

ST. THOMAS COLLEGE

Ranni, Pathanamthitta, Kerala – 689673
ACCREDITED BY NAAC WITH 'B' GRADE

3.5.1: Number of MoUs, Collaborations / linkages for Faculty exchange, Student exchange, Internship, Field trip, on-the-job training, research and other academic activities

2021 - 2022

CRITERION: 3

RESEARCH, INNOVATIONS
AND EXTENSIONS



3.5.1. Summary of Functional MoU's/Linkages/Collaborations 2021-2022

No	MoU/Linkage/Collaboration	Start Date	End Date	Nature
1	Internship for Project work			MSc Project- Ms.Anjali J under
	Dept of Chemistry, St.	04/05/2022	20/07/2022	the supervision of Dr. V L Pushpa
	Thomas College Ranni &			,Sree Narayana College, Kollam
	Sree Narayana College,			
	Kollam			
	Internship for Project work			MSc Project- Dhanya George,
	Dept of Chemistry, St.	04/05/2022	20/07/2022	under the supervision of Dr. V L
	Thomas College Ranni &			Pushpa, Sree Narayana College,
	Sree Narayana College,			Kollam
	Kollam			
	Internship for Project work			MSc Project- Nivitha Paul, under
	Dept of Chemistry, St.	04/05/2022	20/07/2022	the supervision of Dr. V L Pushpa
	Thomas College Ranni &			, Sree Narayana College, Kollam
	Sree Narayana College,			
	Kollam			
	Internship for Project work			MSc Project- Ms. Maria James
	Dept of Chemistry, St.	04/05/2022	20/07/2022	under the supervision of Dr. V L
	Thomas College Ranni &			Pushpa, Sree Narayana College,
	Sree Narayana College,			Kollam
	Kollam			
2	Internship for Project work			MSc Project- Ms. Josmy Paul
	Dept of Chemistry, St.	04/05/2022	20/07/2022	under the supervision of Dr. Sabu
	Thomas College Ranni &			Thomas Director of School of
	School of Energy materials,			Energy materials, MG University,
	MG University, Kottayam			Kottayam
	Internship for Project work			MSc Project- Mr. Karthikeyan B,
	Dept of Chemistry, St.	04/05/2022	20/07/2022	under the supervision of Dr. Sabu
	Thomas College Ranni &			Thomas Director of School of
	School of Energy materials,			Energy materials, MG University,
	MG University, Kottayam			Kottayam
	Internship for Project work			MSc Project- Ms. Pricilla John,
	Dept of Chemistry, St.	04/05/2022	20/07/2022	under the supervision of Dr. Sabu
	Thomas College Ranni &			Thomas Director of School of
	School of Energy materials,			Energy materials, MG University,
	MG University, Kottayam			Kottayam
3	Internship for Project work			MSc Project- Arjun Panicker
	Dept of Chemistry, St.	04/05/2022	20/07/2022	under the supervision of Dr.Shaju
	Thomas College Ranni			ander the supervision of Dr. Shaju



	&Dept. of chemical Oceanography, CUSAT, Cochin			S S, Dept. of chemical Oceanography, CUSAT, Cochin
4	Internship for Project work Dept of Chemistry, St. Thomas College Ranni & St. Berchman's College, Kottayam	04/05/2022	20/07/2022	MSc Project-Christy Anna Paul, under the supervision of Aravind K, Asst Prof, St. Berchmans College, Kottayam
5	Internship for Project work Dept of Chemistry, St. Thomas College Ranni & Nirmala College, Muvattupuzha	04/05/2022	20/07/2022	MSc Project- Haripriya K R, , under the supervision of Dr. Jyothish Kuthanapillil, Asst. Prof, Nirmala College, Muvattupuzha
6	Linkage – Institutional visit Dept. of Physics & Planetarium, Kozhikkode	27/03/2022	27/03/2022	Institutional visit - 21 students visited the planetarium as the part of their study
7	Linkage - Industrial visit Madupetty Tea Factory	25/03/2022	25/03/.2022	Industrial visit - 21 students visited the planetarium as the part of their study
8	Linkage- Knowledge acquisition Dept of Chemistry, St.Thomas College Ranni & Capital Pure Plast, Ranni	27/01/2022	27/01/2022	In connection with the demonstration of Polymer Processing technology (52 students)
9	Collaboration Department of Physics St Thomas College and CMS Community UP School Ranni	19/01/2022	19/01/2023	Demonstration of Science experiments- 18 students & 2 faculties conducted a motivation class in Science subject through experiments
10	Collaboration St Thomas College and Janatha Library and Reading Room	07/07/2021	07/07/2023	Sharing Knowledge to children of Kuttor Village and provide books to library & Acess books to students of STC Ranni
11	Memorandum of Understanding (MoU)	24/02/2022	23/02/2025	MSC Physics Student Project work – Ms. Juris N



	Henry Baker College and St. Thomas College Ranny			
12	Memorandum of Understanding (MoU) St. Joseph's College Moolamattom and St. Thomas College Ranny	24/02/2022	23/02/2025	BSc Physics Student Project work- Dayal Krishna
13	Memorandum of Understanding (MoU) Dept. of Physics & BAM College, Thuruthicad, Knowledge sharing	17/12/2020	16/12/2023	Knowledge sharing- Faculty Exchange Program on 12.04.2022 &13.04.2022
14	Memorandum of Understanding (MoU) Dept. of History, St.Thomas College, Ranni & 5 Colleges under MG University (St. Thomas College, Pala, St.Domiinic's College, Kanjirappally, Alphonsa College, Pala, Henry Baker College, Melukavu)	19.11.2019	18.11.2024 (5years)	Sharing of Resources and Expertise & organising and conducting of Academic Lectures
15	Memorandum of Understanding (MoU) Dept. of Chemistry & Friends Polymers , Alappuzha	29.09.2020	29.09.2023	Internship & skilled Training
16	Memorandum of Understanding (MoU) Dept. of Botany & MRDO, Chengannor	29.09.2020	29.09.2023	Mushroom Hands on training to Kudumbasree unit & Students of St.Thomas College, Ranni
17	Memorandum of Understanding (MoU) Dept. of Physics & Pushpagiri College of Pharmacy	01.01.2021	31.12.2021	Microbiology lab work of the MSC project
18	Memorandum of Understanding (MoU) St.Thomas College, Ranni & Kanal innovations & Charitable Trust	06.06.2020	05.07.2022	Legal Awareness classes for College Students



19	Memorandum of Understanding (MoU) Clean Kerala Company and St. Thomas College Ranni	03/02/2022	02/02/2023	Implementing sustainable waste management practices
20	Memorandum of Understanding (MoU) TIES and St. Thomas College Ranny	17/01/2022	16/01/2023	Green auditing the college campus
21	Collaboration Department of botany & Poonkavanam Gardens	08/06/2021	07/06/2022	Providing plant materials for practical
22	Memorandum of Understanding (MoU) In- house Aviation Training Academy, Palarivattom, Cochin	17/09/2019	16/09/2022	Internship Training program , Gallileo CRS Basic course- 20 students

PROOF FOR INTERNSHIP - PROJECT WORK



DEPARTMENT OF CHEMISTRY

Collaborating Institution	Sree Narayana College, Kollam
Nature of collaboration	Internship for MSc Chemistry project work
Year of collaboration	2021-2022
Duration of collaboration	2 Months
Activity under collaboration	MSc Students Project Work (4nos)

MSc PROJECT WORK AT COLLABORATING INSTITUTE



SREE NARAYANA COLLEGE, KOLLAM DEPARTMENT OF CHEMISTRY CERTIFICATE

This is to certify that the work embodied in the project entitled "INSILICO STUDIES TO DETERMINE PHYTOCHEMICAL ACTIVITY AGAINST RENAL CALCULI" is an authentic record of the research work carried out by Ms. ANJALI J under my supervision and guidance in partial fulfillment of the requirements for the degree of Master of Science in Chemistry from Mahatma Gandhi University, Kottayam and further no part of this has been presented elsewhere for any other Degree.

KOLLAM

Dr. VL Pushpa Professor & Head Department of Chemistry

Sree Narayana College, Kollam



SREE NARAYANA COLLEGE, KOLLAM DEPARTMENT OF CHEMISTRY <u>CERTIFICATE</u>

This is to certify that the work embodied in the project entitled
"PHYTOCHEMICAL REMEDIATION OF POPULAR NSAIDS TOWARDS
COX-2 INHIBITION BY INSILICO MEANS" is an authentic record of the
research work carried out by Ms. DHANYA GEORGE under my supervision and
guidance in partial fulfilment of the requirements for the degree of Master of Science
in Chemistry from Mahatma Gandhi University, Kottayam and further no part of this
has been presented elsewhere for any other Degree.

KOLLAM

Dr. V L Pushpa

Professor & Head

Department of Chemistry

Sree Narayana College, Kollam



DEPARTMENT OF CHEMISTRY

SREE NARAYANA COLLEGE, KOLLAM

CERTIFICATE

This is to certify that work embodied in the project entitled "AN INVESTIGATION ON THE COMBINED TARGETING OF ANDROGEN RECEPTOR AND VITAMIN D RECEPTOR FOR KIDNEY STONE BY IN SILICO MEANS" is an authentic record of the research work carried out by Ms. NIVITHA PAUL M P under my supervision and guidance in partial fulfilment of the requirements for the degree of master of science in chemistry from Mahatma Gandhi University, Kottayam and further no part of this has been present elsewhere for any other degree.

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Dr. V L Pushpa

Professor & Head of the Department

Department of Chemistry,

Sree Narayana College, Kollam.



SREE NARAYANA COLLEGE, KOLLAM

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the work embodied in the project entitled "IDENTIFICATION OF ACTIVE CURCUMIN COMPOUNDS AGAINST PROSTATE CANCER" is an authentic record of the research work carried out by Ms. MARIYA JAMES under my supervision and guidance in partial fulfilment of the requirements for the degree of Master of Science in Chemistry from Mahatma Gandhi University, Kottayam and further no part of this has been presented elsewhere for any other Degree.

KOLLAM

Puster

Dr. V L Pushpa

Professor & Head

Department of Chemistry

Sree Narayana College, Kollam



DEPARTMENT OF CHEMISTRY

Collaborating Institution	School of Energy materials, MG University, Kottayam
Nature of collaboration	Internship for MSc Chemistry project work
Year of collaboration	2021-2022
Duration of collaboration	2 Months
Activity under collaboration	MSc Students Project Work (3nos)

MSc PROJECT WORK AT COLLABORATING INSTITUTE



School of Energy Materials Mahatma Gandhi University Priyadarshini Hills Kottayam-686 560, Kerala, India

Telephone: 91-9447223452 (Mobile) E-mail: sabuthomas@mgu.ac.in

Prof. Dr. SABU THOMAS PhD, FRSC Director, School of Energy Materials

Ref: MGU/SEM/PROJECT STUDENTS/2022/CERT-15

CERTIFICATE

This is to certify that the project entitled " *EFFECT OF GRAPHENE OXIDE ON THE RHEOLOGICAL PROPERTIES OF RUBBER TOUGHENED EPOXY SYSTEM*" is an authentic record of the work carried out by Ms. JOSMY PAUL (Reg. No. 200011011443), St. Thomas College Ranni (Affiliated to Mahatma Gandhi University, Kottayam) under my guidance and supervision at the School of Energy Materials, Mahatma Gandhi University, Kottayam, Kerala in partial fulfillment of the requirements for the award of the degree of Master of Science in Chemistry from Mahatma Gandhi University, Kottayam.



Prof. Dr. Sabu Thomas

Kottayam, 28.09.2022





School of Energy Materials

Mahatma Gandhi University
Priyadarsini Hills

Kottayam-686 560, Kerala, India
Telephone: 91-9447223452 (Mobile),
481-2730003 (Office)

E-mail:sabuthomas@mgu.ac.in

Prof. Dr. SABU THOMAS PhD, FRSC Director, School of Energy Materials

Ref: MGU SEM PROJECT STUDENTS 2022 CERT-14

CERTIFICATE

This is to certify that the project entitled "PREPARATION AND CHARACTERIZATION OF GRAPHENE OXIDE AND DIFFUSION STUDIES OF MWCNT-SILICONE RUBBER NANOCOMPOSITE" is an authentic record of the work carried out by Mr. KARTHIKAYAN B (Reg. No.200011011444); St Thomas College, Ranni, Pathanamthitta under my guidance and supervision at the School of Energy Materials, Mahatma Gandhi University, Kottayam, Kerala in partial fulfilment of the requirements for the award of the degree of master of science in chemistry from Mahatma Gandhi University, Kerala.

Sabu Thomas



Kottayam 24/09/2022



School of Energy Materials

Mahatma Gandhi University

Priyadarshini Hills

Kottayam-686 560, Kerala, India

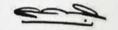
Telephone: 91-9447223452 (Mobile) E-mail: sabuthomas@mgu.ac.in

Prof. Dr. SABU THOMAS PhD, FRSC Director, School of Energy Materials

Ref: MGU/SEM/PROJECT STUDENTS/2022/CERT-16

CERTIFICATE

This is to certify that the project entitled "PREPARATION AND CHARACTERISATION OF h-BN/MABS NANOCOMPOSITES" authentic record of the work carried out by Ms. PRISCILLA JOHN (Reg. No. 200011011447), St. Thomas College Ranni (Affiliated to Mahatma Gandhi University, Kottayam) under my guidance and supervision at the School of Energy Materials, Mahatma Gandhi University, Kottayam, Kerala in partial fulfilment of the requirements for the award of the degree of Master of Science in Chemistry from Mahatma Gandhi University, Kottayam.



