



JAMAL MOHAMED COLLEGE (Autonomous)
(Affiliated to Bharathidasan University)
Tiruchirappalli- 620 020

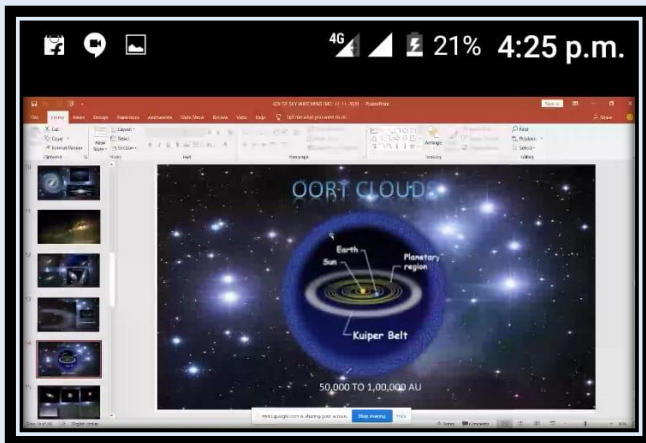
Problem-Solving Methodologies

Problem Solving is a form of complex learning process which enable the students to apply their knowledge in challenging situations. The college gives ample opportunities for the students to hone their skills in problem solving techniques through various projects offered in each department.

- Brain storming sessions are conducted to generate new ideas. Mind-mapping, Data mining and Logic approximation methods are also adopted by Mathamatics, Management Studies, Physics and Computer Science departments to inculcate the problem-solving skills.
- Case study programmes are being practised such as Air pollution, Water Pollution in specific areas of our district which help the students to bring meaningful results. The society concerning problems are taken up through group projects by Chemistry students of the college.
- Fish culture project is promoted by Zoology Department to assess the environmental issues which affect fish rearing and solving the same.
- Live Projects and other software are developed by students of computer science.
- Telescope making training is offered by our students of Physics for school children to facilitate them in star-gazing.
- Student belonging to the departments of Commerce, Management Studies, Economics and Social Work studies take up projects in studying the performance of employees and their issues in different companies.
- Soft skills incorporated in the curriculum develop students' confidence and help them in facing challenges and take right decisions in problem-solving.

Mentoring helps students pick up skills to critically analyse real-life situations and come up with solutions.

Department of Physics



Mr. G. Aazhimukilan, Trichy Astro Club, Tiruchirappalli delivering a special lecture on **The Great Conjunction of Jupiter and Saturn** through Google Meet platform on 19-12-2020

Mr. V. Rajasekar, Scientist, ISRO, Trivandrum delivering a special lecture on **The Great Conjunction of Jupiter and Saturn** through Google Meet platform on 20-12-2020.



Students viewing **"The great Conjunction of Jupiter and Saturn- An event after 397 years"** through the telescope on 21-12-2020.

A section of students during Sky Watch Programme on 09-03-2020



A section of Students viewing the Wellington and Comet during Sky-Watch Programme on 17-12-2021



An Events has been conducted in the topic of "Manam Kondu Manam Mudippom" on 22/12/17.



Various Problem - Solving Events conducted by Department of Management Studies





BHARAT SANCHAR NIGAM LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE)

TRICHY TELECOM DISTRICT

BSN Learning

CERTIFICATE

This is to certify that Shri/kum **M.ABDUL REHAMAAN**


a student of JAMAL MOHAMED COLLEGE (Autonomous)

..... B.Sc / PHYSICS - II Year

has undergone **Vocational Training on Telecom Technologies** *in our*
organization for 5 days from 08-11-2021 *to* 12-11-2021 *and*
completed the training successfully

Place : **Trichy**

Date : 12-11-2021


Assistant General Manager
(Administration)
Office of PGM, BSNL, Trichy.



Projects

Software Development Project by Department of Computer Applications

JAMAL MOHAMED COLLEGE (AUTONOMOUS)
Accredited (3rd Cycle) with 'A' Grade by NAAC
(Affiliated to Bharathidasan University)
TIRUCHIRAPPALLI - 620 020

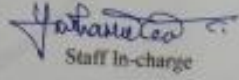
DEPARTMENT OF COMPUTER APPLICATIONS
BACHELOR OF COMPUTER APPLICATIONS
SEMESTER - VI
SOFTWARE DEVELOPMENT LAB
[20UCA6CC16P]

CERTIFICATE

Name : MOHAMED USAITH S-A.

Register Number : 19UCA011

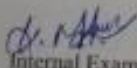
This is to certify that this is a bonafide record of practical work done in the Computer Centre of Jamal Mohamed College, Tiruchirappalli - 20 during the Year 2022 - 2023.



