



GEMS ARTS AND SCIENCE COLLEGE

An ISO 9001 : 2015 Certified Institution

(A Unit of Global Education and Management Studies Co-operative Ltd., No. M. 782)

(Affiliated to University of Calicut and UGC Recognized under Section 2 (f) of UGC Act 1956)

Ramapuram, Kadungapuram P.O, Malappuram Dt., Kerala. Pin - 679 321, Ph : 04933-256123, 255700

www.gemsasc.ac.in, email: gemsasc@gmail.com

Letter of Collaboration

Date: 02.09.2021

Place: Ramapuram

GEMS Arts and Science College and

Unobiosys Biotech Research Labs, South Kalamassery.

Has signed a letter of collaboration/MoU on 16.12.2020

This Collaboration is for conducting the program entitled:

Academic

Project Works for students

on 2020-21 with 7 number of participants.

Principal

GEMS Arts and Science College



Dr. NAVEEN MOHAN
PRINCIPAL

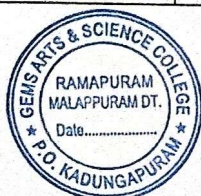
GEMS ARTS AND SCIENCE COLLEGE
KADUNGAPURAM (PO), RAMAPURAM
MALAPPURAM DT., KERALA-679 321


ACTIVITY REPORT

UNIBIOSYS PROJECT WORKS (2020-21)

During the academic year 2020-21, the students of M.sc microbiology at Gems Arts and Science College completed their 4th-semester dissertation work in Unibiosys biotech research labs, South Kalamasery. 7 students have successfully completed their project works in the concerned institution. The details of the student's project works are given below.

Sl.No	University reg.no	Name of Student	Topic
1	GGATMMB002	Anusha	Isolation and molecular identification of PGPR-producing bacteria and its activities on plant growth promotion
2	GGATMMB003	Archana. K A	Isolation, quantification, and molecular characterization of keratinase-producing bacteria from poultry waste.
3	GGATMMB004	Ayisha Nazreen	Isolation, quantification, and molecular identification of pectinase-producing bacteria from degraded fruits
4	GGATMMB007	Fathima Dilna	Isolation and molecular identification of alkaline protease-producing bacteria from soil
5	GGATMMB009	Jaseem Ali. M	Molecular characterization of multiple antibiotic resistant <i>staphylococcus staphylococcus</i> isolated from clinical samples
6	GGATMMB010	Jasna. R J	Evaluation of 16s rDNA base nested PCR assay for the diagnosis of fish-borne pathogen <i>Vibrio cholerae</i>
7	GGATMMB012	Salmanul Faris. E	Isolation, quantification, and molecular identification of amylase-producing soil bacteria from degraded tapioca




Dr. NAVEEN MOHAN
PRINCIPAL
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CERTIFICATE

This is to certify that the dissertation entitled “**Isolation and molecular identification of alkaline protease producing bacteria from soil**” is a bonafide record of the original research work done by **Ms. Fathimma Dhillna, Gems Arts and Science College, Ramapuram**, partial fulfillment of the requirement for the award of ‘**Degree of Master of Science in Microbiology**’ during the period of her study in the Department of Microbiology, under my direct supervision & guidance.



South Kalamaserry

31/08/2021

A handwritten signature in black ink, appearing to read "Dr. K.S Rishad".

Dr. K.S Rishad

(Supervising Guide)

CERTIFICATE

This is to certify that the dissertation entitled **“Isolation, quantification and molecular characterization of kartinase producing bacteria from poultry waste”** is a bonafide record of the original research work done by **Ms. Archana K A, Gems Arts and Science College, Ramapuram**, partial fulfillment of the requirement for the award of **‘Degree of Master of Science in Microbiology** during the period of her study in the Department of Microbiology, under my direct supervision & guidance.



South Kalamaserry

31/08/2021

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Dr. K.S Rishad

(Supervising Guide)

CERTIFICATE

This is to certify that the dissertation entitled **“Isolation, quantification and molecular identification of pectinase producing bacteria from degraded fruits”** is a bonafide record of the original research work done by **Ms. Aysha Nazreen, Gems Arts and Science College, Ramapuram**, partial fulfillment of the requirement for the award of **‘Degree of Master of Science in Microbiology** during the period of her study in the Department of Microbiology, under my direct supervision & guidance.



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Dr. K.S Rishad

(Supervising Guide)

CERTIFICATE

This is to certify that the dissertation entitled **“Isolation, quantification and molecular identification of amylase producing soil bacteria from degraded tapioca”** is a bonafide record of the original research work done by **Mr. Salmanul Faris E, Gems Arts and Science College, Ramapuram**, partial fulfillment of the requirement for the award of **‘Degree of Master of Science in Microbiology** during the period of his study in the Department of Microbiology, under my direct supervision & guidance.

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South Kalamaserry

Dr. K.S Rishad

31/08/2021

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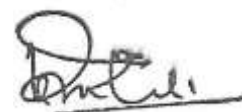
CERTIFICATE

This is to certify that the dissertation entitled “**Molecular characterisation of multiple antibiotic resistant *Staphylococcus aureus* isolated from clinical sample**” is a bonafide record of the original research work done by **Mr. Jaseem Ali M, Gems Arts and Science College, Ramapuram**, partial fulfillment of the requirement for the award of ‘**Degree of Master of Science in Microbiology**’ during the period of his study in the Department of Microbiology, under my direct supervision & guidance.



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Dr. K.S Rishad

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CERTIFICATE

This is to certify that the dissertation entitled “**Evaluation of 16s rDNA based Nested PCR assay for the diagnosis of fish borne pathogen *Vibrio cholerae***” is a bonafide record of the original research work done by **Ms. Jasna R J, Gems Arts and Science College, Ramapuram**, partial fulfillment of the requirement for the award of ‘**Degree of Master of Science in Microbiology**’ during the period of her study in the Department of Microbiology, under my direct supervision & guidance.



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