Prof. Dr. Sabu Thomas

Kottayam, 28.09.2022



DEPARTMENT OF CHEMISTRY

Collaborating Institution	Dept. of chemical Oceanography, CUSAT,
	Cochin
Nature of collaboration	Internship for MSc Chemistry project work
Year of collaboration	2021-2022
Duration of collaboration	2 Months
Activity under collaboration	MSc Students Project Work (1 nos)

MSc PROJECT WORK AT COLLABORATING INSTITUTE



കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവ്വകലാശാല COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF MARINE SCIENCES



DEPARTMENT OF CHEMICAL OCEANOGRAPHY

സമുദ്ര രസതന്ത്ര വിഭാഗം

Dated: 28.09.2022

CERTIFICATE

This is to certify that the present dissertation work entitled "Characterisation and Quantification of Major Biochemical Components Of Mangrove Fern, Achrostichum aureum" submitted to Mahatma Gandhi University, Kottayam in partial fulfilment of the requirement for the degree of Master of Science in Chemistry is a bonafide project work done by Mr. Arjun Panicker (Reg No:200011011439) at Department of Chemical Oceanography (COD), Cochin University of Science and Technology (CUSAT) from May 2022 to July 2022 under the guidance of

2 ast

Dr. Ragi A S
Co-Guide
Post Doctoral Fellow
Department of Chemical Oceanography,
School of Marine Science
Cochin University of Science and
Technology (CUSAT)
Kochi 682016

Dr. Shaju S. S

Dr. Shaju S. S
Supervising Guide
Head of the Department
Department of Chemical Oceanography
School of Marine Science
Cochin University of Science and
Technology (CUSAT)
Kochi 682016

Fine Arts Avenue, Kochi - 682 016, India Tel: 91-484-2382131 (O), 0484-2863403, E-mail: chemoc@cusat.ac.in



DEPARTMENT OF CHEMISTRY

Collaborating Institution	Dept. of Chemistry, St. Berchmans College,
	Kottayam
Nature of collaboration	Internship for MSc Chemistry project work
Year of collaboration	2021-2022
Duration of collaboration	2 Months
Activity under collaboration	MSc Students Project Work (1nos)

MSc PROJECT WORK AT COLLABORATING INSTITUTE



DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Ms. Christy Anna Paul has satisfactorily completed her PROJECT titled, "EFFECT OF DOPING ON ANTHRACENE FAMILY FOR DYE SENSITIZED SOLAR CELLS" under my supervision and guidance in partial fulfilment of the requirements for the award of the degree of MASTER of SCIENCE in CHEMISTRY from St. Berchmans College Changanassery, affiliated to Mahatma Gandhi University Kottayam.

Jacind !

Aravind K

Assistant Professor

Guide



DEPARTMENT OF CHEMISTRY

Collaborating Institution	Dept. of Chemistry, Nirmala College,
	Muvattupuzha
Nature of collaboration	Internship for MSc Chemistry project work
Year of collaboration	2021-2022
Duration of collaboration	2 Months
Activity under collaboration	MSc Students Project Work (1 nos)

MSc PROJECT WORK AT COLLABORATING INSTITUTE

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY



NIRMALA COLLEGE Muvattupuzha, Eranakulam (Dist) Kerala, Pin: 686661

Date: 26-09-2022

CERTIFICATE

This is to certify that Ms. Haripriya K. R has carried out the project entitled
"UNPRECEDENTED VISCOUS PHASE AND GEL PHASE FORMATION IN
CARDANOL AZODYE AMPHIPHILES" at Post Graduate and Research Department of
Chemistry, Nirmala College, Muvattupuzha under my supervision for the partial fulfillment
of the degree of Master of Science in Chemistry.

Muvattupuzha

Dr. JYOTHISH KUTHANAPILLIL Assistant Professor,

Post Graduate and Research Dept of Chemistry,

Nirmala College, Muvattupuzha

PROOF FOR LINKAGE INDUSTRY VISIT



DEPARTMENT OF PHYSICS

Collaborating Institution	Regional Science Centre &Planetarium,
	Calicut
Nature of collaboration	Linkage- Institutional Visit
Year of collaboration	2021-2022
Duration of collaboration	1 Day (27.03.2022)
Activity under collaboration	BSc. Physics Students (21nos)

LINKAGE-INSTITUTIONAL VISIT



REGIONAL SCIENCE CENTRE & PLANETARIUM CALICUT

Cert. No.: RSCPC/Centre visit/2022/03/00001

Certificate of Visit

This is to certify that 21 (Twenty One) students from department of Physics, St. Thomas College, Ranni visited Regional science Centre and Planetarium, Kozhikode on 27/03/2022 for **Industrial Visit** as part of their curriculum. They learned the physics behind many phenomena and also get an exposure on the astrophysical concepts of planets and stars.

Jayant Ganguly Technical Officer

Date: 27.03.2022



Institutional visit - 21 students visited the planetarium as the part of their syllabus

DEPARTMENT OF CHEMISTRY

Collaborating Institution	Mattupetty Tea Factory
Nature of collaboration	Linkage- Industrial Visit
Year of collaboration	2021-2022
Duration of collaboration	1 Day (25.03.2022)
Activity under collaboration	Industrial Visit (22 students)

LINKAGE- INDUSTRIAL VISIT

St. Thomas College Ranni

PG Department of Chemistry

Industry Visit 2021-22

1.Kanna Devan Hills-Madupatty

In accordance with the curriculum of Mahatma Gandhi University Kerala, an Industrial Visit was conducted on 25/03/2022 to Kannan Devan Hills Plantations Company Private Limited, Madupatty. 22 students along with two supervising teachers of the Chemistry Department of St. Thomas College Ranni visited the factory. Under the guidance of Asst. Prof. Dr. Mathew Kuruvilla and Asst. Prof. Bincy Francis, the final year Chemistry students were able to conduct and successfully complete their industrial visit

Industrial visit provide the students with an opportunity to learn practically through interaction, working methods and employment practices. By way of interactions with the staff of the industry, students got more exposure towards the current work conditions of the industry. Moreover the students could learn more about manufacturing and processing of various Tea products beyond the book.

Student List

SI.No	Name of the student	Designation
1	Neeraja Krishnan	Student
2	Alwin M S	Student
3	Akshay Vijaykumar	Student
4	Anjitha Ajith	Student
5	Anju Anian	Student
6	Archana B Panicker	Student
7	Ashwin Ashok P P	Student
8	Bijin S Baby	Student
9	Megha Elsa Mathews	Student
10	Parvathi Rajesh	Student
11	Parvathi Sajeev	Student
12	Priya Prasannan	Student
13	Saiby Thomas	Student
14	Sethulakshmi S	Student
15	Anandha Krishnan K R	Student
16	Anuja Suresh	Student
17	Arya Ashokan	Student
8	Athira Manoj	Student
9	Athulya Sabu	Student
0.	Manna Sunny	Student
1	Rishana K R	Student

List of students visited the Kannan Devan Tea Factory







Students Visit @ Kannan Devan Tea factory industry- Mattupetty



Kanan Devan Hills Plantations Company Private Limited

Ref.No.IR/MSO

29th March 2022

TO WHOMSOEVER IT MAY CONCERN

CERTIFICATE

This is to certify that 22 B.Se Chemistry Department students with 2 faculties, from St. Thomas College, Ranni, had visited our Madupatty Tea Factory on 25th March 2022, in connection with their industrial visit.

for KDHP COMPANY PRIVATE LIMITED

50 Imparere

Certificate from Kannan Devan Tea Factory- Mattupetty



DEPARTMENT OF CHEMISTRY

Collaborating Institution	Capital Pure Plast
Nature of collaboration	LINKAGE - knowledge acquisition
Year of collaboration	2021-2022
Duration of collaboration	1 Day (27.01.2022)
Activity under collaboration	Industrial Visit- Polymer processing
	technology updation (52 nos)

LINKAGE- INDUSTRIAL VISIT



Aythala P.O., Pazhavangady, Ranni Pathanamthitta, Kerala. Pin : 689673 Ph : 04735 229999, 8281808666 email : cpptallyranni@gmail.com

Date 27/1/2022

Certificate

This is to certify that 52 students and 2 faculties from the department of Chemistry, St. Thomas College Ranni had visited our factory "Capital Pure Plast" on 27/01/2022 in connection with their certificate course "Polymer Processing"



Renjith Zachariah
Proprietor

Certificate from Capital Pure Plast -Industrial Visit

2.Capital Pure Plast-Ranni

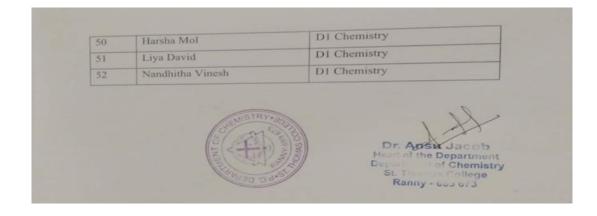
As a part of certificate Course'Polymer Processing' 52 students from Dept.Of Chemistry, St. Thomas College, Ranni visited *Capital Pure plast*, Ranni on 27/01/2022. The industry mainly focus on manufacturing of Water Storage Tanks. The students became familiar with various polymer processing techniques. Dr. Ansu Jacob and Mrs. Bincy Francis assisted the students.

The list of Students

Sl.No	Name of the student	Class
1	Neeraja Krishnan	D3 Chemistry
2	Alwin M S	D3 Chemistry
3	Akshay Vijaykumar	D3 Chemistry
4	Anjitha Ajith	D3 Chemistry
5	Anju Anian	D3 Chemistry
6	Archana B Panicker	D3 Chemistry
7	Ashwin Ashok P P	D3 Chemistry
8	Bijin S Baby	D3 Chemistry
9	Megha Elsa Mathews	D3 Chemistry
10	Parvathi Rajesh	D3 Chemistry
11	Parvathi Sajeev	D3 Chemistry
12	Priya Prasannan	D3 Chemistry
13	Saiby Thomas	D3 Chemistry
14	Sethulakshmi S	D3 Chemistry
15	Anandha Krishnan K R	D3 Chemistry
16	Anuja Suresh	D3 Chemistry
17	Arya Ashokan	D3 Chemistry
18	Athira Manoj	D3 Chemistry
19	Athulya Sabu	D3 Chemistry



20	Manna Sunny	D3 Chemistry
21	Rishana K R	D3 Chemistry
22	Sackson Thomas	D3 Chemistry
23	Ajesh MR	D2 Chemistry
24	Akhila Anilkumar	D2 Chemistry
25	Aleena Lijo	D2 Chemistry
26	Anjali M	D2 Chemistry
27	Arathimol A	D2 Chemistry
28	Aravind Mohanan	D2 Chemistry
29	Gopika P.B	D2 Chemistry
30	Harisankar VR	D2 Chemistry
31	Jofina Siby	D2 Chemistry
32	Meenakshi H	D2 Chemistry
33	Meera Rajesh	D2 Chemistry
34	Megha George	D2 Chemistry
35	Muhammed Faris	D2 Chemistry
36	Savanth Salu	D2 Chemistry
37	Sulthana KA	D2 Chemistry
38	Thoufeek S	D2 Chemistry
39	Abhinand M Anil	D2 Chemistry
40	Akshath Binu	D2 Chemistry
41	Anjana A	D2 Chemistry
42	Dividhya Dileep	D2 Chemistry
43	Feba Anna John	D2 Chemistry
44	Jennifer Mary Joseph	D2 Chemistry
45	Vishak M Nair	D2 Chemistry
46	Alfiya Asharaf	D1 Chemistry
47	Anandhu G Nair	D1 Chemistry
48	Archana Ajayakumar	D1 Chemistry
49	Arunjith A	D1 Chemistry



PROOF FOR LINKAGE KNOWLEDGE SHARING

DEPARTMENT OF PHYSICS

Collaborating Institution	CMS community UP School, Ranni
Nature of collaboration	Linkage for motivational classes to
	school students
Year of collaboration	2021-2022
Duration of collaboration	1 Day (19.01.2022)
Activity under	18 students & 2 faculties conducted a
collaboration	motivation class in Science subject through experiments



St. Thomas College, Ranni

PAZHAVANGADI P.O., RANNI, KERALA, INDIA - 689 673

Re-Accredited at B Level by NAAC

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)

e-mail:- stcranni@gmail.com, www.stc.ranni.ac.in

Ph: 8301057965

Date: 17/01/2022

Dear Madam,

Thank you for the kind courtesy extended to us during our visit to your school.

With reference to the discussions we had, we are pleased to present our proposal for the live demonstration of fundamental level science experiments for the students of your esteemed institution.

This will be a full day programme which will include live demonstration and detailing of school level science experiments mentioned in and outside the school curriculum. The respective experiments will be demonstrated and explained by expert students with an aptitude towards teaching and are selected for this programme after screening. The overall monitoring will be done by the programme coordinating faculties from the department of Physics.