Staff In-charge

Submitted for the B.C.A Practical Examination held at Jamal Mohamed College, Tiruchirappalli - 20, on 28-03-2022

Tiruchirappalli - 20

Date : 28-03-2022


Internal Examiner


External Examiner

**Software Development Lab
Students Attendance Monitoring Systems**

Students Enrolment Form:

STUDENT ENTRY FORM.....

ROLL NUMBER: 21UC4001

STUDENT NAME: ABDULLAH

DOB: 25-01-2000

GENDER: MALE FEMALE

BATCH: 2019-2022

MAJOR: COMPUTER APPLICATIONS

DEGREE: BCA

SAVE HOME

STAFF ENTRY FORM.....

STAFF ID: CS005

STAFF NAME: KAMAL

DOB: 02-01-1982

GENDER: male female

QUALIFICATION: M.Sc., M.Phil.

DEPARTMENT: Computer Science

STREET: SAMADH SCHOOL STREET

SAVE CLEAR

HOME EXIT

Attendance Entry Form:

Attendance Entry Form.....

Staff ID: CA05 Staff Name: []

Batch: 2019-2022 Degree: BCA

Major: COMPUTER APPLICATIONS Semester: []

SEARCH

Roll Number	Name	Morning	Evening
21UC4001	ABDULLAH	P	F
21UC4002	BALAJI	P	F
21UC4003	GOVINDA RAJ	P	F
21UC4004	IRASHIDHEEN	P	F
21UC4005	PEER BASHA	A	A
21UC4006	SHEK ABDULLAH	P	F
21UC4007	MANI	P	F
21UC4008	RAMACHANDRAN	P	A

Department of Chemistry

SOURCE APPORTIONMENT AND SEASONAL VARIATION OF PARTICULATE MATTER (PM_{2.5}) IN A TROPICAL CITY, TIRUCHIRAPPALLI

A dissertation Submitted to
JAMAL MOHAMED COLLEGE (Autonomous)

Affiliated to the
BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI-620 020

In partial fulfilment of the requirements
for the award of the Degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted by
N. Mohamed Asik
Reg No: 20PCH015

Under the guidance of
Dr. M. MOHAMED SIHABUDEEN



Since 1951

PG & RESEARCH DEPARTMENT OF CHEMISTRY
JAMAL MOHAMED COLLEGE (Autonomous)

College with Potential for Excellence
Accredited (3rd Cycle) with 'A' Grade by NAAC
DBT Star College Scheme & DST-FIST Funded
(Affiliated to Bharathidasan University)
Tiruchirappalli- 620 020

May - 2022

**ASSESSMENT OF SOURCE APPORTIONMENT FINE
PARTICULATE MATTER (PM_{2.5}) OBSERVATIONS AT URBAN
TIRUCHIRAPPALLI DISTRICT**

A dissertation Submitted to
JAMAL MOHAMED COLLEGE (Autonomous)

Affiliated to the
BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI-620 020

*In partial fulfilment of the requirements
for the award of the Degree of*

MASTER OF SCIENCE IN CHEMISTRY

Submitted by
Stephen Baskar S
Reg No: 20PCH057

Under the guidance of
Dr. A. Asrar Ahamed



Since 1951

**PG & RESEARCH DEPARTMENT OF CHEMISTRY
JAMAL MOHAMED COLLEGE (Autonomous)**

College with Potential for Excellence
Accredited (3rd Cycle) with 'A' Grade by NAAC
DBT Star College Scheme & DST-FIST Funded
(Affiliated to Bharathidasan University)
Tiruchirappalli- 620 020

May - 2022

INVESTIGATION OF FOAMING CAPACITIES OF DIFFERENT SOAP

DBT Star College Scheme Under Graduate Group Project

Submitted by

Name	Register Number
ABDUL BASITH	18UCH001
M. ABUBAKAR SIDDIQ	18UCH002
AHAMED HUSSEIN V.O.G.	18UCH003
AHAMED IJAZ	18UCH004
M. AHAMED SHERIFF	18UCH005

Under the support and guidance of

Dr. M. Mohamed Sihabudeen

Associate Professor & Head
Department of Chemistry

Interdepartmental Project

Submitted to



Since 1951

JAMAL MOHAMED COLLEGE (*AUTONOMOUS*)

College with potential for Excellence
Accredited (3rd Cycle) with 'A' Grade by NAAC
DBT Star College Scheme & DST-FIST Funded
(Affiliated to Bharathidasan University)

