



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Established Under Sec. 3 of UGC Act. 1956 - NAAC Accredited  
think • innovate • transform

## **3.7.2 Functional Memorandum of Understanding (MoU) with Institutions/ Industries in India and Abroad**



**2023 - 2024**

## **Functional MoUs with Institutions/ Industries in India and Abroad**

**2023 – 2024**

<b>Sl. No</b>	<b>Name of the Organization / Institution/ Industry with whom MoU is signed</b>	<b>Page Number</b>
1.	Vimanna Labs India Pvt. Ltd, Thanjavur.	4-18
2.	IPCS Global Solutions,Trichy,Tamilnadu.	19-37
3.	Twirltact Technology Solutions Private Limited, Coimbatore, Tamil Nadu.	38-55
4.	Thiagarajar College of Preceptors Teppakulam, Madurai	56-66
5.	Tamil University, Thanjavur`.	67-70
6.	St. Jude's Matric Higher Secondary School, Nidamangalam, Thiruvarur.	71-74
7.	AVVM Sri Pushpam College (Autonomous) Poondi, Thanjavur.	75-97
8.	Indian Spectro Physics Association (ISPA),Chennai.	98-111
9.	G.T.N Arts College (Autonomous), Dindigul.	114-143
10.	Armada Industrial Automation, Thanjavur.	144-151
11.	M/s Sri Design CAD Technologies Private Limited, Chennai.	152-165
12.	Unique MEP Engineering Academy Private Limited, Chennai.	166-172
13.	Prag Robotics Private Limited, Chennai .	173-185

14.	High Energy Batteries Ltd, Mathur, Pudukkottai.	186-189
15.	Periyar Centenary Memorial Matriculation Higher Secondary School, Trichy	190-194
16.	DFE Pharma India Pvt.Ltd, Cuddalore.	195-197
17.	Erode College of Pharmacy ,Erode	198-200
18.	Bon Secours College for Women Thanjavur	201-204
19.	Tamilnadu Forest Department Thanjavur Division,Thanjavur.	205-208
20.	ARD Biotech Industries , Thiruvannamalai	210-212
21.	Medicare Enviro System, Sengipatti , Thanjavur.	213-218
22.	Singapore South Asia Chamber of Commerce and Industry, Singapore	219-254
23.	Institut Teknologi Adhi Tama Surabaya, Indonesia.	255-257
24.	Cape Breton University, Cananda.	258-261



தமிழ்நாடு தமில்நாடு TAMIL NADU  
01-03-2023

Periyar Maniammai Institute of  
Science & Technology, (PMIST)  
(Deemed to be University)  
Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.

Ms. 20/2  
22AC, 436134.  
A. Karthikeyan

ஆ. கனிதாசனாமி  
இந்திய அந்நிய நடுவண்  
ச. அமரநாத் பாலாஜி நிர்வாகம்.  
வள்ளம், தஞ்சாவூர்.  
சு. அலுவல் எண் - 12012

**MEMORANDUM OF UNDERSTANDING**

**BETWEEN**

**VIMANNA LABS INDIA PRIVATE LIMITED**

**AND**

**DEPARTMENT OF AEROSPACE ENGINEERING**

**PERIYAR MANIAMMAI INSTITUTE OF SCIENCE AND TECHNOLOGY (PMIST)**

This Memorandum of Understanding (MoU) is entered between VIMANNA LABS INDIA PRIVATE LIMITED, a company incorporated under the Indian Companies Act, 2013 having its registered office at Periyar TBI, Periyar Maniammai Institute of Science And Technology (PMIST), Periyar Nagar, vallam, Thanjavur, Tamil Nadu and referred as VLIND, hereafter

And Department of Aerospace Engineering, Periyar Maniammai Institute of Science and Technology, (Deemed to be University), Periyar Nagar, Vallam, Thanjavur, Tamil Nadu referred as DoAS, PMIST, hereafter.

*P. Sathya Prakash*

**Dr. R.K. SRIVIDHYA,**  
REGISTRAR,  
Periyar Maniammai Institute of  
Science & Technology (PMIST),  
(Deemed to be University),  
Periyar Nagar, Vallam,  
Thanjavur - 613 403, Tamilnadu.

Both the Parties have decided to agree to establish industry-academic collaboration in areas of mutual interest and in accordance with terms and conditions set forth in this Memorandum of Understanding (MoU), and agree to conduct the following activities:

1. VLIND will provide Industry based skill development training programme for students of DoAS, PMIST on request basis.
2. VLIND will assist in organizing seminars, workshops and other academic activities along with DoAS, PMIST.
3. Fee for conducting any training programme will be decided depending on the type of course and contact hours on discussion between both the parties. VLIND shall issue course material and fee receipt to the participants.
4. The course certificate should be authorized and signed by both the parties.
5. VLIND will offer Summer/Winter internship to interested students of DoAS, PMIST at its offices/project-Locations to the students to get hands on experience of real time projects.
6. VLIND will facilitate the Students and Staff of DoAS, PMIST for industrial tours with prior approval of commencement of the activity.
7. VLIND will establish an integrated "TECH & ME" laboratory with various technologies such as Aeromodelling, Drone, Robotics, 3D Printing, IoT and Artificial Intelligence at the premises of PMIST.
8. VLIND will provide placement assistance to the trained students of DoAS, PMIST.
9. Each Party shall appoint one nodal officer to periodically review and identify ways to strengthen cooperation between them.

*P. Balachandran*

*[Signature]*  
**Dr. P.K. SRIVIDHYA,**  
REGISTRAR,  
Periyar Mariamman Institute of  
Science & Technology (PMIST),  
(Deemed to be University),  
Periyar Nagar, Velupuram,  
Thanjavur - 613 408, Tamilnadu.



