSURU-25



JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) Re-accredited by NAAC with 'A' grade Recognised by UGC as "College with Potential for Excellence" OOTY ROAD, MYSORE - 570 025, KARNATAKA

28 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

### CERTIFICATE

This is to certify that the project work entitled "A survey on use of home remedies for gastritis, arthritis and migraine among the selected elder groups" submitted by Ms. Jyothi K., M.Sc., IV Semester, M.Sc., in Zoology, is a bonafied research work carried out by 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 fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2020-2021. This project work has not been submitted in part or full elsewhere for any other degree or diploma.

Date: / /2021

Place: Mysuru

JSS College of Arts, Cummerce & Science Octy Road MYSURU-25

Prof. H. C. Honnappa



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE - 570 025, KARNATAKA



18 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

### CERTIFICATE

This is to certify that the project work entitled "A brief review on spider diversity" Submitted by Ms. Nithya.k, IV Semester, M.Sc., in Zoology, is a review 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 2020-2021. This project work has not been submitted in part or full elsewhere for any other degree or diploma.

Date:

Place: Mysuru

PRINCIPAL

JSS Coffeye of Arts, Curimerce & Science Octy Rop MYSURU-25

#### JSS MAHAVIDYAPEETA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College under the University of Mysuru) B N Road, MYSURU-570025 KARNATAKA Re-accredited by NAAC with 'A' grade

Recognized by UGC as " College with Potential for Excellence

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

#### CERTIFICATE

This is to certify that the project work entitled "A STUDY ON DIFFERENT SPECIES OF CHEWING LICE IN DOMESTICATED PIGEONS AND FECAL MATTER ANALYSIS OF DISEASED PIGEONS" is a bonafide work carried out by Mr. Yathish V, 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 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

Date: / /2021

Place: Mysuru

PRINCIPAL

JSS Constelled Arts Hownespine & Science Ooty Road MYSURU-25



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE - 570 025, KARNATAKA

NCE (5

25 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

#### CERTIFICATE

This is to certify that the project work entitled "A survey on childhood obesity among school going children at Terakanambi village, Gundlupete taluk, Chamaraja nagar district" submitted by Ms. Meghapriya T.M., M.Sc., IV Semester, M.Sc., in Zoology is a bonafied research work carried out by 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 fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2020-2021. This project work has not been submitted in part or full elsewhere for any other degree or diploma.

Date: / /2021

Place: Mysuru

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

Prof. H. C. Honnappa

## JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERECE AND SCIENCE

(An Autonomous College of University of Mysore) B N Road, MYSUSRU - 570025 KARNATAKA Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence" Ph: 0821-2548236 & 2548380, FAX: 0821-2548238 Email: jssautonomous@gmail.com Website; J55CAC5.edu.in

#### CERTIFICATE

This is to certify that the project entitled "AN OBSERVATION OF BIRD SPECIES FOUND AROUND THE BELAGOLA VILLAGE SRIRANGAPATTANA TALUK, MANDYA DISTRICT, KARNATAKA" is a bonafide work carried out by Mr. MILAN.S.P, 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 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.

Date:

Place: MYSURU

# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERECE AND SCIENCE

(An Autonomous College of University of Mysore)
B N Road, MYSUSRU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"

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

#### CERTIFICATE

This is to certify that the project entitled "MAJOR FOUINE COLIC DISEASES OF THOROUGH-BRED AT BANGALORE TURF CLUB" is a bonafide work carried out by Mr. MOHAMMAD SOHAIL BANAKAR, 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.

Date:

Place: MYSURU

PRINCIPAL PRINCIPAL

USS College of Arts, Contribute Schence Only Road MYSURU-25

## JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
B N Road, MYSUSRU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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 STUDY ON MANGO PESTS AT DIFFERENT VILLAGES OF SIRSI TALUK, UTTAR KANNADA DISTRICT, KARNATAKA" is a bonafide work carried out by Ms. MADHUSHREE RAVINDRA KOLEKAR, 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.

Date:

Place: MYSURU

JSS Consent MYSURU-25



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) Re-accredited by NAAC with 'A' grade Recognised by UGC as "College with Potential for Excellence" 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 STUDY ON MORPHOMETRICS OF SARDINELLA LONGICEPS L." Submitted by Ms. Pooja B. N., M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of Dr. K. S. Raghunandan 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 2020-2021.

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

Date: / /2021

Place: Mysuru

e of Arts, Curimerce & Science Doty Road, MYSURU-15



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE - 570 025, KARNATAKA

CE (50)

88 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail; jssautonomous@gmail.com

#### CERTIFICATE

This is to certify that the project work entitled "A BREIF REVIEW ON ADULTERATION OF MILK AND ITS DETECTION." Submitted by Ms. Shivani noola., M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of Dr. K. S. Raghunandan assistant professor for the partial fulfilment of the requirement for the award of degree of Master of Science in Zoology during the year 2020-2021.

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

Date: / /2021

Place: Mysuru

PRINCIPAL

JSS College of Arts, Curimerce & Science
Ooty Rop : MYSURU-25

# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERECE AND SCIENCE

(An Autonomous College of University of Mysuru)

B N Road, MYSUSRU – 570025 KARNATAKA

Re-accredited by NAAC with "A" grade

Recognized by UGC as "College with Potential for Excellence"

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

#### CERTIFICATE

This is to certify that the project entitled "Morphometric and Biochemical Analysis of Rastrelliger Kanagurta in Mysuru, Karnataka" is a bonafide work carried out by Ms. SIYA P P, 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 a significant content of the content o

requirements in respect of project report prescribed for Master of Science in Zoology.

Date: 16-09-2021

Place: MYSURU

JSS College of Arts, Custimerce & Science (ProfDbb(RdeO) MYSUPPA-25



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) Re-accredited by NAAE with 'A' grade Recognised by UGC as "College with Potential for Excellence" OOTY ROAD, MYSORE - 570 D25, KARNATAKA

25 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

#### CERTIFICATE

This is to certify that the project work entitled "A BRIEF REVIEW ON THE FORAGING ECOLOGY OF CATTLE egrets Bubulous ibis." Submitted by Ms. Tejaswini.S., M.Sc., IV Semester, in Zoology. This research work 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 2020-2021.

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

Date: / /2020

Place: Mysuru

JSS College of Arts, Curimerce & Science Doty Road MYSURU-25



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE - 570 025, KARNATAKA



88 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

#### CERTIFICATE

This is to certify that the project work entitled "A BRIEF REPORT ON COMMON FOOD ALLERGY FROM BALLARI CITY, KARNATAKA" Submitted by MS. Mercy Serena, D., M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of Dr. K. S. Raghunandan 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 2020-2021.

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

Date: / /2021

Place: Mysuru

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



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) Re-accredited by NAAC with 'A' grade Recognised by UGC as "College with Potential for Excellence"

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 BRIEF REVIEW ON FEW COMMON ALLERGIES TO HUMAN BEINGS" Submitted by Mrs. Monisha K. M., M.Sc., IV Semester, in Zoology. This research work was carried out and completed under the guidance of Dr. K. S. Raghunandan, Assistant Professor, PG Department of Zoology, and JSSCACS. For the partial fulfilment of requirement for the award of degree of Master of Science in Zoology during the year 2020-2021.