TIRUCHIRAPPALLI – 620 020

March – 2021

ESTIMATION OF ESSENTIAL OIL CONTENT IN CITRUS PEEL

DBT Star College Scheme Under Graduate Group Project

Submitted by

Name	Register Number
L. IBRAHIM MARAKAYAR	18UCH022
M. ISMAIL ANAS	18UCH023
T. JAWAKAR SRINATH	18UCH024
R. KANNAN	18UCH025
K. KEERTHIVASAN	18UCH026
S. KISHORE	18UCH027

Under the support and guidance of

Dr. J. SIRAJUDEEN, M.Sc, M.Phil, B.Ed

Assistant Professor

PG and Research Department of Chemistry

Submitted to



Since 1951

JAMAL MOHAMED COLLEGE (AUTONOMOUS)

College with potential for Excellence
Accredited (3rd Cycle) with 'A' Grade by NAAC
DBT Star College Scheme & DST-FIST Funded
(Affiliated to Bharathidasan University)

TIRUCHIRAPPALLI – 620 020

March – 2021

Department of Microbiology

1.

**National Repository for Microalgae and Cyanobacteria – Freshwater**
(Sponsored by DBT, Govt. of India)
Department of Microbiology
Bharathidasan University, Tiruchirappalli - 620024
Tamil Nadu, India


Certificate

This is to certify that **Ms.A.Aimas Banu**, II-M.Sc Microbiology, Department of Microbiology, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620020, has underwent a training on morphological identification, isolation and culturing techniques of Microalgae and Cyanobacteria. She also got trained in Microscope Handling, DNA isolation, Agarose Gel Electrophoresis and instrumentation techniques (PCR, FT-IR GC, AAS, Ultrasonicator & Lyophilizer) during October 2021 to December 2021 as Internship Trainee at National Repository for Microalgae and Cyanobacteria–Freshwater (Sponsored by DBT, Govt. of India), Department of Microbiology, Bharathidasan University, Tiruchirappalli- 620024, Tamil Nadu, India.


Dr. N. THAJUDDIN
Professor, Department of Microbiology
Chair, School of Life Sciences
Principal Investigator
National Repository for Microalgae and Cyanobacteria – Freshwater
(Sponsored by DBT, Govt. of India)
Bharathidasan University, Tiruchirappalli- 620024, Tamil Nadu, India

Date: 03rd January 2022

2.

**National Repository for Microalgae and Cyanobacteria – Freshwater**
(Sponsored by DBT, Govt. of India)
Department of Microbiology
Bharathidasan University, Tiruchirappalli - 620024
Tamil Nadu, India


Certificate

This is to certify that **Ms.K.Annalakshmi**, II-M.Sc Microbiology, Department of Microbiology, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620020, has underwent a training on morphological identification, isolation and culturing techniques of Microalgae and Cyanobacteria. She also got trained in Microscope Handling, DNA isolation, Agarose Gel Electrophoresis and instrumentation techniques (PCR, FT-IR GC, AAS, Ultrasonicator & Lyophilizer) during October 2021 to December 2021 as Internship Trainee at National Repository for Microalgae and Cyanobacteria–Freshwater (Sponsored by DBT, Govt. of India), Department of Microbiology, Bharathidasan University, Tiruchirappalli- 620024, Tamil Nadu, India.


Dr. N. THAJUDDIN
Professor, Department of Microbiology
Chair, School of Life Sciences
Principal Investigator
National Repository for Microalgae and Cyanobacteria – Freshwater
(Sponsored by DBT, Govt. of India)
Bharathidasan University, Tiruchirappalli- 620024, Tamil Nadu, India

Date: 03rd January 2022

Department of Botany

Dr.S.R.Sivakumar, M.Sc., M.Phil., Ph.D.,

Assistant Professor, Department of Botany
Bharathidasan University, Trichy-24, Tamilnadu, India



BONAFIDE CERTIFICATE

This is to certify that the dissertation entitled "**Isolation and Characterization of Bacteria from Holdfast of *Sargassum wightii* Greville**" submitted to the Bharathidasan University, is a record of original research work done by **Mr. S. Nazeer Ahamed (Roll No: 19PS19701)**, M.Sc Microbiology (II Year), **Jamal Mohamed College (Autonomous), Truchirappalli-620 020**, during January 2021 to March 2021 of his study in the **Department of Botany** under my supervision and guidance in partial fulfillment of the requirements for the award of the degree of **Master of Science in Microbiology**. The research work presented in this dissertation has not formed the basis for the award of any degree/Fellowship to any candidate.