## **PROGRAMME REPORT ON**

### **Value Added Course-Design and Development of Aero models**

Resource Person

**Ms.Anuja Kannan Mr.Nawaz Bash**

Organized by

**AERO- PMIST**



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Cannanore University  
Kannur University  
Kannur - 690 004, Kerala  
300000 • 300000 • 300000

## **PROGRAMME REPORT ON**

**Value Added course**

**Design and Development of Aero models**

Resource Person

**Ms.Anuja Kannan, Managing Director,  
M/s Vimanna Lab India Pvt.Ltd.,**

Organized by

**AERO- PMIST**

01\_Objective

**Periyar Maniammai Institute of Science and Technology (PMIST)**

**Department of Aerospace Engineering**

**Value Added Course**

**On**

**Design and Development of Aero models**

**Date: 04.03.2024 to 09.03.2024**

**Venue: TB1 333**

**Timing: 8.50 AM TO 4.30 PM**

**Coordinated by,**

**Mr.R.K.Muthuraman,**

**AP(SS)/Aerospace Engineering,**

**1**

**01 Objective**



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**Objective of the program**

- To explain about the concepts of design of aircrafts
- To make them aware about the aeromodelling and its competitions throughout the world
- To make the participants, to develop the models of their own and to test it

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01\_Objective

Brochure

**VALUE ADDED  
COURSE**



**PERIYAR  
MANIAMMAI  
UNIVERSITY**

**DEPARTMENT OF  
AEROSPACE ENGINEERING**

**DESIGN & DEVELOPMENT  
OF AERO MODELS**

**From:04.03.2024 - 09.03.2024**

**Venue:LH 333,TB-I PMIST**

**TOPICS COVERED**

- Introduction To Aeronautics and Aeromodelling
- Origami Flights
- Water Rocketry
- Static Model Making
- Glider and Its types
- Walk along glider
- Introduction to RC Planes
- Introduction to Aeronautical and Aeromodelling.
- Introduction to various Aeromodel Designs.
- Understand the principles of Flight of a UAVs

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01\_Objective

Programme Schedule

**Date:** 04.03.2024

**Venue:** Freud Hall

**Time:** 10.00 A.M

**Welcome Address:** Mr.I.Karthic Subramaniam, Head/Aerospace

**Presidential Address:** Dr.R.Kathiravan,Dean(FET)

**Guest Address:** Ms.Anuja Kannan, VLIND

**Vote of Thanks:** Mr.R.K.Muthuraman, Event Coordinator

01\_Objective

**Participants List**

<b>S.No</b>	<b>Register Number</b>	<b>Name</b>
1	123012017001	ABISHEK S
2	123011017002	ARCHANA A
3	123012017003	AROKYA PHILIP ASHWIN X R
4	123012017004	BALA SRI G
5	123011017005	CHRISTY RIYASINI JOAN W
6	123012017006	DESLINDS
7	123012017007	HARI KRISHNAN G
8	123012017008	HARI KRISHNAN SINGH B
9	123011017009	JAYALAKSHMI P
10	123012017010	KELVIN JOHN N
11	123012017011	KISHOTH YESUDAS
12	123012017012	MOHAMEDSAFEES
13	123012017014	MUKESH MUTHURAM G
14	123011017015	PAVITHRA NAIR R
15	123011017016	POOJA J
16	123012017017	PREETHIV RAJAN N S
17	123012017018	SURIYAN D K
18	123011017019	GAYATRI KRISHNA GEETHIKA M
19	123011016294	BARNIKA MA
20	123012016295	DEVAN R
21	123012016296	HARIHARAN D
22	123012016297	IRFAN SHAKEEL R
23	123011016299	RAMYA U
24	123011016300	RATHESHMA R
25	123012016301	SAMSU LUGHAJ
26	123012016302	SANTHOSH E
27	123012016303	SHARVESH S
28	123012016304	RAVIVARMAN E

01\_Objective

29	123012016298	RashikMohamed
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**Total Female Participants:10**

**Total Male Participants: 19**



**(R.K.MUTHURAMAN)**



**(I.KARTHIC SUBRAMANIYAN)**

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PAVITHRA NAIR R	123011017015	5	5	4	3	Maybe	4	Mam may have treated all equally and explained.	Space Technology
POOJA J	123011017016	1	1	1	1	Yes	1	Nil	Aeromodelling
KISHOTH YESUDAS	123012017011	5	5	4	5	Yes	5	Useful	Space Technology
MOHAMED SAFEER S	123012017012	3	4	4	4	Yes	4	Nil	Drone Technology
JAYALAKSHMI P	123011017009	5	5	5	5	Yes	5	-	Space Technology
KELVIN JOHN N	123012017010	4	4	4	4	Yes	4	Nothing	Space Technology
PREETHIV RAJAN N S	123012017017	2	3	2	1	Maybe	2	Useful	Space Technology
RAMYA U	123011016299	5	5	4	3	Maybe	4	Mam may have treated all equally and explained.	Space Technology
RATHESHMA R	123011016300	1	1	1	1	Yes	1	Nil	Aeromodelling
DEVAN R	123012016295	5	5	4	5	Yes	5	Useful	Space Technology
HARIHARAN D	123012016296	3	4	4	4	Yes	4	Nil	Drone Technology
SAMSU LUGHAJ	123012016301	5	5	5	5	Yes	5	Nothing	Space Technology
SANTHOSH E	123012016302	4	4	4	4	Yes	4	Nothing	Space Technology
IRFAN SHAKEEL R	123012016297	2	3	2	1	Maybe	2	Useful	Space Technology
SHARVESH S	123012016303	5	5	4	3	Maybe	4	Mam may have treated all equally and explained.	Space Technology
RAVIVARMAN	123012016304	5	5	4	5	Yes	5	Useful	Space Technology

