



SRI G.V.G. VISALAKSHI COLLEGE FOR WOMEN

Autonomous & Affiliated to Bharathiar University
Accredited at A+ Grade by NAAC [5th Cycle]
Udumalpet – 642128, Tamil Nadu.

CRITERION II - TEACHING LEARNING AND EVALUATION

2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience

2.3 Teaching - Learning Process

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Experiential Learning		
1.	Internship	1
2.	Laboratory Experience	22
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4.	Industrial/ Institutional Visit	38
5.	Field Visit	46
Participatory Learning		
1	Paper Presentation/Seminar/Workshop	59
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Problem Solving Strategies		
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CRITERION II - TEACHING LEARNING AND EVALUATION

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2.3 Teaching - Learning Process**Internship**



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Udumalpet – 642128, Tamil Nadu.

INTERNSHIP LIST

III-B.Sc (Physics) 2023-2024

List of students attended Internship at Scientific and Industrial Testing and Research Centre (Si'Tarc)

Title : Instrumentation

Register No	Name	Date
21BP0111	ANUSHIYA C	20/11/2023- 25/11/2023
21BP0112	BHARATHI K	20/11/2023- 25/11/2023
21BP0113	BOOMIKA J	20/11/2023- 25/11/2023
21BP0114	DIVYADHARSHINI R	20/11/2023- 25/11/2023
21BP0115	GOGULARANI E	20/11/2023- 25/11/2023
21BP0116	GOMATHI K	20/11/2023- 25/11/2023
21BP0117	KAVITHA N	20/11/2023- 25/11/2023
21BP0118	KIRUTHIKA K	20/11/2023- 25/11/2023
21BP0119	MADHUBALA T	20/11/2023- 25/11/2023
21BP0120	MAHA NAVINYA S	20/11/2023- 25/11/2023
21BP0121	PRIYADHARSHINI R	20/11/2023- 25/11/2023
21BP0122	PRIYAVADHANA K R	20/11/2023- 25/11/2023
21BP0123	RENUGA DEVI M K	20/11/2023- 25/11/2023
21BP0124	RITHANYA K	20/11/2023- 25/11/2023
21BP0125	RUBASREE M	20/11/2023- 25/11/2023
21BP0126	SAJIRA R	20/11/2023- 25/11/2023
21BP0127	SANGAVI K	20/11/2023- 25/11/2023
21BP0128	SANGEETHA S	20/11/2023- 25/11/2023
21BP0129	SHANMUGAPRIYA S	20/11/2023- 25/11/2023
21BP0130	SIVARANJANI R	20/11/2023- 25/11/2023
21BP0132	VANISHREE S	20/11/2023- 25/11/2023

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This is to certify that **Ms. BHARATHI. K 21BP0112**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet
has participated in a training course on
"Instrumentation"
held at Si'Tarc from 20th November 2023 to 25th November 2023.

25th November 2023
COIMBATORE


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This is to certify that **Ms. DIVYADHARSHINI. R 21BP0114**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

has participated in a training course on

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held at Si'Tarc from 20th November 2023 to 25th November 2023.

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This is to certify that **Ms. GOGULARANI. E 21BP0115**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet
has participated in a training course on
"Instrumentation"
held at Si'Tarc from 20th November 2023 to 25th November 2023.

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This is to certify that **Ms. GOMATHI. K 21BP0116**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

has participated in a training course on

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held at Si'Tarc from 20th November 2023 to 25th November 2023.

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This is to certify that **Ms. KAVITHA. N 21BP0117**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

has participated in a training course on

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This is to certify that **Ms. KIRUTHIKA. K 21BP0118**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

has participated in a training course on

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This is to certify that **Ms. MADHUBALA. T 21BP0119**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

has participated in a training course on

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This is to certify that **Ms. MAHA NAVINYA. S 21BP0120**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

has participated in a training course on

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This is to certify that **Ms. PRIYADHARSHINI. R 21BP0121**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

has participated in a training course on

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This is to certify that **Ms. PRIYAVADHANA. K.R. 21BP0122**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

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This is to certify that **Ms. RENUGA DEVI. M.K.** 21BP0123
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

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This is to certify that **Ms. RITHANYA. K.** 21BP0124
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

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This is to certify that **Ms. RUBASREE. M. 21BP0125**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet
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This is to certify that **Ms. SAJIRA. R 21BP0126**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet
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This is to certify that **Ms. SANGAVI. K 21BP0127**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

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This is to certify that **Ms. SANGEETHA. S 21BP0128**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

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This is to certify that **Ms. SHANMUGAPRIYA. S 21BP0129**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

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This is to certify that Ms. SIVARANJANI. R 21BP0130
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

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This is to certify that **Ms. VANISHREE. S 21BP0132**
III B.Sc. Physics, Sri G.V.G. Visalakshi College for Women, Udumalpet

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CRITERION II - TEACHING LEARNING AND EVALUATION

2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience

2.3 Teaching - Learning Process**Laboratory Experience**



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DEPARTMENT OF ZOOLOGY

Organizes a
(Under the DBT Star Status Scheme)

“Workshop on Lab Training on Techniques in Biomolecular Analysis”

Sri G.V.G. Visalakshi College For Women



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An ISO 9001:2015 Certified Institution Udumalpet-642128
www.gvgvc.ac.in; principal@gvgvc.ac.in Ph.04252-223019
Fax: 04252-233111



Department of Zoology

&



Centre for Bioscience and Nanoscience Research
Affiliated to Bharathiar University
ISO 9001: 2015 CERTIFIED
Since 2010

**Jointly Organizes
Under DBT Star Status Scheme**

“Workshop on Techniques in Biomolecular Analysis



Date
22.2.2024
23-02-2024

Time
09:30 am- 4:30 pm

Venue
Zoology Lab
CBNR - Eachanari

Dr.D.Abirami
DBT Co - Ordinator

Dr.S.Kalaichelvi
Head of the Dept.

Dr.N.Lakshmi
Principal i/c

ORGANIZING COMMITTEE

- Dr.K.Manimegalai, Assistant Professor.
- Dr.M.Mohanasundari, Assistant Professor.

Report – Minutes

“Workshop on Lab Training on Techniques in Biomolecular Analysis”

37

Two Days Workshop ON Techniques IN
Biomolecular Analysis.

Date: 22.2.2024 and 23.2.2024.
Venue: Sri G.V.G. Visalakshi College
Department of Zoology Laboratory
22.2.2024.

Venue: Centre for Biomolecular Analysis
Eachanari, Coimbatore.

Resource Person: Dr. R. Raguathan
Director
Centre for Bioscience and Nanoscience
Research, Coimbatore.

Beneficiaries: 46 students + 5 faculties.

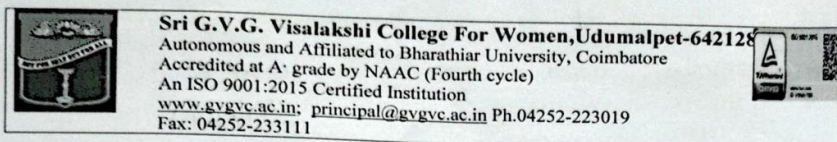
Resource person delivered the
lecture on Biomolecular Analysis. He also
demonstrated the techniques like determination
of glucose content of the given samples,
Separation of plasma, serum and cell from blood.
Colorimetric estimation of glucose from blood,
Isolation of DNA and RNA from an animal
tissue.

Out come:
Students received hands on experience
and learned new techniques in biomolecular
analysis.

Signature of the faculties
K. J. J.
M. Mohanraj

Signature of the DBT co-ordinator Signature of the HOD Signature of the Principal.

List of Beneficiaries
“Workshop on
Lab Training on Techniques in Biomolecular Analysis”



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“Lab Training on Techniques in Biomolecular Analysis”

Department of Zoology – List of Beneficiaries

Date: 22.2.2024 & 23.02.2024

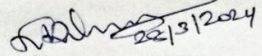
Venue: 1. Zoology Lab

2. CBNR, Eachanari

S. No	Reg.No	Name of the Student	Signature
1.	21BZ0162	G. AARTHI	G. Aarthi
2.	21BZ0163	N. AVILA	N. Avila
3.	21BZ0165	S. BHUVANESWARI	S. Bhuvaneshwari
4.	21BZ0166	P. DHARSHINI	P. Dharshini
5.	21BZ0167	S. DHIVYA	S. Dhivya
6.	21BZ0168	S. DHIVYA MARIYAMMAL	S. Dhivya Mariyammal
7.	21BZ0169	A. JANANY	A. Janany
8.	21BZ0170	S. KALAIVANI	S. Kalavani
9.	21BZ0171	M. KOKILA	M. Kokila
10.	21BZ0172	K. MANIMEKALA	K. Manimekala
11.	21BZ0173	V. NIROJA	V. Niroja
12.	21BZ0174	S. PAVITHNA	S. Pavithna
13.	21BZ0175	M. ROSHIYA	M. Roshiya
14.	21BZ0176	S. SANGEETHA	S. Sangeetha
15.	21BZ0177	M. SARANYA	M. Saranya
16.	21BZ0178	S. SATHYAROOBHA	S. Sathyarobha
17.	21BZ0179	S. SHRILEKHA	S. Shriekha
18.	21BZ0180	G. SIVAPRIYADHARSHINI	G. Sivapriyadharshini

S. No.	Reg.No	Name of the Student	Signature
19.	21BZ0181	K. SUJITHA	Sujitha K
20.	21BZ0183	T. VINOTHA	T. Vinottha
21.	23MZ1791	ASHA FATHIMA. A	Asha fathima A
22.	23MZ1793	DEEKSHITHA.S	Deekshitha.S
23.	23MZ1794	HARSHADA BANU.H	Harshada Banu.H
24.	23MZ1795	KAVIPRABHA .T	Kaviprabha.T
25.	23MZ1796	NIVETHA.S	Nivetha.S
26.	23MZ1798	SAI KIRTHANNA.S.G	Sai Kirthanna.S.G
27.	23MZ1799	SELVARANI A	Selvarani.A
28.	23MZ1800	SHOBANA.M	Shobana.M
29.	23MZ1801	VANI.R	Vani.R.
30.	23MZR1195	PAVITHRA. C	Pavithra.C
31.	22BZ0755	SIVARANJANI. M.	M.S.iva
32.	22BZ0771	ABINANDHANA K	KALI
33.	22BZ0772	ABINAYA V	v. abinaya
34.	22BZ0773	AMUTHA BHARATHI T	Amutha
35.	22BZ0774	ASHIKA ALMAS N	N.Ashika
36.	22BZ0775	DHARANI G	Dharani G
37.	22BZ0776	GOWSALYA V	V. Gowsalya
38.	22BZ0777	KARTHIKA S	Karthika.
39.	22BZ0778	KARTHIKAUDHAYADHARSHINI R	R. Karthika
40.	22BZ0779	KAVIYA B	Kaviya B
41.	22BZ0780	KAVYA G	G. Kavya
42.	22BZ0781	KIRUTHIKA D	Kiruthika D
43.	22BZ0782	KOKILA S	Kokila S
44.	22BZ0783	KOWSALYA DEVI T	T. Kowsalya

45.	22BZ0784	NANDHINI E	Nandhini E
46.	22BZ0786	NIVETHA S	S. Nivetha


Signature of HOD



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“Workshop on Lab on Techniques in Biomolecular Analysis”





Feedback

FEEDBACK

We the students of first Msc zoology Attended the Program. at CBNR, Coimbatore on 23-02-2024. We are able to witness and practice hands on the different techniques of DNA Isolation, plasma serum separation (Human blood), Estimation of Carbohydrate etc. It was very Informative and. Enlightening for us on such techniques. I really thank our department for organizing such a training for us. I thank the DBT Star status Scheme for Supporting.

Asha Fadhima
Sudhakar.S
Kavithra.T
Niveetha.S
Harshada Banu.H.
Sakrati.A
Shobhana.
Pavithra.C.
R.Vani.

Feedback.

Lab Training Center for Bioscience and Nanoscience Research

The CBNR Training is very useful and easily understand the classes. Josteena mam is teaching in clearly understand. The Josteena mam is teaching about is Isolation of DNA from animal tissue, Carbohydrate Estimation, Estimation of glucose, and extra teaching in about Basic lab test are teaching as. The Lab Assistant & Mam are teaching about test of lab. And the Research Ideas are teaching about details. Thank you for CBNR in Prof. Dr. Ragunathan sir, Thank for wonderful Experiences are shared with students.

P. Dharshini
II - Bsc Zoology

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DEPARTMENT OF ZOOLOGY
"Training on Mushroom Cultivation"**Sri G.V.G. Visalakshi College For Women**

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Fax: 04252-233111

**Department of Zoology****Organizes****"Training on Mushroom Cultivation"**
at TNAU, Coimbatore.**Resource Person**
Dr.G.Thiribhuvanamala,
Associate Professor,
Mushroom Cultivation,
TNAU, Coimbatore**Date**
05-09-2023**Venue**
TNAU, Coimbatore**Dr.S.Kalaichelvi**
Head & Associate Professor,
Dept.ofZoology**Dr.N.Rajeswari**
Principal



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"Training on Mushroom Cultivation" Report – Minutes

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TRAINING ON MUSHROOM CULTIVATION

Topic: Training on Mushroom Cultivation
Date: 05.09.2023
Venue: Tamil Nadu Agriculture University, Coimbatore
Beneficiaries: 19 Students and 2 faculty members
Resource Person: Dr. G. Thiribhuvanamala
Associate Professor, Mushroom Unit
Tamil Nadu Agricultural University
Coimbatore.

II B.Sc. Zoology students undergone mushroom cultivation training at plant pathology department, Tamil Nadu Agricultural University, Coimbatore. Resource Person demonstrated the mushroom cultivation techniques like Sterilization of straw, Spore preparation and mixing of straw and spore in plastic bags. Key outcome: Students gained knowledge on mushroom cultivation techniques, - like bed preparation, spore culture and technique to reduce pest infestation by applying neem oil and neem cake extract.