Dr.S.R. SIVAKUMAR

(Research Supervisor)



BHARATHIDASAN UNIVERSITY


Department of Animal Science
School of Life Sciences
Palkalaiperur, Tiruchirappalli - 620024
Tamilnadu, India.

Dr. R. THIRUMURUGAN
Professor

24.02.2021

CERTIFICATE OF INTERNSHIP

This is to certify that **Mr. Arjunraj. A, III year, B.Sc., Zoology** student from Jamal Mohammed College, Tiruchirappalli - 620020 has successfully completed three days internship under **DBT-STAR College Scheme** from 22.02.2021 to 24.02.2021 in the Department of Animal Science, Bharathidasan University, Tiruchirappalli - 620 024. During this period he learned the basic Techniques of Animal Cell Culture, Animal Handling, Assessment of Estrous Cyclicity and Fish feed preparation, Antimicrobial peptides from fish skin mucus and Nanoparticle toxicity in fish.


(R. THIRUMURUGAN)
PROFESSOR AND HEAD
DEPT. OF ANIMAL SCIENCE
BHARATHIDASAN UNIVERSITY
TIRUCHIRAPPALLI - 620 024

Soft Skill

JAMAL MOHAMED COLLEGE
(AUTONOMOUS)
Tiruchirappalli - 620 020
SOFT SKILLS DEVELOPMENT
STUDENT'S WORKBOOK

Declaration

I, I. RAJENTHIRA PRASATH of
B.Sc. CHEMISTRY with register number 21VCH044
declare that the contents of the work submitted for the external assessment of
Soft skills development course are my original work.

I. Raj 01/01/22
Signature of the student with date

I, Dr. ZAHIR MUSSAIN the faculty of soft skills development,
ensure that the work submitted by the student is only meant for his/her personal
development. No part of this work is revealed without the consent of the student
and all confidentiality is maintained.

Place: _____
Date: _____
Ashique
Signature of the Staff Incharge

UNIT-1 COMMUNICATION SKILLS

Exercise-1 Which place do you like the most and why? (2.5 marks)

- College
- School
- Home
- Any other place

Home

Reason(s):
* A Home is place that gives comfort to everyone. It is because a home is filled with love and life. Much like every lucky person, I also have a home and a loving family. Through my Home essay, I will take you through what my home is like and how much it means to me.

* My home is situated in the city. It is not too big nor small, just the perfect size. My family lives in the home. It comprises of my father, mother, sister and grandparents. We live in our ancestral home so my home is village.

UNIT-2 EMOTIONAL SKILLS

Exercise-5 Read the following situations and Write about your feelings at that moment. (3 Marks)

- a) Imagine that you are in a canteen. Your class teacher comes to the canteen to have a cup of tea with his colleague. You greet your teacher with a smile and say "Good morning sir/madam." Your class teacher does not look at you or respond to your greeting.

* I feel sad because why shouldn't he response to me did I do any worst thing or didn't he know me that I am his student or he didn't noticed me.

- b) Imagine that you are working part-time at a Restaurant as a Server. When you approach a table or two in your restaurant, you notice one of the customers ordering very quickly often looks at his watch and seem to be hurried.

* I consider that person who much hurry and I take his order fastly

UNIT-3 FUNCTIONAL SKILLS

Exercise 9: Imagine a situation where you are going to college by vehicle. Suddenly, middle of nowhere your vehicle tire was punctured; you do have tools for repairing it. Write down the steps to repair the puncture with a real-time photograph. (2.5 marks)

First I considered the traveller and shift them into other vehicle than I enquire puncture repair shop. I take the triangle that to indicate person at work. I saw the tools and put the hydraulic jack on side of the punctured tyre side. Then I unscrew the tyre and take the tyre to the puncture repair shop. After repairing the tyre replace it and screw it or I use the spare tyre and after it I go to the puncture shop.

UNIT-4 INTERPERSONAL SKILLS

Exercise-13 Prepare a business proposal to start your own company. (2.5 marks)

SPECIAL OFFERS

25% - 40% Big Discount

We are Manufacturer of all Printing Gifts Like
Mug, T-Shirt, Key Chain, Photo Covers,
Lod Frames, Cushion, Name Pendant,
Moving Lamps, Magic Mirror, Photo Frame etc.

SPECIAL GIFTS

RDS

☎ : 7639412417
☎ : 6369997117

RAJ DIGITAL STUDIO
& PRINTING PRESS
High Quality Printing Service

25

Exercise-12 You can do any of the social activities alone or in a group and take a photo and paste it here. Example:- Plant tree sampling. (2.5 marks)