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

Date: / /2021

Place: Mysuru

JSS College of Arts, Curimerce & Science

Ooty Road MYSURU-25

#### JSS COLLEGE OF ARTS, COMMERECE AND SCIENCE

(An Autonomous College of University of Mysore) B N Road, MYSUSRU - 570025 KARNATAKA Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence" Ph: 0821-2548236 & 2548380, FAX: 0821-2548238 Email: issautonomous@gmail.com Website: JSSCACS.edu.in

#### CERTIFICATE

is to certify that the project entitled "PREVALENCE AND This IDENTIFICATION OF TICKS ON DIFFERENT DOMESTIC ANIMALS IN FEW VILLAGES OF CHAMARAJANAGAR DISTRICT" is a bonafide work carried out by Mr. HEMANTH KUMAR K, under the guidance of Dr. RAMYASHREE M, for the partial fulfilment of the requirement for the award of the degree in 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.

Date:

Place: MYSURU

PRINCIPAL

(Prof. H.C.HQNNAPPA) JSS College of Arts, Cultimerce & Science Octy Ros. MYSURU-25



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) Re accredited by NAAC with 'A' grade Recognised by UGC as "College with Potential for Excellence" OOTY ROAD, MYSORE - 570 025, KARNATAKA



25 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

### CERTIFICATE

This is to certify that the project work entitled "A STUDY ON AVIFAUNAL DIVERSITY AT K.R.NAGAR TALUK, MYSURU DISTRICT. Submitted by Mr. Dharmesh M. S., 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: / /2021

Place: Mysuru

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



#### 195 MAHAVIDYAPEETHA

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

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE - 570 025, KARNATAKA

E (50)

18 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

#### CERTIFICATE

This is to certify that the project work entitled "A PRELIMINARY SURVEY ON POLYCYSTIC OVARIAN SYNDROME AMONGSTUDENTS AT MYSURU AND RANIBENNUR" submitted by Ms. Chethana G Melagiri, 4th semester M.Sc., 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 2020-2021.

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

Date:

Place: Mysuru

JSS College of Arts, Curimeros & Science Ooty Roard, MYSURU-25



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

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
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 tick infestation on domestic dogs in selected areas of Magadi town, Ramanagara district, Karnataka state" Submitted by Ms. Chandana R., 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 2020-2021. This project work has not been submitted in part or full elsewhere for any other degree or diploma.

Date: 15/09/2021

Place: Mysuru

PRINCIPAL

JSS College of Arts, Custimerce & Science Ooty Roast MYSURU-25



#### JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) Re-accredited by NAAC with 'A' grade Recognised by UGC as "College with Potential for Excellence" OOTY ROAD, MYSORE - 570 025, KARNATAKA



25 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

#### CERTIFICATE

This is to certify that the project work entitled "A brief review on Inversion polymorphism in Drosophila species" submitted by Ms. Bindu, IV Semester, M.Sc., in Zoology, is a review 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 2020-2021. This project work has not been submitted in part or full elsewhere for any other degree or diploma.

Date: 15 09 2021

Place: Mysuru

JSS College of Arts, Curimerce & Science Ooty Roph MYSURU-25



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

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE - 570 025, KARNATAKA



25 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

#### CERTIFICATE

This is to certify that the project work entitled "A brief review on Inversion polymorphism in Drosophila species" Submitted by Ms. DEEPA G., IV Semester, M.Sc., in Zoology, is a review 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 2020-2021. This project work has not been submitted in part or full elsewhere for any other degree or diploma.

Date: 15/09/2021

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

Place: Mysuru

## JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERECE AND SCIENCE

(An Autonomous College of University of Mysore)

B N Road, MYSUSRU – 576025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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 STUDY OF SPIDER DIVERSITY AT FOOT STEPS OF CHAMUNDI HILLS AND URBAN PARKS OF MYSORE, KARNATAKA" is a bonafide work carried out by Ms. ANUSHAR, 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.

Date:

Place: MYSURU

PRINCIPAL

Only Rosal MYSURU-25



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) Re-accredited by NAAC with 'A' grade Recognised by UGC as "College with Potential for Excellence" DOTY ROAD, MYSORE - 570 025, KARNATAKA

28 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

#### CERTIFICATE

This is to certify that the project work entitled "A STUDY ON MILK ADULTERATION AND ITS DETECTION." Submitted by Ms. Arpitha Koppalkar., M.Sc., IV Semester, in This research work 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 2020-2021.

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

Date: / /2020

Place: Mysuru

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

## JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERECE AND SCIENCE

(An Autonomous College of University of Mysore)

B N Road, MYSUSRU – 570025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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

#### CERTIFICATE

This is to certify that the project entitled "OBSERVATION OF CRAB SPECIES IN THE MANGROVES OF KADALUNDI VALLIKUNNE COMMUNITY RESERVE, KOZHIKODE, KERALA" is a bonafide work carried out by MS. ARYA S KUMAR, 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.

Date:

Place: MYSURU

JSS Odlege of Arts, Out Merce & Science
Only Rosel, MYSURU-25



# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE



(An Autonomous College of University of Mysore)
B N Road, MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excompartmentence"

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 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

PRINCIPAL

Prof. VIJAVA NOR AGGINICATE MCR.



## JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence" Ooty road, mysore-570025, Karnataka



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

PHINCIPAL

4.8.8. College of Arts, Commerce & Sci Benjengud-Soty Bood, MYSORE-4

(Prof VIJAYENDRA KUMAR M P)



# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE



(An Autonomous College of University of Mysore) B N Road,
MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"

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 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

PRINCIPAL
PRINCIPAL
PRINCIPAL
(Punis XIJAYENDRA KUNTAR WEP



## JSS MAHAVIDYAPEETA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
OOTY ROAD, MYSORE – 570025, KARNATAKA.
Re-accredited by NAAC with "A" grade
Recognized by UGC as "College with Potential for Excellence"



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

#### **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: -08-2022

Place: Mysuru

PRINCIPAL
PRINCIPAL
PROPERTY RUSSE
PROPERTY RUSSE
PROPERTY RUSSE
PROPERTY RUSSE

## JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
B N Road, MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"



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

PRINCIPAL

88.8. College of Arts, Commerce & Screen
Ben jeogud-Ooty Bood, MYSORF MAR M.P.)
(Prof. VIJAYENDRA KUMAR M.P.)



### JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"
Ooty road, mysore-570025, Karnataka



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

#### **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

#2.8. Cellege of Arts, Commerce & Scientific Scientific

(Prof. VUAYENDRA KUMAR M P)



### JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"
Ooty road, mysore-570025, Karnataka



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

#### **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.

Date:

Place: Mysuru

PRINCIPAL

Manjangué-Ooty Rood, MYSORE-

(Prof. VIJAYENDRA KUMAR M P)



### JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

B N Road, MYSURU - 570025 KARNATAKA

Re-accredited by NAAC with "A" grade

Recognized by UGC as "College with Potential for Excellence"



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

#### 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.

Date:

Place: MYSURU

PRINCIPAL

Profession State Report of the



#### JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
B N Road, MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"



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 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.

Date:

Place: MYSURU

PRINCIPAL .

(Prof. Vidous Coly Bood, WYSONE ...)



# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE



(An Autonomous College of University of Mysore)

B N Road, MYSURU – 570025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with

Potential for Excellence"

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

#### CERTIFICATE

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.