Signature of the HOD

Signature of the Principal

**"Training on Mushroom Cultivation"
List of Beneficiaries**



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An ISO 9001:2015 Certified Institution
www.gvgvc.ac.in; principal@gvgvc.ac.in Ph.04252-223019
Fax: 04252-233111



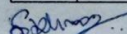
"Training on Mushroom Cultivation"

Department of Zoology – List of Beneficiaries

Date: 05.09.2023

Venue: TNAU, Coimbatore

S. No	Reg.No	Name of the Student	Signature
1.	22BP0755	SIVARANJANI M	Sivaranani .M
2.	22BZ0771	ABINANDHANA K	Katit
3.	22BZ0772	ABINAYA V	V. Bin
4.	22BZ0773	AMUTHA BHARATHI T	Amutha
5.	22BZ0774	ASHIKA ALMAS N	N. Ashika
6.	22BZ0775	DHARANI G	G. Dharani
7.	22BZ0776	GOWSALYA V	V. Ganga
8.	22BZ0777	KARTHIKA S	S. Karthika
9.	22BZ0778	KARTHIKAUDHAYADHARSHINI R	P. Karthikaudhayadharshini
10.	22BZ0779	KAVIYA B	B. Kaviya
11.	22BZ0780	KAVYA G	G. Kavya
12.	22BZ0781	KIRUTHIKA D	D. Kiruthika
13.	22BZ0782	KOKILA S	S. Kokila
14.	22BZ0783	KOWSALYA DEVI T	T. Kowsalya Devi
15.	22BZ0784	NANDHINI E	E. Nandhini
16.	22BZ0785	NANDHINI K	K. Nandhini
17.	22BZ0786	NIVETHA S	S. Nivetha
18.	22BZ0787	PRIYADHARSHINI K	K. Priyadharshini
19.	22BZ0788	SHAKTHI T	T. Shakti


Signature of HOD



GPS Map Camera

P N Pudur, Tamil Nadu, India
2W7P+3XJ, Marudhamalai Rd, Tamil Nadu Agricultural University, P N Pudur,
Coimbatore, Tamil Nadu 641003, India
Lat 11.012879°
Long 76.937232°
05/09/23 04:18 PM GMT +05:30



GPS Map Camera

Coimbatore, Tamil Nadu, India
395, Tamil Nadu Agricultural University, Lawley Rd, Coimbatore, Tamil Nadu 641003,
India
Lat 11.013843°
Long 76.936492°
05/09/23 01:00 PM GMT +05:30





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CRITERION II - TEACHING LEARNING AND EVALUATION

2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience

2.3 Teaching - Learning Process**Industrial/ Institutional Visit**



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Institutional Visit

DEPARTMENT OF PHYSICS

VENUE: KODAIKANAL

DATE: 13.12.2023

Udumalpet
11.12.2023

From

Dr.B.Kavitha
Department DBT Coordinator
Department of Physics
Sri G.V.G.Visalakshi College for Women (Autonomous)
Udumalpet

To

The Principal
Sri G.V.G.Visalakshi College for Women (Autonomous)
Udumalpet

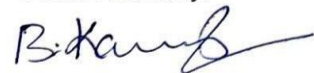
Respected Madam

Sub : Permission for Industrial Visit for B.Sc& M.Sc Physics Students – Reg.

With reference to DBT Star College Scheme (Star Status) grant sanction order No.102/HD/SAN/1591/2023-24 dated on 27.09.2023, Department of Physics is planning for an industrial visit to Kodaikanal Solar Observatory Museum, Kodaikanal on 13th December 2023. I kindly request you to grant permission to take 45 of our students, 2 teachers and 1 Lab Assistant for the same.

Thanking you,

Yours Faithfully,



rx
11.12.23
PRINCIPAL
SRI GVG VISALAKSHI COLLEGE
FOR WOMEN (AUTONOMOUS)
VENKATESA MILLS POST,
UDUMALPET - 642 128





GVG Physics Department <gvgphy07@gmail.com>

Fwd: Reg-Institutional Visit - Approved 08.12.2023 (Friday)

Tue, Dec 12, 2023 at 2:04 PM

kso.outreach <kso.outreach@iiap.res.in>
To: GVG Physics Department <gvgphy07@gmail.com>
Cc: "Sri.P.KUMARAVEL" <kumaravel@iiap.res.in>, KSO museum" <ksomuseum@gmail.com>

Dear Madam,

Greetings to you from Kodaikanal Observatory.

We are happy to inform you that your visit to our observatory has been approved for your requested date.

For one group of visits, one Educational Visit Certificate will be issued.

The entrance ticket is Rs. 50 per head as per institution norms.

Kindly report to the main security gate by 9 AM

For details contact (+91) 4542 240588 / 8277146064

This is the confirmation email. Please bring the printout of this approval for Security Clearance at the main gate and acknowledge the receipt.

Best Wishes,

Dr Chrisphin Karthick

.....
Dr. Chrisphin Karthick, M
Scientist " C " &
Deputy Head of Outreach Section at IIA
Public Outreach In-Charge for Kodaikanal Observatory and Museum
Science Communication Public Outreach and Education
Indian Institute of Astrophysics (IIA)
(An Autonomous Institution under the Department of Science & Technology, Govt. of India)
Mobile: +91 8277146064
.....

----- Original Message -----

Subject: Reg-Institutional Visit

Date: 2023-12-12 12:16

From: GVG Physics Department <gvgphy07@gmail.com>

To: "Sri.P.KUMARAVEL" <kumaravel@iiap.res.in>, Chrisphin Karthick <chrisphin.karthick@iiap.res.in>, KSO
OUTREACH <kso.outreach@iiap.res.in>

Caution: This email originated outside IIA.

Good Afternoon Sir

I am Dr B Kavitha, Assistant Professor of Physics, Sri
G.V.G Visalakshi College for Women, Udumalpet.

We planned to take our students (B.Sc Physics and M.Sc
Physics) to Solar Observatory -Kodaikanal to enrich their knowledge in
the area of AstroPhysics on 08.12.2023 (Friday). But unfortunately, due
to heavy rain we postponed the trip. I also informed the solar
observatory outreach centre.

We planned to visit the Solar Observatory on 13.12.2023 (Wednesday).
Please consider our request and grant us permission for the same.

Report of Institutional Visit

On 13/12/2023, 44, B.Sc Physics students from I, II and III year visited Kodaikanal Solar Observatory, Indian Institute of Astrophysics Kodaikanal. Students had observed the Sun Spots through H-alpha telescope, Full disc imaging. Students viewed colour spectrum through Solar tunnel telescope, viewed Transit Instrument, Coelostat, Tree Rings and Solar cycles and Evershed effect.

A technical staff, Ms. Anitha, gave a lecture about Solar Terrestrial Physics as:

- * Different layers in Sun
- * Photosphere
- * Chromosphere
- * Corona layer
- * Core Region
- * Temperature Variation in Sun
- * Magnetic field in Sun
- * Climatic change in different countries due to Earth rotation.


No of Beneficiaries : 44

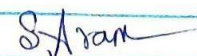
Faculty : 03 [Dr. B. Kavitha, Dr. M. Nirmala & Mrs. S. Bhuvaneshwari

Outcome of the Visit:

Lab Assistant]

- * Students have enriched their knowledge in Astrophysics
- * Received information about Winter/Summer School internships / Training Programme, Project.


Assistant Professor of Physics
Department DBT Co - Ordinator
DBT - Star College Scheme
Sri GVG Visalakshi College for Women
UDUMALPET - 642 128.


Dr. S. Aram, M.Sc., M.Phil., PGDCA., Ph.D.
Associate Professor and Head of the Department
Department of Physics
Sri GVG Visalakshi College for Women
Affiliated and Autonomous to Bharathiyar University
Udumalpet.


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VENKATESA MILLS POST,
UDUMALPET - 642 128

Department of Physics

Industrial Visit to Kodaikanal Solar Observatory Museum, Kodaikanal

Date: 13.12.2023

S.No	Reg No	Name of the student
1	22MP1185	M.I Ayesha Banu
2	22MP1186	V.Iswarya
3	22MP1187	T.Kaleeswari
4	22MP1189	K.Pavithra
5	22MP1190	A.R.Preethi
6	22MP1191	S.Swetha
7	21BP0112	Bharathi.K
8	21BP0113	Boomika. J
9	21BP0114	Divyadharshini. R
10	21BP0115	Gogularani. E
11	21BP0116	Gomathi. K
12	21BP0117	Kavitha.N
13	21BP0118	Kiruthika K
14	21BP0119	Madhubala. T
15	21BP0120	Mahanavinya. S
16	21BP0122	Priyavadhana.K.R
17	21BP0123	Renuga Devi. M.K
18	21BP0124	Rithanya. K
19	21BP0125	Rubasree.M
20	21BP0126	Sajira R
21	21BP0127	Sangavi.K
22	21BP0128	Sangeetha.S
23	21BP0130	Sivaranjani. R
24	21BP0131	Vanishree. S
25	22BP0748	Darani S
26	22BP0749	Kiruthika M
27	22BP0750	Malarkodi A
28	22BP0751	Nithya Dharshini T I
29	22BP0752	Pandi Dharshini B G
30	22BP0754	Sangeetha S
31	22BP0756	Suruthi J R
32	22BR1218	Aarthi.S
33	23BP1327	Davulathnisha S
34	23BP1328	Hajirabanu J
35	23BP1329	Harini Devi R
36	23BP1330	Manasadevi M
37	23BP1331	Manoranjitham E

38	23BP1333	Radhalakshmi S
39	23BP1334	Rithinika M
40	23BP1335	Sahaana Banu A
41	23BP1336	Sahana S
42	23BP1337	Salma Mahjabeen S
43	23BP1338	Sangavi.S
44	23BP1339	Subashika M
45	23BP1340	Vaishali R

Total Number of Students: 45

Number of Faculty: Dr.B.Kavitha, Dr.M.Nirmala, Mrs. Bhuvaneshwari



sd
11-12-23

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FOR WOMEN (AUTONOMOUS)
VENKATESA MILLS POST,
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CRITERION II - TEACHING LEARNING AND EVALUATION

2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience

2.3 Teaching - Learning Process**Field Visit**





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DEPARTMENT OF ZOOLOGY
Organizes a
“EDUCATIONAL TOUR”
(Under the DBT Star Status Scheme)




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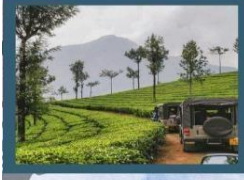

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Udumalpet






75
Azadi Ka
Amrit Mahotsav

Department of Zoology
Under DBT Star Status Scheme
Organises a
EDUCATIONAL TOUR
To
Kerala & Cochin
on
15/03/2024 & 16/03/2024

Dr. D. Abirami
DBT -Co-ordinator

Dr. S. Kalaichelvi
Head Of the Dpt

Dr. N. Lakshmi
Principal i/c

Organizing Committee

Dr. K.Manimegalai



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Report - Minutes

45

Educational Tour.

Date: 15.3.2024 and 16.3.2024.

Venue: Cochin.

Beneficiaries: 36 students + 2 faculties + 2 Lab Assistants

Department of Zoology arranged educational tour to Cochin for two days. Students visited Hill palace. It is an archaeological museum and palace located in Thrissur, Kerala. Kerala state have a rich diversity of species. 285 species of vertebrates are reported to endemic to western ghats. Includes 12 mammals, 16 birds but no species is endemic to Kerala.

Outcome.

Students understood about the species biodiversity, importance of environmental management and conservation of plants and animal. They felt it as a more exiting & fantastic experience.

Signature of the faculties

[Signature]

K. Lefy.

T. Tokent.

[Signature]
Signature of the
DBT coordinator

[Signature]
Signature of the
HOD


[Signature]
Signature of the
principal



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www.gvgvc.ac.in; principal@gvgvc.ac.in Ph.04252-223019
Fax: 04252-233111

Educational Tour

Department of Zoology – List of Beneficiaries

Date: 15.3.2024 & 16.3.2024 Place: Kerala, Cochin

S. No	Reg.No	Name of the Student	Signature
1.	23BZ1367	DHARANI.K	K. Dharoni
2.	23BZ1368	DHARSHINI.K	K.Dharshini
3.	23BZ1369	FATHIMA.H	Fathima H
4.	23BZ1370	GOKILAVANI.P	P.Gokilavani
5.	23BZ1371	HARSATHA.J	J.Harsatha
6.	23BZ1374	PONNARASI.M	M. Ponnarasi
7.	23BZ1377	PRIYADARSHINI.G	G. Priya Darshini
8.	23BZ1379	RAMYA.S	S. Ramya
9.	23BZ1380	SANGAVI.K	K. Sangavi
10.	23BZ1381	SOUNDHARYA.V	V. Soundharya
11.	23BZ1382	SRIPRASANNA.M	M. Sriprasanna
12.	23BZ1383	SUBIKSHA.N	N. Subiksha
13.	22BZ0776	GOWSALYA V	V. Gowsalya
14.	22BZ0778	KARTHIKAUDHAYADHARSHINI R	R. Karthika
15.	22BZ0779	KAVIYA B	B. Kaviya
16.	22BZ0782	KOKILA S	S. Kokila
17.	22BZ0786	NIVETHA S	S. Nivetha
18.	22BZ0793	SURYA R	R. Surya