**Program Feedback**

Name of the student	Register Number	Rate your opinion about the topic of the course?	Rate your opinion about the course content?	Rate your opinion about the deliverables of the course?	Rate your opinion about the instructor's content delivery?	Is the instructor(s) clarified your doubts then and there?	Overall rating of the course?	Suggestions for improvement	Which course you like to have as Value Added Course for the upcoming semesters?
ARCHANA A	123011017002	3	4	4	4	Yes	4	Nil	Drone Technology
MUKESH MUTHURAM G	123012017014	5	5	5	5	Yes	5	-	Space Technology
Barnika M A	123011016294	4	4	4	4	Yes	4	Nothing	Space Technology
Hari Krishnan Singh.B	123012017008	2	3	2	1	Maybe	2	Useful	Space Technology
M.Gayatri Krishna geethika	123011017019	5	5	4	3	Maybe	4	Mam may have treated all equally and explained.	Space Technology
CHRISTY RIYASINI JOAN W	123011017005	1	1	1	1	Yes	1	Nil	Space Technology
D. K. Suriyan	123012017018	5	5	4	5	Yes	5	Can explain it using readymade HC plane for more clarity	Space Technology
AROKYA PHILIP ASHWIN X R	123012017003	3	4	4	4	Yes	4	Nil	Drone Technology
BALA SRI G	123012017004	5	5	5	5	Yes	5	-	Space Technology
DERSLIN DS	123012017006	4	4	4	4	Yes	4	Nothing	Space Technology
HARI KRISHNAN G	123012017007	2	3	2	1	Maybe	2	Useful	Space Technology

01\_Objective



**Geotagged Photos**



**Image.1 Value Added Course Delivered by Resource Person- Geo tagged Photo 1**



**Image.2 Value Added Course - Geo tagged photo 2**

Certificate Copy



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01\_Objective



தமிழ்நாடு தமிலநாடு TAMIL NADU

19.10.2022

PMIST

VALLAM, THANJAVUR.

Rs. 20/-  
09AC.701522

A. Karthikeyan  
ஆ. கவிதாமணி  
முத்திரைதாள விற்பனையாளர்.  
காமராஜ் பேருந்து நிலையம்.  
வலமை, தமிழ்நாடு.  
உரிமம் எண் - V2012

**Memorandum of Understanding for Industrial and Academic Cooperation**

Between

**PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY**  
(Deemed to be University), Vallam, Thanjavur, Tamilnadu

AND

**IPCS GLOBAL SOLUTIONS (GLOBAL VIEW AUTOMATION & TECHNOLOGIES)**  
Tiruchirappalli, Tamilnadu

This Memorandum of Understanding ("MoU") for general cooperation is entered into an effective as of 07.12.2022 by and between:

"Periyar Maniammai Institute of Science & Technology (Deemed to be University), Periyar Nagar, Vallam, Thanjavur - 613403, TamilNadu" here in after referred to as "INSTITUTION" & Accredited by NAAC, UGC recognized having University at Periyar Nagar Vallam, Thanjavur-613403, TamilNadu represented by its Registrar Dr.P.K.Srividhya (hereinafter referred as 'First Party')

AND

IPCS Global Solutions (GLOBAL VIEW AND AUTOMATION TECHNOLOGIES) hereinafter called the party of the first part represented by it's Branch Manager, Mrs. Nirmala Manikandan, Chitra Complex, Chathiram Bus Stand, Trichy, Tamil Nadu ( here in after referred to as "Second Party")

82/

M. Nirmala

**WHEREAS:**

1. First party is **Periyar Maniammai Institute of Science & Technology (Deemed to be University)** inculcates the value of life beyond curriculum and explores the full potential of the student's creativity in conducive learning environment.
2. At Present, first party offers Seven Under graduate and Five post graduate programmes in Engineering & Technology.
3. First party believes that the most promising opportunities for discovery exist at the intersections of conventional disciplines, and creative emerging technologies which will evolve out of multidisciplinary exposure and partnerships. PMIST is committed to excellence in all its endeavors.
4. First party complements this with a sound academic base which enables our students to get a head start in an increasingly complex world, thus preparing them for the global challenges of tomorrow.
5. First party believes in partnerships between Industry, Government, and premier educational Institutions for a good exposure to students which may yield countless innovations.
6. Second Party , IPCS Global Solutions (Global View Automation and Technologies) IPCS Global (Global View Automation and Technologies) is a technology intensive company, delivering automation/ software services to enterprise customers whose in-depth understanding of clients' environments allows to build complete automation solutions, e-business branding solutions that revolve around corporate goals and marketing objectives.
7. Second Party operates with a primary objective of creating a robust technical education through its experience in industrial products and services. It is intended to bridge today's gap between industry requirements and technical education, and provide solution that makes technical institutes be more aligned with industry needs and make engineering graduate students, industry compliant / on par with industry expectations.
8. Second Party & First Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provides each of their resources, and provide each of them with enhanced opportunities.
9. Both Parties, being legal entities in themselves desire to sign this MoU for advancing their mutual interests.



M. Nirmala

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:**

**CLAUSE 1 : CO-OPERATION**

- 1.1 Both Parties are united by common interests and objectives, and they shall establish co-operation.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities suitable teaching / training systems, keeping in mind the needs of the industry.
- 1.3 The parties shall co-operate with each other and shall as promptly as is responsibly practical, relevant agreement.