Date:

Place: MYSURU

PRINCIPAL

(Profile Parished ENDRACKUMAR)



#### JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE – 570025, KARNATAKA.



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

#### CERTIFICATE

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

PRINCIPAL

### Prof. Vijayendra Kumar M.P



# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) B N Road, MYSURU - 570025 KARNATAKA Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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

Website: 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

(President oby Bood)



## JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"
Ooty road, mysore-570025, Karnataka



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

#### 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

PRINCIPAL

Bas langue-Ooty Road, MY SORE-4

( Prof. VIJAYENDRA KUMAR M. P)



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)

Re-accredited by NAAC with 'A' grade Recognised by UGC as "College with Potential for Excellence" OOTY ROAD, MYSORE - 570 DZ5, KARNATAKA

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



#### 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.

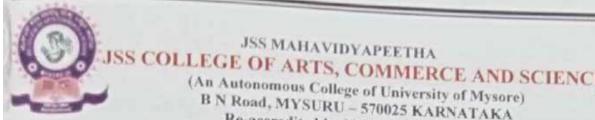
/ /2022 Date:

Place: MYSURU

NCIPAL PRINCIPAL

4.8.8. College of Arts, Commerce & Scien

(Prof. VIJAYENDRA KUMAR M.P.)



B N Road, MYSURU - 570025 KARNATAKA Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

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 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.

Date:

Place: MYSURU

T I MIR PROMINED



# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE



(An Autonomous College of University of Mysore)
B N Road, MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"

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

#### **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.

PRINCIPAL

Ban lengud-Oofy Book A KTONFAR M.P. Prof. VIJAYENDRA KTONFAR M.P.

Date:

Place: MYSURU



# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE



(An Autonomous College of University of Mysore)
B N Road, MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"

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.

Date:

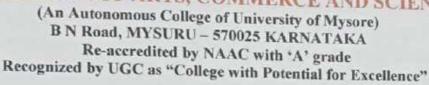
Place: MYSURU

PRINCIPAL ,

Prof. VIJAYENDRA KUNTAR W.P.



# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE





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 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.

Date:06-08-2022

Place: MYSURU

PRINCIPAL

Pro VIJAY ENDRA GOMER OND





JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE
(An Autonomous College of University of Mysore)

B N Road, MYSURU - 570025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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

Date:

Place: MYSURU

PRINCIPAL

Bealengud-Oory Road, MYSONE 4

(Prof. M. P. VIJAYENDRA KUMAR)



# JSS MAHAVIDYAPEETA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
OOTY ROAD, MYSORE - 570025, KARNATAKA.

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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



## **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

Bea Professory Bood, MYSONERA KEMLAR)







# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) B N Road, MYSURU - 570025 KARNATAKA Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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 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.

Date:

Place: MYSURU

PRINCIPAL

4.8. Sellage of Arts, Commerce & Sci Benjangud-Ooty Bood. (Prof. VIJAYENDRA KUMAR M.P.)





JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An autonomous college of university of Mysore)
BN Road, Mysuru; 570025, Karnataka
Re accredited by NAAC with A Grade
Recognized by UGC as "College with potential for excellence"
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 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:

Place: Mysuru

PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PRINCIPAL PROPERTY AND POST PRINCIPAL PRINCIPA





#### JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

B N Road, MYSURU – 570025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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 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 HIREMATH 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

PRINCIPAL

## January Commerce & Science Was January Cost Road. MY SORF #

(Prof. VIJAYENDRA KUMAR M.P.)

# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

B N Road, MYSURU -570025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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 of foot and mouth disease in cattle in selected villages of krishnarajanagara taluk, mysuru district, Karnataka state" is a bonafide work carried out by

Mr. BHARGAV KS under the guidance of Dr.

RAMYASHREE M, for the partial full filment 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

PRINCIPAL

Ean Jaguel-Coty Bood, MYSORF.



# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) Re-accredited by NAAC with "A" grade Recognized by UGC as "College with Potential for Excellence" OOTY ROAD, MYSORE - 570025, KARNATAKA.



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

## CERTIFICATE

This is to certify that the project work entitled "A STUDY ON PREVALENCE OF CARDIOVASCUALR 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

4.8.5. College of Arts, Commerce & Science rof Nijayendraokumayovi p



### ISS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) Re-accredited by NAAC with 'A' grade Recognised by UGC as "College with Potential for Excellence"

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 COMPARISON OF RATE OF DIABETIC PATIENTS IN URBAN (MYSORE CITY) AND RURAL (SUDI, VILLAGE RON TO, 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.

# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE JSS MAHAVIDYAPEETHA

(An Autonomous College of University of Mysore) B N Road, MYSURU - 570025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence" Ph: 0821-2548236 & 2548380. FAX: 0821-2548238 Email: jssautonomous@gmail.com Website:

## **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 Hediyalmath 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

PRINCIPAL

s.S. Sellege of Arts, Commerce Ben/sagud-Oory Bood, MYSONE-4 (Prof. M.P.Vijayendrakumar)



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE - 570 025, KARNATAKA

SCE (50)

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

#### 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

PRINCIPAL

8.8.8. College of And Alexander Askilmar M. P. Ben league-Cory Bood, MYSORE-4





# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
B N Road, MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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

#### **CERTIFICATE**

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:

Place: MYSURU

- PRINCIPAL

Banlanguri-Ooty Road, MYSUMF.4
(Prof. M.P. VIJAYENDRA KUMAR)

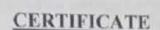


# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
B N Road, MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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



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 20212022. 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

PRINCIPAL

80.8. College of Arts, Commerce & Science Ban langud-Outy Road. MY SONE-4

(Prof.M P VIJAYENDRA KUMAR)

# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

B N Road, MYSURU – 570025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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 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

PRINCIPAL

Bas lengud-Octy Bood, MYSORE-4 (Prof. M P VIJENDRA KUMAR)



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE - 570 025, KARNATAKA

E (50)

28 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

#### CERTIFICATE

This is to certify that the project work entitled "A STUDY ON DIVERSITY AT ANNADATA ORGANIC BUTTERFLY 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

PRINCIPAL 1481. WYSER YEMBIEARWERIA RA Benjangud-Ooty Bood, MYSORE-4

# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

B N Road, MYSURU – 570025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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

#### **CERTIFICATE**

This is to certify that the project entitled "Study on Dog Ticks in Chamarajanagarcity" is a bonafide work carried out by Ms.Arpitha 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 Place: MYSURU

Bes jangud-Ooty Road, MYSORF.

Prof. Vijayendra kumar M.P





## JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) B N Road, MYSURU – 570025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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

#### **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.

Date:

Place: MYSURU

PRINCIPAL

(Pro fedge Adder and Art Scient



JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) B N Road, MYSURU - 570025 KARNATAKA Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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

Website: JSSCACS.edu.in

#### 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. 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.

Date:

Place: Mysuru

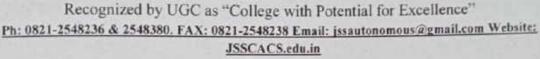
4.8.8. Callage of Arts, Commerce & Science Banlengurt-Outy Road MY SUME (Prof. M P VIJAYENDRA KUMAR)



# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) B N Road, MYSURU – 570025 KARNATAKA

Re-accredited by NAAC with 'A' grade



#### **CERTIFICATE**

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.

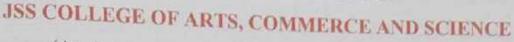
Date:

Place: MYSURU

PRINCIPAL

Ben lengud-Boty Rood, MYSORF-4 (Prof. Vijayendra Kumar)





(An Autonomous College of University of Mysore)
B N Road, MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

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

#### **CERTIFICATE**

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.