The list of students selected for demonstrating and detailing the experiments

EXPERIMENTS	NAME OF STUDENTS
Optical experiments based on Reflection, Refraction and Total Internal Reflection	Josena Mary George, Vishnu Suresh& Bibin Abraham
Experiments based on electricity	Aby Santhosh, Devajith P R& Divya Biji
Experiments based on magnetism	Anju Biju, Aswathi R& Benz Hentry Joseph
Simple General Physics experiments revealing the basic concepts in physics	Arya Ashok,Dharmesh& Krishnasree R
Mathematical games helping to understand basic concepts in mathematics	Mahitha Girish,Silpa Mohan& Alen P R
Experiments demonstrating various chemical reactions	Mekha Jayan, Nandana Nadh& Roshni C Thomas

Yours sincerely,

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The Principal

St. Thomas College, Ranni

PRINCIPAL IN CHARGE ST. THOMAS COLLEGE PAZHAVANGADI P.O RANNY-689 679



BENNY O SIMON
HEADMASTER
CMS COMMUNITY UP SCHOOL
RANNY
PEN 531241





St. Thomas College, Ranni

PAZHAVANGADI P.O., RANNI, KERALA, INDIA - 689 673

Re-Accredited at B Level by NAAC (Affiliated to Mahatma Gandhi University, Kottayam, Kerala)

e-mail:- stcranni@gmail.com, www.stc.ranni.ac.in

Ph: 8301057965

Date: 20/01/2022

REPORT

- Collaborating institutions: Department of Physics, St. Thomas College, Ranni and CMS Community UP School, Pazhavangadi, Ranni
- Title of the programme: Demonstration of Fundamental Level Science Experiments
- Name of the faculty Coordinators: Asst Prof Soumyamol K.S & Asst Prof Sreevalsa K
- Date: 19/01/2022
- Number of volunteer student participants from St. Thomas College, Ranni : 18
- Number of students attended from CMS Community UP School, Pazhavangadi, Ranni: 35
- Objective of the Program: To attract students to the fascinating world of science and provide them a chance to understand various science experiments in depth.

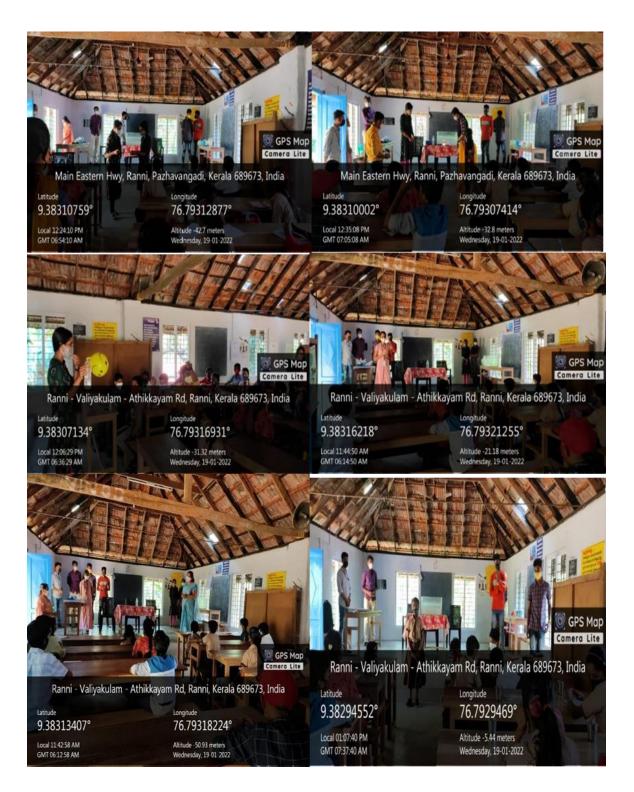
Description Of the Event

Department of Physics, St. Thomas College, Ranni organized a science experiment demonstration programme for students of CMS Community UP School, Pazhavangadi, Ranni on 19/01/2022. Eighteen students (6 groups) from the Department of Physics, St. Thomas College, Ranni actively coordinated the program. They explained the importance of science and motivated students through interesting experiments. Ms. Soumyamol K S and Mrs. Sreevalsa K were the faculty coordinators of the programme The sessions were very much interactive. The program included mind blowing mathematical games too. Headmistress Mrs. Suja Mercy Varghese conveyed special thanks to all those worked hard for the success of the programme.



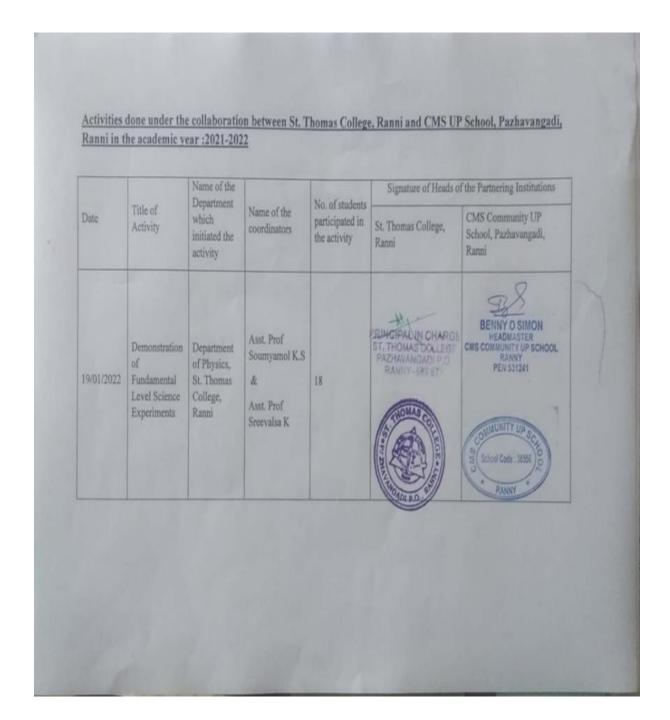
PRINCIPAL IN CHARGE ST, THOMAS COLLEGE PAZHAVANGADI P.O RANNY-689 672

BENNY O SIMON
HEADMASTER
CMS COMMUNITY UP SCHOOL
RANNY
PEN 531241



Motivation class of science subject through experiments @ CMS community UP School,

Ranni



Certificate of activity done under collaboration



St. Thomas College, Ranni

PAZHAVANGADI P.O., RANNI, KERALA, INDIA - 689 673

Re-Accredited at B Level by NAAC

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)

e-mail:- stcranni@gmail.com, www.stc.ranni.ac.in

Ph: 8301057965

Date: 01/01/2021

Collaboration

This Collaboration has been made and executed at Ranni on the 7th day of July, year Two Thousand and Twenty one [07.07.2021]

BETWEEN

ST. THOMAS COLLEGE, Ranni, Pathanamthitta- 689673 established in the year 1964. The College is affiliated to Mahatma Gandhi University, Kottayam. This College is involved in reaching the unreached through scientific dissemination of knowledge through outreach programs, communitybased interventions, field studies, etc.

AND

JANATHA LIBRARY AND READING ROOM, West Othera, Pathanamthitta, Reg No: 4208

St Thomas College, has agreed to the following

- 1. Be a Knowledge Partner and conduct awareness classes and Gender sensitization Programmes for members of Janatha Library and children of Kuttoor Village
- 2. Provide Library books and assistance for the renovation of Janatha library and reading room

Janatha Library and Reading Room has agreed to the following

1. Give access to students of St Thomas College, Ranni to Janatha Library and reading room. AUTHORISATION

The signing of this document is a formal undertaking. It implies that the signatories will strive to reach, to the best of their ability, the scope and terms stated in the agreement. The agreement may be extended by mutual consent of the two parties after the two- year period, and it must be renewed

On behalf of the organization I represent, I wish to sign this agreement and contribute to its development

diculla

Name: Dr. Rigy Idiculla

Title: Coordinator, Readers Club, St Thomas College, Ranni

Date: 07.07.2021

Vame: P.I. Thomas

itle: Secretary, Janatha Library and Reading Room

ate: 07.07.2021



ST. THOMAS COLLEGE, RANNI

Collaborating Institution	Janatha Library, Reading Room, West Othara,
	Pathanamthitta
Year of collaboration	2021-2022
Duration of collaboration	2years (07.07. 2021 – 07.07.2023)
Activity under collaboration	Sharing Knowledge to children of Kuttor Village
	and provide books to library & Access books to
	students of STC Ranni

ACTIVITY UNDER MoU- SHARING KNOWLEDGE BY AN INVITED TALK



Dr. Rigi Idiculla, Assistant Professor, St. Thomas College, Ranni delivering an invited talk on "Gender Equality" as the part of the Jubilee Celebration of Library







St. Thomas College, Ranni providing books to Library



MEMORANDUM OF UNDERSTANDING

&

PROOF FOR MoU



- a) Exchange information on teaching, learning material and other literature relevant to their educational and research programs
- b) Jointly organize seminars, conferences, or workshops on topics of mutual interest
- c) Jointly propose and engage in research or training programs sponsored by funding agencies
- d) Exchange of Faculties of STC and HBC to encourage collaboration
- e) Both parties are at liberty to cancel this memorandum of understanding with 30 days prior notice. In case of such cancellation, the incomplete sessions/modules, if any, will not be
- f) Any modifications or alterations to this memorandum of understanding can be made with mutual consent of both the parties.
- g) This MoU is valid for three years.
- h) Jurisdiction of this Memorandum of understanding will be High Court of Kerala State.

Signed, sealed and delivered on this 24/02/2022

By,

1. Dr. Jincy Devasia Head of the Department of Physics Henry Baker College, Melukavu Melukavumattom P.O, Kottayam, 686652

2. Mrs. Anju Joseph, Head of the Department of Physics, St. Thomas College, Ranni, Pazhavangadi P.O, Pathanamthitta, 689673

Witness:-

RINCIPAL IN CHARGE ST. THOMAS COLLEGE PAZHAVANGADI P.O RANNY - 689 67*

PRINCIPAL **HENRY BAKER COLLEGE** MELUKAVU, KERALA - 686 652



DEPARTMENT OF PHYSICS

Collaborating Institution	Henry Baker College, Melukavu
Nature of Collaboration	Memorandum of Understanding (MoU)
Year of collaboration	2021-2022 (24.02.2022- 23.02.2025)
Duration of collaboration	3 Years
Activity under collaboration	MSc Students Project Work

STUDENTS MSc. PROJECT WORK AT COLLABORATING INSTITUTE

CERTIFICATE

This is to certify that the project report entitled "TIMING ANALYSIS OF THERMONUCLEAR X-RAY BURST FROM LMXB 4U 1636-536" towards the partial fulfillment of the requirements for the award of the degree of Master of Science in Physics is carried out by JURIS N J (Reg. No. 200011013985) under the joint supervision of Dr. Marykutty James, Assistant Professor, Department of Physics, St. Thomas College, Ranni and Dr. Jincy Devasia, Assistant Professor, Henry Baker College, Melukavu during the academic year 2021-2022.

Dr. Marykutty James

Project Supervisor

Dr. Jincy Devasia

Co-Supervisor

Examiner 1.

Sreevalsa. K the

Examiner 2.

Asst.Prof. Anju Joseph

Head of the Department of Physics

St. Thomas College, Ranni

TOF



St. Thomas College, Ranni

DA 713183

Pazhavangadi P.O, Pathanamthitta, 689673

and

St. Joseph's College, Moolamattom Arakkulam P. O, Idukki, 685591

Executed on 24th February 2022

St. Joseph College, (Here in after called 'SJC') represented by Dr. Anju P. Mathews, Head of the Department of Physics, St. Joseph's College, Moolamattom, Arakkulam P.O, Idukki ,685591

St. Thomas College, Ranni (Here in after called 'STC') represented by Assistant Professor Anju Joseph, Head of the Department of Physics, St. Thomas College, Ranni, Pazhavangadi P.O, Ranni, Pathanamthitta, 689673

mutually agree to enter a formal understanding of cooperation with an envisaged intention to further the academic objectives of each institution and to promote research environment and culture amongst the faculty members and students of both the institutions. Under this Memorandum of Understanding, the two institutions will proceed to implement the following endeavors and exchanges of ideas and personnel.

Areas of cooperation:-

Cooperation will be carried out subject to availability of fund and the approval of the competent authority of both the institutions, through such activities or programs as:

- Organize Seminars/Workshops as well as Consultations on regular basis and come up with joint publications of conference volumes and books.
- Effective engagement in exchange of faculties and resources for the benefit of the greater academic community.
- 3. To design effective research internship programs for students in their areas of interest.
- Engagement in joint research projects depending on mutual areas of interest between the faculties of both the institutions
- Both parties are at liberty to cancel this memorandum of understanding with 30 days prior notice. In case of such cancellation, the incomplete sessions/modules, if any, will not be started.
- Any modifications or alterations to this memorandum of understanding can be made with mutual consent of both the parties.
- 6. Jurisdiction of this Memorandum of understanding will be High Court of Kerala State.