**CLAUSE 2: SCOPE OF THE MoU**

**2.1 Industrial Training & Visits:**

Industry and Institution interaction will provide an insight into the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party.

A student / faculty who has completed any offered IPCS course will be given 10 Hours of free Lab usage time after the course within one-year duration. The timing will be decided by IPCS based on the availability.

**2.2 Guest Lectures:**

Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.

**2.3 Placement of trained students:**

Second party will actively engage to help the delivery of the training and placement of the students of the first party on the technology trends and in house requirements

**2.4 There is no financial commitment on both the parties, to take up any Program /activities mentioned in the scope of MoU /co-operation mentioned in the MOU. If there is any financial consideration, it will be dealt separately.**

**2.5 Both Parties to obtain all internal approvals, consents, permissions, and licenses of Whatsoever nature required.**



M. Nirmala

**CLAUSE 3: VALIDITY**

3.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms.

**CLAUSE 4: RELATIONSHIP BETWEEN THE PARTIES**

4.1 It is expressly agreed that First Party and Second Party are acting under this MOU as Independent contractors, and the relationship established under this MOU shall not be construed as a partnership.

For and behalf of

PMIST

**Dr. P.K. Srividhya,**  
Registrar,  
Periyar Maniammai Institute of  
Science & Technology,  
(Deemed to be University),  
Vallam, Thanjavur, Tamilnadu - 613403

First Party

Date: 07-12-2022

**Periyar Maniammai Institute of  
Science & Technology, (PMIST)  
(Deemed to be University)  
Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.**

For and behalf of

IPCS Global Solutions (Global View  
Automation and Technologies)

**Mrs. Nirmala Manikandan**  
Branch Head,  
IPCS Global Solutions (Global  
View Automation and Technologies)  
Tiruchirappalli, Tamilnadu. - 620002

Second Party

Date: 07-12-2022



**In Presence of**

Witness

1. Dr. A. George, Dean Academics
2. Dr. C. Narmadha, HOD/ECE

Witness

1. (D. KARUNESH)
2. (SAHAYA BESKI)

**VALUE ADDED COURSE**  
**MACHINE LEARNING USING PYTHON**  
**(10.10.2023 TO 13.10.2023)**

## INDEX

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2.	Program schedule
3.	Brochure
4.	Syllabus
5.	Session schedule
6.	VAC Report
7.	Student Name List
8.	Participant Attendance
9.	Geotagged photo
10.	Certificates
11.	Feedback
12.	Outcome



## **1. OBJECTIVE**

- Able to understand the basic concepts and techniques of Machine Learning.
- To develop the skills required for Machine Learning Technologies.
- Able to solve problem using powerful machine learning algorithms.

Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, India Phone :

+91-4362-264600 Fax: +91-4362-264660

E-mail: headece@pmu.edu Web: www.pmu.edu

**1. PROGRAMME SCHEDULE**

## PROGRAMME SCHEDULE


**Venue: VALLUVAR HALL**

**Date: 10.10.2023**

**Time: - 11.30 A.M**


Sl.No.	Events	Time
1.	<b>Welcome Address</b> Ms .M. Lavanya Class Rep (III Year)	10.30 – 10.35 a.m
2.	<b>Special Address</b> Dr. R. Kathiravan, Prof & Dean FET Dr. C. Narmadha, Asso.Prof & Head Dr.S.P.K Babu , Prof/ECE	10.36 – 10.40 a.m
3.	<b>Resource person</b> Ms.P.RAHINI, IT Trainer, IPCS Global Solutions Global View Automation & Technologies Trichy.	10.41 – 10.50 a.m
4.	<b>Vote of Thanks</b> Rukshana Begum N - I ECE	10.51 – 10.55 a.m

### 3. BROCHURE

 **PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Established Under Sec. 3 of UGC Act, 1956 - NAAC Accredited  
think • innovate • transform

**VALUE ADDED COURSE ON**

# **MACHINE LEARNING USING PYTHON**



**Duration**  
10.10.2023  
to  
13.10.2023

**P.RAHINI,IT Trainer**  
IPCS Global Solutions  
Global View Automation &  
Technologies

**CO-ORDINATORS**  
Dr.C.RAJANANDHINI,AP[SG]  
Ms.C.SATHYA,AP

**CONVENOR**  
Dr.C.NARMADHA  
Asso.Prof & Head

**DEPARTMENT OF  
ELECTRONICS AND COMMUNICATION ENGINEERING**

[www.pmu.edu](http://www.pmu.edu)

#### 4.SYLLABUS

Sl.No	Course Modules	Hours
1.	Introduction to Python, Installation and Package Creation Machine Learning and its type.	08
2.	Regression	08
3.	Classification Clustering	08
4.	Neural Networks and Visualization	08

#### 5.SESSION SCHEDULE

##### Value Added Program on “Machine Learning Using Python”

(10<sup>th</sup> Oct to 13<sup>th</sup> Oct 2023)

S.NO	DAY	FN: 09.00 AM to 12.40 PM                      AN: 1.30 PM to 5.00 PM	
		SESSION 1	SESSION 2
1	Day 1	Introduction to Python, Installation	Package Creation Machine Learning and its type.
2	Day 2	Regression	Regression
3	Day 3	Classification	Clustering
4	Day 4	Neural Networks	Visualization

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, India  
Phone : +91-4362-264600 Fax: +91-4362-264660  
E-mail: headece@pmu.edu Web: www.pmu.edu



Name of the Event: Value Added Program on “MACHINE LEARNING USING PYTHON

Date : 10.10.2023-13.10.2023

Time :10.00 A.M

The Department of Electronics and Communication Engineering organized Value Added Program on “MACHINE LEARNING USING PYTHON”. The main objective of the program is to enhance their knowledge of machine learning concepts. Students able to understand the concepts applied to machine learning techniques and algorithms using the Python programming language for various applications and problem-solving. Ms.M.Lavanya III Year of ECE gave the welcome address . Dean FET Dr. R. Kathiravan and Dr .C.Narmadha, Head of the Department gave the felicitation address.

