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**BONAFIDE CERTIFICATE**

This is to certify that the mini project entitled “**FORMULATION AND EVALUATION OF HERBAL MOISTURIZING CREAM FROM BEE WAX**” submitted by Mr. R. ASHWIN bearing Reg. No. 2113101052101 to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras, Arumbakkam, Chennai – 600 106.

  
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### BONAFIDE CERTIFICATE

This is to certify that the mini project entitled “**BIOCHEMICAL AND PIGMENT ANALYSIS FROM THE SELECTED GREEN ALGAE AND BLUE GREEN ALGAL STRAINS FROM THE TEMPLE POND**” submitted by **Mr. DHANASEKAR.M** bearing **Reg. No.2113101052102** to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras, Arumbakkam, Chennai – 600 106.



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This is to certify that the mini project entitled “**PREPARATION OF BIOPERFUME WITH *Polianthes tuberosa***” submitted by **Mr. B. HARIHARAN** bearing **Reg. No. 2113101052103** to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras, Arumbakkam, Chennai – 600 106.



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This is to certify that the mini project entitled “A REVIEW ON THE PHYTOCHEMICAL SCREENING AND THERAPEUTIC PROPERTIES OF *BARLERIA CRISTATA*” submitted by **Mr.PRAJKAMAL** bearing Reg. No.2113101052106 to the Post Graduate Department of Biotechnology ,Dwaraka Doss Govardhan Doss Vishnav College (Autonomous),Affiliated to University of Madras,Arumbakkam,Chennai-600 106



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This is to certify that the mini project entitled “**INTEGRATION OF NANOTECHNOLOGY TO IMPROVE PLANT GROWTH AND NUTRIENTS IN HYDROPONICALLY GROWN PLANT – A REVIEW**” submitted by **Mr. M. Sarankumar** bearing **Reg. No. 2113101052108** to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras, Arumbakkam, Chennai – 600 106.

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This is to certify that the dissertation entitled, **“ISOLATION AND IDENTIFICATION OF MICROALGAE FROM POND WATER”** submitted by **“Miss.ABITHA.B”** bearing. **Reg. No.2113101052112** to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras Arumbakkam, Chennai - 600 106

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ETHANOLIC EXTRACT OF *SYZYGIUM CUMINI* PLANT USING MOLECULAR  
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This is to certify that the mini project entitled “**ISOLATION AND IDENTIFICATION OF MICRO ALGAE IN LAND FRESH WATER**” submitted by **Mr. M. KAMALEESWARI** bearing **Reg. No. 2113101052121** to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras, Arumbakkam, Chennai – 600 106.

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## POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY



### BONAFIDE CERTIFICATE

This is to certify that the mini project entitled “DYEING OF NYLON FABRIC WITH NATURAL DYE EXTRACTED FROM THE WASTE LEAVES OF TERMINALIA CATAPPA (TROPICAL ALMOND TREE)” submitted by **Miss. POOJA S P** bearing **Reg. No.2113101052128** to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras, Arumbakkam, Chennai – 600 106.

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## POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY



### BONAFIDE CERTIFICATE

This is to certify that the mini project entitled “EXTRACTION OF BETALAIN PIGMENT FROM BEETROOT PEEL AND ITS APPLICATIONS” submitted by Miss.PRIYA R bearing Reg. No.2113101052129 to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras, Arumbakkam, Chennai – 600 106.

  
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### BONAFIDE CERTIFICATE

This is to certify that the mini project entitled “**PRODUCTION OF COSMETICS USING EXTRACTION FROM ESSENTIAL OIL (*SALVIA ROSMARINUS*)**” submitted by **Ms. E. PRIYANKA** bearing **Reg. No. 2113101052130** to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras, Arumbakkam, Chennai – 600 106.

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**POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY**



**BONAFIDE CERTIFICATE**

This is to certify that the mini project entitled **Title ' review on biodegradation of crude oil by cyanobacteria ACTIVITY'** submitted by **Ms. B. SANGEETHA** bearing **Reg. No. 2113101052131** to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras, Arumbakkam, Chennai – 600 106.

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**Post Graduate Department Of Biotechnology**



**Bonafide Certificate**

This Is To Certify That The Mini Project Entitled **“Formation Of Moisturizing Sunscreen Lotion From Flower”** Submitted By **Mr. M.Santhiya** Bearing **Reg. No. 2113101052132** To The Post Graduate Department Of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated To University Of Madras, Arumbakkam, Chennai – 600 106.