Date:

Place: MYSURU

PRINCIPAL

PRINCIPAL

College of Arts, Commerces Sal

(Prof. Manual AND DRA KYSORE-



# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) B N Road MYSURU – 570025 KARNATAKA Re-accredited by NAAC with A grade Recognized by UGC as "College with Potential for Excellence"

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

#### **CERTIFICATE**

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 M&, 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.

Date:

Place: MYSURU

PRINCIPAL

JSS College provise, PRIMITER Agence (Autonomous) Ooty Road, MYSURU-570025



# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysuru) Ooty Road MYSURU –570025 KARNATAKA Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

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 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.

Date:

Place: MYSURU

PRINCIPAL

JSS College of Arts, Commerce & Science
Ooly Rosa PRASURIBATA





#### JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) B N Road MYSURU - 570025 KARNATAKA Re-accredited by NAAC with A'grade Recognized by UGC as "College with Potential for Excellence"

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 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.

Date:

Place: MYSURU

PRINCIPAL

JSS College of Arts, Commerce & Science

(Autonomous)

Octy Road, MYSURU-570025



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE - 570 025, KARNATAKA

CE (50)

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

## 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 hasnot been submitted elsewhere for any other degree or diploma.

Date:

Place: Mysuru

PRINCIPAL

JSS College of Sal Prathibha Science

Ooty Road, MYSURU-570825



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

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE - 570 025, KARNATAKA

CE (50)

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

#### 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.

Date:

Place: Mysuru

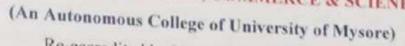
PRINCIPAL

JSS CoDr. Prathibha. S

Cory Rosa, Alvauru 570025



# JSS COLLEGE OF ARTS, COMMERCE & SCIENE





Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"

OOTY ROAD, MYSORE -570025, KARNATAKA

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

### 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

PRINCIPAL

JSS College of Arts Courses & Science

Octy Road, MYSURU-570025



## JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysuru) B N Road MYSURU – 570025 KARNATAKA Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

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

### CERTIFICATE

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

PRINCIPAL

JSS College of Arts Company & Science

Octy Road, MYSURU-570025



255 MAHAVIOHAPEETHA

## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
An accredited by ful.AC with Alignade sed by USC as "College with Foreign for Excel-GOTY ROAD, MYSORE - \$70 525, KARNATAXA



■ (821-2548296 & 2548380 Fax 5821-2548296 E-mail jasautoromous@gmail.com

## CERTIFICATE

This is to certify that the project work entitled "A Survey on Ant Diversity in Krishnapura village, Heggadadevana kote taluk, Mysuru district, Karntaka" Submitted by Ms. SUSHMITHA S B, M.Sc., 4th semester M.Sc., in Zoology. This research work was carried out and completed under the guidance of Dr. B S NLJAGAL 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.

Date:

Place: Mysuru

PRINCIPAL PRINCIPAL

e of Arts. Cummerce & Science

Prof. Dr. S Prathibha

# 0

#### JSS MAHAVIDYAPEETHA

#### JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
Ooty Road, MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"

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 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.

Date:

Place: MYSURU

PRINCIPAL

JSS College DRANS, PRANTHEBHAS ciences

(Autonomous)

Octy Road, MYSURU-570025



#### JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
Ooty Road, MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"

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 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.

Date:

Place: MYSURU

PRINCIPAL

JSS Collage of Ade Commission & Survice (Autonomous)

Opty Road, MYSURU-570025





# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

B N Road, MYSURU – 570025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

### CERTIFICATE

This is to certify that the project entitled "Morphological diversity and distributional patterns of Bivalves and Gastropods molluses 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:

Place: MYSURU

PRINCIPAL

JSS College of Arts, Commerce & Science

(Autonomous) Only Road, MYSURU-570025

Dr. PRATHIBHA S



# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)
B N Road MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with 'A' grade Recognized by UGC as
"College with Potential for Excellence"

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 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.

Date:

Place: MYSURU

PRINCIPAL

JSS College of Arts, Curmerce & Science



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE - 570 025, KARNATAKA

E (50)

1 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

# 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

PRINCIPAL

DALSinBrathibha

Ooty Road, MYSURU-570025



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) Re-accredited by NAAC with 'A' grade Recognised by UGC as "College with Potential for Excellence"

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 "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.

Date:

Place: Mysuru

JSS College Brathibha

(Autonomous) Ooly Road, MYSURU-570025



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
Re-accredited by NAAC with 'A' grade
Recognised by UGC as "College with Potential for Excellence"
OOTY ROAD, MYSORE - 570 025, KARNATAKA



28 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

## 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

PRINCIPAL

PRINCIPAL

JSS College of Arts Corporate & Science

Ooty Road, MYSURU-570025



# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

Ooty Road, MYSURU - 570025 KARNATAKA Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

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

# CERTIFICATE

This is to certify that the project entitled "Exploring factors affecting cotton crop damage in Shakhapur, Nerabenchi, 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

PRINCIPAL

JSS College of Arts, Commerce & Science

DIR SOPRATRIBUAS



# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore) B N Road MYSURU – 570025 KARNATAKA Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

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 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:

Place: MYSURU

PRINCIPAL

JSS Colleging Asia Programme & Spience (Autonomous)

Ooty Road, MYSURU-570025



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) Re-accredited by NAAC with 'A grade Recognised by UGC as "College with Potential for Excellence" OOTY ROAD, MYSORE - 570 025, KARNATAKA

1 0821-2548236 & 2548380 Fax 0821-2548238 E-mail jssautonomous@gmail.com

# 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 DESAL, 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

PRINCIPAL

JSS College of Arts, Commerce & Science Alone Brathibha.

Octy Road, MYSURLI-670025



# JSS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(Autonomous) Ooty Road MYSURU – 570025 KARNATAKA

Re-accredited by NAAC with "A" grade Recognized by UGC as "College with Potential for Excellence"

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 Study on Diversity of ants in Arakalavadi and Honnahalli village of Chamarajanagara District, Karnataka" is abonafide 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:

Place: MYSURU

PRINCIPAL

JSS Colleg DR SPRATTIBLE Science (Autonomous)

Only Road, MYSURU-570025



# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE



(An Autonomous College of University of Mysuru) B N Road
MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with A grade
Recognized by UGC as College with Potential for Excellence

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

# **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.

Date:

Place: MYSURU

PRINCIPAL

JSS College of Arts, Commerce & Science

Ooty Road, MYSURU-570025



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)

Re-accredited by NAAC with 'A' grade

Recognised by UGC as "College with Potential for Excellence"

OOTY ROAD, MYSORE - 570 025, KARNATAKA



1 0821-2548236 & 2548380 Fax: 0821-2548238 E-mail: jssautonomous@gmail.com

### 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.

Date:

Place: Mysuru

PRINCIPAL

JSS Collegator Arrathible Son Science (Autonomous)

Octy Road, MYBURU-570025



### ISS MAHAVIDYAPEETHA JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) Re-accredited by NAAC with 'A' grade Recognised by UGC as "College with Potential for Excellence" 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 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.

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

Date:

Place: Mysuru

RINCIPAL

PRINCIPAL

JSS Collegpor ASS, Pour hibitascience

(Autonomous)

Ooty Road, MYSURU-570025

# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE



(An Autonomous College of University of Mysore) B N Road
MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with A grade Recognized
by UGC as
"College with Potential for Excellence"

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

# **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.

Date:

Place: MYSURU

PRINCIPAL

JSS College of Arts. Commence & Science DR. S. PRATHIBHA.