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S. No.	Reg. Nu	Name of the Student	Signature
19.	21BZ0163	N. AVILA	Avila N
20.	21BZ0165	S. BHUVANESWARI	S. Bhuvaneshwari
21.	21BZ0166	P. DHARSHINI	P. Dharshini
22.	21BZ0167	S. DHIVYA	S. Dhivya
23.	21BZ0168	S. DHIVYA MARIYAMMAL	S. Dhivya Mariammal
24.	21BZ0169	A. JANANY	A. Janany
25.	21BZ0170	S. KALAIVANI	S. Kalavani
26.	21BZ0171	M. KOKILA	Kokila M
27.	21BZ0172	K. MANIMEKALA	K. Manimekala
28.	21BZ0173	V. NIROJA	V. Niroja
29.	21BZ0174	S. PAVITHNA	S. Pavithna
30.	21BZ0175	M. ROSHIYA	M. Roshiya
31.	21BZ0176	S. SANGEETHA	S. Sangeetha
32.	21BZ0179	S. SHRILEKHA	S. Shrelekha
33.	21BZ0180	G. SIVAPRIYADHARSHINI	G. Sivapriyadharsini
34.	21BZ0181	K. SUJITHA	K. Sujitha
35.	21BZ0182	S. THOWLATH	S. Thowlath
36.	21BZ0183	T. VINOTHA	T. Vinotna

Signature of HOD



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GPS Map Camera

Ernakulam, Kerala, India

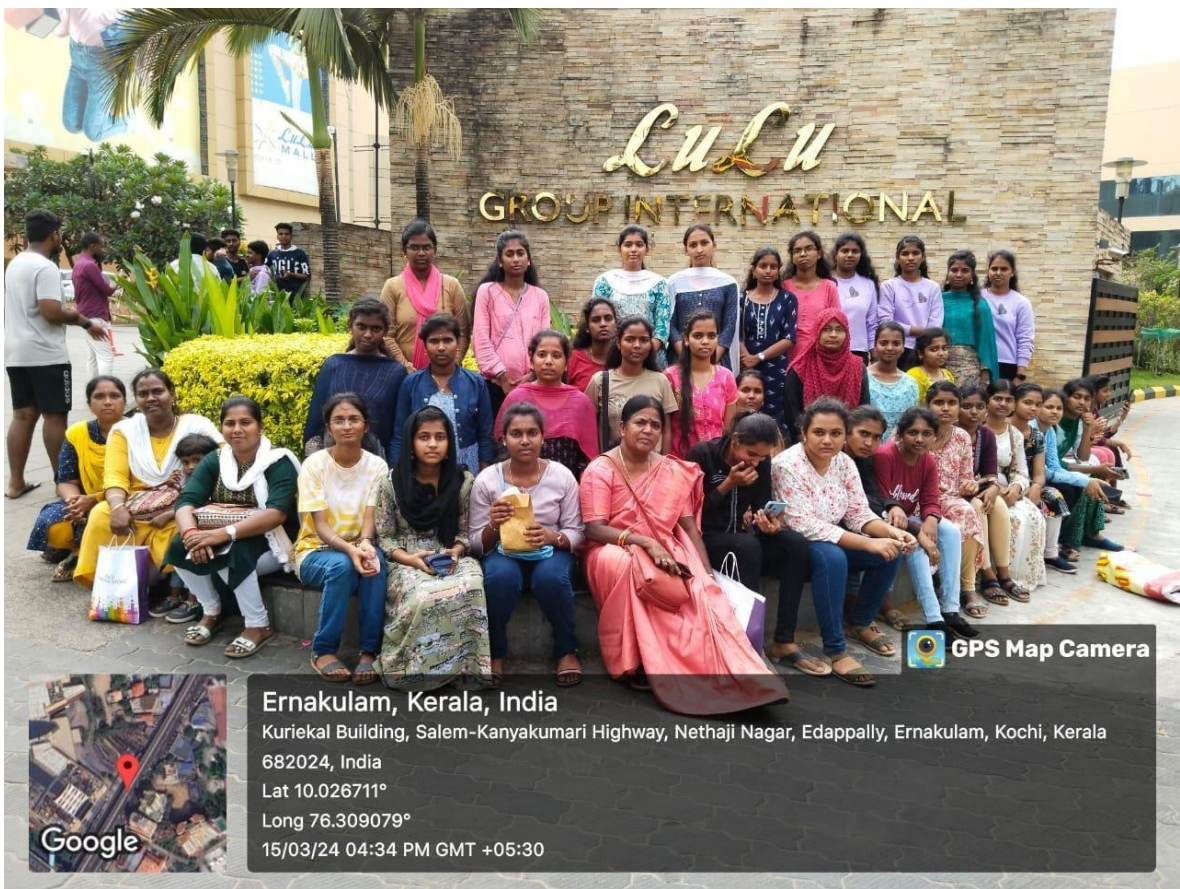
X7MF+JW9, Church St, Marine Drive, Ernakulam, Kochi, Kerala 682031, India

Lat 9.98401°



vivo Y100A

Kaviyabalakrishnan Mar 15, 2024, 20:19





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Department of Economics**FIELD VISIT REPORT****Date 08.09.2023****Place: Kanthaloor**

On 08-09-2023 Friday 57 students & 3 faculties of Economics department visited Kanthaloor related with the curriculum Core II – Agricultural Economics. We saw fruit garden naming “SNOWLINE FRUITSGARDEN” which is situated in high range hill. The fruits such as apple tree, fashion fruit, orange, pomegranate, apricots, guava and plums trees are cultivated and marketed.

Then we went to “MUNIYARA ANAKOTTRAPARA” park, we came to know how DWARF lived in a cave. It’s a beautiful historic place where we saw ancient sages place and had a nice view point too.

At last, we went to Jaggery making unit an agro based industry, “MESSA” Jaggery factory using traditional methods for the preparation of jaggery. We bought original Jaggery from the manufacturing unit with low cost.





Syllabus:

Part III - Core II Agricultural Economics

Course Code: 121E02

Unit I:

Introduction: Agriculture- Meaning- Importance of Agriculture- Special features and problems of Agriculture - Causes for low productivity in agriculture.

Unit II:

Land Utilization in India - Agricultural Holdings – Land Reforms: Sub- division and Fragmentation of Holdings- Effects. Cropping Pattern – Factors influencing Cropping Pattern

Unit III:

Agricultural Inputs - Irrigation – Types. HYV Seeds, Fertilizers and Manures, implements and Machinery. Sources of Agricultural Finance. New Agricultural Strategy and Green Revolution- Effects. A Brief Note on Need for Second Green Revolution

Unit IV:

Post Green Revolution Developments-Contract Farming - Organic Farming – Precision Farming- Sustainable Agriculture-Food Security in India

Unit V:

Agricultural Marketing and Price - Defects of Agricultural Marketing-Measures taken to Improve Agricultural Marketing - Fluctuations in Agricultural Prices- Reasons-Agricultural Price Policy in India- Public Distribution System- Objectives- Defects.

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CRITERION II - TEACHING LEARNING AND EVALUATION

2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience

2.3 Teaching - Learning Process

Paper Presentation/Seminar/Workshop



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Udumalpet-642128

DEPARTMENT OF COMMERCE WITH (E-COMMERCE)

Organises Seminar On **INVESTOR AWARENESS PROGRAM**

Resource Person

MR.FAISAL KHAN

08.02.2024

From 11.00 A.m -12.00 P.M

Through online

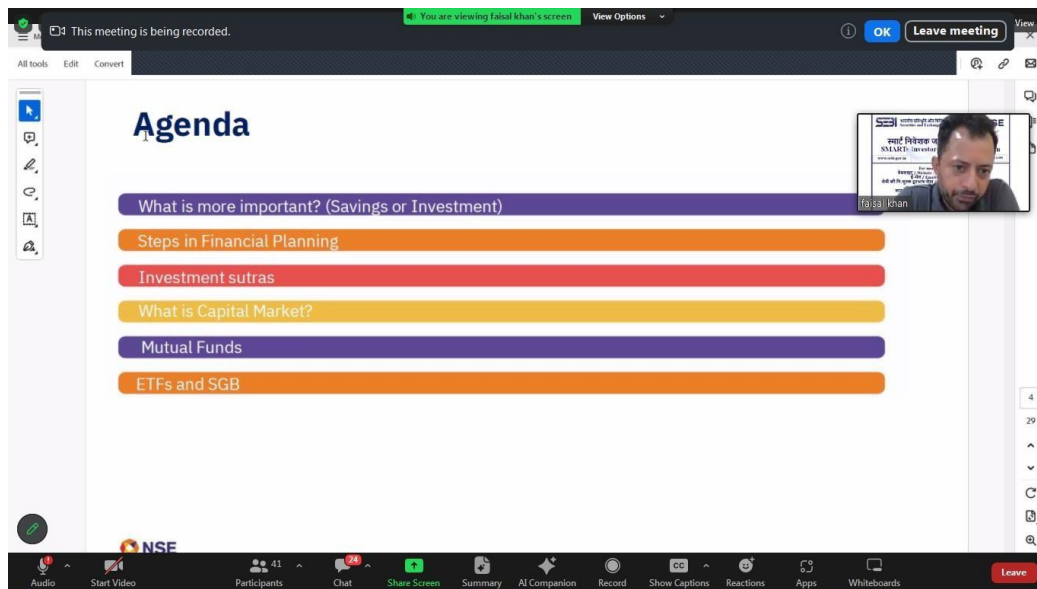
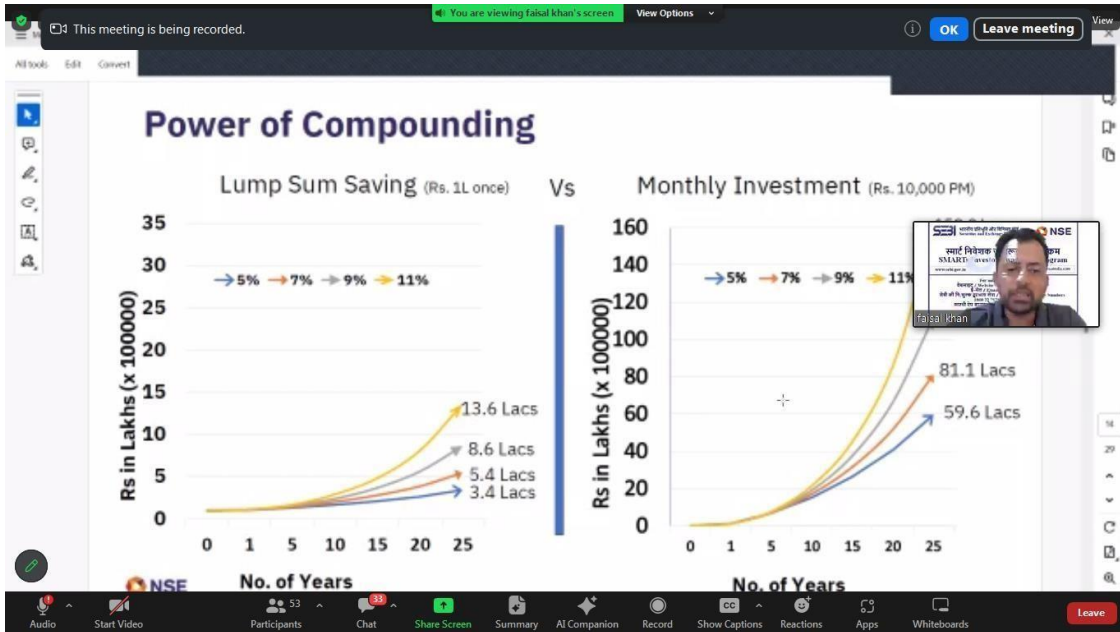
Zoom meeting link:[https:
1/200m.us/meeting/register/tJ
yuceyqrjan_tidekto](https://1/200m.us/meeting/register/tJyuceyqrjan_tidekto)





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CRITERION II - TEACHING LEARNING AND EVALUATION

2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience

2.3 Teaching - Learning Process

Case Study / Report Writing/Article Writing



CASES FROM INDIAN ORGANISATIONS

Case 1: Biggest Buy-out Deal*

Famous for its red Eveready batteries and its 'Gimme Red' advertising campaign, Union Carbide India (UCI) came up for sale in February, 1994. Its American parent, Union Carbide Corporation (UCC) had been trying to get rid of its unwanted child ever since the December 2, 1984 Bhopal tragedy in which 4,000 died and half a million were affected. But the Indian government frozen ownership changes until a compensation package had been hammered out. A compromise was reached a decade later, in January 1994, in which it was agreed that UCC could sell its 50.90 per cent holding in UCI if it used Rs 650 m of the proceeds to build a hospital. Anything UCC could manage to get on top of that, it could keep.

When merchant bankers from the Credit Capital Finance Corporation and the State Bank of India approached him, Khaitan's reaction was lukewarm. Shanti, on the other hand, was as keen as mustard. The boys needed more work, she felt. Aditya was doing well, looking after the tea business, and Sandeep, their son-in-law, was well-settled in Kilburn Reprographic. Deepak, however, needed to buckle down a bit more. In 1994, *Business Standard* had a report on the front page on an imminent split in the group, hinting at a competitive rivalry between the siblings. The report was inaccurate about several facts and B. M. Khaitan (BM) maintained his usual frosty silence when it was published. However, it goaded Shanti into some introspection.

Mad about racing, Deepak was more absorbed in his stable of 300 horses and his stud farm than in his garage of engineering companies. Instead of trying to improve the lacklustre performance of the divisions under 'his' charge, Deepak was always flying off for a day to racing centres like Bangalore, Bombay, or Pune whenever the racecourse at home was closed. "The ecstasy that one experiences while watching one's horse win on home turf is unsurpassable", Deepak was quoted as having said. What about when a company made profits, asked his sensible mother. A big Rs 3 b company like UCI would help pin down Deepak, make him more interested in business, she thought.

To convince her husband, she secretly phoned a man whom she knew BM would have to listen to: Rama Babu.

R.P. Goenka's (RP) opinions carry much weight in the Khaitan household. After the Harrods bomb blast, he was one of the first to reach BM's bedside. When he wanted help for his last-ditch Haldia petrochemicals salvage operation, BM pitched in unblinkingly. Goenka's niece, Yashodra, is Deepak's wife. And Khaitan credits his rehabilitation into Marwari society to Goenka. Their friendship is so well-known that when income tax officials came to visit Goenka in March 1988, news flashed around Calcutta's business community that Khaitan was being interrogated as well. RP caught the first available flight the next morning after Shanti's call came through.