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**POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY**



**BONAFIDE CERTIFICATE**

This is to certify that the mini project entitled “**CRAFTING CHEMICAL SOAP WITH BETALAIN PIGMENT**” submitted by **Ms. SREE VIDHYA BHARATHI. B** bearing **Reg. No. 2113101052133** to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras, Arumbakkam, Chennai – 600 106.

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29/11/2024  
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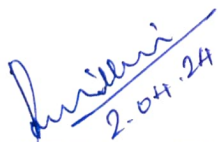
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## POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY



### BONAFIDE CERTIFICATE

This is to certify that the mini project entitled “**FORMULATION AND EVALUATION OF GEL BASED HERBAL HAND WASH USING EXTRACTS OF *Sapindus mukurosis* AND *Rosa rubiginosa***” submitted by **Ms. S. SWETHA** bearing **Reg. No. 2113101052134** to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras, Arumbakkam, Chennai – 600 106.

  
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**POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY**



**BONAFIDE CERTIFICATE**

This is to certify that the mini project entitled **“CRAFTING CHEMICAL SOAP WITH *POLIANTHES TUBEROSA* FRAGRANCE”** submitted by **Ms.R.THILAGAVATHY** bearing **Reg. No. 2113101052135** to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras, Arumbakkam, Chennai - 600 106.

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**POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY**



**BONAFIDE CERTIFICATE**

This is to certify that the mini project entitled “**FORMULATION AND EVALUATION OF SOAP FROM PLANT EXTRACT (*ROSA RUBIGINOSA*)**” submitted by **Ms. VISHRUTHI S S** bearing reg. No. 2113101052136 to the Post Graduate Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College (Autonomous), Affiliated to University of Madras, Arumbakkam, Chennai – 600 106.

  
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29/11/2024

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# **PHYCOREMEDIATION OF DOMESTIC WASTE WATER AND BIODIESEL EXTRACTION FROM FRESH-WATER MICROALGAE**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

**BIOTECHNOLOGY**

BY

**Mr. B. ANANDHAKUMAR**

Register No: 2213102047101

Under the guidance of

**Dr. N. SENTHIL KUMAR, M.Sc., PhD.**



**POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY  
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(AUTONOMOUS)  
CHENNAI - 600 106**

**March 2024**

**EXTRACTION AND CHARACTERIZATION OF  
BACTERIAL EXOPOLYSACCHARIDES FROM  
*CYTOBACILLUS FIRMUS* AND ITS APPLICATION IN  
FLOCCULATION AND HEAVY METAL ABSORPTION.**

Dissertation

Submitted in partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

IN

**BIOTECHNOLOGY**

BY

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**Register No: 2213102047102**

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**POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY  
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**(AUTONOMOUS)**

**CHENNAI-600 106**

**March 2024**

**A STUDY ON THE LEAVES OF *NELUMBO NUCIFERA* AND  
INVESTIGATING ITS THERAPEUTIC USES**

**Dissertation**

**Submitted in partial fulfilment of the requirement for the award of the**

**DEGREE OF MASTER SCIENCE**

**IN**

**BIOTECHNOLOGY**

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**POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY**

**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE**

**(AUTONOMOUS)**

**March 2024**

**MICROORGANISMS MEDIATED BIOSYNTHESIS OF SILVER NANOPARTICLES  
USING PROBIOTICS AND INVESTIGATION OF ANTIBACTERIAL ANTIBIOFILM AND  
ANTIOXIDANT ACTIVITY**

