



# 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: 23/05/2022

Place:

GEMS Arts and Science College and

Amplecon Biolabs, KINFRA, Kakkanchery, Malappuram

Has signed a letter of collaboration/MoU on 18/01/2022

This Collaboration is for conducting the program entitled:

Academic Project works for students

on 2021-22 with 13 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



Mr. Vijesh Varghese  
Managing Director

Amplecon Biolabs, KINFRA,  
Kakkanchery, Calicut University Post,  
Malappuram 673635, Kerala




## ACTIVITY REPORT

### AMPLICON PROJECT WORKS (2021-22)

During the academic year 2021-22, the students of M. Sc Microbiology at GEMS Arts and Science College completed their fourth-semester dissertation work at AMPLICON BIOLABS, Park Centre, KINFRA Kakkanchery, Malappuram. Students successfully completed their project works in the concerned institution. The details of the student's project works are given below;


SL.NO	REG. NO	STUDENTS NAME	TOPIC
1	GGAUMMB001	Alfiya Nasrin K E	Isolation screening and molecular characterization of chitinase-producing bacteria from crab shell
2	GGAUMMB003	Fathima Shahna P	Biopreservation effect of bacteriocin in fruit juice preservation
3	GGAUMMB004	Fathima Suman	Isolation and production of bacterial cellulases using sweet potato peels
4	GGAUMMB005	Fathimath Rahna	Evaluation of plant metabolites and biological activities of medicinal plant leaf extract
5	GGAUMMB006	Hasna C	Isolation, screening, and identification of marine microorganisms for plant growth-promoting activities
6	GGAUMMB007	Majida M	Screening for plant growth-promoting traits of isolated endophytes
7	GGAUMMB009	Sajid Rahman K	Isolation and molecular characterization of biosurfactant producing microorganisms from oil contaminated soil



  
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8	GGAUMMB010	Sajna M	Isolation and characterization of lipolytic bacteria from waste-contaminated soil and the assay of lipase
9	GGAUMMB011	Saleena TK	Screening and molecular characterization of potential probiotic lactic acid bacteria isolated from fish intestine
10	GGAUMMB012	Shaba Jasmin T	Evaluation of oxidative stress in gall-induced leaves of <i>macaranga peltata</i>
11	GGAUMMB014	Shanida TP	Isolation and molecular detection of bacteria from infected chilli leaf and its control using medicinal plants
12	GGAUMMB015	Shanooba K	Bacteria mediated extracellular synthesis and biological applications of silver oxide nanoparticles.
13	GGAUMMB016	Thasneem O P	Biocolourant production by pigment-producing bacteria isolated from soil.



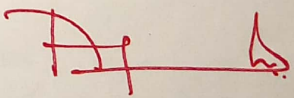
  
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16<sup>th</sup> May 2022

**CERTIFICATE**

This is to certify that the dissertation entitled “**BIOCOLOURANT PRODUCTION BY PIGMENT PRODUCING BACTERIA ISOLATED FROM SOIL**” is an authentic record of original research work done by **Ms. THASNEEM O P (GGAUMMB016)** student of M.Sc. Microbiology, GEMS Arts and Science College, Ramapuram, Malappuram, from December - January under my supervision and guidance in Amplicon Biolabs, KINFRA, Kakkanchery, for the partial fulfillment of the requirement for the award of the **Degree of Master of Science in Microbiology**. This dissertation in full or parts have not been submitted to any other institute or University for the award of any degree or diploma. Further it is certified that this dissertation represents an independent work done by the candidate under my supervision.



  
**Dr. Akhilesh. V. P.**  
(Supervising Guide)  
**Dr. Akhilesh. V. P.**  
Senior Analyst

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16<sup>th</sup> May 2022

**CERTIFICATE**

This is to certify that the dissertation entitled “**BIOPRESERVATIVE EFFECT OF BACTERIOCIN IN FRUIT JUICE PRESERVATION**” is an authentic record of original research work done by **Ms. FATHIMA SHAHNA P(GGAUMMB003)** student of M.Sc. Microbiology, GEMS Arts and Science College, Ramapuram, Malappuram, from December - January under my supervision and guidance in Amplicon Biolabs, KINFRA, Kakkanchery, for the partial fulfillment of the requirement for the award of the **Degree of Master of Science in Microbiology**. This dissertation in full or parts have not been submitted to any other institute or University for the award of any degree or diploma. Further it is certified that this dissertation represents an independent work done by the candidate under my supervision.



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Approval No. PCB/CL/BL/4/2000

16<sup>th</sup> May 2022

**CERTIFICATE**

This is to certify that the dissertation entitled **"ISOLATION, SCREENING AND IDENTIFICATION OF MARINE BACTERIA FOR PLANT GROWTH PROMOTING ACTIVITIES"** is an authentic record of original research work done by **Ms. HASNA C (GGAUMMB006)** student of M.Sc. Microbiology, GEMS Arts and Science College, Ramapuram, Malappuram, from December - January under my supervision and guidance in Amplicon Biolabs, KINFRA, Kakkanchery, for the partial fulfillment of the requirement for the award of the **Degree of Master of Science in Microbiology**. This dissertation in full or parts have not been submitted to any other institute or University for the award of any degree or diploma. Further it is certified that this dissertation represents an independent work done by the candidate under my supervision.



*(Handwritten Signature)*

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