All through the day and deep into the night, Shanti, RP and the boys reasoned with BM, pointing out the pros of acquiring UCI.

Over the past five years, whereas the near-stagnant dry cells market grew by just 1.6 per cent per annum in volume terms, UCI sales had surged by an average of 10 per cent per annum. Its pre-tax profits had grown to Rs 320 m in 1993-94 against Rs 60 m four years earlier. Debt, at Rs 110 m, was a comfortable 13 per cent of its net worth of Rs 840 m, which meant that it had a tremendous borrowing capacity and could easily raise up to Rs 2 b, if necessary. Its fixed assets were substantially undervalued. Most important of all, its strong brand had been carefully shielded from besmirchment by the

* Geeta Piramal: *Business Mahajan*, Viking, 1996, pp. 301-304.



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Bhopal stigma. Lastly, the Khaitans were already in the battery business (Standard Batteries) and this would be a good expansion opportunity. Persuaded by the combined strength of the forces working on him, Khaitan caved in.

At first, it was believed that a controlling interest in UCI would cost Rs 800 m. This was based on a share price of Rs 60. With the criminal liability of the Bhopal tragedy hanging like a sword of Damocles over it, the corporate pariah's share price had languished around Rs 55 through most of 1993-94 on Calcutta's Lyons Range. At Rs 800 m, there were plenty of buyers. In mid-1994, Credit Capital and SBI Caps announced a shortlist of seven: R.P. Goenka, B. M. Khaitan, Nusli Wadia of Bombay Dyeing, T.P.G. Nambiar of the BPL Group, A.C. Muthiah of Spic, K.K. Jajodia of Assam Tea and Arun Bajoria, the jute baron. The scrip began its inevitable climb upwards as speculators started kicking it around. Eventually, Khaitan paid Rs 2.9 b or Rs 175 per share.

Though Goenka's name was first on the list, he was an even less serious contender than Nambiar or Bajoria. K.K. Jajodia, on the other hand, was keen to buy but 'could not put money on the table', says one of the bidders. The race quickly narrowed down to Muthiah, Wadia and Khaitan. Muthiah, often called the Ambani of the south, made a joint bid with Henkel, a German chemical company. They had a vested interest in that UCI was in existing distributor of SPIC's detergent powders and bars. But as the price moved up, the combine withdrew, leaving Khaitan and Wadia to slug it out.

Wadia, a canny battle-scarred samurai, at this point of time was rolling on a high. Bombay Dyeing's March 1994 results were excellent and he had recently swiped Britannia Industries, India's biggest bread and biscuit company, into his group from under the nose of Rajan Pillai, an old friend-turned-foe. In an expansive mood, Wadia wanted to beef up his group, and UCI's strong brands fitted in perfectly with his strategy for the future. To strengthen his bid, Wadia tied up with Ralston Purina, the American transactional which in 1986 had acquired UCC's battery business globally except in India.

Through the spring of 1994, the UCI scrip climbed steadily from Rs 55 to Rs 95 on news of serious bidding, but UCC wanted at least \$70 m (Rs 2.1 b at the then rates) or Rs 125 per share. According to a former UCI executive, this was a more than fair price. Ralston Purina's internal calculations, based on a meticulous due diligence assessment, pegged UCI's market value at Rs 2.5 b. By August 1994, the press was trumpeting that Wadia looked to be the winner, but on September, 9, the State Bank of India announced to several red faces the sale of UCC's Indian battery company to Khaitan.

"Price was the sole determining factor", the UCI executive continued. "The logic behind BM's thinking was quite simple. By any valuation, the price should not have been more than Rs 150. He knew that Wadia was a keen buyer. So he was willing to pay 10-12 per cent more or an extra Rs 25 to make sure of the result." In the event, B.M. Khaitan offered Rs. 2.9 b or Rs 400 m more than Wadia.

At \$ 96.5 m, the sale was the biggest buy-out deal in Indian corporate history. Before this, H.J. Heinz had paid \$ 67.5 m (Rs 2 b) through its local subsidiary for the purchase of Glaxo India's family products division, and Atlant's Coca-Cola Inc. had reportedly paid \$ 60 m (Rs 1.8 b) for Ramesh Chauhan's soft drink brand, Thums Up.

Questions

1. Is buy-out rational? If you were a strategic manager what would you have done?
2. If you were the HR manager, what would have been your role?



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Case 4: Hindustan Chemicals Ltd

The Hindustan Chemicals Ltd (HCL) is a public sector firm engaged in petrochemical business. It employs about 1,600 most of whom are well-qualified, fairly young (average age 32) and typically have an urban background. HCL has retained one reputed consulting and training organization each to impart training in supervisory skills for their junior managers, human resource management programme with emphasis on organization analysis and behaviour modification skills for middle managers and advanced management programmes for senior managers. HCL wanted to train all managerial employees over a period of 12 to 15 months in batches of 20 per month at junior and middle levels and 20 senior managers in once every two months.

IAM, a renowned management institute was assigned the responsibility to cover middle managers.

A couple of months after the start of the training intervention, the top management learnt of a growing tendency on the part of some of the employees on night shift to sleep while on duty. Since it was a tightly manned petro-chemical complex, any negligence or dereliction of duty in certain critical areas could be potentially hazardous and extremely risky. Therefore, the Director (Personnel) and a couple of members of the top management team went around the plant one night, without any prior information to the plant people about their visit. They caught red handed, four persons sleeping on duty, recorded evidence and proceeded with taking steps to initiate disciplinary action the following day. When the charge sheets were being prepared, trade union leaders descended on the scene, persuaded the top management to be lenient, as an exception in this case, to the concerned persons. The union leaders also assured that they would advise their members not to sleep while on duty. In the interest of maintaining good industrial relations, the top management did not pursue the cases.

This gesture on the part of the top management was perceived as a sign of their weakness by the officers' association and its members. They protested to top management whether they (the latter) would be equally considerate in cases involving them (the managers). The workers felt that so long as there is no problem in the plant, management would be considerate enough. With the result, the incidence of sleeping on night duty began to grow. Top management became alarmed. The Personnel Department was asked to advise all line managers, particularly shift in-charges in night duty to keep a vigil on those who have a tendency to sleep and report cases of persons who are found guilty of sleeping on duty. The circular did not register any impact on the middle and junior managers. Instead, they derisively laughed and ignored the circulars. They also felt that "the top management's perception of industrial relations dynamics at the plant is very different from that of junior and middle level managers."

Seeing no improvement in the situation, the top management asked IAM to include a module on Handling Indiscipline with role play sessions on 'How to conduct Domestic Enquiry'. The Programme Coordinator readily agreed to the suggestion because he felt that in doing so he was making it tailor-made to the needs of the organization.

When the module was first offered to the fifth batch of middle managers, the participants wondered why this subject was additionally introduced. They wanted to know why it did not form an


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integral part of the programme from the beginning itself and whether the need for including the topic was felt by their colleagues who attended the programme in the previous batches or by the top management. When they learnt that it was at the latter's instance, they stoutly protested in chorus and said, "We know the importance of Discipline. In fact, with growing violence our physical security is often threatened due to sabotage, violence and vandalism by a handful of unruly elements. Discipline, therefore, is not merely an organization need, but also a personal need for us, whereas for the top management it is a bargainable aspect of shop-floor industrial relations. What we need is not training but proof that top management means what it says. We demand that the top management supports and sustains the actions we initiate in maintaining discipline. We will be able to have confidence in top management if it shows us the way by first initiating actions on the cases they themselves have booked."

Such restiveness affected the receptivity in what was on the agenda in the training schedule for that afternoon. But the trainees became intensely involved the following day when they were doing the organization analysis in small groups. Most participants wondered what happened to the suggestion their predecessors made while presenting the finding of their group discussions on organization analysis before some members of the top management team on the last day of every programme held so far. One participant asked: our colleagues gave their feedback to the top management. We understand the latter agreed on most points. But we see no evidence of follow-up of any kind." A second one argued with the programme coordinator, "Why are you asking us to give vent to our feelings? Do you realize that our top management is merely using you and the other faculty as a buffer?" A third one queried, "You quoted Kurt Lewin on the first day and observed that behaviour is a function of personality and situation. Now tell us whether top management is merely wanting to change our personality but does not want to change the situation. We do not know whether discussion on aspects concerning their personality should remain a taboo since projection will not help us."

Questions

1. Discuss the key issues involved in the case.
2. Identify the lessons for developing training strategies.
3. What remedial measures would you suggest in this case?



Case 5: Workmen's Compensation*

Mr Nandkishore is a workman employed in the despatch department of a cement factory. The factory is located in one of the towns of a politically sensitive state. It employs about 1,500 employees besides the managerial staff. The annual turnover of the company is around Rs 150 crores and its capacity utilisation is 75 per cent.

The factory has three unions besides a security staff association and a management association. For eight years, only one union has been recognized, on the basis of its "claim" that it has the largest following of workmen. Continued recognition of a single union led to strained relations between the two unrecognized unions and the management and also among the unions themselves.

Mr Nandkishore is an office bearer of one of the unrecognized unions. The industrial relations situation in the factory has been fluctuating from periods of harmony to periods of disturbances.

On December 10, 1998, Mr Nandkishore fell down from the ladder, while working during the second shift. The accident resulted in serious injury to his right arm. He was admitted in a government hospital for treatment. An accident report was sent to the commissioner under Workmen's Compensation Act, to determine the amount of compensation, if any, to be paid to Mr Nandkishore for the loss

* IGNOU, MBA, December 1990.



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of any advance to the injured workman for covering medical expenses. It also stated that the above amount may be deducted from the compensation which Mr Nandkishore may get, according to the commissioner's decision. The management paid Rs 3,000 as advance, after obtaining a written undertaking from the union that this amount will be deducted from the compensation payable. The union also agreed to this condition. It also arranged for the release of Rs 2,000 from the Labour Welfare Fund.

The medical officer treating the workman submitted a report in February, 1989. The medical report did not mention any kind of disablement (Full/partial, temporary/permanent) to the workman. The commissioner, after processing the case and studying the report, ruled that the workman, Mr Nandkishore shall be paid only half-monthly wages for these two months against his request for compensation as there was no permanent or partial disablement.

On receipt of this report from the commissioner, the management asked the workman to repay Rs 3,000 given as an advance and requested the union to do the needful in this regard. The union, however, contended that since the accident occurred during and in the course of employment, the management must treat it as ex-gratia payment and that it should not demand its repayment as the money was used for treatment. The management, however, pointed out that at the time of taking advance, both the union and workman had agreed that this amount will be recovered from the compensation payable and since no compensation is payable, the workman should pay back the advance. The management further pointed out that it cannot waive the recovery of the above advance as it is bound by the rules.

The union, however, insisted that management should not proceed on the recovery of advance from the workman. The management also heard rumours that the said union may stage a "show down" over this issue.

Questions

1. What is the problem in the case?
2. Analyse the causes which led to the problem.
3. How should one deal with such a situation?



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Case 6: Major Mohanty of Sunrise Limited*

Major Mohanty, a retired man from army, joined as MD in Sunrise Limited, when the company was passing through a very bad period with declining production and productivity, heavy losses and low morale of the employees. Major Mohanty, after having made indepth, logical and strategic studies of the situation, immediately flagged on what he called 'operation rejuvenation', with exclusive thrust on productivity and production related issues. People related matters are of no consequence for him, for he believed that people, by and large, are dull, lazy, shirkers and non-starters, and as such, work should be extracted from them only through constant watch, close supervision, complete and rigorous command and control. His style of functioning did yield some results, but before any impact could be seen, he abruptly left the organisation, having got a better assignment in United States of America.

Major Mohanty was immediately succeeded by Mr. Soni, a man who made a name for his balanced approach to people and production through participative style of management in his immediate position as the Deputy MD of a large organisation in a similar product line. He was, in fact, commended for his maximum concern for both people and production, and for bringing about an ideal intergration and harmony between the needs of the employees and those of production.

In the present company also, Mr. Soni continued his policies of participative management with equal concern for both production and people. With a view to reviving the company back to health, he

* C.A. Intermediate, May 2002.



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affected some major changes. First of all, he decentralised the organisation so that the subordinates could exercise their discretion and initiative in decision-making, as also their imagination and creativity in performing other managerial functions. Further, he empowered the junior managers to incur expenditure up to an approved limit without seeking prior approval of the higher management. Communication system was also improved to facilitate free flow of upward and downward communication.

Mr. Soni also adopted several measures to reduce costs and wasteful expenditure. He banned donations to charitable institutions, but increased the amount being spent on the welfare activities of the employees.

Will Mr. Soni's managerial style prove effective in ensuring bright future of the company? Some employees are of the view that a lot of things are being done, but they might not be effective in the long run. Others disagreed with them, and said, 'Okay, we will give it a fair trial'.

Questions

- Was Major Mohanty a theory 'X' or a theory 'Y' Manager? Explain with reasons. How do you fit his style of functioning in the 'Managerial Grid' of Blake and Mouton?
- Is Mr. Soni a theory 'X' or a theory 'Y' Manager? Discuss. Will you advise Mr. Soni to change his presumptions about the nature of people at work? Give reasons in support of your advice.
- How do you describe Mr. Soni's managerial style in the light of 'Managerial Grid' of Blake and Mouton? Can it be regarded as the best style of management? Give your response.



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Case 7: Empowering People in the HLL

Keki Bomi Dadiseth leads Hindustan Lever Ltd., the second ranked fastmoving consumer goods company in the country, using empowerment. The application of empowerment in this organization is a response to varied external and internal problems. HLL's traditional rival, Proctor & Gamble, was turning more aggressive. The economic downturn had hurt the sales of all consumer goods. Its home-grown talent pool continued to be the favourite hunting ground for other organizations. The conformity-and orthodoxy-breeding culture which was once its strength was proving to be a weakness as many managers rebelled against the idea of being bound by systems and looked for freer pastures. To overcome these problems, he used empowerment based on his four HRD principles: people like power and responsibility; people have to be inspired, not instructed; people can be induced to solve all problems; outsiders are as important as insiders.