**Dissertation**

**Submitted In partial fulfillment of the required for the award of the**

**DEGREE OF MASTER OF SCIENCE**

**IN**

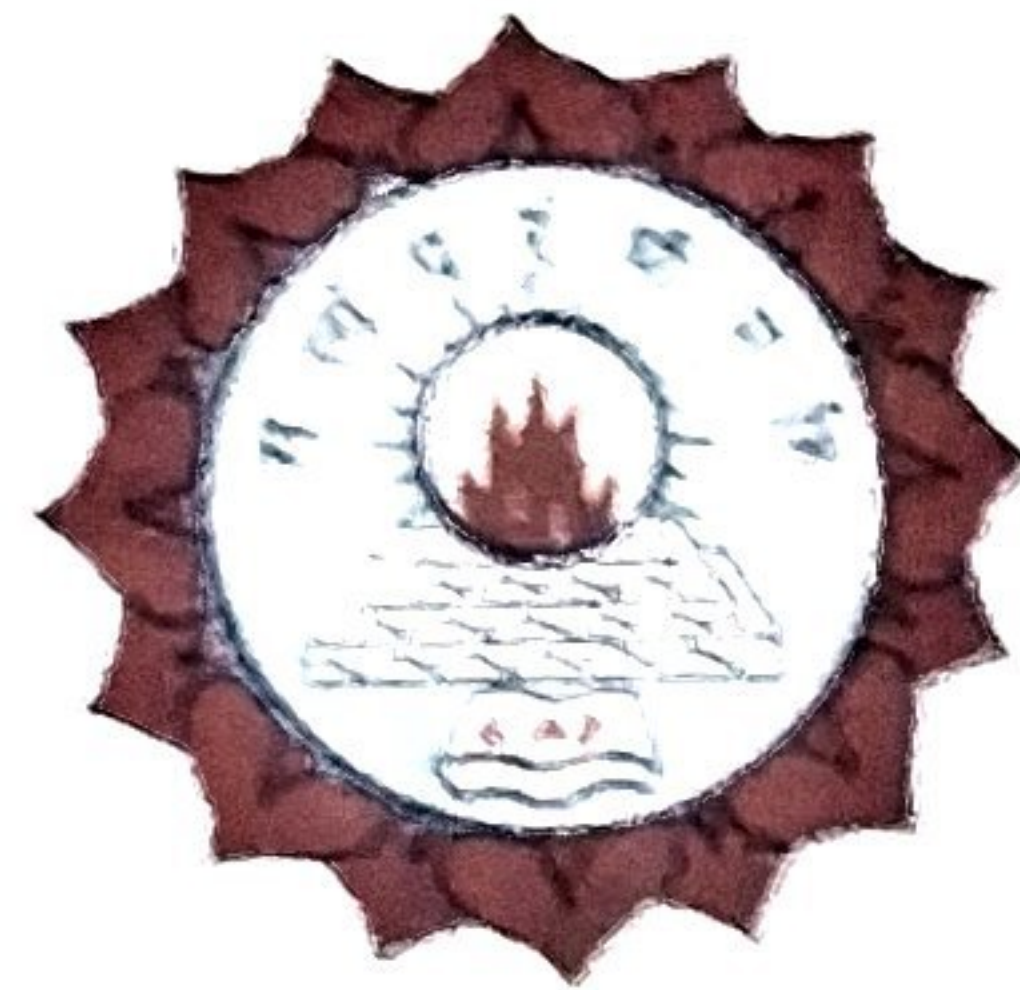
**BIOTECHNOLOGY**

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**CHENNAI -106**

**March 2024**

# **PARTIAL PURIFICATION AND CHARACTERIZATION OF ANTIBACTERIAL AGENTS FROM HALOPHILIC ACTINOMYCETES**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

**BIOTECHNOLOGY**

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**CHENNAI - 600 106**

**March 2024**



**PREPARATION AND CHARACTERIZATION OF ELECTROSPUN  
NANOFIBER INCORPORATED WITH TITANIUM DIOXIDE  
NANOPARTICLES**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

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**March 2024**

# **EXTRACTION OF ESSENTIAL OIL FROM *PIPER BETLE.L* LEAVES AND INVESTIGATING ITS THERAPEUTIC USES**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

**BIOTECHNOLOGY**

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**March 2024**

# **EXTRACTION OF CHITOSAN AND COLLAGEN FROM BIOLOGICAL WASTES AND ITS APPLICATION**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

**BIOTECHNOLOGY**

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**CHENNAI - 600 106**

**March 2024**

***IN VITRO AND IN SILICO* ANALYSIS OF AFZELIN  
FROM *EUPHORBIA HIRTA* TO IDENTIFY IT'S  
WOUND HEALING ACTIVITY**

Dissertation

Submitted In partial fulfillment of the requirement for the award

**DEGREE OF MASTER OF SCIENCE**

**IN**

**BIOTECHNOLOGY**

**BY**

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**CHENNAI - 600 106**

**March 2024**

**FORMULATION AND CHARACTERIZATION OF  
PLANT ESSENTIAL OIL BASED MICROEMULSION  
SYSTEM FROM CINNAMON BARK AND ITS  
THERAPEUTIC POTENTIALS**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

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CHENNAI - 600 106**

**March 2024**

**ISOLATION AND IDENTIFICATION OF RHIZOBIUM  
FROM ROOT NODULES (*PEANURT PLANT*) AND  
THEIR POTENTIAL APPLICATIONS**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