Ooly Road, MYSURU-670025

# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE



(An Autonomous College of University of Mysore) B N Road
MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with A grade Recognized
by UGC as
"College with Potential for Excellence"

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

# 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.

Date:

Place : MYSURU

PRINCIPAL

JSS College of Arts, Commerce & Science

DRETS FRATIVMBURA-25



# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE

(An Autonomous College of University of Mysore)

B N Road, MYSURU - 570025 KARNATAKA Re-accredited by NAAC with A grade Recognized by UGC as

"College with Potential for Excellence"

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 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.

Date:

Place: MYSURU

PRINCIPAL

JSS Collegge Step (Arrange KaScience (Autonomous)

Octy Road, MYSURU-570025

# JSS COLLEGE OF ARTS, COMMERCE AND SCIENCE



(An Autonomous College of University of Mysore) B N Road
MYSURU – 570025 KARNATAKA
Re-accredited by NAAC with A grade Recognized
by UGC as
"College with Potential for Excellence"

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

# **CERTIFICATE**

This is to certify that the project entitled "Melissopalynology- a study on pollen grains in honey samples taken from Chamarajanagar 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.

Date:

Place: MYSURU

JSS College of Arts, Custimerce & Science
1981 SPRATTIBITA-25



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)

# B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"

Ph. 0821-2548236 & 2548380. FAX: 0821-2548238 E-mail: jssautonomous/agmail.com Website: JSSCACS.edu.in

# CERTIFICATE

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.

Truspest parch

Head of the Department

P.G. Department of Physics.
JSS College of Arts. Examerce & Science Continues

Principal

Examiners

The rev

2. Binittemae KC

Place: Mysuru

Date: 5 9 2023



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)

#### B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

Ph. 0821-2548236 & 2548380. FAX: 0821-2548238 E-mail: issautonomous@gmail.com Website: JSSCACS.edu.in

# CERTIFICATE

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.

ueiDestpande

Head of the Department

Principal

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous) Ooty Road, Mysore-570 025

Examiners

2. Suis l'emai 160

Place: Mysuru

Date: 05 09 2023



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph. 0821-2548236 & 2548380 FAX 0821-2548238 E-mail Website JSSCACS edu in

#### 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.

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous)

Only Road, Mysore-570 025

Head of the Autonomous)

Principal

Examiners

2. Bust Koman KC

Place: Mysuru

Date: 31.08.2023 (Thursday)

# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail

Website ISSCACS edu in

# CERTIFICATE

This is to certify that the dissertation entitled "Green synthesis of Cerium Vanadate and Molybdenum Oxide nanoparticles using Chamaecostus cuspidatus extract as fuel and exploring their photocatalytic applications" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bona fide work carried out by Ms. Sruthi K (Reg.no.P01BE21S0162) 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

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Automations)

Coty Road, Mysore 570 025

Examiners

1 it with

2. Prost lam as K. S

Fluma WC

Place: Mysuru

JES MARAVIDYAPTETIES



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE (An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 Email assautonomous/demail com Website JSSCACS edu in

## 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, DEEPIKA by benified work carried out is a Mysuru, (Reg. No. PO1BE21SO163) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

Guide 5/9/202)

Head of the Department Head

P.G. Department of Physics JSS College of Arts, Commerce & Science (Autonomous)

Opty Road, Mysore 570 025

Principal

Examiners

2. Sinst Kennes ILC

Place: Mysuru

Date: 31.08.2023 (Thursday)



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 F-mail possed

Website ISSCACS edu in

Principal

# CERTIFICATE

entitled dissertation This is certify that the to "STRUCTURAL, OPTICAL AND ELECTRONIC PROPERTIES OF CdTe COMPOUND: A DFT ANALYSIS" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonafide work carried out by Nisarga H.C (Reg.no. P01BE21S0167) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Head of the Department Head

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

Examiners

plin rev . 1.

2. Louis tumas CC

Place: Mysuru

INCMAJIANTOVAPRETRA



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail Website ISSCACS edu in

### 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 Nisarga K Y(Reg.no.P01BE21S0168) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

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

Examiners

- plus re.V.

2. Just Cumue CC

Place: Mysuru

# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE



(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

96 0821 2548236 & 2548380 FAX 0821-2548238 E-mail pseudotempolar gmail com Website JSSCACS edu in

# 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 Navya M (Reg.no. P01BE21S0169) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022.

Suide

Head of the Department Head Principal

Examiners

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous)

Ooty Road, Mysore-570 025

1. The re V

2. Just terman ICC

Place: Mysuru



(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

Website JSSCACS edu in 0821-2548236 & 2548380 FAX 0821-2548238 E-mail p

# CERTIFICATE

This is to certify that the dissertation entitled "Green synthesis of Cerium Vanadate and Molybdenum Oxide nanoparticles using Chamaecostus cuspidatus extract as fuel and exploring their photocatalytic applications" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bona fide work carried out by Ms. Hima P Joy (Reg.no.P01BE21S0170) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Head of the Department

rincipal

Head

P.G. Department of Physics JSS College of Arts, Commerce & Science (Autonomous)

Bat Tan

Examiners

2. Siniffermas IC

Place: Mysuru

# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 I mail | Website JSSCACS edu in

## CERTIFICATE

This is to certify that the dissertation entitled "Green synthesis of Cerium Vanadate and Molybdenum Oxide nanoparticles using Chamaecostus cuspidatus extract as fuel and exploring their photocatalytic applications" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bona fide work carried out by Ms. Karthika C (Reg.no.P01BE21S0173) in partial Madhavan fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Head of the Department

Head

Principal

P.G. Department of Physics JSS College of Arts, Commerce & Science (Autonomous) Caty Road Murrey was and

Examiners

1. 50

rla 17V

2. Similitioniae CC

Place: Mysuru



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

0821-2548236 & 2548380 FAX 0821-25482381 mail

Website JSSCACS edu in

### 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 Dhanya (Reg.no.P01BE21S0175) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Head of the Department

Head

P.G. Department of Physics JSS Callege of Arts, Consuerce & Science (Autonomous) Octy Road, Mysore-570 025

Examiners

Place: Mysuru

Principal

Date: 05-09-2093

1. Det. N. Governdaiah (Mandya University Mandya)
2. Bushper at Or N. Kushpa, JSS Glege, Mysone]



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail: issautonomous //gmail.com Website: JSSCACS edu in

# 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 BHAVANA R(Reg.no.P01BE21S0176) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Head of the Department Hoad

P.C. Department of Physics JSS Euffage of Arts, Commerce & Science (Autonomous) Date Road, Myster 570 025

Principal

Bushpa. Of Dr. N. Pushpa, JSS Chage, Mysore

Place: Mysuru

Date: 05/09/2023



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

0821-2548236 & 2548380 FAX 0821-2548238 E-mail: jssaulonomous@gmail.com Website JSSCACS.edu in

### 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 Komala K S (Reg.no.P01BE21S0177) 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

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

Examiners

Place: Mysuru

rincipal

Date: 05 09 2023

Tovindaials (Mandya University Mandya)
and [Dr. Al. Puriga, JSS College, mysse



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N.ROAD, MYSURU-570025 KARNATAKA

Re-accredited by NAAC with, A grade Recognized by UGC as "College with Potential for Excellence"

5 (82) 25482 36&2548380 FAX 0821-2548238F-mail

Website JSSCACS edu in

# 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 JYOTHI B S(Reg.no.P01BE21S0178) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Head of the Department