Dadiseth is leading the mega corporation consisting of 10 large businesses (i.e., detergents, personal products, beverages, oil and dairy facts, processed foods, frozen desserts, popular foods, chemicals, fertilizers and animal feed, and exports) by empowerment. Like his principles, the philosophy and skills that he brings to bear on his empowering role are unique. He believes that people operate best as themselves. They cannot operate as people they are not. They must be their own selves as that is their true strength. He himself is strongly driven by his own desire to be himself. With this trait, he provides near complete autonomy to people. Once he has informed people of their goals, he gives them full freedom to use any strategy to accomplish these goals. He equips people with the wherewithal to form a winning team and energizes them to ensure full acceptance of their responsibilities. Although he is very demanding, he believes firmly in making allowances. Anyone is welcome to come through his permanently open door. As he points out: 'Informality changes the way people feel'. His informality changes people's mindsets. He gives people the confidence and freedom to express themselves freely. He interacts a lot and knows the finer art of interpersonal relationships. He keeps communication channels with people constantly and productively open. He believes there is a great deal to be learnt from people at all levels in the organization. This helps him release their energy



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for a common goal. In this way, he ensures that each of the HLL's 35,000 employees works towards the same goals in unison.

The system of empowerment is yielding rich dividends in eight of the company's factories in terms of higher productivity, substantial cost savings and a congenial work climate. As a trade union leader points out: 'There is no supervisor in the factory and the workers themselves are responsible for the quality control on a day-to-day basis.' Marxists love the idea of empowerment. The workers' skill is respected and the increment is based on acquisition of new knowledge. Out of the 37 factories of the company in the country, eight have already adopted empowerment. Efforts are being made to introduce the system in the remaining 29. It is considered easier to use empowerment in greenfield factories.

Empowerment is working successfully in two of the HLL's units in Maharashtra and another two in Gujarat. In West Bengal, another established unit, apart from Dabgram, is soon going to adopt it. Under the existing operation of empowerment, workers decide the manning pattern in the factory on a day-to-day basis and are themselves responsible for the maintenance of the machines. As a senior executive from the head office observes: 'Given the responsibility, workers deliver extremely well. There is no quality control system in these model factories. The workers are periodically taken to depots where they see how poor quality affects the product in the form of rejections from shops. So at the shop-floor they become extra careful with quality'.

Of course, some of the factory managers themselves are against the implementation of such a revolutionary concept. They believe that it curtails their responsibilities. Keki is attempting to overcome the managers' resistance through a process of continuous discussion. It is surprising that the unions are not opposed to this innovative concept. While multi-skilled workers are a potential threat to future employment generation, the message of 'self-preservation' has been built into them. They are delighted. They are their own bosses. Indeed, the workers have realized that in these days of intense competitions cost-cutting is of paramount importance. In West Bengal, the CITU-affiliated union has ensured that the concept of empowerment operates well in Dabgram. As a senior executive from the head office observes: 'The ultimate aim is to implement empowerment in all the units of the company to cut costs and boost productivity.'

Question

1. Go through the case and bring out the salient features of empowering people in the HLL.

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CRITERION II - TEACHING LEARNING AND EVALUATION

2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience

2.3 Teaching - Learning Process**Exhibition**



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DEPARTMENT OF ZOOLOGY

Organizes a

“National Science Day Celebration”

(Under the DBT Star Status Scheme)

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Departments of Physics, Chemistry, Zoology and Mathematics
celebrate



NATIONAL SCIENCE DAY 2024
Indigenous Technologies for Viksit Bharat



DBT STAR STATUS SCHEME



Chief Guest
Dr.Rajendran R,
Associate Professor,
PG & Research Department of Microbiology,
PSG College of Arts & Science, Coimbatore

01.03.2024 10.00 a.m G.V.G. Auditorium

Dr.N.Lakshmi
Principal i/c

Patron
Dr.J.Manjula
Advisor and Director

Organizers
DBT Participating Departments
Physics, Chemistry,
Zoology and Mathematics

Chief Patron
Smt.Sumathi KrishnaPrasad
Secretary







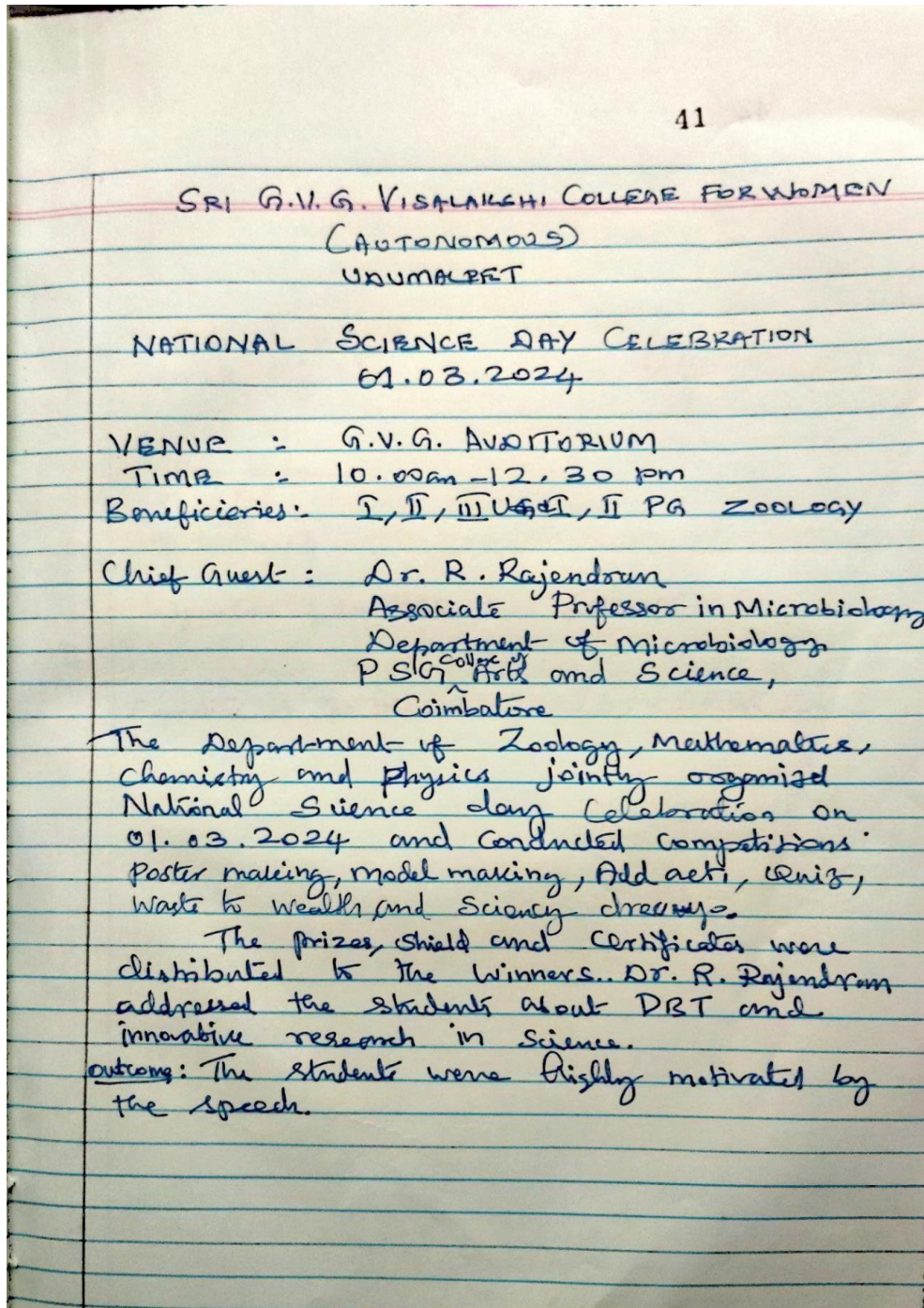
All are cordially invited



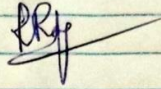
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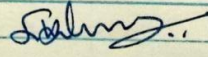
Report - Minutes

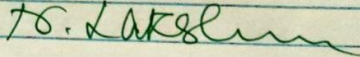


External Expert.
Dr. R. Rajendran



President
K. J. J.
T. Mohan

Signature of the HOD : 

Signature of the Principal : 



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CRITERION II - TEACHING LEARNING AND EVALUATION

2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience

2.3 Teaching - Learning Process**Entrepreneurship Development Course**



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Entrepreneurial Development Programme on Sericulture

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(AUTONOMOUS)**
Affiliated to Bharathiar University
Accredited at A+ Grade by NAAC (4th Cycle)
An ISO 9001:2015 Certified Institution
UDUMALPET

Department of Zoology

**Sericulture Farm and Silver Mine Silk Processors P.Ltd,
Manupatti Post, Udumalpet.**

Date : 18.07.2023

Head of the Department
Dr.S.Kalaichelvi

Principal
Dr.N.Rajeswari

ORGANIZING COMMITTEE

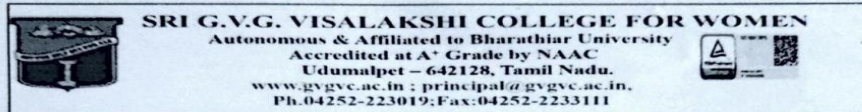
- **Dr.S.Beula Agnes, Assistant Professor.**
- **Dr.K.Manimegalai, Assistant Professor.**



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REPORT SERICULTURE FIELD VISIT



REPORT - Details of Visit

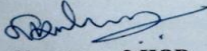
Place of Visit : Sericulture Farm and Silver Mine Silk Processors P.Ltd,
Manupatti Post, Udumalpet.

Total Number of Students :53

Total Number of Staff : 3

Date of Travelling : 18.07.2023

- On 18th July, 2023, Sericulture visit was organized by the Staff members Dr.S.Buela Agnes, Dr.K.Manimegalai and Dr.M.Mohanasundari.
- At 10:00 am students along with Three faculties reached the sericulture farm. There we met Mr. Palanichamy owner of the sericulture farm, gave an information lecture on 'Life cycle of silk moth'.
- Practical exposition of agriculture of this field of mulberry to obtain its leaves, on which silkworm caterpillar feeds.
- Observe the life cycle of *Bombyx mori*-hundreds of eggs were laid on leaves, caterpillar feeding on leaves of mulberry, cocoon collected to extract silk, adults collected in jars.
- Illustrations of equipment used in rearing silkworms.
- Students collected life cycle stages like, eggs, leaves, cocoon etc. Students took cocoons in their hands and excitedly discussed about the formation of cocoons.
- Finally, we thanked them for giving us an opportunity to visit their sericulture farm and Reeling Unit. On the whole, it was very fruitful field trip for the students.


Signature of HOD
Dr.S.Kalaichelvi


Signature of Principal
Dr.N.Rajeswari
PRINCIPAL
SRI GVG VISALAKSHI COLLEGE
FOR WOMEN (AUTONOMOUS)
VENKATESA MILLS POST,
UDUMALPET - 642 128



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Permission Letter

Permission Letter

From
Students of III BSc Zoology,
Sri G.V.G. Visalakshi College for Women,
Udumalpet.

To
The Principal,
Sri G.V.G. Visalakshi College for Women,
Udumalpet.

Respected madam,

As we are going to Mulleriy Garden
and Aquaculture unit visit at Malaiyandi Kowman
near CVR market on 18-07-2023. We are leaving
the campus at 9:30 am and return
back at 12:30 PM. So kindly grant permission
for the same.

Thanking You

17/7/23 (32) members -

S. Sankar
17/7/23
Signature of the HoD

S. Sankar
17.7.2023
Class incharge.

Yours obediently

Saranya K	Parvitha S
Anitha	Sanjatha S
Arvika N	Bhuvaneshwari S
Roshniya M	Roshniya M
Dhanu P	Saranga M
Dhanya S	Sathyarabha S
Dhivyashree S	Shreelaksha S
Jasany A	Shreejyothsna S
Jalini S	Shritha K
Jyoti M	Tharalatha S
Manjusha K	Vinodha T
Niraja V	



SRI G.V.G. VISALAKSHI COLLEGE FOR WOMEN

Autonomous & Affiliated to Bharathiar University

Accredited at A+ Grade by NAAC [5th Cycle]

Udumalpet – 642128, Tamil Nadu.

Permission Letter

From

H. Fathima	Sandhya
J. Harasatha	Pooja
M. Pannarasi	Ranjya
A. Janani	G. Anusena
V. Soundharya	K. Dhanani
M. Sri prasanna	D. Cavasmitra
N. Subiksha	K. Sangani
Dharshini	G. Prityaakshini
Gokilavani	
padma abinami	

I- BSC ZOOLOGY
Sri. G.V.G. Visalakshi college for women,
udumalpet.

To
The principal mam,
Sri. G.V.G. Visalakshi college for women,
udumalpet.

Respected madam
As we are going to mulberry garden and
sericulture unit visit at Malaiyandi Koundarpudhur
near AVR market on 18.07.2023. We are leaving the
campus at 9.30 am and return back at 12.30 am
So kindly grant permission for the same.

Thanking you.

Yours obediently,
H. Fathima
J. Harasatha
M. Pannarasi
S. Padma
V. Soundharya
M. Sri prasanna
N. Subiksha
K. Dharshini
D. Prityaakshini

18/7/23
Signature of the HoD
17/7/2023
K. Jay
17/7/2023



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Udumalpet – 642128, Tamil Nadu.

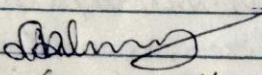
Minutes – Report

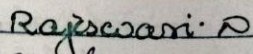
2023

Field Visit To Sericulture

Date : 18.7.2023
 Time : 9.30 AM - 4.00 PM
 Venue : Sericulture Farm and Silver mine Silk Processors Plant
 Manipatti Post, Udumalpet.
 Beneficiaries : 53 Students and 3 faculty members.