Signed, sealed and delivered on this 24/02/2022

Ву,

1. Dr. Anju P. Mathews
Head of the Department of Physics
St. Joseph's College, Moolamattom
Arakkulam P.O, Idukki, 685591

 Mrs. Anju Joseph, Head of the Department of Physics, St. Thomas College, Ranni, Pazhavangadi P.O, Pathanamthitta, 689673

HOMAS

Witness

1. DA

2. De Pravee

Dept of physics of Sorephy Goland

211/2022

RINCHAL IN CHARGE ST. THOMAS COLLEGE PAZHAVANGADI P.O PANNY-689 673

Dr. Sabukkutty M. G.
Principal-in-charge
Joseph's College Moolamattom
Arakulam P.O.-685 591



DEPARTMENT OF PHYSICS

Collaborating Institution	St.Joseph's College, Moolamattom
Nature of Collaboration	Memorandum of Understanding (MoU)
Year of collaboration	2021-2022 24.02.2022 -23.02.2025
Duration of collaboration	3 year
Activity under collaboration	BSc Students Project Work

STUDENTS MSc PROJECT WORK AT COLLABORATING INSTITUTE

ST. JOSEPH'S COLLEGE, MOOLAMATTOM



CERTIFICATE

THIS IS TO CERTIFY THAT THE PROJECT REPORT ENTITLED "SYNTHESIS AND CHARACTERIZATION OF NANO-STRUCTURED LEAD TITANATE CERAMICS" IS THE RESULT OF AN AUTHENTIC PROJECT WORK CARRIED OUT BY **DAYAL KRISHNA S BABU** (Reg. No: 190021041815) OF III DC B.SC. PHYSICS UNDER MY SUPERVISION AND GUIDANCE IN THE DEPARTMENT OF PHYSICS, ST. THOMAS COLLEGE, RANNI. DURING HIS B.SC. DEGREE COURSE AS PARTIAL FULFILLMENT OF THE REQUIREMENT OF THE AWARD OF THE B.SC. DEGREE UNDER FACULTY OF SCIENCE OF MAHATMA GANDHI UNIVERSITY.

DR. SURESH M.K.

(PROJECT SUPERVISOR)

ASSISTANT PROFESSOR

PARTMENT OF PHYSICS

T. THOMAS COLLEGE, RANNI

EXTERNAL EXAMINER

HEAD OF THE DEPARTMENT

DEPARTMENT OF PHYSICS



கேல் केरल KERALA

CT 884991

MEMORANDUM OF UNDERSTANDING (MoU)

This memorandum of understanding (MoU) is entered into by and between the Department of Physics, St. Thomas College, Ranni and the Department of Physics, Bishop Abraham Memorial College, Thuruthicad, in pursuance of common intent to promote academic cooperation. Both parties hereinafter have intended, agreed and consented to the following terms and deeds.

Terms and Conditions

- 1. Through this memorandum, both parties affirm the value of collaboration and agree to promote the following activities:
 - a. Exchanging expertise of faculty members who are specialised in specific area.
 - b. Conducting collaborative seminars, workshops and lectures.
 - c. Exchange of academic information and materials.
 - d. Sharing laboratory facilities for academic purpose.
 - Guiding graduate and post graduate students to carry out projects of mutual interest.
 - f. Other activities as mutually agreed.
- 2. It is understood that the implementation of any type of cooperation stated above shall depend up on the availability of resources and financial support of the parties concerned.

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- 3. Both parties agree that prior written approval is required before using the other party's name, logo or other intellectual property rights in any advertising for associated publicity.
- 4. The parties to this memorandum may, by mutual consent, add, modify, amend, delete, review or revise any term(s) and condition(s) of this agreement.
- 5. This MoU shall remain in force for a period of three years from the date of signing by the authorised signatories of each party. Each party shall review the status of the MoU at least one month before the end of the three-year period to determine whether it wishes the MoU to continue and, if so, any modifications that might be necessary. The period of validity of this MoU may only be extended by mutual written consent of both parties.
- 6. This MoU may, at any time during its period of validity, be terminated by one of the parties upon prior notice to the other in writing not later than one month before the termination date.

For St.	Thomas	College,	Ranni
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Ms. Anju Joseph,

The Head, Department of Physics

Date: 17/12/2020

Date: 17.12.2020

St. Thomas College, Pazhavangadi P. O, Ranni, Pathanamthitta - 689673

Dr. Aleyamma Kuruvilla.

Principal, St. Thomas College,

Pazhavangadi P. O, Ranni, Pathanamthitta - 689673

For Bishop Abraham Memorial College, Thuruthicad

Dr.Jessyamma Kurian,

The Head, Department of Physics

Bishop Abraham Memorial College, Thuruthicad P. O, Mallappally, Pathanamthitta - 689597

Dr.Biju T. George,

Principal, Bishop Abraham Memorial College,

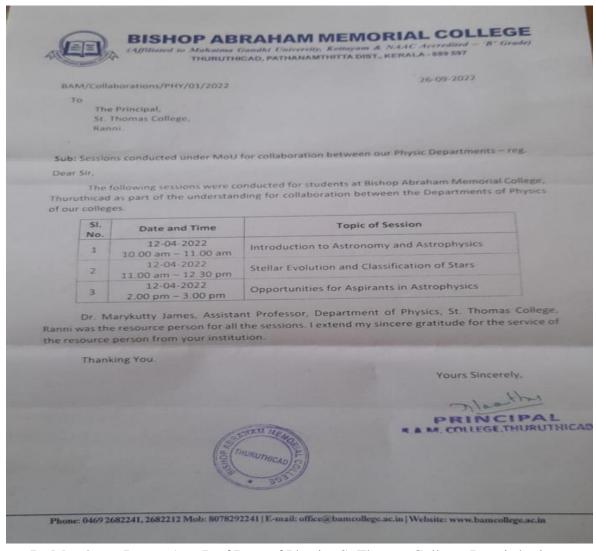
Thuruthicad P. O, Mallappally, Pathanamthitta - 689597

Date: 17.12.2020.

Date: 17 12 2020

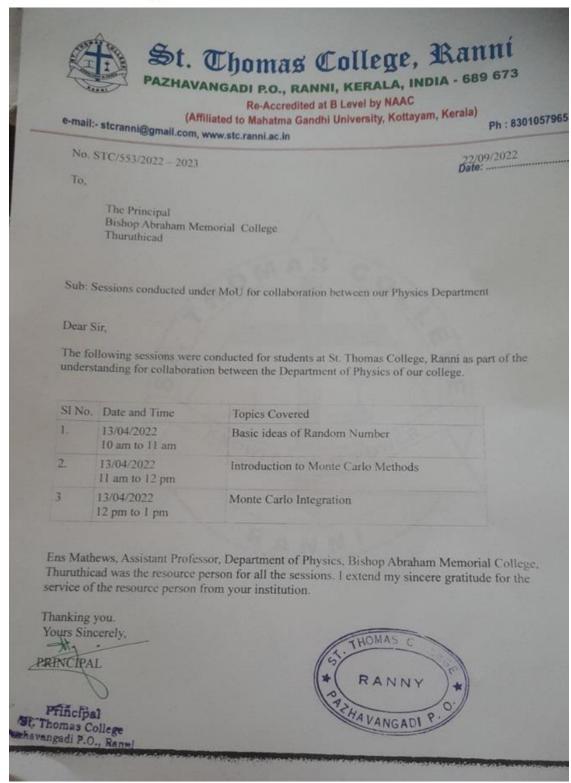
DEPARTMENT OF PHYSICS

Collaborating Institution	BAM College, Thuruthicadu
Nature of Collaboration	Memorandum of Understanding (MoU)
Year of collaboration	2020-2021 (17/12/2020-16/12/2023)
Duration of collaboration	3 years
Activity under collaboration	Knowledge sharing- Faculty Exchange
	Program on 12.04.2022 &13.04.2022



Dr.Marykutty James, Asst.Prof.Dept of Physics St.Thomas College, Ranni sharing knowledgeto students of BAM College Thuruthicadu, through faculty exchange program





Dr.Ens Mathew, Asst.Prof.Dept of Physics of BAM College Thuruthicadu is sharing knowledge to students of St.Thomas College, Ranni, through faculty exchange program



BW 633654

Memorandum of Understanding for Academic Collaboration

Sharing Resources and Expertise for Excellence (SREE) Among

St Thomas College Palai, St Dominic's College Kanjirapally, St Thomas College Ranni, Alphonsa College Palai and Henry Baker College Melukavu

The Memorandum of Understanding (hereinafter MOU) is made on the 19th day of November 2019 among St Thomas College Palai, who shall be the first party, St Dominic's College Kanjirapally, who shall be the second party, St Thomas College Ranni, who shall be the third party, Alphonsa College Palai, who shall be the fourth party and Henry Baker College, Melukavu, who shall be the fifth party under which the Departments of History of these five colleges shall extend their resources and expertise and organize and conduct four academic lectures on selected topics from syllabi in each of the five colleges every year.

Whereas, each of the five parties shall extend the free usage of the resources of their respective Departments for the benefit of the other four.

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18/11/219 Alphonsa College
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enachti Verion K. V Kalliyani



BW 633655

Whereas the teachers of the Departments of History in these five colleges shall come together, discuss the emerging trends and new developments in the subject and update their knowledge,

Whereas the students of these departments shall be exposed to the novel trends in the subject and deeper aspects of the selected topics,

Whereas the students shall develop research attitude in the subject,

Whereas, each of the five parties shall organize one academic lecture delivered by one teacher from each of the other four colleges a year.

This MOU serves as a legal document for the five parties to share and exchange knowledge.

2/3

NO. 3685 & DI. Phincipal July 18/11/2019 Alphonsa College Ahungpulam 80. Pal.

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124 OCT 2019



BW 633656

Now, therefore, St Thomas College Palai, St Dominic's College Kanjirapally, St Thomas College Ranni, Alphonsa College Palai, and Henry Baker College, Melukavu hereby enter into an agreement to be mutually adhered to by all the five parties whose terms and conditions are given below.

- The academic lectures shall be conducted in all the five colleges separately for the History students of each college or elsewhere as the situation may demand.
- When the event is conducted in any of the five colleges, the infrastructural facilities necessary for the conduct of the same shall be provided by the host.
- In this case, there shall be no TA/DA to be paid to the teacher who serves as the Resource Person and the same shall be borne by him/herself.
- 4. Joint events can be organized.
- In case a joint event is conducted in any of the five colleges, infrastructural facilities shall be provided by the host college free of cost and the rest of the expenses shall be shared equally by all the five parties.

3/3

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Anunapuram P.O. Pala

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24 OCT 2019

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BW 633657

- In case any joint event is conducted in a venue other than the five colleges, all the expenses shall be shared proportionally.
- This MoU shall be valid for five years from the date of signing of this agreement.
 After the said period it may be renewed for further period by mutual consent of both parties.
- 8. In case any one of the parties wishes to leave the MoU before the completion of five years, it can be done on the last day of the academic year after intimating all the other parties in the MoU in written at least three months in advance.
- This MOU is executed in English in five copies, one for each party, which have equal legal effects. The document has three pages and the last page carries the signatures of the parties.

NO: 3687 ESOJ- PANNCIPAL 18/11/2019 Alphonsa College Anungowam Po. Pala The states

24 OCT 2019

9. This MOU is executed in English in five copies, one for each party, which have equal legal effects. The document has three pages and the last page carries the signatures of the parties.

Duly authorized representatives of St Thomas College Palai, St Dominic's College Kanjirapally, St Thomas College Ranni, Alphonsa College Palai, and Henry Baker College, Melukavu executed this MOU as of the date and year given below.

For St Thomas College Palai

For St. Dominic's College, Kanjirapally

Principal James John 19//11/2018 rincipal

Principal St. Dominic Kanjira 19//11/2019

For Alphonsa College Pala

For St Thomas College Ranni

rincipal

Lata Marina Varghese St. Thomas Guillege, Ranni

19//11/2019

Dr Sr Gigimol M G Principal

19//11/2019

For Henry Baker College Melukavu HENRY BAKER COLLEGE, MELUKAVU

19//11/2019

Witness 1:

Dr. Beena Paul

HOD

Department of History

Henry Baker College Melukavu

19//11/2019

Witness 2:

Dr Deepa Roselin Joseph

Department of History St Thomas College Ranni

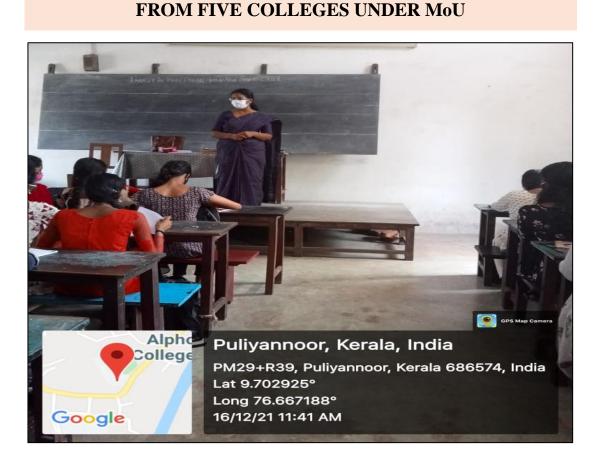
19//11/2019

3/3

DEPARTMENT OF HISTORY

Collaborating Institution	Five colleges under MG University Dept. of
	History, St. Thomas College, Ranni & 5 Colleges
	under MG University (St. Thomas College, Pala,
	St.Domiinic's College, Kanjirappally, Alphonsa
	College, Pala, Henry Baker College, Melukavu
Nature of collaboration	Memorandum of Understanding (MoU)
Year/Date of collaboration	2020-2021 (19.11.2019 – 18.11.2024)
Duration of collaboration	5year
Activity under collaboration	Sharing of Resources and Expertise & organizing
	and conducting of Academic Lectures

ACADEMIC LECTURES BY TEACHING FACULTIES



Faculty Exchange- Dr.Deepa Roselin Joseph, Asst.Prof.St.Thomas College, Ranni @ Alphonsa College, Pala



Alphonsa College, Pala

Ph: 04822-212447 Fax: 04822-216447

ARUNAPURAM P.O., PALA, KOTTAYAM (Dist.) KERALA STATE, S.INDIA - 686 574

E-mail alphonsaoffice@gmail.com Website www.alphonsacollege.edu.in

Re-accredited (4th cycle) by NAAC with A Grade (CGPA 3.24)

16.12.2021

CERTIFICATE

This is to certify that **DR. DEEPA ROSELIN JOSEPH**, Assistant Professor, Department of History, St Thomas College Ranni has delivered an invited talk on the topic 'Different Kinds of History' on 16.12.2021.