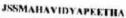
P.G. Department of Physics JSS College at Arts, Colonia val 8. Science (Autonomous) Principal

Examiners high 819/23
1. Dr. T. N. Govundarads (Mandya University Mandya

2. Lushga N [Dr. N. Ruehjea JSS College, Mysore]

Place: Mysuru

Date: 5/9/23





# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous Callege of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX: 0821-2548238 E-mail: jssautonomons/Famail.com Website JSSCACS.edu.in

# 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, bonified work carried out by Dhanyashree (Reg.no.P01BE21S0180) 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

Principal

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

Examiners

Place: Mysuru

1. Dr. T. N. Goverdarah (Mandya University Mandya)
2. Surlya of [Dr. N. Pushpa, JSS College, Myssle]



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 F-mail goand to be made on Website JSSCACS edu in

## CERTIFICATE

This is to certify that the dissertation entitled "Green synthesis of Cerium Vanadate and Molybdenum Oxide nanoparticles using Chamaecostus cuspidatus extract as fuel and exploring their photocatalytic applications" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bona fide work carried out by Ms. N M Supriya Namboothiri (Reg.no.P01BE21S0181) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Sunt burner A.C.

Head of the Department

Head

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous)

Opty Road, Mysore-570 025

Examiners

19/9/19/22

2.

Dr. N. Pushpa, JSS 6Hege, Mysone

Principal

Place: Mysuru

Date: 08-09-2023

**ESCHAILAVIDVAPOTILA** 



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail Website JSSCACS edu in

### 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.

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

Principal

Examiners
1. Dr. N. Govundarah (Mandya University Mondya
2. Scerlyza of, Dr. N. Bushpa, JSS Glege, Mysre)
Place: Mysner

Place: Mysu

Date: 8/9/2023



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph. 0821-2548236 & 2548380 FAX 0821-2548238 E-mail pseudommout/figural com Website JSSCACS edu in

#### 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 CHINNAMMA K (Reg. no. P01BE21S0191) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

Head of the Department

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

V. Goolisdand Mandya Univerty Mandya a, N [ Dr. N. Pushpa, J.S. College, Mysole]

Principal

Place: Mysuru

Date: 31.08.2023 (Thursday)



(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

CERTIFICATE

Recognized by UGC as "College with Potential for Excellence" Website JSSCACS edu in Ph 0821-2548236 & 2548380 FAX 0821-25482381-mail

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

Come ICC

Head of the Department

Head

P.G. Department of Physics JSS College of Arts, Commerce & Science (Autonomous)

Daty Road, Mysore-570 025

1. Dr. T.N. Governtaiah (Mandya University Mandya)
2. Bushpara [Dr. N. Pushpa, JSS College, Mysse)

Principal

Place: Mysuru

Date: 09-9-2023



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

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-25482381-mail

Website ISSCACS edu in

## 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 NM Sushmitha (Reg.no. P01BE21S0196) 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

P.G. Department of Physics

Head

S CVI JSS College of Arts, Commerce & Science (Autonomous)
Ooty Road, Mysore 570 025

1. Dr.T.N. Goverdarah

Dr. N. Purlya, JSS College, O

Mysne 7

Place: Mysuru

Date: 08-09-2023

#### PS MAHAVIDYAPPETRIA



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE (An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

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

## 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 earried out by NAVITHA C S 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

JSS College of Arts. Commerce & Science (Autonomous)

Daty Road Mysore-570 025

Head of the Department

Principal

Examiners

\*\*\*/

Place: Mysuru

#### 288 MAHAVIDYAPETTHA



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE (An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

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

### 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.

Head

P.G. Department of Physics

USS College of Krig, Commerce & Science (Autonumous)

Guide Head of the Department Principal

Examiners

Place: Mysuru

Date: 8 9 2023



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Antonomous College of University of Mysore)
B.N.ROAD, MYSURU-570025 KARNATAKA

Re-accredited by NAAC with,,A grade Recognized by UGC as —College with Potential for Excellencel

Ph 0821-2548236&2548380 FAX 0821-2548238E-mail: journtonemous@gmail.comWebsite:JSSCACS edu in

## 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.

Guide

Head of the Department

Principal

P.G. Department of Physics
JSS College of Arts, Commerce & Science (Autonomous)
Gdy Road, Mercie 570 825

Examiners

1.

2.6

Place: mysuru



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail Website JSSCACS edu in

# CERTIFICATE

This is to certify that the dissertation entitled "Hirshfeld surface analysis of Coumarin derivatives" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by Sanjay P R (Reg.no.P01BE21S0214) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

P.G. Department of Physics

JS\$ Fellege of Arty Commerce & Science (Autonomous)
Ooty Road, Mysbre 570 025

Principal

Place: Mysuru



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX: 0821-2548238 E-mail Website JSSCACS edu in

## CERTIFICATE

This is to certify that the dissertation entitled "Solid State Synthesis of LiNbO2 Uncovers LiNbO3'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.

Head of the Department

Principal

Head

P.G. Department of Physics. JSS Callege of Arra, Communica & Science (Autonomount Daty Road, Myssie 570 025

Examiners

Place: Mysuru



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph. 0821-2548236 & 2548380 FAX 0821-2548238 F-mail: insurframental com/Website ISSCACS.edu.in

## CERTIFICATE

This is to certify that the dissertation entitled "Solid State Synthesis of LiNbO<sub>2</sub> Uncovers LiNbO<sub>3</sub>'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 Chandra Mouli P (Reg.no.P01BE21S0234) 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

JSS College of Arts, Commerce & Science (Autonomous)

Ooty Road, Mysore-570 025

Head of the Department

Principal

Examiners

2. Quelle

Place: Mysuru



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph. 0821-2548236 & 2548380 FAX 0821-25482381-mail\_psychopologicalmail.com Website JSSCACS edu m

## CERTIFICATE

This is to certify that the dissertation entitled "Hirshfeld surface analysis of Coumarin derivatives" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by Rakshith M (Reg.no.P01BE21S0236) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

P.G. Depar

Guide

P.G. Department of Physics JSS College of Arts, Commerce & Science (Autonomous)

Head of the Department

Principal

Examiners

1. BR

Place: Mysuru



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail |

Website JSSCACS edu in

## CERTIFICATE

This is to certify that the dissertation entitled "Hirshfeld surface analysis of Coumarin derivatives" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by Vijay S (Reg.no.P01BE21S0242) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Calle .

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous)

Head of the Road, Mystle 570 025

Principal

Examiners

1.

2.

Place: Mysuru

# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE



(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph (821-2548236 & 2548380 FAX 0821-2548238 F-mail <u>issuitonomous argmail.com</u> Website JSSCACS edu in

## CERTIFICATE

This is to certify that the dissertation entitled "A Study of Calcium Oxalate — A Biomineral" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is bonified work carried out by Prashanthkumar S. (Reg.no. P01BE21S0245) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Head of the Department

Principal

P.G. Department of Physics

JSS College of Arta, Comparison & Science (Autonomous)

1 - 6570-3

Evaminers

Place: Mysuru



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

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

# 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 Poojashree R (Reg.no.P01BE21S0246) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

pued Ishpande

Head of the Department

Principal

P.G. Department of Physics

JSS College of Arts, Commerce & Science Mutanomon ()

Octy Need, Mysore 570 (1)

Examiners

1,

Place: Mysuru

Date: 5 | 9 | 2023



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N.ROAD, MYSURU-570025 KARNATAKA

Re-accredited by NAAC with, A grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236&2548380 FAX 0821-25482381-mail gagatamamous

Website JSSCACS edu in

# 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 ARCHANA TA(Reg.no.P01BE21S0248) 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

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

Examiners

11

Place: mysuru





# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail issuitenomous@gmail.com Website JSSCACS.edu.in

# CERTIFICATE

This is to certify that the dissertation entitled "Solid State Synthesis of LiNbO<sub>2</sub> Uncovers LiNbO<sub>3</sub>'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 Namratha T N (Reg.no.P01BE21S0251) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

Cold S/9/2012 Jon

Head of the Department

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous)

Outy Road, Mysore 570 025

Principal

Examiners

1. rc livev

Place: Mysuru



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)

### B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX: 0821-2548238 E-mail: pseudonomous@gmail.com Website: JSSCACS.edu.in

# CERTIFICATE

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.