BSc Zoology students visited Sericulture farm at manipatti, Udumalpet. Mr. Palanichamy owner of the Sericulture farm gave an lecture on "Life cycle of silk moth". Students got hands on experience about eggs, feeding, larval stages, collection and introduction of adults to spinning nets, collection of cocoons. They also interacted with the farmer and clarified their doubts.


 Signature of the
 HOD


 Signature of the
 Principal



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 Udumalpet – 642128, Tamil Nadu.

List of Beneficiaries - 53

S.No	Reg.No	Name of the Student	Signature
1.	21BZ0162	G. AARTHI	<i>G. Arthi</i>
2.	21BZ0163	N. AVILA	<i>N. Avila</i>
3.	21BZ0164	K. BHARATHI	LONG ABSENT
4.	21BZ0165	S. BHUVANESWARI	<i>S. Bhuvaneshwari</i>
5.	21BZ0166	P. DHARSHINI	<i>P. Dharshini</i>
6.	21BZ0167	S. DHIVYA	<i>S. Dhivya</i>
7.	21BZ0168	S. DHIVYA MARIYAMMAL	<i>S. Dhivya Mariammal</i>
8.	21BZ0169	A. JANANY	<i>A. Janany</i>
9.	21BZ0170	S. KALAIVANI	<i>S. Kalavani</i>
10.	21BZ0171	M. KOKILA	<i>M. Kokila</i>
11.	21BZ0172	K. MANIMEKALA	<i>K. Manimekala</i>
12.	21BZ0173	V. NIROJA	<i>V. Niroja</i>
13.	21BZ0174	S. PAVITHNA	<i>S. Pavithra</i>
14.	21BZ0175	M. ROSHIYA	<i>M. Roshiya</i>
15.	21BZ0176	S. SANGEETHA	<i>S. Sangeetha</i>
16.	21BZ0177	M. SARANYA	<i>M. Saranya</i>
17.	21BZ0178	S. SATHYAROOBHA	<i>S. Sathyaroobha</i>
18.	21BZ0179	S. SRILEKHA	<i>S. Srilekha</i>
19.	21BZ0180	G. SIVAPRIYADHARSHINI	<i>G. Sivapriyadharsini</i>
20.	21BZ0181	K. SUJITHA	<i>K. Sujitha</i>
21.	21BZ0182	S. THOWLATH	<i>S. Thowlath</i>
22.	21BZ0183	T. VINOHA	<i>T. Vinoha</i>
23.	19BZR8309	K.SARANYA	<i>K. Saranya</i>



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Udumalpet – 642128, Tamil Nadu.

24.	22BL0704	P.S.CHANDHINI DEVI	Chandhini
25.	22BL0705	N.HARINI	N. Harini
26.	22BL0713	T.KAVIYA SHREE	T. Kavay
27.	22BL0721	V.NITHYA SHREE	V. Nithya Shree
28.	22BC0758	T.DHARSHINI	T. Dharshini
29.	22BC0761	N.NIRAIMATHI	N. Niraimathi
30.	22BC0768	T.SHRUTI DEVIKA	T. Shru
31.	22BC0768	K.SUBITHA	K. Subitha
32.	22BP0748	S.DARANI	S. Darani
33.	22BA0814	R.K.NITHYA DHARSHINI	R.K. Nithyadharsini
34.	22BA0817	S.PRIYA BHARATHI	S. Priya Bharathi
35.	22BA0818	N.PRIYA DHARSHINI	N. Priyadharsini
36.	22BA0823	M.SARANYA	M. Saranya
37.	22BA0835	J.VINOTHINI	J. Vinothini
38.	22BE0663	S.MATHUMITHA	S. Madhumitha
39.	23BZ1366	DEVASMITA.D	D. Devasmita
40.	23BZ1367	DHARANI.K	K. Dharani
41.	23BZ1368	DHARSHINI.K	K. Dharshini
42.	23BZ1369	FATHIMA.H	H. Fathima
43.	23BZ1370	GOKILAVANI.P	P. Gokilavani
44.	23BZ1371	HARSATHA..J	J. Harsatha
45.	23BZ1372	JANANLA	A. Janani
46.	23BZ1373	PADMAABIRAMIS	S. PadmaBiriam

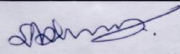
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Udumalpet – 642128, Tamil Nadu.

47.	23BZ1374	PONNARASI. M	M. Ponnarasi
48.	23BZ1375	PRAVEENA.G	G. Praveena
48.	23BZ1377	PRIYAD ARSHINI.G	G. Priyadarshini
50.	23BZ1380	SANGAVI.K	K. Sangavi
51.	23BZ1381	SOUNDHARYA.V	V. Soundharya
52.	23BZ1382	SRIPRASANNA.M	M. Sriprannana.
53.	23BZ1383	SUBIKSHA.N	N. Subiksha


Signature of HAD



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Udumalpet – 642128, Tamil Nadu.

Speech on Silkworm larva and Mulberry leaves by the Farmer Palanichamy.



Students visited Silver Mine Silk Industry



Chandrika uses trained by the Farmer Palanichamy



Students visited Silk thread Manufacturer industry



Feedback from the Students

Feed back - Sericulture

From the collage, they have arranged us to visit for the "Mulberry cultivation". There we have learned many things, which makes us to think and surprise, they also teach us about the "life cycle of silk worm" and the formation. and we also learned that how nutrition is more important for the growth of plants. At last, I want to share that this makes us to think and stimulate to learn more about the "Mulberry cultivation".

From:

Subitha . K

II - B.Sc Chemistry

22BC0769 (NME)

Feed Back (Sericulture)

We thank our management, Head of our Department and faculties who gave us this wonderful opportunity to attend one-day training program about Sericulture in the Sericultural unit. We saw how the silkworms are grown and reared. The process of silk formation was clearly showcased by their staffs. This training gave us a different experience and it was very useful.

By,

Roshniya . M (21BZ0175)

Pavithra . S (21BI0174)

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Udumalpet – 642128, Tamil Nadu.

CRITERION II - TEACHING LEARNING AND EVALUATION

2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience

2.3 Teaching - Learning Process

Project



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Udumalpet – 642128, Tamil Nadu.

Sri G.V.G Visalakshi College For Women

Udumalpet

Department of Physics

Project List -2023-2024

III BSc Physics

Title of the Group Project	Group Size	Name of the Students involved	Name of the Faculty
Green Synthesis and Characterization of Magnesium Oxide Nanoparticles Using Neem and Sesbania at Different Calcinating Temperature (Interdepartmental Project with Botany)	I	K. Gomathi	Dr.S.Aram
		K. Kiruthika	
		T. Madhubala	
		M. Rubashree	
		S. Shanmugapriya	
Preparation of Conductive Polyaniline Nanofibre and its Composites Using Chemical Oxidative Polymerization Method (Interdepartmental Project with Chemistry)	II	J. Boomika	Dr.B.Kavitha
		E. Gogularani	
		R. Priyadharshini	
		R. Sivaranjini	
Construction of Conducting NIO/RGO/PPY Nanocomposite Employing Chemical Oxidative Polymerization Technique (Interdepartmental Project with Chemistry)	III	R. Divyadharshini	Dr.B.Kavitha
		N. Kavitha	
		K. Sangavi	
		S. Sangeetha	
Green Synthesis of Iron Oxide Nanoparticles Using Catharanthusroses Leaves Extract for Bio Medical Applications (Interdepartmental Project with Zoology)	IV	K. Bharathi	Dr.M.Nirmala
		S. Mahanavinya	
		M. K. Renuga Devi	
		R. Sajira	
Synthesis and Characterization of Ni-doped α -Fe ₂ O ₃ Nanoparticles for Magnetic Applications	V	C. Anushiya	Dr.M.Nirmala
		K. R. Priyavadhana	
		K. Rithanya	
		S. Vanishree	

**CONSTRUCTION OF CONDUCTING NIO/RGO/ PPY
NANOCOMPOSITE EMPLOYING CHEMICAL OXIDATIVE
POLYMERIZATION TECHNIQUE**

PROJECT REPORT

Submitted to

Sri GVG Visalakshi College for Women (Autonomous), Udumalpet,
Affiliated to Bharathiar University

In Partial fulfillment of the requirements for the award of Degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

DIVYADHARSHINI R (21BP0114)

KAVITHA N (21BP0117)

SANGAVI K (21BP0127)

SANGEETHA S (21BP0128)

Under the Guidance of

Mrs. Dr.B. KAVITHA M.Sc, Ph.D.,



DEPARTMENT OF PHYSICS

**SRI G.V.G VISALAKSHI COLLEGE FOR WOMEN
(AUTONOMOUS)(ACCREDITED WITH A⁺ GRADE BY NAAC)**

An ISO 9001:2015 Certified Institution

UDUMALPET-642128

OCTOBER -2023

CERTIFICATE

This is to certify that the Project entitled "Construction of Conducting NIO/RGO/PPY Nanocomposite employing chemical oxidative polymerization technique", submitted to Sri G.V.G Visalakshi College for Women (Autonomous), Udumalpet, affiliated to Bharathiar University in partial fulfillment of the requirements for the award of degree of Bachelor Science in Physics is a record of original research work done by Divyadharshini.R, Kavitha.N, Sangavi.K, Sangeetha.S, during the period 2023 - 2024 of her study in the Department of Physics, Sri G.V.G Visalakshi College for Women (Autonomous), Udumalpet, under my supervision and guidance and the dissertation has not formed the basis for the award of any degree/diploma/associateship/fellowship or other similar title to any other candidate of any university.

S. Aram

Head of the Department

Dr. S. Aram, M.Sc., M.Phil., PGDCA., Ph.D.,
Associate Professor and Head of the Department
Department of Physics
Sri GVG Visalakshi College for Women
Affiliated and Autonomous to Bharathiyar University
Udumalpet.

B. Kavitha
Signature of the Guide 26/10/23

Dr. B. KAVITHA M.Sc., M.Phil., Ph.D.
Assistant Professor of Physics
Sri G.V.G. Visalakshi College for Women
Udumalpet - 642 128. Tirupur Dist.

Counter signed

Rajiswari D
Principal

SRI GVG VISALAKSHI COLLEGE
FOR WOMEN (AUTONOMOUS)
VENKATESA MILLS POST,
UDUMALPET - 642 128



Submitted for the viva-voce examination held on 26/10/23..... at Sri GVG Visalakshi College for women, Udumalpet.

Examiners

B. Kavitha
Internal 26/10/23

S. Aram
External 26/10/23

**GREEN SYNTHESIS AND CHARACTERISATION OF MAGNESIUM
OXIDE NANOPARTICLES USING NEEM AND SESDANIA AT DIFFERENT
CALCINATING TEMPERATURE**

PROJECT REPORT

Submitted to

Sri GVG Visalakshi College for Women (Autonomous), Udumalpet

Affiliated To Bharathiar University

In Partial fulfillment of the requirements for the award of Degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

GOMATHI K (21BP0116)

KIRUTHIKAK(21BP0118)

MADHUBALA T (21BP0119)

RUBASREE M (21BP0125)

SHANMUGAPRIYA S (21BP0128)



Under the Guidance of

Mrs. Dr.S. ARAM, M.Sc., B.Ed.,M.Phil.,PGDCA.,

DEPARTMENT OF PHYSICS

SRI G.V.G VISALAKSHI COLLEGE FOR WOMEN (AUTONOMOUS)

(ACCREDITED WITH "A+" GRADE BY NAAC)

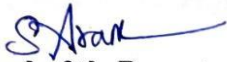
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UDUMALPET-642128

OCTOBER -2023

CERTIFICATE

This is to certify that the Project entitled "Green Synthesis and Characterisation of Magnesium oxide nanoparticles using Neem and Sesbania at different calcinating temperature", submitted to Sri G.V.G Visalakshi College for Women (Autonomous), Udumalpet, affiliated to Bharathiar University in partial fulfillment of the requirements for the award of degree of Bachelor Science in Physics is a record of original research workdone by Gomathi.K, Kiruthika.K, Madhubala.T, Rubasree.M, Shanmugapriya.S, during the period 2023 - 2024 of their study in the Department of Physics, Sri G.V.G Visalakshi College for Women(Autonomous), Udumalpet, under our supervision and guidance and the dissertation has not formed the basis for the award of any degree/diploma/associateship/fellowship or other similar title to any other candidate of any university.



Head of the Department

Dr. S. Aram, M.Sc., M.Phil., PGDCA., Ph.D.,
Associate Professor and Head of the Department
Department of Physics
Sri GVG Visalakshi College for Women
Affiliated and Autonomous to Bharathiyar University
Udumalpet.



Signature of the.

Dr. S. Aram, M.Sc., M.Phil., PGDCA., Ph.D.,
Associate Professor and Head of the Department
Department of Physics
Sri GVG Visalakshi College for Women
Affiliated and Autonomous to Bharathiyar University
Udumalpet.

Counter signed



PRINCIPAL

SRI GVG VISALAKSHI COLLEGE
FOR WOMEN (AUTONOMOUS)
VENKATESA MILLS POST,
UDUMALPET - 642 128



Submitted for the viva-voce examination held on 26/10/23..... at Sri GVG Visalakshi College for women, Udumalpet.

Examiners



Internal


26/10/23

External

**Synthesis and Characterization of Ni-Doped α -Fe₂O₃ Nanoparticles
for Magnetic Applications**

PROJECT REPORT

Submitted to

Sri GVG Visalakshi College for Women (Autonomous), Udumalpet,
Affiliated To Bharathiar University

In Partial fulfillment of the requirements for the award of Degree of
Bachelor of Science in Physics

Submitted by

C.ANUSHIYA (21BP0111)

K.R.PRIYAVADHANA (21BP0122)

K.RITHANYA (21BP0124)

S.VANISHREE (21BP0132)

Under the Guidance of

Dr.M.NIRMALA



DEPARTMENT OF PHYSICS

SRI G.V.G VISALAKSHI COLLEGE FOR WOMEN (AUTONOMOUS)

(ACCREDITED WITH 'A+' GRADE BY NAAC)

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UDUMALPET- 642 128

OCTOBER - 2023

CERTIFICATE

This is to certify that the Project entitled “Synthesis and Characterization of Ni-Doped α -Fe₂O₃ Nanoparticles for Magnetic Applications”, submitted to Sri G.V.G Visalakshi College for Women (Autonomous), Udumalpet, affiliated to Bharathiar University in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Physics** is a record of original research work done by ANUSHIYA.C (21BP0111), PRIYAVADHANA.K.R (21BP1022), RITHANYA.K (21BP0124), VANISHREE.S (21BP0132) during the period 2023 - 2024 of their study in the Department of Physics, Sri G.V.G Visalakshi College for Women (Autonomous), Udumalpet, under my supervision and guidance and the dissertation has not formed the basis for the award of any degree/diploma/associateship/fellowship or other similar title to any other candidate of any university.