PRINCIPAL ALPHONSA COLLEGE PALA

Invited Talk- Dr.Deepa Roselin Joseph @ Alphonsa College, Pala



Faculty exchange program of History dept -Assistant Professor, Archana. P from Henry Baker College Melukavu taking class at St.Thomas College, Ranni



Faculty exchange program of History dept -Assistant Professor Bino. P.Jose , from St. Dominics College Kanjirapally taking class at St.Thomas College, Ranni





Intercollegiate Quiz competition on Indian Constitution @ St.Dominic's College Kanjirappally on 29/11/2021



BY 39280

This Deed of MEMORANDUM OF UNDERSTANDING FOR CERTIFICATE PROGRAM SKILL TRAINING AND INTERNSHIP is executed on this the 29th day of September 2020 between ST. THOMAS COLLEGE, RANNI, PATHANAMTHITTA herein after referred to as the 1st party and FRIENDS POLYMERS, ALAPPUZHA herein after referred to as the 2nd party.

By this Agreement it is agreed and proposed to promote Co-Operation in Rubber/Laboratory Chemist-Rubber Certificate Program Learners Skill Training and Internship between the Post Graduate Department of Chemistry, St. Thomas college, Ranni and Friends polymers, Alappuzha

Type of co-operation

Pin-689 673

Through this Memorandum, both parties affirm the value of educational collaboration and agree to

Participate in the mission to promote the following activities by rendering selfless service.

- 1. Guidance and technical support for skilled training, seminars etc.
- 2. Advanced practical training in polymer processing equipments for students.
- 3. Providing resources, conducting seminars and workshops
- 4. Specialised training in polymer Industry.
- Other actions as actually agreed and warranted by circumstances.

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ASSESSMENT PERIOD 2017-2022



BY 392803

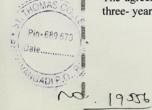
This Agreement place no financial obligations or supplementary funding commitments on either party. These activities will be defined through separate program agreement that details the commitment of resources (financial and other) required by each institution. Subsequent program agreement must be approved in writing by the authorized representatives of each institution of either parties.

Bincy Francis, Assistant Professor, Department of Chemistry, St. Thomas College, Ranni will serve as the primary liaison between the two institutions to facilitate the development of future activities. She shall manage, control and supervise the Internship program.

Terms

This agreement will become effective upon the date of agreement. It shall remain valid for a period of three (3) years from the date of agreement, with the understanding that it may be modified by written mutual consent of both parties. This agreement may be terminated by either parties with advance written notice of at least (30) days. Upon notice of termination both St. Thomas College, Ranni and Friends Polymers, Alappuzha agree to work in good faith to enable students to complete their internship program part of the syllabus of Certificate Program Rubber/Laboratory Chemist-Rubber unhindered by the termination of agreement. The agreement may be extended by mutual consent of the two parties after the three- year period, and it must be renewed in writing.





For FRIENDS POL 28 ba làs 20 ot. Thomas callage ano. 20013
Ranny. Mascael sources



This memorandum of understanding completed in English is hereby signed in two (2) copies with one (1) copy remaining in the possession of each institutions.

FOR ST. THOMAS COLLEGE RANNI

Principal St. Thomas College Pazhavangadi P. O. Pazhavangadi P. O. Pazhavangadi P. O.

Date: 29/9/2020

Pin-689 673
Dale

Seal

FOR FRIENDS POLYMERS, ALAPPUZHA
FOR FRIENDS POLYMERS

Sunny K Joseph

Managing Partner

Date 29/9/2020

ALETTICE S

Seal

Witness

1. Dr. Ansu Jacob

2. Preetha K

Prulhe_



DEPARTMENT OF CHEMISTRY

Collaborating Institution	Friend's Polymers, Alappuzha
Nature of Collaboration	Memorandum Of Understanding (MoU)
Year/Date of collaboration	2020-2021 / 29.09.2020 - 29.09. 2023
Duration of collaboration	3 years
Activity under collaboration	Internship & skilled Training

ACTIVITY UNDER MoU-INTERSHIP & SKILL TRAINING



CERTIFICATE OF COMPLETION

This certif	ies t	hat Thu	WEEEK:S.			
						has
sucessfully	C	ompleted	his/her	internship	and	skilled
training	on	'polymer	product	manufactui	ing'	from
27/12/2021 t	to 31,	/12/2021.		OS POLIN		

Sunny K Joseph

Managing Partner

Seal

(B) F	RIENE	OS POLYM	ERS
CERTIFI	CATE O	F COMPLETIO	N
This certifies that MUH	AMMED_EA	B1S	-
sucessfully completed training on 'polymer 27/12/2021 to 31/12/2021.		internship and	has skilled from
Sunny K Joseph Managing Partner		Alappuzha Seal	

Certificate issued by Friends Ploymers for the internship and skill training of the students of St. Thomas College, Ranni under the activity of MoU



BV 391332

This Deed of MEMORANDUM OF UNDERSTANDING FOR DIPLOMA PROGRAM SKILL TRAINING AND INTERSHIP is executed on this the 29th day of September 2020 between ST. THOMAS COLLEGE, RANNI, PATHANAMTHITTA hereinafter referred to as the 1st party and the MUSHROOM RESEARCH DEVELOPMENT ORGANIZATION (MRDO), Chengannur hereinafter referred to as the 2nd party.

By this Agreement it is agreed and proposed to promote Co-Operation in Edible Mushroom cultivation Technology Diploma Program Skill Training and Internship between the Department of Botany, St. Thomas College, Ranni and Mushroom Research and Development Organization, Chengannur.

Type of co-operation

Through this Memorandum, both parties affirm the value of educational collaboration and agree to participate in the mission to promote the following activities by rendering selfless service.

- 1. Guidance and technical support for skilled training, seminars etc.
- Advanced training program for students.
- 3. Training and support for the internship for Diploma course learners.
- 4. Business services and management guidance.
- 5. Other actions as actually agreed and warranted by circumstances.

Description of resources (financial and other) required by each institutions Stubs of the commitment of resources (financial and other) required by each institutions Stubs of the commitment of resources (financial and other) required by each institutions Stubs of the commitment of resources (financial and other) required by each institutions of the commitment of resources (financial and other) required by each institutions of the commitment of the commitment of resources (financial and other) required by each institutions of the commitment of the

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BV 391333

agreement must be approved in writing by the authorized representatives of each institution of either party. Dr. Devi Priya M, Assistant Professor & Head, Department of Botany, St. Thomas College, Ranni will serve as the primary liaison between the two institutions to facilitate the development of future activities. She shall manage, control and supervise the Internship program.

Terms

This agreement will become effective upon the date of agreement. It shall remain valid for a period of three (3) years from the date of agreement, with the understanding that it may be modified by written mutual consent of both parties. This agreement may be terminated by either parties with advance written notice of at least (30) days. Upon notice of termination St. Thomas College, Ranni and MRDO, Chengannur agree to work in good faith to enable students to complete their internship program part of the syllabus of diploma course in Edible Mushroom Cultivation Technology unhindered by the termination of agreement. The agreement may be extended by mutual consent of the two parties after the three- year period, and it must be renewed in writing.

This memorandum of understanding completed in English is hereby signed in two (2) copies with one (1) copies remaining in the possession of each institutions.

for ST. THOMAS COLLEGE RANNI

Principal

Pin-689 673

Pin-689 673

Pin-689 673

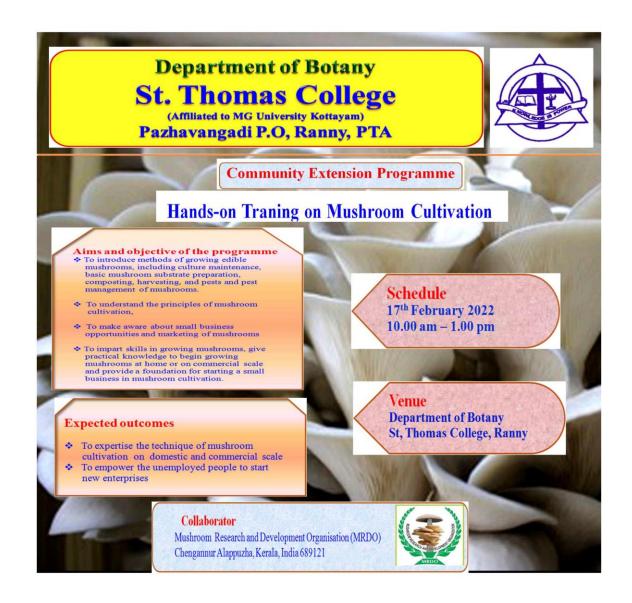
Pin-689 673

Pather and College

St. Thomas Co

DEPARTMENT OF BOTANY

Collaborating Institution	Mushroom Research and Development
	Organization (MRDO), Chenganoor
Nature of Collaboration	Memorandum Of Understanding (MoU
Year/Date of collaboration	2020-2021 / 29.09.2020 - 29.09. 2023
Duration of collaboration	3 years
Activity under collaboration	Mushroom Hands on training to
-	Kudumbasree unit & Students of
	St.Thomas College, Ranni on 17.02.2022









Media Advertisement on Training of Mushroom cultivation





MEMORANDUM OF UNDERSTANDING (MOU) FOR RESEARCH PARTNERSHIP AND COLLABORATION

This MOU is made and executed at Tiruvalla on this date of January 1st of the year 2021

BETWEEN

Pushpagiri College of Pharmacy, Thiruvalla an accredited (NAAC with grade A) self financing professional institution established in 2004, affiliated to Kerala University of Health Sciences, for imparting high quality education in pharmaceutical sciences and situated at Medicity Campus, Perumthuruthy, Thiruvalla, 689107 on the one part

AND

St Thomas College, Ranni an accredited (NAAC grade B) aided college established in 1964 Affiliated to Mahatma Gandhi University, Kottayam carries out arts, science and commerce education and Research in all these fields has qualified and certified multidisciplinary team of scientists.

Pushpagiri College of Pharmacy, Tiruvalla and St Thomas College, Ranni and recognized that mutual collaboration, given each other's strengths in research and facilities thereof will mutually benefit the students and faculties.

Now therefore the parties hereto have agreed to enter into a Memorandum of Understanding (MOU) considering the benefits of sharing the knowledge between the Institutes and establish a vibrant academic collaboration, by undertaking joint activities in their respective fields of research and other activities as given below.

It is mutually agreed by and between the parties as under

I. Activities

- 1 Seek mutual advice and support in planning and executing programs promoting excellence in respective areas of research and education;
- 2 Encourage the regular / visiting faculty members and scientists of either institute to visit the other institute for giving talks in scientific sessions and seminars:
- 3 Encourage students a research personnel of either institute to attend in their seminars, workshops and conferences in the respective areas of interest



St. Thomas College, Ranni

Pazhavangadi P.O., Kerala, India - 689673 RE-ACCREDITED BY NAAC AT B LEVEL (Affiliated to Mahatma Gandhi University, Kottayam - Kerala)

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Share the library and scientific literature facilities mutually by giving access to library and other resources of either Institute to the scientists / students / research personnel of other Institute;

- 4. Encourage the faculty and research / graduate students of Pushpagiri College of Pharmacy, Thiruvalla and St Thomas College, Ranni to visit the other Institute for short durations for getting research inputs and guidance upon recommendation from the research guides/faculty members of Pushpagiri College of Pharmacy. Tiruvalla and St Thomas College, Ranni and the Heads of the Institutions;
- Encourage joint research activities and projects by the faculty members / scientific personnel of Pushpagiri College of Pharmacy, Tiruvalla and St Thomas College, Ranni

II. Fees and Charges

If any charges/ expenses are to be paid by either Institute for the facilities provided by the other Institute, such will be decided by which also may be modified by the per the need.

Mou 2.jpg

III. Duration

The MOU is valid for a period of 12 months from the date of signing

IV. Termination

Either party is free to terminate the agreement by giving a notice of 1 month

V. Governing Law

The contract shall be governed by the rules and regulations of the institutions and the affiliating bodies.

For Pushpagiri College of Pharmacy, Tiruvalla.

For St Thomas College, Ranni

Wante of

Dr. Santhosh M Mathews
 Principal

Pushpagiri College of Pharmacy
 Tiruvalla

Prof. Dr. Santhosh M. Mathews Principal Pushpagiri College of Pharmacy NAAC Accredited with Grade 'A Medicity, Turvalla-689-107, Resila 2.

2. Dr. Aleyamma Xuruvilla Principal St Thomas College

> Ot. Thomas College Patheronaud P. G Bassy - 800 070

Ph: 04735-226238, 226738 (O)

BUVALLA, KERAL

PIN GUY 107

E-mail: stcranni@gmail.com, www.stcranni.ac.in



DEPARTMENT OF PHYSICS

Collaborating Institution	Pushpagiri College of Pharmacy
Nature of Collaboration	Memorandum Of Understanding (MoU)
Year/Date of collaboration	2020-2021 / 01.01.2021- 01.01.2022
Duration of collaboration	1 year
Activity under	Microbiology lab work of the MSC project
collaboration	(3 students)

ACTIVITY UNDER THE MoU



Dated: 09/02/2022

From, The Principal.