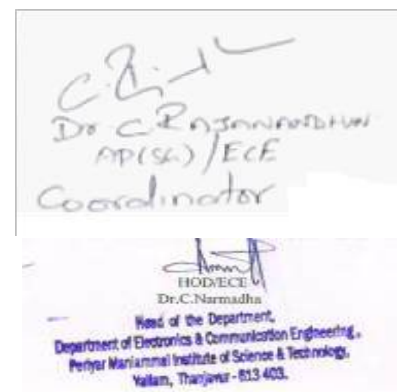
The Resource Person Ms. P. RAHINI, IT Trainer, IPCS Global Solutions (Global view Automation & Technologies, Trichy gave lecture about the basic concepts. The course covered basic Python, Installation and Package Creation Machine Learning and its type. Performance analysis with hands-on design project. The resource person elaborately covered the real time application concepts. The students of Third year ECE about 64 participated and got benefitted through this Value added Course. Finally, Rukshana Begum N - I Year ECE proposed the Vote of Thanks.

## 7. STUDENTS NAME LIST

S.No	Register Number	Name
1.	1210110131016	ABENAYASRI S
2.	1210110131017	ANANTHIKA R
3.	1210110131018	ARSAVARTHINI P
4.	1210120131019	ARUN KUMAR S
5.	1210120131020	ASHWIN J
6.	1210120131021	BALA PRASANNA V
7.	1210120131022	DARSHAN R
8.	1210120131023	DHANUSH SANKAR S
9.	1210110131024	GEETHA SHREE V
10.	1210120131025	HARIHARAN S
11.	1210120131026	HARISH RAGAVENDAR M
12.	1210120131028	KABILAN S
13.	1210120131029	KANNAN K
14.	1210110131030	KIRUTHIKA G
15.	1210110131031	LAVANYA M
16.	1210120131032	MANISH KUMAR S
17.	1210110131033	MANJU K
18.	1210120131036	SANTHOSH K
19.	1210110131037	SARU ATCHAYA V
20.	1210120131039	SRI RAJ B
21.	1210120131040	SRIHAR T
22.	1210120131041	SRIRAM R
23.	1210110131042	SRUTHI REGA K

24.	1210110131043	SUJITHA S
25.	1210110131045	SWETHA A
26.	1210110131046	UDHAYA M
27.	1210120131047	VIGNESHWARAN D
28.	1210120131048	YOGESH P
29.	1210110131049	ABINAYA S
30.	1210120131050	PALANI BHARATHI V
31.	1210120131051	SATHIYA M
32.	1210110131052	SRIGURUPRIYA A M
33.	1210110131053	FAHEEMA M B
34.	1210110131054	INIYA S
35.	1210110131055	KARTHIKA R
36.	1210110131056	KEERTHANA M
37.	1210120131060	SUBASH P
38.	1210120131061	GOWTHAM G
39.	1220110131122	RAJASHREE V
40.	122012062413	ADHITHYAN S
41.	122012062414	DHANUSH K
42.	122012062415	DINESH V
43.	122012062416	GERMANUS GARY S
44.	122012062417	GOKULAKANNAN M
45.	122012062418	HABIB SULAIMAN S
46.	122012062419	JUNAITH AHAMED S
47.	122012062420	KAVIN SITHARTHAN S
48.	122012062421	LOGESHWARAN B

49.	122012062422	MADHESH R
50.	122012062423	MANIKANDAN K
51.	122012062424	MOHAMED HIDHAYATHULLH S
52.	122012062426	PRATHEEP VASANTH M
53.	122012062427	PRAVEEN B
54.	122012062429	SAKTHINATHAN M
55.	122012062430	SARAVANAN R
56.	122012062431	SHANMUGARAJAN S
57.	122012062432	SIVA SAKTHI K
58.	122012062433	SIVAMOORTHY M
59.	122012062434	SOUNDARAPANDIYAN S
60.	122012062435	SUBHASH K
61.	122012062436	SUDARSHAN V
62.	122012062437	VASANTHA KUMAR R
63.	122012062438	VIGNESHWARAN T
64.	119012013996	MAHAPRABHU C







## 9. GEOTAGGED PHOTOS:



Inauguration at Valluvar Hall



Vote of Thanks by Rukshana Begum N - I Year ECE



Hands on Training given to students

## 10.FEEDBACK

**Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur**  
**Department of Electronics and Communication Engineering**  
**Feedback: Value Added Course on "Machine Learning Using Python"**

Date: 10.10.2023 - 13.10.2023

Resource Person : Ms.P.Rahini , IT Trainer, IPCS Global solutions

Name of the Participant : Sriharan T

Designation / Year : B.Tech (ECE) - III<sup>rd</sup> year Student

Degree & Branch : B.Tech / ECE

Feedback about Seminar : good

Suggestions (if any):

Signature :

**Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur**  
**Department of Electronics and Communication Engineering**  
**Feedback: Value Added Course on "Machine Learning Using Python"**

Date: 10.10.2023 - 13.10.2023

Resource Person : Ms.P.Rahini , IT Trainer, IPCS Global solutions

Name of the Participant : S. Sujitha

Designation / Year : III year / student

Degree & Branch : B. TECH ECE

Feedback about VAC : It's a good session, and I learnt about packages which is really nice.