S. Aram

Head of the Department

Dr. S. Aram, M.Sc., M.Phil., PGDCA., Ph.D.,
Associate Professor and Head of the Department
Department of Physics
Sri GVG Visalakshi College for Women
Affiliated and Autonomous to Bharathiyar University
Udumalpet.



Counter signed

M. Anand 26/10/2023

Signature of the Guide
Dr. M. NIRMALA M.Sc., M.Phil., Ph.D.
Assistant Professor of Physics
Sri G.V.G. Visalakshi College for Women
Udumalpet - 642 128, Tirupur Dist.

~~PRINCIPAL~~
SRI GVG VISALAKSHI COLLEGE
FOR WOMEN (AUTONOMOUS)
VENKATESA N. S. POST.
UDUMALPET - 642 128

Submitted for the viva-voce examination on 26/10/2023 at Sri GVG Visalakshi for women, Udumalpet.

Examiners

M. Anand 26/10/2023
Internal

S. Aram 26/10/23
External

**PREPARATION OF CONDUCTIVE POLYANILINE NANO-FIBER AND IT'S
COMPOSITES USING CHEMICAL OXIDATIVE POLYMERIZATION
METHOD**

PROJECT REPORT

Submitted to

Sri GVG Visalakshi College for Women (Autonomous), Udumalpet,

Affiliated To Bharathiar University

In Partial fulfillment of the requirements for the award of Degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

BOOMIKA J (21BP0113)

GOGULARANI E (21BP0115)

PRIYADHARSHINI R (21BP0121)

SIVARANJINI R (21BP0130)

Under the Guidance of



Mrs. Dr.B. KAVITHA M.Sc, Ph.D.,

**DEPARTMENT OF PHYSICS
SRI G.V.G VISALAKSHI COLLEGE FOR WOMEN (AUTONOMOUS)
(ACCREDITED WITH „A+ GRADE BY NAAC)**

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UDUMALPET- 642128

OCTOBER 2023

CERTIFICATE

This is to certify that the Project entitled "Preparation of conductive Polyaniline nano-fiber and it's composite using chemical oxidative polymerization method ", submitted to **Sri G.V.G Visalakshi College for Women (Autonomous), Udumalpet**, affiliated to Bharathiar University in partial fulfillment of the requirements for the award of degree of **Bachelor of Science in Physics** is a record of original research work done by Boomika .J, Gogularani .E ,Priyadharshini .R ,Sivaranjani .R, during the period 2023 - 2024 of her study in the **Department of Physics, Sri G.V.G Visalakshi College for Women (Autonomous), Udumalpet**, under my supervision and guidance and the dissertation has not formed the basis for the award of any degree/diploma/assciateship/fellowship or other similar title to any other candidate of any university.

S. Aram

Head of the Department

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Associate Professor and Head of the Department
Department of Physics
Sri GVG Visalakshi College for Women
Affiliated and Autonomous to Bharathiyar University
Udumalpet.

Counter signed

B. Kavitha 26/10/2023
Signature of the Guide

Dr. B.KAVITHA M.Sc., M.Phil., Ph.D
Assistant Professor of Physics
Sri G.V.G. Visalaksni College for Women,
Udumalpet - 642 128. Tirupur Dist.

Rajiswari D
Principal
PRINCIPAL

**SRI GVG VISALAKSHI COLLEGE
FOR WOMEN (AUTONOMOUS)
VENKATESA MILLS POST,
UDUMALPET - 642 128**



Submitted for the viva-voce examination held on *26/10/23* at Sri GVG Visalakshi college for women, Udumalpet.

Examiners

B. Kavitha
Internal *26/10/23*

B. Kavitha
External *26/10/23*

**Green Synthesis of Iron Oxide Nanoparticles Using Catharanthus
Roseus Leaves Extract for Biomedical applications**

GROUP PROJECT REPORT

Submitted to

Sri GVG Visalakshi College for Women (Autonomous), Udumalpet,
Affiliated To Bharathiar University

In Partial fulfillment of the requirements for the award of Degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

K.BHARATHI (21BP0112)

S.MAHA NAVINYA (21BP0120)

M.K.RENUGA DEVI (21BP0123)

R.SAJIRA (21BP0126)

Under the Guidance of

Dr.M. NIRMALA



DEPARTMENT OF PHYSICS

SRI G.V.G VISALAKSHI COLLEGE FOR WOMEN (AUTONOMOUS)

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An ISO 9001:2015 Certified Institution

UDUMALPET- 642 128

OCTOBER - 2023

CERTIFICATE

CERTIFICATE

This is to certify that the Project entitled "Green synthesis of iron oxide nanoparticles using Catharanthus roseus.", submitted to Sri G.V.G Visalakshi College for Women (Autonomous), Udumalpet, affiliated to Bharathiar University in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE IN PHYSICS is a record of original research work done by K.Bharathi (21BP0112), S.Mahanavinya (21BP0120), M.K.Renugadevi (21BP0123), R.Sajira (21BP0126), during the period 2023 - 2024 of their study in the Department of Physics, Sri G.V.G Visalakshi College for Women (Autonomous), Udumalpet, under my supervision and guidance and the dissertation has not formed the basis for the award of any degree/diploma/associateship/fellowship or other similar title to any other candidate of any university.



Head of the Department

Dr. S. Aram, M.Sc., M.Phil., PGDCA., Ph.D.
Associate Professor and Head of the Department
Department of Physics
Sri GVG Visalakshi College for Women
Affiliated and Autonomous to Bharathiyar University
Udumalpet.



Counter signed

Rajisevarin
Principal

SRI GVG VISALAKSHI COLLEGE
FOR WOMEN (AUTONOMOUS)
UDUMALPET - 642 128



Signature of the Guide
Dr. M. NIRMALA M.Sc., M.Phil., Ph.D.
Assistant Professor of Physics
Sri G.V.G. Visalakshi College for Women
Udumalpet - 642 128. Tirupur Dist.

Submitted for the viva-voce examination on ~~26/10/2023~~ 27/10/23 at Sri GVG Visalakshi for women, Udumalpet.

Examiners



Internal 26/10/2023



External 26/10/23

**SRI G.V.G. VISALAKSHI COLLEGE FOR WOMEN**

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Accredited at A⁺ Grade by NAAC [5th Cycle]
Udumalpet – 642128, Tamil Nadu.

CRITERION II - TEACHING LEARNING AND EVALUATION

2.3.1. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience

2.3 Teaching - Learning Process

Word Building/ Gamification / Puzzle/ Quiz

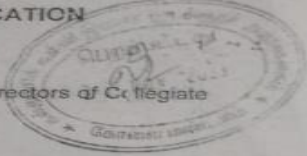


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Accredited at A+ Grade by NAAC [5th Cycle]
Udumalpet – 642128, Tamil Nadu.

DEPARTMENT OF ZOOLOGY World Anti -Microbial Awareness Week Celebration

DIRECTORATE OF COLLEGIATE EDUCATION



From
Dr. (Tmt) G. Geetha,
M.Sc., M.Phil., Ph.D.,
Director of Collegiate Education (FAC),
Directorate of Collegiate Education,
Chennai - 15

To
The Regional Joint Directors of Collegiate
Education,
All Regions.

R.C.No. 43721/M2/2023, Dated: 11.11.2023

Sir/Madam,

Sub: Collegiate Education Department – Public Health and Preventive Medicine – Antimicrobial Resistance (AMR) – World Antimicrobial Awareness Week from 18th – 24th November 2023 – Conduct awareness programmes in Colleges – Regarding.

Ref: Letter No.3465488/Epi/S1/2022, Dated: 16.11.2023 received from office of the Director of Public Health and Preventive, Chennai – 6.

I enclose herewith a copy of the reference cited and I request you to issue necessary instructions to all Government / Government Aided / Self-Finance Colleges under your jurisdiction and also I request you to send on action taken report in this regarding.

G. Geetha
Director of Collegiate Education (FAC)

Encl: As above

Copy to:
The Director,
Office of the Director of Public Health and Preventive Medicine,
Chennai – 600 006.

18/11/23



SRI G.V.G VISALAKSHI COLLEGE FOR WOMEN
Autonomous Affiliated to Bharathiar University
An ISO 9001-2015 Certified Institution
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DEPARTMENT OF ZOOLOGY

PROGRAM ON World Antimicrobial Awareness Week (WAAW) Celebration

ON : 07.12.2023

VENUE: DEPT. OF ZOOLOGY

World Antimicrobial Awareness week Celebration Report

As per JD Office communication, the World Antimicrobial Awareness Week was celebrated by Department of Zoology under DBT Star status scheme. Dr.S.Kalaichelvi, Associate Professor, Head of the Department, gave the welcome address regarding the awareness on diseases and resistance of Microorganisms. The various competitions like oral presentation, poster presentation, Essay writing and Drawing Competitions were conducted to UG & PG Zoology Students. Based on their performance the winners were selected apparently for first three places and the prizes and participation certificates were distributed by the head of the department. Eventually Dr.D.Abirami, Assistant Professor of Zoology gave vote of thanks to conclude the program.

PROGRAM CONTENT

Welcome Address	Dr.S.Kalaichelvi
Poster Session	II PG Students
Oral Presentation	I PG Students
Essay Writing Competition	III and II UG Students
Drawing Competition	I UG Students

WELCOME ADDRESS



Dr.S.Kalaichelvi

(Associate professor & Head of the Department)

I.B.SC. ZOOLOGY

Drawing Competition Participants

S.NO	REG.NO	STUDENT NAME
1.	23BZ1366	Devasmitha.D
2.	23BZ1368	Dharshini.K
3.	23BZ1369	Fathima.H
4.	23BZ1370	Gokilavani.P
5.	23BZ1371	Harsatha.J
6.	23BZ1374	Ponnarasi.M

Drawing competition





II B.SC ZOOLOGY; Essay writing Participants

S.NO	REG.NO.	STUDENT NAME
1.	22BZ1206	Jayasri.S
2.	22BZ0772	Abinaya.V
3.	22BZ0774	Ashika almas.N
4.	22BZ0778	Karthikaudhayadharshini.R
5.	22BZ0779	Kaviya.B
6.	22BZ0780	Kavya.G
7.	22BZ0786	Nivetha.S

III B.SC ZOOLOGY; Essay writing Participants

S.NO	REG.NO.	STUDENT NAME
1.	21BZ0162	Aarthi.G
2.	21BZ0163	Avila.N
3.	21BZ0165	Bhuvaneshwari.S
4.	21BZ0166	Dharshini.P
5.	21BZ0167	Dhivya.S
6.	21BZ0168	Dhivyamariyammal.S
7.	21BZ0169	Janany.A
8.	21BZ0170	Kalaivani.S
9.	21BZ0171	Kokila.M
10.	21BZ0172	Manimekela
11.	21BZ0173	Niroja.V
12.	21BZ0174	Pavithra.S
13.	21BZ0175	Roshiya.M
14.	21BZ0176	Sangeetha.S
15.	21BZ0177	Saranya.M
16.	21BZ0178	Sathya Roobha.S
17.	21BZ0179	Shrilekha.S
18.	21BZ0180	Sivapriyadharshini.G

19.	21BZ0181	Sujitha.K
20.	21BZ0182	Thowlath.S
21.	21BZ0183	Vinotha.T
22.	21BZR830	Saranya.K

Essay Writing Competition



Antimicrobial Awareness - Handle with care

Introduction:
Antimicrobials have revolutionized modern medicine by effectively combating a wide array of harmful microorganisms. These substances, including antibiotics, antifungals, and antivirals, have transformed the treatment of infectious diseases and saved countless lives. This essay will explore the importance of responsible antimicrobial use, emphasizing the significance of combating these drug-resistant organisms and mitigating the growing threat of antimicrobial resistance.

Definition and significance of antimicrobials:
Antimicrobials encompass a range of substances specifically designed to target and kill fungi, microorganisms such as bacteria, viruses and fungi. These drugs have played a crucial role in curbing and eradicating various disease outbreaks, paving the way for significant advancements in medicine and public health. However, the increasing prevalence of antimicrobial resistance poses a significant challenge to the efficacy of these drugs, causing and consequences of antimicrobial resistance.

World Antimicrobial Awareness Week

Topic: Antimicrobial - Handle With Care

World Antimicrobial Awareness Week (WAAW) aims to increase awareness of global antimicrobial resistance (AMR) and to encourage local, national and international public health workers and policy makers to avoid the further emergence and spread of drug-resistant infections.

Antimicrobial resistance (AMR) occurs when bacteria, viruses, fungi and parasites resist the effects of medications, making common infections harder to treat and increasing the risk of disease spread, severe illness and death.

Antimicrobial:
Antimicrobial are agents that are critical tools for fighting disease in humans, animals and plants and include antibiotics, antifungal, antifungal and

Antimicrobials - handle with care

* Introduction
* National Authorities
- Animal Health
- Plant Health
- Environment
- Food Production
- Human Health
- Food Safety
- Conclusion

* Introduction:
Antimicrobials including antibiotics, antifungal and fungals & antivirals are medicines used to prevent and treat infectious diseases in human, animals & plants.