Anju Joseph, Assistant Professor and Project guide, Department of Physics, St. Thomas College, Ranni.

Dear Madam,

Sub: The result of antibacterial studies for M.Sc. Research Project of Aravind S, Libin Santhosh and Abhirami S.

The samples submitted by the research scholars were determined for antibacterial activity in

The results of antibacterial studies of your submitted samples are sending herewith.

Sample Name	Zone of inhibition again	est gram positive	Zone of inhibition against gram negat		
Sample Name	Standard antibiotic	Samples	Standard antibiotic	Samples	
Sample 1	4 cm	2 cm	3.0 cm	1.3 cm	
Sample2	3.5 cm	1 cm	3.2 cm	1.5cm	
Sample3	3.4 cm	1.6 cm	3.5 cm	2 cm	

Yours Faithfully. mark re



Pushpagiri Institute of Medical Sciences and Research Centre - Pushpagiri Medical College Hospital
 Pashpagiri Heart Institute - Pushpagiri College of Dental Sciences - Pushpagiri College of Pharmacy
 Pushpagiri College of Nursing - Pushpagiri College of Allied Health Sciences - Pushpagiri Centre of Nursing
 Pushpagiri Centre for CGFNS and IELTS Training - Pushpagiri Research Centre

Proof of the MSc Project of MSc Students of St, Thomas College, Ranni @ Pushpagiri College of Pharmacy





MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding has been made and executed at Ranni on the 6th day of July, year Two Thousand and Twenty, [06.07.2020]

BETWEEN

ST. THOMAS COLLEGE, Ranni, Pathanamthitta- 689673 Established in the year 1964, the College is affiliated to Mahathma Gandhi University, Kottayam. This College is involved in reaching the unreached through scientific dissemination of knowledge through outreach programs, community-based interventions, field studies, etc.

AND

KANAL INNOVATIONS CHARITABLE TRUST - AN NGO based in Kollam which works for the empowerment of children and other weaker sections of the society through awareness and community development programs, Kanal is registered as a public trust under the Indian Trusts Act, 1882 in 2017.

SCOPE

This MoU has come into existence because ST. THOMAS COLLEGE, Ranni, Pathanamthitta-689673, and KANAL INNOVATIONS CHARITABLE TRUST has found a close connection in the past engagement via campaigns and awareness sessions provided by KANAL- under its various projects in alignment with its objectives of cross-organizational exposure.

KANAL has agreed to the following

- 1. Be a Knowledge Partner and conduct awareness sessions and Training for the members of ST. Thomas College, Ranni, Pathanamthitta.
- 2. Be an Action Partner and support on-site interventions with volunteers, guidance, and curriculum materials
- 3. Provide the opportunity for the members of St. Thomas College, Ranni for active community engagements and other campaigns of Kanal.

St Thomas College, has agreed to the following

- Give support for the establishment of Vayanayidam.
- Will organize and conduct outreach programs, surveys, and any other camps if required in accordance with the requirements.



- Any incident of conflict of interest should be informed in advance by both parties
- 4. It is assumed that both parties will give high priority to the "causes" of engagement than personal egos or personal gains
- 5. Both volunteers, members of the club and KANAL member's privacy must be respected, and contact information should not be shared without prior information and approval
- 6. Donation is possible and can cover knowledge and skill transfer, materials, and resources, and be kept at reasonable rates. The travel and accommodation, during the period of activity, will be taken by the parties separately and there will not be any sort of financial commitment between the parties.
- 7. The contracting parties can use the name and logo of the other party in their activities with prior permission.

UNDERSTANDING

This MoU will be effective for a period of two years initially from the date of this contract. This can be extended beyond the 2-year period, depending on mutual preferences. In case of any need for termination during the term, the reason must be investigated by both the parties and may be amicably terminated after open discussion. A minimum notice period of at least 15 days is required for termination, from either side, based on mutual agreement.

MODE OF OPERATION

An Executive Committee comprising Six members will be formed to make decisions regarding the plan of work and mode of operations. This committee will have the power to decide on the working plan. Termination of an executive member is possible, if the members of KANAL or ST. THOMAS COLLEGE, face any difficulties in executing the programs. The programs will be conducted mutually by or ST. THOMAS COLLEGE and KANAL, on mutual agreement.

OBJECTIVES

- 1. To bring about desirable behavioural changes in the attitude, knowledge, and skills of the children living in the area selected for the activity.
- Improve the quality of education of the children in the area selected for the activity.
- To create awareness on gender sensitivity, civic responsibilities, social commitments, cyber safety, interpersonal relationships, personal hygiene, sanitation, and safe menstruation among youngsters.
- 4. To impart scientific knowledge on health, comprehensive sexuality education, nutrition, and diseases among the population.
- To make the Public aware of their legal rights.
- 6. To train the people on sustainable livelihood programs, like income generation options.





- 1. Chairman: Adv. ANSON PD ALEXANDER, Director, Kanal Innovations
- 2. General Secretary: Dr Sneha Elcy Jacob, Assistant Professor, St. Thomas College, Ranni
- 3. General Secretary: GowriGeetha Anil, Outreach and HR Coordinator, Kanal Innovations
- 4. Secretary: Dr Rigy Idiculla, Assistant Professor, St. Thomas College, Ranni
- 5. Secretary: Dr Devipriya M, Assistant Professor, St. Thomas College, Ranni
- 6. Secretary: Athira Krishnan, Public Relationship Coordinator, Kanal Innovations

<u>AUTHORISATION</u>

The signing of this MOU is a formal undertaking. It implies that the signatories will strive to reach, to the best of their ability, the scope and terms stated in the MOU.

On behalf of the organization I represent, I wish to sign this MOU and contribute to its development

1. Name: Dr Aleyamma Kuruvilla

Title: Principal, St Thomas, College, Ranni

Date:

2. Name: - ANSON P D ALEXANDER

Title: - Director, Kanal Innovations

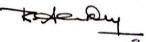
Date:-

-My



WITNESSES:

- 1. Sreechandhana C S, Editor, Kanal Innovations
- 2. Dr R Aruna Devi, Assistant Professor, St. Thomas College, Ranni -



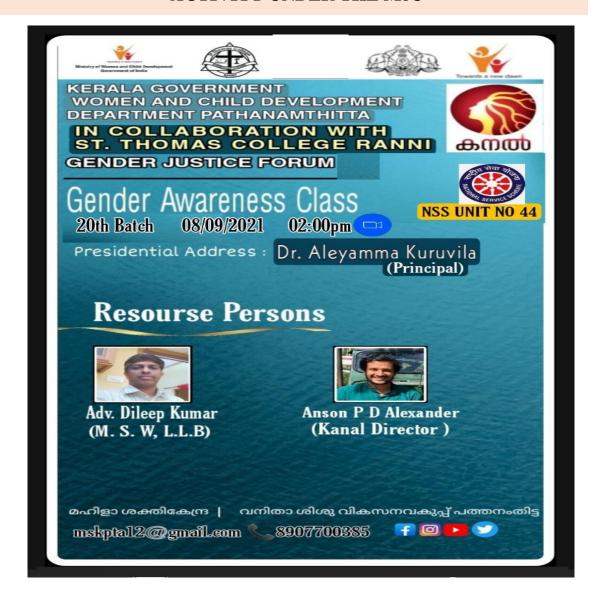




ST. THOMAS COLLEGE, RANNI

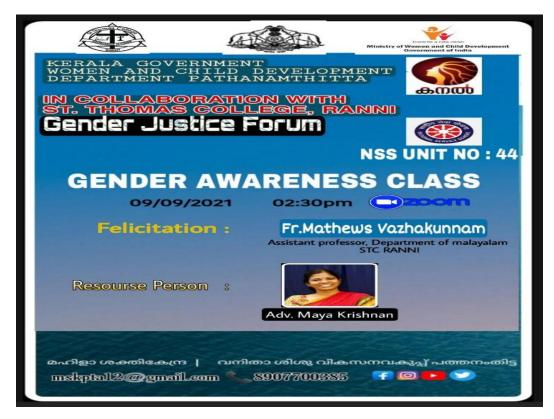
Collaborating Institution	Kanal innovations & Charitable Trust
Nature of Collaboration	Memorandum Of Understanding (MoU)
Year/Date of collaboration	2020-2021 / 06.07.2020- 05.07.2022
Duration of collaboration	2 year
Activity under collaboration	Legal Awareness classes for College Students

ACTIVITY UNDER THE MoU



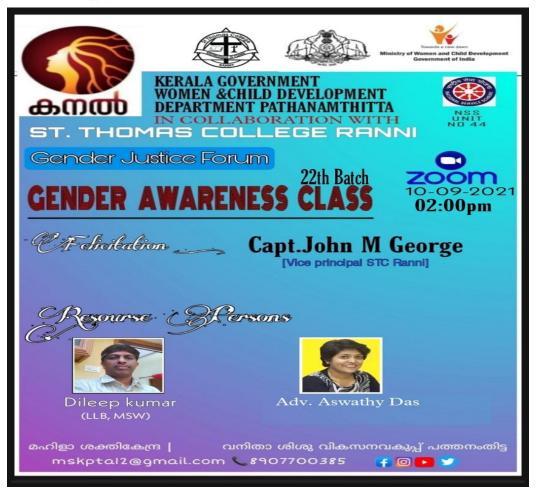


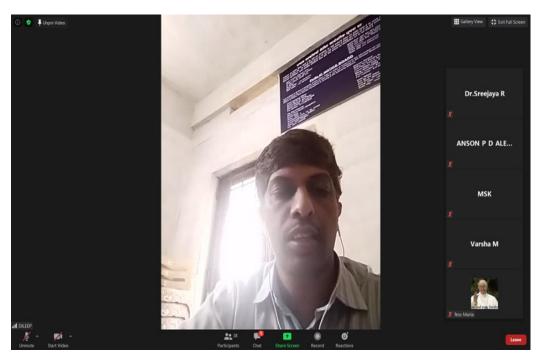




Gender Awareness class for college students







The webinar series of "KANAL"

In association with Women and Child welfare department conducted a webinar series for all college students through scheduled zoom meeting from 8.9.2021 to 10.9.2021

MSK PTA is inviting you to a scheduled Zoom meeting.

Topic: KANAL CAMPAIGN - Batch 20

Time: Sep 8, 2021 02:00 PM Mumbai, Kolkata, New Delhi

Join Zoom Meeting

https://us02web.zoom.us/j/83136897705?pwd=bzR5eHBUb3pFK2NkMll2dDduVkpJUT09

Meeting ID: 831 3689 7705

Passcode: 855694

MSK PTA is inviting you to a scheduled Zoom meeting.

Topic: KANAL CAMPAIGN - BATCH 21

Time: Sep 9, 2021 02:30 PM Mumbai, Kolkata, New Delhi

Join Zoom Meeting

https://us02web.zoom.us/j/81755101709?pwd=WEFNK2JtblU2QTFyUjEyckk0UExUdz09

Meeting ID: 817 5510 1709

Passcode: 157083

SK PTA is inviting you to a scheduled Zoom meeting.

Topic: KANAL CAMPAIGN-BATCH 22

Time: Sep 10, 2021 02:00 PM Mumbai, Kolkata, New Delhi

Join Zoom Meeting

https://us02web.zoom.us/j/88380988230?pwd=dmlNRU9NeStIVVgzeDFjM2JFb1Ntdz09

Meeting ID: 883 8098 8230

Passcode: 161583





Webinar series of "Kanal" in association with women & child welfare

Department and St.Thomas College, Ranni

MEMORANDUM OF UNDERSTANDING

BETWEEN



CLEAN KERALA COMPANY LIMITED THIRUVANANTHAPURAM

AND



ST. THOMAS COLLEGE

Ranni, Pathanamthitta Dist.

For

IMPLEMENTING SUSTAINABLE WASTE MANAGEMENT PRACTICES

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter "Memorandum" or MoU) is dated this the 3rd day of February 2022

BETWEEN

Clean Kerala Company Limited having its registered office at State Municipal House, Vazhuthacaud, Thiruvananthapuram – 695010 (hereinafter referred to as "First Party" which expression shall mean and include its administrators and permitted assigns),

AND

The Prinicpal, St. Thomas College, Ranni having their office at Ranni, Pathanamthitta district (hereinafter referred to as "Second Party" which expression shall mean and include its administrators and permitted assigns).

(Referred to herein as "Parties" or individually as "Party")

WHEREAS

- A. The parties are interested in working together in connection with the Purpose which is described in this Memorandum.
- B. This Memorandum sets out the initial relationship between the Parties as well as the respective rights and responsibilities of each Party.
- C. Each Party respectively is expected to act in good faith in accordance with this Memorandum.

2

NOW THEREFORE IN CONSIDERATION OF the premises and the mutual covenants set forth herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged the parties hereto covenant and agree as follows:

PROJECT AND PURPOSE

- A) The Parties intend to work together on a project which is meant to deal with the non-biodegradable waste and electronic and hazardous wastes generated in the campus.
- B) The Project has the following purpose:

 To develop a system for collection, sorting, segregation and safe disposal of the non-biodegradable waste and electronic and hazardous wastes generated in the campuses of St. Thomas College, Ranni thereby implementing sustainable waste management practices.

GENERAL OBLIGATIONS

- a) The Parties will act in good faith and will use their best endeavours to achieve the Purpose and to give effect to the terms of this Memorandum.
- b) The Parties hereby acknowledge and agree that they will each respectively perform all acts and execute all documents as reasonably required in order to give effect to the terms of this Memorandum.
- c) Each Party agrees to cooperate in the spirit of mutual understanding and goodwill in order to develop the Parties' melationships with one another and in order to pursue the purpose.