Soude les hourse

Head of the Department

rincipal

P.G. Department of Physics

Examiners

Lui rev

Place: Mysuru



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)

### B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade
Recognized by UGC as "College with Potential for Excellence"

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

## CERTIFICATE

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 Uma M.(Reg.no.P01BE21S0253) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

stude religional

Head of the Department

Principal

Head

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous)

rev

Examiners

1.

Place: Mysuru



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph | 0821-2548236 & 2548380 FAX | 0821-2548238 E-mail: jssudonomousal gradit com Website: JSSCACS edu in

### 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.

Guide

Head of the Department

Head

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous)

Boty Road, Mysors 570 525

Examiners

Place: Mysuru

Principal

Date: 05-09-23

1. The rev

2.

de



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph (0821-2548236 & 2548380 FAX (0821-25482381-mail jp

Website JSSCACS edu in

## CERTIFICATE

This is to certify that the dissertation entitled "Hirshfeld surface analysis of Coumarin derivatives" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by Shreyas V (Reg.no.P01BE21S0260) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Head

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous)

Ooty Road, Mysore 570 025

Head of the Department

Principal

Examiners

1. To plu rev

2.

Place: Mysuru



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail justantonomous a grant com Website JSSCACS edu in

# 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.

South Cumae ICC

Head of the Department

Principal

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous)

Ooty Road, Mysore-570 025

**Examiners** 

1. TC. \_\_\_\_ lui rev

2.

Place: Mysuru
Date: 31/8/2023



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N.ROAD, MYSURU-570025 KARNATAKA

Re-accredited by NAAC with, A grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236&2548380 FAX 0821-25482381 mail :

Webute JSSCACS edu in

Principal

## 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 Adiki Tejasree (Reg.no.P01BE21S0272) 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

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

Examiners

1. Te phi re.V.

2. AL

Place: mysuru

Date: 5 9 2023

### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysorr)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-25482381-mail\_jssautonomousatemail.com Website\_JSSCACS edu in

## CERTIFICATE

This is to certify that the dissertation entitled "FTIR: An effective method for identification of adulteration in turmeric" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by VARSHINI S S (Reg.no. P01BE21S0278) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Gover Destpande

Head of the Department

Principal

Examiners

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

1. | \_\_\_\_\_

plia HV

2.

Place: Mysuru



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail: psyudonomous a providente USSCACS edu in

# CERTIFICATE

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 Sumanth D Gowda (Reg.no.P01BE21S0276) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

P.G. Department of Physics
JSS College of Arts Jemmerce & Science (Autonomous)

Head of the Department

Principal

Examiners

1. To phi rc.V.

2.

Place: Mysuru

## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

Ph. 0821-2548236 & 2548380 FAX 0821-2548238 E-mail [35404000000083/2004] Com Website JSSCACS edu in

## CERTIFICATE

This is to certify that the dissertation entitled "FTIR: An effective method for identification of adulteration in turmeric" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by VARSHINI S S (Reg.no. P01BE21S0278) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Head

P.G. Department of Physics JSS College of Arts, Commerce & Science (Autonomous)

Doty Road, Mystie-570 025

Head of the Department

Principal

Examiners

- lui rev

pue Deshoud

2.

Place: Mysuru

# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

Website JSSCAC5 edu in Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail just

# CERTIFICATE

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

Head of the Department Head

Principal

P.G. Department of Physics

USS College of Arts, Commerce & Science (Autonomous)

2. Je. P. J. Para Schure

Place: Mysuru



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURE-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2348236 & 2548380 FAX 0821-25482381 mail

Website ISSCACS edu in

## 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.

Juide

Head of the Department

Principal

Examiners

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous)

Ooty Road, Mysore-570 025

1. D.T. H. Govundo

19/202)

Place: Mysuru

JUST ABILITY APPETUA



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph. 0821-2548236 & 2548380 FAX 0821-2548238 E-mail

# 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.

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomod) Doty Road, Mysore-570 025

Head of the Department

Principal

Examiners

1. Dr. T.N. Governdaiah (Mandya Oniver Ath, Mandya)

2. K Pot fra

1/9/1013 (Schwarz

Dien 1

Place: Mysuru

Date: 31.08.2023 (Thursday)



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with "A" grade Recognized by UGC as "College with Potential for Excellence"

Ph (82)-2548236 & 2548380 FAX (82)-2548238 E-mail resolutionarious of grand com Website JSSCACS edu in

## CERTIFICATE

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.

P.G. Department of Physics JSS College of Arts, Commerce & Science (Autonomous)

Octy Road, Mysore-570 025

Head of the Department

Principal

b mandya University Mandya

2. JC. ( -1 - 1)

Place: Mysur



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail psantonomous rigmail com Website JSSCACS edu in

## 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.

(greef) ed parole

Head of the Department Head

Principal

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

1. D. T. N. hormlaide Mandya Universely Mandya 2. p. P. - /9 15/261)

Place: Mysuru

Date: 9 | 9 | 2023

BRIMARIAN REVAPORTINA



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph. 0821-2548236 & 2548380 FAX 0821-2548238 E-mail Website ISSCACS edu in

## 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.

P.G. Denatiment of Physics

JSS College of Arts, Commerce & Science (Autonomous) Coty Road, Mysore-570 025

Head of the Department

Principal

1. Dr. T. N. Governdaich (Mandya University Mandya

### ISS MAJLAVIDY AFTERNA



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE (An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

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

## 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, benified work carried out by BHAVANA T S Mysuru, is (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.