Suggestions (if any): No

Signature : Sujitha

**Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur**  
**Department of Electronics and Communication Engineering**  
**Feedback: Value Added Course on "Machine Learning Using Python"**

Date: 10.10.2023 - 13.10.2023

Resource Person : Ms.P.Rahini , IT Trainer, IPCS Global solutions

Name of the Participant : Shanmugasaras

Designation / Year : Student / III

Degree & Branch : B.Tech (ECE)

Feedback about Seminar : good

Suggestions (if any): -

Signature : Shanmugasaras

## 11.SAMPLE CERTIFICATES



## **11.COURSE OUTCOME**

- Able to choose appropriate machine learning method to solve a particular problem.
- Able to select and apply a suitable learning algorithm to a range of basic problems.
  - Use a suitable programming language to work with data and apply machine learning tools to it.



तमिलनाडु TAMIL NADU PMIST  
09.03.2023

VALLAM, THANJAVUR

22AC 426198.

Dr. K. Vigneshwaran  
முத்திரைதான் விற்பனையாளர்.  
காமராஜ் பேருந்து நகல்பலகை.  
வல்லம், தமிழ்நாடு.  
உரிமம் எண் - 1/2012

Memorandum of Understanding for Industrial and Academic Cooperation between  
PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University), VALLAM, THANJAVUR, TAMILNADU.

and

M/s. TWIRLTACT TECHNOLOGY SOLUTIONS Pvt. LIMITED, COIMBATORE, TAMILNADU.

This Memorandum of Understanding ("MoU") for general cooperation is entered into an effective as of 14-03-2023 by and between:

1. Objective:-

- The objective of this MoU is to establish a collaborative association between the Parties in the interest of carrying out various services of TwirlTact Technology Solutions Private Limited, Located at Site No: 8, V.I.P. Nagar, Second Floor, Goldwins, Civil Aerodrome Post, Coimbatore, Tamil Nadu 641014 for the students and faculties of Periyar Maniammai Institute of Science & Technology (PMIST), including Workshop, Value Added Course, Center of excellent (IoT), Seminar, Lectures, Symposium, Technology & Personal Development Trainings, Internship Training and Faculty Development Program.

Page 1 of 4

MoU signed between PMIST and Twirltact Technology Solutions  
Coimbatore, Tamil Nadu.- Page 1

Focus of this partnering is to simplify the process involved in creating intellectual community at PMIST.

**2. Collaboration :-**

- The Parties agree that TwirlTact Technology Solutions Private Limited will jointly organize Seminar, Lecture and Symposium with PMIST for the benefit of students.
- The Parties agree that TwirlTact Technology Solutions Private Limited will jointly organize Technology and Personal Development Trainings with for the benefit of students of PMIST.
- The Parties agree that TwirlTact Technology Solutions Private Limited will jointly organize Faculty Development Program with PMIST for the benefit of faculty members.

**3. Responsibilities of Periyar Maniammai Institute of Science & Technology (Deemed to be University):-**

- PMIST will provide necessary space and other infrastructure facilities such as computers, printers, UPS, furniture & fixtures, supporting facilities, video and audio, etc.
- PMIST has the exclusive right to operate TwirlTact Technology Solutions Private Limited inside the college campus subject to the terms and conditions of this agreement.
- PMIST will ensure that each participating student has access to relevant hardware and software.

**4. Responsibilities of TwirlTact Technology Solutions Private Limited:-**

- TwirlTact Technology Solutions Private Limited will provide necessary resource persons and guidance for organizing Workshop, Value Added Course, Center of excellent (IoT), Seminar, Lectures, Symposium, Internship & Personal Development Trainings and Faculty Development Programs.
- TwirlTact Technology Solutions Private Limited will provide dedicated technical persons for handling Research Projects and Academic Research Activities.
- TwirlTact Technology Solutions Private Limited will provide the required support towards the conduct of continuous internal assessment and End Semester Examination as per the guidelines of the Controller of Examinations of PMIST.

**5. Financial Obligations:-**

There is no financial commitment agreed between the parties, no payments or defamation claims can be made by either of the parties, on closure or termination of this purely gentlemen's agreement. If there is any financial consideration, it will be dealt separately.

Page 2 of 4



**REGISTRAR,**  
Periyar Maniammai Institute of  
Science & Technology (PMIST).  
(Deemed to be University),  
Periyar Nagar, Vallam,  
Tamil Nadu - 613 403, Tamil Nadu



6. Duration of MoU: -

This MoU addresses the rights and obligations with respect to both Parties and will be in effect from the date in which it is executed and shall be valid for the period of three years. This MoU, on the agreement of both Parties can be renewed for further periods.

7. Settlement of Disputes: -

Both Parties agree that they would handle and resolve any disputes among them or in connection with this MoU in a more formal and mutual negotiations without taking the issue to the third Party for settlement in any circumstances.

8. Mission: -

The Parties associating are familiar with mission, vision and commitment to quality standards of each party and promises to follow those standards.

9. Trademarks: -

- Both Parties will not permit any practice that may be detrimental to the trademarks or good will or reputation of other party and its services.
- The use of any of the trademarks of both parties will be strictly in accordance with respective rules, regulations and prior written permission from the other party.


10. Proprietary or Confidential Information: -

Neither party shall disclose to a third party Proprietary or Confidential Information of the other party. Each party further agrees to act as trustee for any Confidential Information jointly created or acquired through the parties' participation in this MoU.

Termination of Agreement: -

- Notwithstanding the stipulation in above clauses, each party is entitled to terminate this agreement immediately on the second party committing the breach, which is significant from affected first party's view and second party does not remedy such breach within 30 days from written notice by the first party, requiring the second party to remedy the same.