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**BY**

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**CHENNAI - 600 106**

**March 2024**

**EXTRACTION OF STARCH FROM BIOLOGICAL WASTES AND ITS  
APPLICATION**

**Dissertation**

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

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**MARCH 2024**

**IN SILICO ANALYSIS OF CHOLESTEROL LOWERING  
AND ANTI-ATHEROGENIC ACTIVITY OF PIGMENT  
PRODUCED BY HALOPHILIC BACTERIA**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

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**March 2024**



# **EXTRACTION OF OILS FROM MICROALGAE USING SOLVENT METHODS**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

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**CHENNAI- 600 106**

**March 2024**

**ANTIBACTERIAL AND ANTIBIOFLIM ACTIVITY OF NANOPARTICLES  
BIOSYNTHESIZED WITH MICROALGAL EXTRACTS**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

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BY

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CHENNAI- 600 106**

**March 2024**

# **IN-VIVO AND IN-VITRO ANALYSIS OF CATHARANTHUS ROSEUS ALKALOIDS IN WOUND- HEALING AND ANTI CANCEROUS ACTIVITIES**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

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BY

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CHENNAI - 600 106**

**March 2024**

**PRODUCTION OF BIO-ETHANOL FROM SPENT  
COFFEE AND TEA WASTES USING *SACHHAROMYCES*  
*Sp.* ISOLATED FROM PINEAPPLE AND ORANGE  
PEELS**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

**BIOTECHNOLOGY**

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**(AUTONOMOUS)**

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**March 2024**



# **FUNGUS MEDIATED SYNTHESIS OF SILVER NANOPARTICLES USING *ASPERGILLUS* Species**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

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**CHENNAI - 600 106**

**March 2024**



**PREPARATION OF FACEMASK FROM FRESHWATER  
MICROALGAE AND ITS STUDY ON ANTIAGING AND  
ANTIOXIDANT ACTIVITY**

**Dissertation**

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

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**DEPARTMENT OF BIOTECHNOLOGY**

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**(AUTONOMOUS) CHENNAI- 106**

**MARCH 2024**

# **ISOLATION OF ENDOPHYTIC FUNGI FROM *ANNONA SQUAMOSA*, EXTRACTING THE BIOACTIVE COMPONENTS AND THEIR APPLICATIONS**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

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**March 2024**

**STUDY ON SYNERGISTIC EFFECT OF  
BIOFERTILIZER AND NANOPARTICLES ON PLANT  
GROWTH**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

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BY

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**CHENNAI - 600 106**

**March 2024**



# **A COMPARITIVE STUDY OF CHARACTERIZATION AND BIOLOGICAL ACTIVITIES OF CHITOSAN EXTRACTED FROM CRAB SHELL AND FUNGI**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

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**BY**

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Register No: 2213102047125

Under the guidance of

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**POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY  
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**(AUTONOMOUS)**

**CHENNAI - 600 106**

**March 2024**

**ISOLATION, CHARACTERIZATION AND PARTIAL  
PURIFICATION OF CHITINASE ENZYME USING  
*Pseudomonas aeruginosa***

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

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**IN**

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**POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY  
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**(AUTONOMOUS)**

**CHENNAI - 600 106**

**March 2024**

***IN VITRO* AND *IN SILICO* ANALYSIS OF *FERULIC*  
*ACID* FROM AGRICULTURAL WASTE TO IDENTIFY  
IT'S ANTI-INFLAMMATORY ACTIVITY**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

**IN**

**BIOTECHNOLOGY**

BY

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Register No: 2213102047127

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DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE**

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**CHENNAI - 600 106**

**March 2024**

**ISOLATION AND PRODUCTION OF  
POLYHYDROXYBUTYRATE (PHB) FROM  
*BACILLUS Sp.* USING POTATO PEELS AN AGRO  
INDUSTRIAL RESIDUE SUBSTRATE**

Dissertation

Submitted In partial fulfillment of the requirement for the award of the

**DEGREE OF MASTER OF SCIENCE**

IN

**BIOTECHNOLOGY**

BY

**Ms. J. SWETHA**

Register No: 2213102047128

Under the guidance of

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**POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY  
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**CHENNAI - 600 106**

**March 2024**

# **FEED FORMULATION USING *ARTHROSPIRA PLANTENSIS* AS A MAJOR CONSTITUENT FOR AQUATIC LITOPENAEUS VANNAMEI SHRIMP**

Dissertation

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BY

**Ms. A.UMA**

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