* National Authorities:
- Animal Health
- Food Safety & Veterinary Products (FSVP) Authority
- Food & Veterinary Products Authority
- Food & Drug Administration (FDA)
- European Medicines Agency (EMA)
- Health Canada
- The United States Food & Drug Administration (FDA)
- The European Medicines Agency (EMA)
- The World Health Organization (WHO)

World antimicrobial awareness week

Collaboration - 2022

C.B. KAVIYA
II - BSC - Zoology
Cut Essay Writing Competition
Oct 12, 2023

III. FREEZE A. Sujatha III - BSC Zoology

Antimicrobial - handle with care

Introduction:
A antimicrobial is an agent that kills microorganisms and stop their growth. Antimicrobials can be grouped according to the microorganisms they are primarily against. For example, the antimicrobial are used against bacteria, fungi, viruses and against the microorganisms.

Microorganisms caused by a disease:
The use of antimicrobial to treat infection. It is known as antimicrobial chemotherapy.

The use of micro-organisms to prevent infection that is known as antimicrobial prophylaxis. These main phase of antimicrobial is included.

II. FREEZE Parvitha B III - BSC Zoology

Antimicrobial - Handle with care

Microbes:
Microbes are minute and can be seen only under the microscope. They are very small organisms, some of the microbes are bacteria, virus, protozoa, fungi, etc. They are present everywhere in the world and they are omnipresent. They are present in air, water, soil, etc. Microbes can be harmful as well as harmless.

Antimicrobial agents:
Antimicrobial agents are the one which stops or inhibits the development, growth and destroy the microbes like bacteria, fungi, virus. The antimicrobial agents preventing the spread or development of certain microbes present in the environment.

I - FREEZE

ANTIMICROBIALS - HANDLE WITH CARE

INTRODUCTION:
Antimicrobials are the agents used to treat the diseases caused by the microbes / microorganisms. The antimicrobials is written with a slogan - Handle with care. The theme of the Antimicrobial Awareness week of 2022 is 'Preventing Antimicrobial Resistance Together!'

ANTIMICROBIALS:
Antimicrobials are used to kill the disease caused by the microbes or it can be stopped by the antimicrobials.

I M.SC ZOOLOGY

Oral presentation Participants

S.NO.	REG.NO.	STUDENT NAME
1.	23MZ1791	Asha Fathima.A
2.	23MZ1792	Barani.P
3.	23MZ1793	Deekshitha.S
4.	23MZ1794	Harshada Banu.H
5.	23MZ1795	Kaviprabha.T
6.	23MZ1796	Nivetha.S
7.	23MZ1797	Renuga.R
8.	23MZ1798	Sai kirthana.S.G
9.		Pavithra.C
10.	23MZ1801	Vani.R

Oral presentation



II M.SC ZOOLOGY

Poster Presentation Participants

S.NO.	REG.NO.	STUDENT NAME
1.	22MZ1194	Jaya Subha Sneka.B
2.	22MZ1196	Revathy.S
3.	22MZ1197	Sangeetha.V
4.	22MZ1198	Sheela .J



Poster presentation

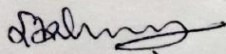


Feed back form

WORLD ANTIMICROBIAL WEEK CELEBRATION

World Antimicrobial week celebration is very useful to us. It creates awareness about the microbes and prevention. They conducted many competition such as essay writing, poster making, oral presentation and debate from this we gained knowledge about microbes and prevention. We like to approach many celebrations in future. This programmes are very informative to us.

By
I Msc students
(zoology)
Harshada Bannu. H
Niretha. S
R. Vani.
C. prabhakar.


HOD
Signature




PRINCIPAL
SRI GVG VISALAKSHI COLLEGE
FOR WOMEN (AUTONOMOUS)
VENKATESWARAL STREET,
UDUMALPET - 642 128



SRI G.V.G. VISALAKSHI COLLEGE FOR WOMEN

Autonomous & Affiliated to Bharathiar University
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Udumalpet – 642128, Tamil Nadu.

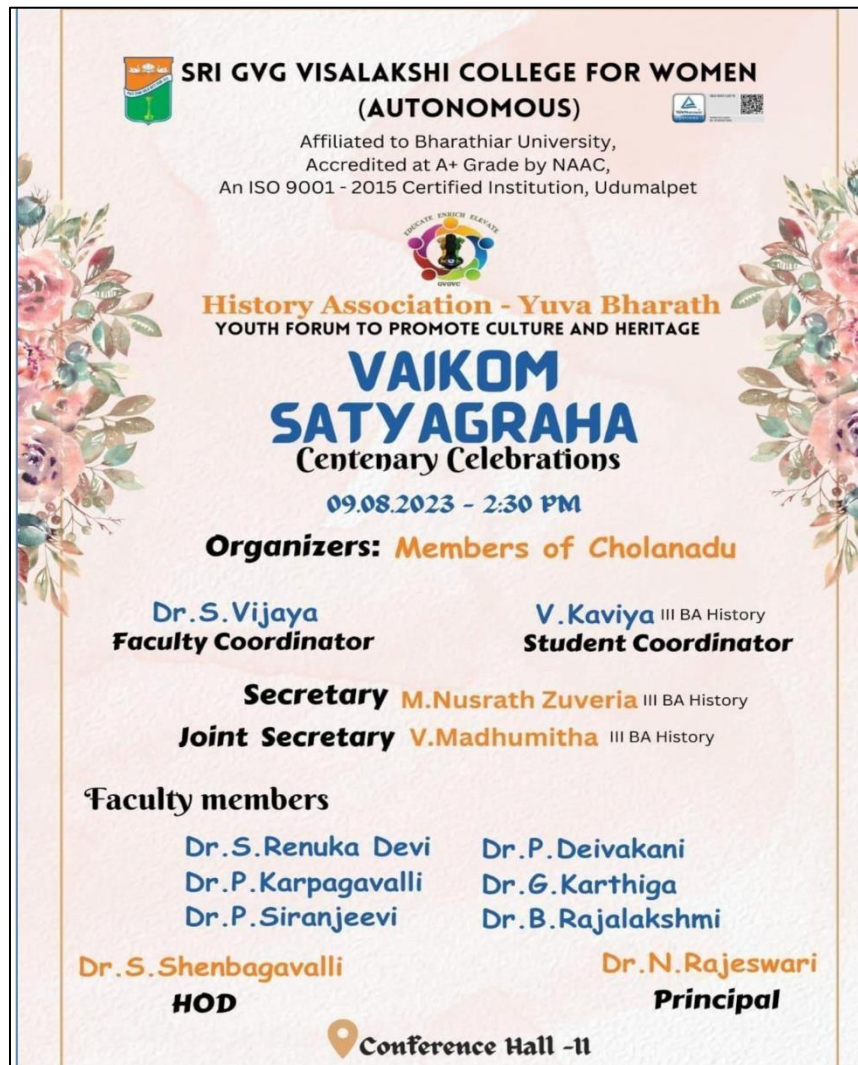
www.gvgvc.ac.in ; principal@gvgvc.ac.in,
Ph.04252-223019; Fax:04252-2233111



Department of History

Vaikom Satyagraha

Centenary Celebration



**SRI GVG VISALAKSHI COLLEGE FOR WOMEN
(AUTONOMOUS)**

Affiliated to Bharathiar University,
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History Association - Yuva Bharath
YOUTH FORUM TO PROMOTE CULTURE AND HERITAGE

**VAIKOM
SATYAGRAHA**
Centenary Celebrations

09.08.2023 - 2:30 PM

Organizers: Members of Cholanadu

Dr. S. Vijaya
Faculty Coordinator


V. Kaviya III BA History
Student Coordinator

Secretary M. Nusrath Zuveria III BA History
Joint Secretary V. Madhumitha III BA History

Faculty members

Dr. S. Renuka Devi **Dr. P. Deivakani**
Dr. P. Karpagavalli **Dr. G. Karthiga**
Dr. P. Siranjeevi **Dr. B. Rajalakshmi**

Dr. S. Shenbagavalli **Dr. N. Rajeswari**
HOD **Principal**

 Conference Hall -II

Programme Sheet



Vaikom Satyagraha
Centenary Celebrations
Programme
09/08/2023

Tamilthai Vazhthu
Welcome Address - **M.Meenatchi**
(II MA History)

✓ *Oratorical Competition*

Chera Nadu - G.Gokila (II BA History)
Chola Nadu - G.Sowmiya (III BA History)
Kongu Nadu - P.Gowri (II BA History)
Pandya Nadu - A.Mizba (II BA History)
Thondai Nadu - K.Shabana (I BA History)

✓ *Quiz Competition*
✓ *Essay Competition*

Master of Ceremonies - **M.Vishnupriya** II MA History
M.Meenatchi II MA History

Vote of Thanks - **M.Akilandeswari** III BA History

YouTubelink: <https://youtu.be/Fr63tW99oBE>

Report

Vaikom Satyagraha Centenary Celebration

Objectives:

- To commemorate the moment that breached rigid walls of untouchability.
- To mark the centenary of Vaikom sathyagraha.
- To transmit the message of to next generations.

AspertheGO: 22229/M2/2023Dated:03/07/2023CentenaryCelebrationevent was organised.

1. The Chola nadu team of Yuva Bharath organised the program with great enthusiasm by conducting competitions.
2. Five students representing the five teams participated in the Oratorical Competitions.
3. All the students elaborated on the Vaikom sathyagraha significance of the Vaikom sathyagraha movement and highlighted the remarkable contributions of great personalities.
4. Quiz competition was conducted with two representations from each team.
5. The team members eagerly participated in the event and were very curious about moving to the next level and winning the show.
6. Seven students participated in essay competitions.

Oratorical Competitions:

Prize Winners:

S.NO	NAME	TEAM	CLASS	PRIZE
1.	K.Shabana Begam	Thondai Nadu	I B.A History	I
2.	A.Mizba	Pandya Nadu	II B.A History	II
3	G.Gokila	Chera Nadu	II B.A History	III

Quiz Competition

Prize Winners:

S.NO	NAME	CLASS	TEAM	PRIZE
1.	J.Rabiyathul Basriya V.Thamarai	I M.A History II B.A History	Kongu Nadu	I
2.	J.Aarthi S.Mahalakshmi	I B.A History I B.A History	Pandya Nadu	II
3	C.K.Arivarasi L.Kaviya	II B.A History I M.A History	Chola Nadu	III

Essay Competitions:

Prize Winners:

S.NO	NAME	CLASS	TEAM	PRIZE
1.	G.Sowmiya	III B.A History	Chola Nadu	I
2.	N.Thenmozhi	II B.A History	Pandya Nadu	II
3	S.Mahalakshmi	I B.A History	Pandya Nadu	III

Outcome:

- The value of the renaissance movement triggered the future generations.
- Created awareness on inculcated the concept of equality and social justice among the students.

Photos



Attendance

HISTORY ASSOCIATION		
VAIKOM SATYAGRAHA CENTENARY CELEBRATION		
DATE: 09.08.2023	TIME: 02:30 - 03:30 PM	
S.No	Name of the Participant	Designation
1	D. S. SHANBAGAR	emerit Prof
2	Dr. S. Ramani	emerit Prof
3	Capt. D. P. KARAYAGA VALLI	emerit Prof
4	Dr. P. Srinivasan	emerit Prof
5	Dr. P. Srinivasan	emerit Prof
6	Dr. G. KARTHIGA	
7	Dr. S. Vijaya	Assistant Professor
8	Dr. B. Rajalakshmi	Asst. Professor
9	L. Javitha	III BA History
10	T. Rajagopal Prasad	III BA History
11	N. Jayarama	III BA History
12	H. Anandaraman	III BA History
13	D. Akila	III BA History
14	M. Purnima Rao	III BA History
15	S. Varshini	III BA History
16	V. Thirumala	III BA History
17	M. Issamiah	III BA History
18	S. Zuhaira	III BA History
19	A. Rishi	III BA History
20	G. Srinitha	III BA History

VAIKOM SATYAGRAHA CENTENARY CELEBRATION		
DATE: 09.08.2023	TIME: 2:30 - 3:30 PM	
S.No	Name of the Participant	Designation
1	M. Harshini	III BA History
2	R. T. Jaisi	III BA History
3	S. Kishore	III BA History
4	M. Rajeshwari	III BA History
5	S. Mahalakshmi	III BA History
6	Dr. Thirumala	III BA History
7	R. Rajagopal	III BA History
8	M. Karthika	III BA History
9	K. Karthika	III BA History
10	R. Banathi Manoj	III BA History
11	M. Manonmani	III BA History
12	L. Karthika	III BA History
13	G. Umamaheswari	III BA History
14	M. Nusrath Zuhair	III BA History
15	V. Madhukrishna	III BA History
16	S. Karthika	III BA History
17	S. Srinitha	III BA History
18	T. Parvathi	III BA History
19	S. Rajani	III BA History
20	K. Sabara Bogan	III BA History
21	R. Kousalya	III BA History
22	M. Apoorva	III BA History
23	S. H. Saranya	III BA History
24	M. Srinitha	III BA History
25	A. Jyotsna	III BA History
26	M. Manjitha	III BA History

S.No	Name of the Participant	Designation	Signature
49	M. Saranya	III BA History	M. Saranya
50	P. Soundharya	Ph.D.	P. Soundharya
51	R. Mumukshu	III BA History	R. Mumukshu
52	C. Saranya	"	C. Saranya
53	S. Archana	"	S. Archana
54	S. Hemamalini	"	S. Hemamalini
55	J. Koushika	"	J. Koushika
56	K. Srinitha	"	K. Srinitha
57	D. Anand	III BA History	D. Anand
58	M. Anand Aravind	III BA History	M. Anand Aravind
59	D. Sivasubramanian	"	D. Sivasubramanian
60	M. Logeevarani	"	M. Logeevarani
61	K. Ananya	"	K. Ananya
62	N. Thirumala	"	N. Thirumala
63	Anubhava C.K.	"	Anubhava C.K.
64	Karthika G.K.	"	Karthika G.K.
65	S. Poornima	"	S. Poornima