Page 3 of 4

  
**REGISTRAR,**  
Periyar Maniammal Institute of  
Science & Technology (PMIST),  
(Deemed to be University),  
Periyar Nagar, Vallam,  
103, Tamilnadu





- In the event of termination of the agreement, for whatsoever reasons, both the parties agree to fulfill their respective commitments to the already registered batch of students / faculty members / employees as if the agreement is still in force.
- On termination of this agreement, neither party will be entitled to claim any compensation or damages for or in respect of or by reason of such termination, except where such claim is based on the default of the other party.
- Neither party will in any event be liable to the other party under this agreement for loss of profit, loss of business, loss of revenue or for any indirect, incidental or consequential damages whether or not the possibility of such damages could have been reasonably foreseen.
- In Witness whereof, this MoU is executed by the parties here to by their respective undersigned and authorized officers as of the date first written above.

This agreement is made between the following responsible authorities.

**For and on behalf of**  
**Periyar Maniammai Institute of**  
**Science & Technology,**  
 (Deemed to be University),  
 Vallam, Thanjavur  
 Tamil Nadu – 613403  
 India

*[Signature]*  
 Dr.P.K.Srividhya,  
 Registrar

**REGISTRAR,**  
**Periyar Maniammai Institute of**  
**Science & Technology (PMIST)**  
 (Deemed to be University),  
 Periyar Nagar, Vallam,  
 Thanjavur - 613 403, Tamil Nadu

Place:Vallam  
 Date:

Witness:

- 1) *[Signature]*  
 D. A. George  
 Dean Academic
- 2) *[Signature]*  
 C. Narmadha - Jinnat  
 Asst. Prof & Head  
 PMIST



**For and on behalf of**  
**TwirlTact Technology Solutions Private**  
**Limited**  
 Site No: 8, V.I.P. Nagar, Second Floor,  
 Goldwins, Civil Aerodrome Post, Coimbatore,  
 Tamil Nadu - 641014  
 India

*[Signature]*  
 Mr.Mohammed Ali,  
 Founder & Chief Marketing Manager.

14/03/2023.



Place:Vallam  
 Date:

Witness:

- 1) *[Signature]*  
 Mottan Rad. K.  
 Associate Engineer.  
*[Signature]*
- 2) *[Signature]*  
 D. Ganesh Kumar  
 Associate Engineer.  
*[Signature]*



**MoU signed between PMIST and Twirltact Technology Solutions**  
**Coimbatore, Tamil Nadu.– Page 4**

**Department of Electronics and Communication  
Engineering**

Periyar Nagar, Vallam Thanjavur - 613 403, Tamil Nadu, India  
Phone: +91 - 4362 – 264600 Fax: +91- 4362 - 264660  
Email: [headece@pmu.edu](mailto:headece@pmu.edu) Web: [www.pmu.edu](http://www.pmu.edu)



**INDUSTRIAL VISIT REPORT**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Batch: 2022**

**Date: 13.10.2023**

**Place: Coimbatore**

### CONTENTS OF PROGRAMME REPORTS


<b>Sl.No.</b>	<b>Contents</b>
1.	Objective of the programme
2.	Note order copy of the programme
3.	Programme schedule
4.	Participants List
5.	Report
6.	Geotagged Photo/ Online screenshots (banner visible) with captions
7.	Outcome of the Programme

## 1. OBJECTIVE

- To explore knowledge of Industrial training and Automation.
- To acquire basics about embedded systems and microcontrollers with practical knowledge.

## 2. Note order copy of the program

**INTERNAL QUALITY ASSURANCE CELL**  
 Periyar Nagar, Vallam Thanjavur - 613 403, Tamil Nadu, India  
 Phone: +91 - 4362 - 264600 Fax: +91- 4362 - 264660  
 Email: iqac@pnu.edu Web: www.pnu.edu



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Periyar Nagar, Vallam Thanjavur  
Think • Innovate • Evolve

1.	Name of the Department	ECE
2.	Name of the Programme	Industrial Visit / Local Visit
3.	Date of the programme	13.10.2023
4.	Recommendation from IQAC	May be Permitted Finance Involved: Nil

*R. Ananth*  
11/10/23

*[Signature]*  
Registrar

	the submission of reports and accounts	Ms.S.Asha,Asst.Prof/ECE Convenor: Dr.C.Narmadha,Asso.Prof/HOD
9.	Details of the industry	KGK Industries, Coimbatore. & Axis Global Automation, Coimbatore.
10.	Budget requirement with breakup details	Nil
11.	Whether registration fees collected for the participants? if yes give details	Yes
12.	Recommendation from IQAC	May be permitted Finance involved:NIL

*[Signature]*  
10/10/23  
Co-Ordinator  
S-ASHA

*[Signature]*  
10/10/23  
HOD/ECE  
(Dr. C.Narmadha)

Remarks: Forwarded and Recommended

*[Signature]*  
10/10/23  
Dean (FET)

*[Signature]*  
C&T Director  
(Dr. P. G. V. S.)