Head of the Department Head

P.G. Department of Physics JSS College of Arts, Commerce & Science (Autonomous) Principal

Ooty Road, Mysore-570 025

1. Dr. T. N. Goverdarah Mandya University Mandya 2. p. Part Prof 9/5/2010 (Saturda)

Place: Mysuru

Date: 31.08.2023 (Thursday)



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade.
Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-25482381-mail psagnonomero-region Website JSSCACS edu in

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 Likhitha N (Reg.no. P01BE21S0290) 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

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous)

Outy Road, Mysore-570 025

Principal

Examiners

novimdai ah

2. 10 Ped - Pro

Place: Mysuru

Date: 09 09 2023



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail positionormount ground corp. Website JSSCACS edu in

## CERTIFICATE

This is to certify that the dissertation entitled "GREEN SYNTHESIS OF BISMUTH OXIDE NANOPARTICLES BY DATURA INOXIA PLANT PHOTOCATALYTIC AND EXPLORING FUEL EXTRACT AS 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. Usha B K (Reg.no.P01BE21S0291) in partial fulfilment of the requirements for the award

Head of the Department Head

P.G. Department of Physics

Dety Road, Mysore 570 025

USS College of Arts, Commerce & Science (Autonomous)

of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

(mandya University Mandya)

rincipal

Place: Mysur

#### INSMAHAVIDY APPETRA



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Website JSSCACS edit in 0821-2548236 & 2548380 FAX 0821-2548238 E-mail |

#### 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 MANASA M (Reg. no. P01BE21S0293) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous)

Outy Road, Mysore-570 025

Head of the Department

Principal

Examiners
1. Dr. T.N. Covendarah Mandya University Mandya
2. pc (an Normalarah Statustar)

Place: Mysuru

Date: 31.08.2023 (Thursday)

## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail <u>issautonomous/arginal com</u> Website JSSCACS edu in

## CERTIFICATE

This is to certify that the dissertation entitled "FTIR: An effective method for identification of adulteration in turmeric" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by VINUTHA M (Reg.no. P01BE21S0304) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Head

P.G. Department of Physics

JSS College of Arys Commerce & Science (Autonomous)

Head of the Department

Principal

Journe Dest parde

1. Dr.T. N. Covendards Mandyer 2. 10 Per Son/9/9/2013 (Saturda)

Place: Mysuru Date: 5/9/23



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph. 0821-2548236 & 2548380. FAX 0821-2548238 E-mail: psautonomous@gmail.com Website JSSCACS.edu.in

# CERTIFICATE

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 Sangeetha S (Reg.no.P01BE21S0308) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

P.G. Department of Physics JSS College of Arts, Commerce & Science (Autonomous)

Head of the Department

Principal

Examiners

1. Det. N. Governdarah (mandya University Mandye)

2. 11. Ped- Programmed (1982)

Place: Mysuru



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 F-mail jssautoporneus organal.com Website: JSSCACS edu in

# 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 (Reg.no.P01BE21S0311) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Green Deshpards

Head of the Department Head

P.G. Department of Physics JSS College of Arts, Commerce & Science (Autonomous) Octy Road, Mysora E70 025

1. Dr. T.N. Goverdand Mandya Univertity Mandya 2. 16 Pedr Port

Place: Mysuru

Date: 09/09/23



## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Website ISSCACS edu in Ph 0821-2548236 & 2548380 TAX 0821-25482381 mail

## CERTIFICATE

entitled dissertation certify This that the 18 to "STRUCTURAL, OPTICAL AND ELECTRONIC PROPERTIES OF CdTe COMPOUND: A DFT ANALYSIS" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonafide work carried out by Kshama M.S(Reg.no. P01BE21S0315) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

P.G. Department of Physics JSS College of Arts, Commerce & Science (Autonomous)
Head of the Appartment

Principal

Examiners

Place: Mysuru



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail jssaulon Website JSSCACS edu in

#### CERTIFICATE

This is to certify that the dissertation entitled "LITHIUM DOPED BARIUM TITANATE OXIDE SENSORS" submitted to the PG Department of Physics, JSS Collegeof Arts, Commerce and Science, Mysuru is a bonafide work carried out by BHOOMIKA C M (Reg. no. P01BE21S0319) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

Head of the Department

rincipal

P.G. Department of Physics JSS College of Arts, Commerce & Science (Autonomous)

Onty Road, Mysore 570 025

Place: Mysuru

Date: 31.08.2023 (Thursday)

### ISS MARIAVIDYAPEETHA



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 F-mail in

Website JSSCACS edu in

# CERTIFICATE

This is to certify that the dissertation entitled "STRUCTURAL,OPTICAL AND ELECTRONIC PROPERTIES OF CdTe COMPOUND: A DFT ANALYSIS" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonafide work carried out by Pooja V.R(Reg.no. P01BE21S0325) in partial fulfilment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

598

P.G. Department of Physics

SS College of Arts Companies & Science (Autonomous)
Unity Road, Mysbre 570 025

Principal

Examiners

2. Gove Destprude.

Place: Mysuru

Date: 05/09/2023

## JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade

Recognized by UGC as "College with Potential for Excellence"

Ph (0821-2548236 & 2548380 FAX (0821-2548238 E-mail )

# CERTIFICATE

This is to certify that the dissertation entitled "FTIR: An effective method for identification of adulteration in turmeric" submitted to the PG Department of Physics, JSS College of Arts, Commerce and Science, Mysuru, is a bonified work carried out by THEJASWINI R (Reg.no. P01BE21S0331) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

(gould) eshpande

Head of the Department 

JSS Collega of Arts, Commerce & Science (Autonomous) Doty Road, Mysore-570 025

Principal

Place: Mysuru

Date: ,09/09/23



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

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

## CERTIFICATE

This is to certify that the dissertation entitled "A Study of Calcium Oxalate

- A Biomineral" submitted to the PG Department of Physics, JSS College of Arts,

Commerce and Science, Mysuru, is bonified work carried out by Santhosh CN.

(Reg.no. P01BE21S0333) in partial fulfillment of the requirements for the award

of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Gaus Du Grande

Head of the Department Head

Principal

P.G. Department of Physics

JSS College of Arts, Commerce & Science (Autonomous)

Caty Read, Mysere 578 025

Examiners

2. Compat fond

Place: Mysuru Date: 09[09]23



# JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548218 F-mail <u>psautonomous@gmail.com</u> Website JSSCACS edu in

# CERTIFICATE

This is to certify that the dissertation entitled "A Study of Calcium Oxalate

- A Biomineral" submitted to the PG Department of Physics, JSS College of Arts,

Commerce and Science, Mysuru, is bonified work carried out by Pavana.S.

(Reg.no. P01BE21S0350) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

guide Deslipande

Head of the Department Head

P.G. Department of Physics

JSS Cellege of Arts, Commerce & Science (Autonomous)

Cotyline J. Mes no 5-70-771

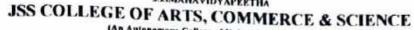
Examiners

I. TRY?

2. Goverbel pande

Place: Mysuru

Date: 09/09/23



(An Autonomous College of University of Mysore) B.N. ROAD, MYSURU-570 025 KARNATAKA

Re-accredited by NAAC with 'A' grade Recognized by UGC as "College with Potential for Excellence"

Ph 0821-2548236 & 2548380 FAX 0821-2548238 E-mail p Website JSSCACS.edu.in

## CERTIFICATE

This is to certify that the dissertation entitled "Solid State Synthesis of LiNbO2 Uncovers LiNbO3'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 Chandana M (Reg.no.P01BE21S0362) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2021-23.

Principal

Place: Mysuru



### JSS COLLEGE OF ARTS, COMMERCE & SCIENCE

(An Autonomous College of University of Mysore)
B.N.ROAD, MYSURU-570025 KARNATAKA

Re-accredited by NAAC with, A grade Recognized by UGC as —College with Potential for Excellencel

Ph 0821-2548236&2548380 FAX 0821-25482381-mail position amount against con Website JSSCACS edu in

# 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 BHOOMIKA C R(Reg.no.P01BE21S0370) in partial fulfillment of the requirements for the award of Master of Science (M.Sc.) degree in Physics during the year 2022-23.

Gulde

Head of the Department

Principal

P.G. Democration of Physics

JSS College of Arts, Commerce & Science (Automorpus)

Cath Read, Alexand 5 (A) 125

Examiners

1 Jan -

2. Gambelpoude.

Place:Mysuru

Date: 31/8/23