ROLES OF PARTIES

- a) St. Thomas College, Ranni will have the following obligations in relation to the Project:
 - Provide a material collection facility in the campus for storage of material prior to transportation
 - Facilitate efficient and regular collection operations throughout the campus.
 - Ensure segregation of the non-Biodegradable waste and recyclable e-waste and hazardous waste materialand aggregation of the same

- to the point from where Clean Kerala Company should collect the material
- 4. Loading of material to the collection vehicle arranged by Clean Kerala Company
- Designate an Officer in the campus from among the Faculty members to facilitate CKCL where this project is undertaken to coordinate the activities under this project
- 6. Organise programmes to create awareness on sustainable waste management practices among the campus users
- Building a framework to monitor the activities and sustenance of this project
- Devise strategies to reduce waste generation in the campus, implementation of green protocol
- Provide PPE Kit to persons engaged in collection of bio medical waste from different locations of the campus.
- b) Clean Kerala Company Limited will have the following obligations in relation to the Project:
 - Collection of Non-Biodegradable waste and e-wastes and hazardous wastesseparately from a single point in the campus. The rates for disposal for hazardous chemicals shall be informed in writing before lifting.
 - 2. The rates for disposal of e-wastes and hazardous and se-wastes shall be based on the standing government order (e-waste G.O.(Rt) No. 479/2021/LSGD, G.O. No. 1117/16/LSGD and G.O no. 3326/2017/LSG for definitions of e-waste and hazardous e-waste). Any amendments in the above-mentioned orders shall be duly communicated to the second party. The rates payable to the College for the non-biodegradable waste is given in the table below.

SI No	Item	Unit	Price in Rs.
	Metal		
1	Metal Scrap	KG	15
2	Stainless Steel	KG	50
3	Aluminium soft drink can	KG	30

	Paper		
4	News Paper	KG	9
5	White paper / Answer sheet	KG	5
	Plastics		
6	Milk Pouch	KG	10
7	Oil Cover	KG	3
8	Paper cup	KG	2
9	Tetra Pack	KG	2
10	PET Bottle	KG	10
11	Aluminium Foil	KG	10
12	Multi-Layer plastic/Thermocol / unsegregated plastic products	KG	NIL

- *Any other items and its rate that comes up during the project period will be finalized mutually.
- All payments for lifting of the waste material shall be made within 10 days of generation of invoice from CKCL and all payments due to the college being the value of the waste as per table above will be paid in 10 days.
- Implementation of collection calendar determining the frequency of collection, specific types of material to be collected, etc which will be finalised by mutual discussion and once finalised that will form part of this MoU.
- Logistics arising from the single point collection to recycling or disposal stations (includes transportation from the collection point to RRFs and beyond).
- Coordination and liaising with the officers from St. Thomas College, Ranni who are appointed as the nodal officer/s for this project.
- 7. Provide faculty support for organising training /awareness programmes.
- 8. Guidance in recordkeeping and monitoring of the project.



- Ensure safe and scientific disposal of all waste collected including landfilling of non-recyclable materials derived from the collected material as the case may be.
- 10. Payment of predetermined rates for recyclable e-waste and others.
- 11. Invoicing of the materials which are hazardous and non-recyclable to the College and levy the cost involved for safe disposal.
- 12. Issue receipt on removal of waste from the campus.

4. TIME AND DURATION OF THE PROJECT

- a) This Memorandum will remain in effect for a period of One Year from the date of signing, unless and until otherwise terminated by the Parties.
- b) The Parties may terminate this Memorandum by mutual agreement.
- Either Party may terminate this Memorandum by giving notice of 45 days to the other Party.

5. TAXES, DUTIES AND LEVIES

All central, state or local taxes and levies applicable from time to time shall be paid by both Parties as per Government rules and procedures in vogue.

6. ENVIRONMENT, HEALTH, SAFETY POLICY AND PRACTICE

Both Parties shall implement and adhere to the environment, health and safety policy and practices, during the contract period. The employee and worker safety, control mechanisms of litter, pest, odour, fire, surface runoffs, etc. shall be taken care by both the parties.

FORCE MAJEURE

Neither the First Party nor the Second Party shall be held responsible for non-fulfilment of their respective obligations under this agreement due to the exigency of one or more of the force majeure events such as natural disasters, civic unrest, military unrest, etc. provided on the occurrence and cessation of any such events, the party affected thereby shall give a notice in

6

writing to the other party within fifteen days of such occurrence or cessation. If the force majeure conditions continue beyond three months, the party shall then mutually decide the future course of action.

8. AMENDMENT OR CANCELLATION OF THIS MEMORANDUM

This Memorandum may be amended or modified at any time in writing by mutual consent of both parties.

In addition, the Memorandum may be cancelled by either party with 45 days advance written notice, with the exception where cause for cancellation may include, but is not limited to, a material and significant breach of any of the provisions contained herein, when it may be cancelled upon delivery of written notice to the other party.

DISPUTE RESOLUTION

- a) Any dispute(s) arising out of this Memorandum shall, as far as possible, be settled amicably between the Parties hereto failing which the following shall apply:
- b) The Government of Kerala will take the final decision over any dispute, differences or claims arising out of this Memorandum and that will be binding on both parties.

SEVERABILITY CLAUSE

In the event that any provision of this Memorandum shall be deemed to be severable or invalid, and if any term, condition, phrase or portion of this Memorandum shall be determined to be unlawful or otherwise unenforceable, the remainder of the Memorandum shall remain in full force and effect, so long as the clause severed does not affect the intent of the Parties. If a court should find that any provision of this Memorandum to be invalid or unenforceable, but that by limiting said provision it would become valid and enforceable, then said provision shall be deemed to be written, construed and enforced as so limited.

ENTIRE AGREEMENT

The herein contained Memorandum constitutes the entire understanding of the Parties pertaining to all matters contemplated hereunder at this time. The Parties signing this MoU desire or intend that any implementing hereto shall supersede and pre-empt any conflicting provision of this Memorandum whether written or oral.

APPLICABLE LAW

This Memorandum shall be governed by and construed in accordance with the laws of the State of Kerala.

13. AUTHORISATION AND EXECUTION

The signing of this Memorandum as such intends that the signatories shall strive to reach, to the best of their abilities, the goals and objectives stated in this MoU.

This Memorandum of Understanding shall be signed by District Manager, Pathanamthitta (Clean Kerala Company Limited, Thiruvananthapuram) and Principal, St. Thomas College, Ranni, Pathanamthitta Dist. and shall be effective as of the date first written above.

DI EEP KUMAR M.B

District Manager

(District Manager, Pathanamthitta Clean Kerala Company Ltd. (Under LSGD-Government of Kerala)

3.02.2022

Clean Kerala Company Limited)

Pathanamthitta Ph: 75580899333 Email: pta.ckcl@gmail.com

Principal, St. Thomas College, Ranni)

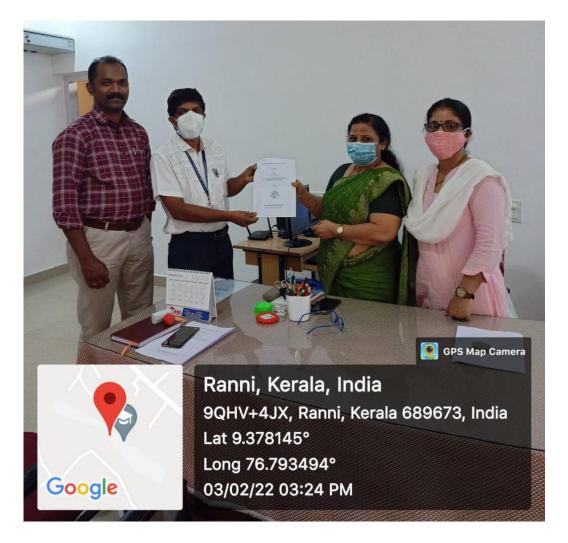
PRINCIPAL Dr. ALEYAMMA KURUVILLA ST. THOMAS COLLEGE PAZHAVANGADI P.O., RANNI-889 673

.....

3.02.2022



Collaborating Institution	Clean Kerala Company
Nature of Collaboration	Memorandum Of Understanding (MoU)
Year/Date of collaboration	2021-2022 / 03.02.2022 – 02.02.2023
Duration of collaboration	1 year
Activity under collaboration	Implementing sustainable waste management practices



Signing of the MoU with Clean Kerala Company



SOLID WASTE MANAGEMENT UNITS









Solid waste collection unit inside the campus



കേർളo केरल KERALA

DA 044325

MEMORANDUM OF UNDERSTANDING

BETWEEN

TROPICAL INSTITUTE OF ECOLOGICAL SCIENCES (TIES), KOTTAYAM, KERALA

AND

ST. THOMAS COLLEGE, RANNI

This Memorandum of Understanding (MoU) is entered into between TROPICAL INSTITUTE OF ECOLOGICAL SCIENCES (hereinafter called TIES) with the registered office at Ecological Research Campus, Velloor, Kottayam, Kerala and ST. THOMAS COLLEGE, RANNI for the purpose of expanding and promoting teaching, research, and dommunity extension and development programmes for the benefit of the community, nature, faculty, students and NGO.

I. Tropical Institute of Ecological Sciences (TIES) agrees that:

- A. TIES will provide partner Colleges with experts for projects and programmes under CNPI, and all technical assistance such as research methodologies, survey sheets, trainings etc.
- B. TIES will provide identification keys, field guides, and laboratory and field research protocols to conduct experiments for the projects/programmes under CNPI.

C NI

No. 14311 Rscool-Principal

Amina Beer P.



കേരളo केरल KERALA

DA 044326

- C. TIES will provide expert trainings to conduct various research and community development programmes of the college under CNPI.
- D. TIES will provide project opportunities for individual students/ faculty members recommended by the college for projects in various funded projects as per the rules and regulations of the Universities and Governments.
- E. TIES will submit grades for each student/ faculty participated in CNPI to the college for evaluation purposes.
- F. The CNPI activities will be monitored regularly by TIES team and periodic reports will be communicated to the college.
 - G. TIES will assist in preparation of publicity materials, publication of reports, scientific papers and other publications.
- H. TIES will provide its infrastructure facilities of TIES campus for various projects/programmes under CNPI, if needed.
- I. TIES will make the arrangements and provide sufficient help for getting legal permissions and other official permissions required for community linked activities such as sample collection, studies inside the forest areas, visit to government institutions, etc.

J. TIES will not be responsible for any loss incurred to the unforeseen reasons beyond our control.

No 14312 RSvol Principal 13/1/2022 St. Thomas College



- K. No financial support will be provided by TIES in conducting CNPI projects and programmes.
- L. The services offered by TIES under CNPI are chargeable and the same should be agreed by both parties and given in Annexure I. But the expenses towards laboratory experiments, printing and publication expenses, food expenses (during seminar/ workshop etc.) etc. if any, should be borne by the college.

II. St. Thomas College, Ranni agrees that:

- A. College will be responsible for organising all programmes and projects under CNPI as per pre-agreed time schedule. Timely conduct of programmes and implementation of project is the sole responsibility of the college.
- B. College shall identify and select the faculty members and students to work with CNPI for every academic year. Three to ten teachers and 75 to 150 students should be part of the CNPI. The rest of the students and faculty in the college shall be facultative participants. But all should be the beneficiaries of the CNPI.
- C. College shall provide its laboratory or other infrastructure facilities for the conduct of projects/programmes under CNPI.
- D. College shall make arrangements for regular monitoring and documentation of the programmes/projects under CNPI. This will be used for the final report publication.
- E. The organising expenses of various projects and programmes under CNPI will be borne by the college.
- F. College shall pay the consultation fee for TIES as per the schedule given in Annexure I.

III. Conditions of the Agreement

- A. This agreement will become effective upon signing by the designated representatives from both institutions for a period of one year (Or the period agreed by the parties).
- B. Any alteration of the provisions of this agreement will become effective only upon the mutual written consent of both institutions.
- C. This agreement is valid from the midnight of 17-01-2022 to the midnight of 16-01-2023 Indian Standard Time or it may be terminated upon the request of either parties made at least one month prior to the proposed termination date.









Collaborating Institution	Tropical Institute of Ecological Sciences (TIES)
Nature of Collaboration	Memorandum of Understanding (MoU)
Year/Date of collaboration	2021-2022 / 17.01.2022- 16.01.2023
Duration of collaboration	1 year
Activity under collaboration	Green Auditing the Campus



Certificate issued by TIES for Green Audit at College Campus

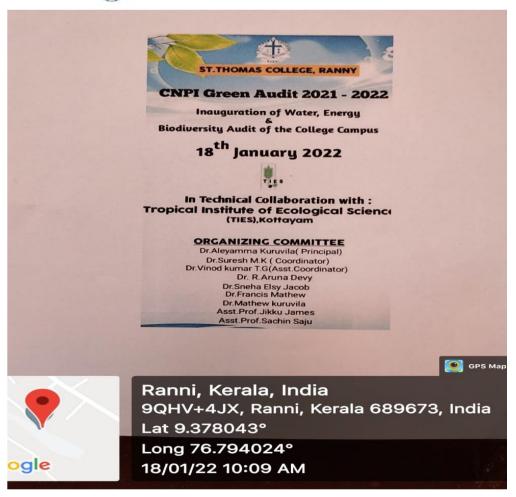
ASSESSMENT PERIOD 2017-2022



As a part of College - NGO Partnership Initiative (CNPI), an MoU was signed between St.Thomas College and Tropical Institute of Ecological Sciences (TIES) Green audit in campus on 18 th January, 2022. The training programme for the four audits – Biodiversity, Water, Energy and Waste was held on 18 th January, 2022. The programme was inaugurated by Dr.Punnen Kurian, Principal, St.Mary's College, Manarcaud, and Secretary TIES in the presence of Principal Dr. Aleyamma Kuruvilla, TIES Members – Dr.

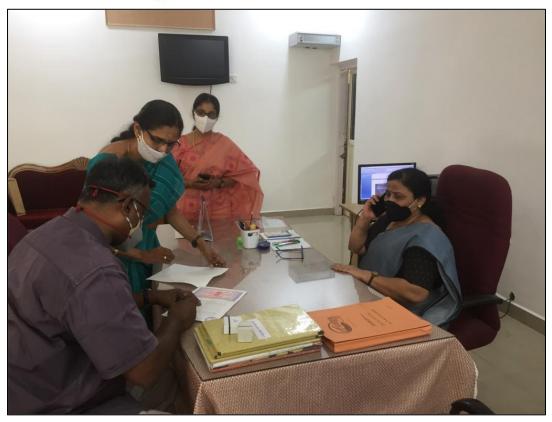
Nelson Abraham and Ms. Aupa. One Staff co-ordinator for each audit with 25 students was assigned to dothe audit. Biodiversity audit and Waste audit training was given by Dr. Nelson Abraham with practical sessions, Energy audit and Water audit training was given by Dr. Punnen Kurian with mock audit of water and energy.























ST. THOMAS COLLEGE, RANNI CNPI GREEN AUDIT 2021-2022



Programme Schedule

Date: 18/01/2022

Inaugural Session (10:00 a.m. - 11:00 a.m.)

Venue: Seminar Hall

Prayer song

: Sreelakshmi Nair, I DC Commerce

Welcome speech

: Dr. Suresh M.K. (Co-ordinator)

Presidential Address

: Dr. Aleyamma Kuruvilla (Principal)

Inaugural Address

: Dr. Punnen Kurian (Principal, St. Mary's College,

Manarcaud & Secretary, TIES, Kottayam)

:

Felicitation

: Prof. Santhosh K. Thomas (College Manager)

Vote of thanks

: Lakshmi Prakash V.P., I DC Physics

11:00 a.m. - 11:10 a.m. - Tea Break

11:10 a.m. – 12:30 p.m. – Energy Audit Training

12:30 p.m. - 01:00 p.m. - Practical Session (Mock Audit of Water and Energy)

01:00 p.m. - 01:45 p.m. - Lunch Break

01:45 p.m. - 03:00 p.m. - Biodiversity Audit

03:00 p.m. - 04:15 p.m. - Water Audit

4:15 p.m. - Valedictory Session



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St. Thomas College, Ranni

PAZHAVANGADI P.O., RANNI, KERALA, INDIA - 689 673

Re-Accredited at B Level by NAAC

(Affiliated to Mahatma Gandhi University, Kottayam, Kerala)

e-mail:- stcranni@gmail.com, www.stc.ranni.ac.in

Ph: 8301057965

08.06.2021

Collaborative Agreement

Department of Botany, St. Thomas College, Ranni appreciates the opportunity to collaborate with Poonkavanam Gardens, College Road, Pazhavangadi PO, Ranny, in consideration of the mutual promises made herein and of good and valuable consideration, the receipt and sufficiency of which both St. Thomas College, Ranni, and Poonkavanam Gardens shall encourage interaction between faculty members and students. Poonkavanam Gardens will provide plant materials for the students of botany for practical and project work and the college will provide technical guidance for nursery management for the collaborating partner.

The duration of the agreement shall be for a period of 1 year from the effective date. During this tenancy, the agreement may be extended or terminated by prior notice of not less than one month by either party. There are no binding commitments placed on either party by virtue of this collaboration.

We look forward, to this collaboration.

Devi Priya M.

Department of Botany

St. Thomas College, Ranni

Suresh Nicholas

POONKAVANAM GARDENS

COLLEGE ROAD, PAZHAVANGADI PO, RANNY

e-mail:surshmanchini@gmail.com

Ph: 9400119940

08.06.2021

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We look forward to this conaboration.

Mr. Suresh Nicholas Manchini

Proprietor

Dr. Devi Priya M.

Department of Botany

St. Thomas College, Ranni



DEPARTMENT OF BOTANY

Collaborating Institution	Poonkavanam Gardens, Pazhavangadi	
	, Ranni	
Nature of Collaboration	Collaboration	
Year/Date of collaboration	2021-2022 (08.06.2021 -07.06.2022)	
Duration of collaboration	1 year	
Activity under collaboration	Provided plant materials necessary for	
	practicals	



Department of Botany

St. Thomas College

Pazhavangadi P.O., Ranny, Pathanamthitta- 689673 E-mail – botanydeptstcranni@gmail.com

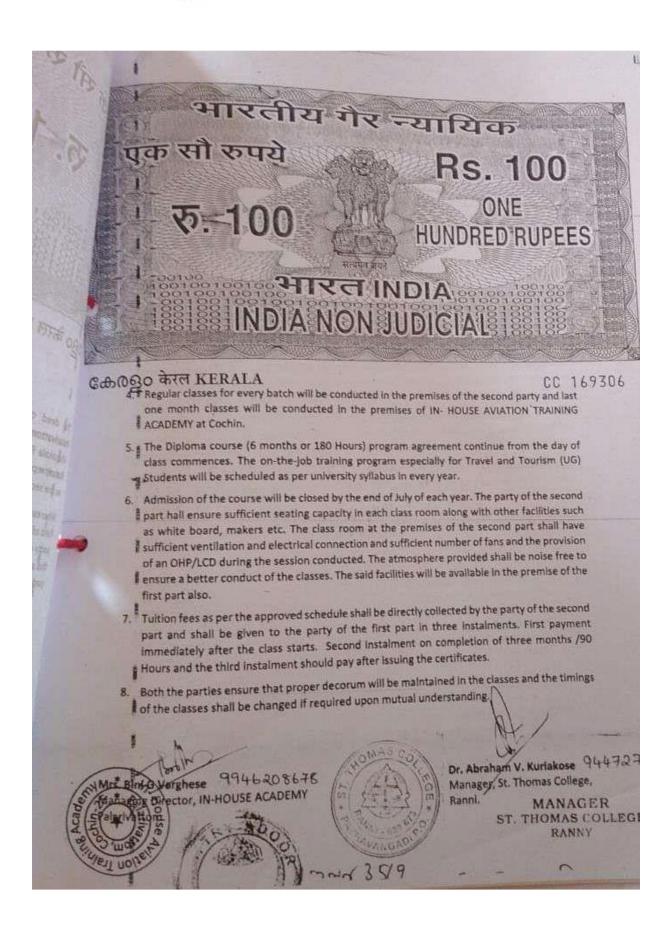
CERTIFICATE

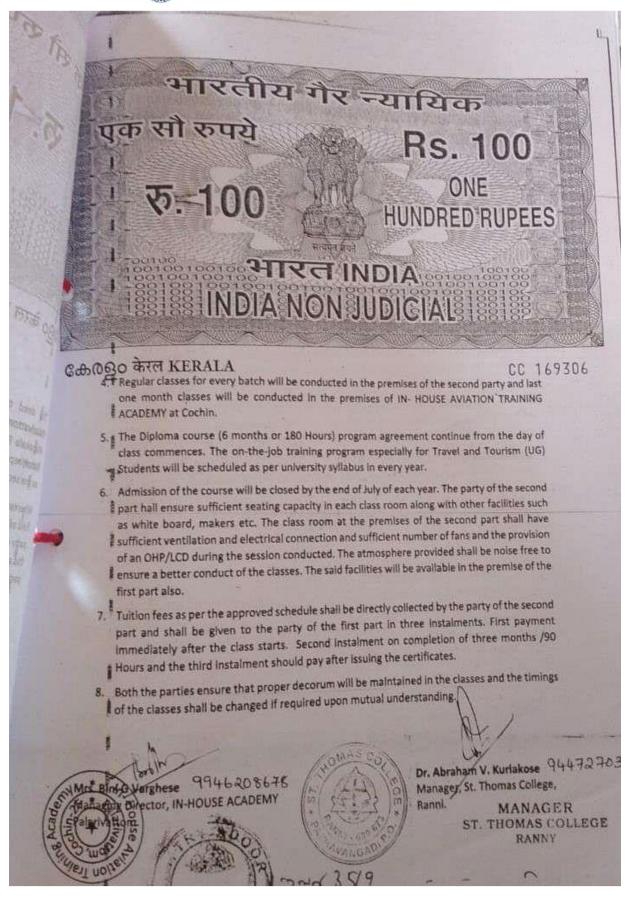
This is to certify that Poonkavanam Gardens provided the plant materials necessary for the conducting practicals for the students during the academic year 2021-22

DEVIPRIYA M.
Assistant Professor of Botany
St. Thomas College
Pazhavangadi P.O, Ranni - 689 673
Pathanamthitta
E-mail: devi.priya.m@gmail.com











DEPARTMENT OF TRAVEL AND TOURISM

Collaborating Institution	In- house Aviation Training Academy,	
	Palarivattom, Cochin	
Nature of Collaboration	Memorandum of Understanding	
	(MoU)	
Year/Date of collaboration	2019-2022 / 17/09/2019- 16/09/2022	
Duration of collaboration	3 year	
Activity under collaboration	Internship Training program	

ACTIVITY UNDER MoU- INTERNSHIP TRAINING PROGRAM,
GALLILEO CRS BASIC COURSE- 20 STUDENTS



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TESTIMONY

Mr. ABIN MATHEW, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from O3March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

During the training period, he seems to be hard working and sincere. I wish him every success in whatever endeavor he may undertake.

Bini G Varghese Managing Director

Palarivattom 16March2022



Metro Station, Palarivattom, Cochin - 682 025.

T: +91 9846 208 678, +91 9946 208 678 | E: inhouseaviation@gmail.com

Certificate issued by Aviation academy for the training program on Gallileo CRS Basic course

ASSESSMENT PERIOD 2017-2022



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TESTIMONY

Mr. AJISH GIGI, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

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Bini G Varghese

Managing Director

Palarivattom 16March2022





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TESTIMONY

Mr. ALBIN ANTONY LAWRENCE, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

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- Jeyla

Bini G Varghese Managing Director

Palarivattom 16March2022



AIRLINE & AGENCY TRAINING



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TESTIMONY

Mr. ALBIN BABU, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

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Bini G Varghese

Managing Director

Palarivattom 16March2022



ATHETRE & AGENCY THAINING



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TESTIMONY

Mr. ALEN. C. JOSEPH, Il year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

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Poull



Bini G Varghese Managing Director

Palarivattom 16March2022



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TESTIMONY

Mr. ANAND. S, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

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Bini G Varghese **Managing Director**

Palarivattom

16March2022



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TESTIMONY

Ms ARYA. M, Il year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. She has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

During the training period, she seems to be hard working and sincere.

I wish her every success in whatever endeavor she may undertake.

John John

Bini G Varghese Managing Director

Palarivattom 16March2022





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TESTIMONY

Ms ASWATHY SHIJU, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. She has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

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Polly

Bini G Varghese Managing Director

Palarivattom 16March2022



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TESTIMONY

Ms AYILYA SAJI, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. She has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

During the training period, she seems to be hard working and sincere. I wish her every success in whatever endeavor she may undertake.

Bini G Varghese **Managing Director**





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TESTIMONY

Mr. EDWIN JOHN. Il year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom

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Bini G Varghese Managing Director

Palarivattom 16March2022

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Metro Station, Palarivattom, Cochin - 682 025.

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TESTIMONY

Mr. JITHIN REJI, Il year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

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Bini G Varghese

Managing Director

Palarivattom 16March2022



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TESTIMONY

Mr. JITHU PRAKASH, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

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Ms JOICE MATHEW, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. She has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

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Bini G Varghese Managing Director

Palarivattom 16March2022



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TESTIMONY

Mr. JOSEPH MATHEW, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

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Bini G Varghese

Managing Director

Palarivattom

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TESTIMONY

Mr. KIRAN. S. SOMAN, Il year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

During his training period, he seems to be hard working and sincere. I wish him every success in whatever endeavor he may undertake.

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Bini G Varghese Managing Director



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TESTIMONY

Mr. NANDHU. M. NAIR, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

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Bini G Varghese

Managing Director

Palarivattom 16March2022



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TESTIMONY

Ms NEEGHA ANIL, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. She has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

During her training period, she seems to be hard working and sincere. I wish her every success in whatever endeavor she may undertake.

Bini G Varghese **Managing Director**





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TESTIMONY

Mr. RITHIK MANOJ, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

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Managing Director

Palarivattom

16March2022



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Mr. ROYS CHERIAN, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

During his training period, he, seems to be hard working and sincere. I wish him every success in whatever endeavor he may undertake.

Bini G Varghese Managing Director





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Mr. THARUN SABU, II year BTS student of St. Thomas College Ranni, Pathanamthitta District, has undergone the internship training program, Galileo CRS Basic Course conducted by us from 03March 2022 to 12March 2022. He has successfully completed the orientation and real time hands-on training at our Model Travel Agency facility at Palarivattom.

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Bini G Varghese

Managing Director