**DEPARTMENT OF ELECTRONICS &  
COMMUNICATION ENGINEERING**

Periyar Nagar, VallamThanjavur - 613 403, Tamil Nadu, India  
Phone +91 - 4362 - 264600/Fax: +91 - 4362 - 264660  
Email: headece@pmu.edu Web: www. pmu.edu



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Periyar Nagar, VallamThanjavur - 613 403, Tamil Nadu, India  
Phone +91 - 4362 - 264600/Fax: +91 - 4362 - 264660  
Email: headece@pmu.edu Web: www. pmu.edu

**Proforma for requesting approval to conduct programme**

Sl.No.	Detail	Response
1.	Name of the Department	ECE
2.	Name of the Programme	Industrial Visit / Local Visit
3.	NAAC Criteria and category of the programme	Criteria5
4.	Date and time of the Event	13.10.2023
5.	Online / offline	Offline
6.	Name of the online platform if conducted online	Not required
8.	Name & Designation of the Organizing Secretary /Co-ordinator (Responsible for the submission of reports and accounts)	Coordinator: Ms.S.Asha,Asst.Prof/ECE Convenor: Dr.C.Narmadha,Asso.Prof/HOD
9.	Details of the industry	KGK Industries, Coimbatore. & Axis Global Automation, Coimbatore.
10.	Budget requirement with breakup details	Nil
11.	Whether registration fees collected for the participants? if yes give details	Yes
12.	Recommendation from IQAC	May be permitted Finance involved:NIL

*S. Asha*  
10/10/23  
Co-Ordinator  
S -ASHA

*Dr. C. Narmadha*  
10/10/23  
HOD/ECE  
(Dr. C.Narmadha)

Remarks: forwarded and Recommended

*Dr. P. V. V. S.*  
10/10/23  
Dean (FET)

*Dr. P. V. V. S.*  
CET Director  
(Dr. P. V. V. S.)

**Department of  
Electronics and Communication Engineering**

Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, India  
Phone: +91 - 4362 - 264600 Fax: +91- 4362 – 264660  
Email: [headece@pmu.edu](mailto:headece@pmu.edu) Web: [www.pmu.edu](http://www.pmu.edu)



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Established Under Sec. 3 of UGC Act, 1956 - NAAC Accredited  
think • innovate • transform

**Industrial visit schedule.**

**(12.10.2023 to 13.10.2023)**

**Batch (2022-2026)**

<b>SNo:</b>	<b>Activity</b>	<b>Date</b>	<b>Session/Time</b>
1.	Departure from PMIST to Coimbatore	12/10/23	Night 10 pm
2.	Industrial visit to Twril Tact Technology Solutions Private Limited, Coimbatore.	13/10/23	FN 10 to 1:00 pm
3.	Lunch Time.	13/10/23	AN 1:00 to 2:00 pm
4.	Industrial visit to Axis Global Automation, Coimbatore.	13/10/23	AN 2:00 to 4:00 pm
5.	Visiting GD Naidu Museum	13/10/23	Evening 4.00 to 6.00 pm
6.	Departure to Thanjavur from Coimbatore	13/10/23	Night 9 pm

3.

### Participants List:

Batch:2022-2026

Department: ECE

#### Name List

S.No	Register Number	Name
1.	1220110131062	AARTHI R
2.	1220120131063	AASATH MOHAMED J M
3.	1220120131065	ABDUL BASITH A B
4.	1220110131070	ARCHANA M
5.	1220120131072	ASHOR KITHIYON C
6.	1220110131073	ASMA S
7.	1220120131074	AVANESH D
8.	1220120131075	BHAVESH V
9.	1220120131076	DINESH KARTHIK D
10.	1220120131077	DINESH S
11.	1220120131078	ESHWARAN S
12.	1220110131079	FAHISHA NOORA A
13.	1220120131080	GOKULAVASAN T
14.	1220120131082	GUNASEELAN S
15.	1220120131083	HARIHARAN R
16.	1220110131084	HARITHA K
17.	1220120131085	HEMANTH HARI T
18.	1220120131086	INIYAN S
19.	1220120131087	JONES SILEENAS A
20.	1220120131088	JUSTI BENEDICT FERNANCE S
21.	1220120131089	KALAIRISHI S
22.	1220110131090	KANIMOZHI R
23.	1220110131091	KANMANI S
24.	1220120131093	KEROS M
25.	1220110131094	MAHASAKTHI V
26.	1220120131096	MOHAMED JAFFIR J
27.	1220120131097	MOHAMED NAFEEES K S
28.	1220120131098	MOHAMED NIZARUDEEN N
29.	1220110131099	NISHANTHINI S
30.	1220110131100	PARKAVI S
31.	1220120131101	PRABAKARAN T
32.	1220120131102	PRASANTH S
33.	1220110131103	PREETHI G

Batch:2022-2026

Department: ECE

Name List

34.	1220120131104	PREM KUMAR N T
35.	1220120131106	RUFFIN H
36.	1220120131107	SABARIKRISHNAN M
37.	1220120131109	SHANMUGESH S
38.	1220120131111	SIVASUDHAN S
39.	1220120131112	SRIDHAR R
40.	1220120131113	SRINITHISH S
41.	1220110131114	SRINITHYA B
42.	1220120131115	SRIRAM M R
43.	1220120131116	SURESH V
44.	1220110131117	SUVATHI S
45.	1220120131119	VASANTH S
46.	1220120131120	VASANTHKUMAR U
47.	1220110131121	YAZHISAI P
48.	123012077001	KARTHIKEYAN C
49.	123012077002	PARVESH MUSHARAF I
50.	123012077005	VISHNUVARTHAN J V
51.	123012077006	ASWIN S
52.	123012077007	MOHAMED UWAIS D





Name List

S.No	Register Number	Name
1.	1220110131062	AARTHI R
2.	1220120131063	AASATH MOHAMED J M
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4.	1220110131070	ARCHANA M
5.	1220120131072	ASHOR KITHIYON C
6.	1220110131073	ASMA S
7.	1220120131074	AVANESH D
8.	1220120131075	BHAVESH V
9.	1220120131076	DINESH KARTHIK D
10.	1220120131077	DINESH S
11.	1220120131078	ESHWARAN S
12.	1220110131079	FAHISHA NOORA A
13.	1220120131080	GOKULAVASAN T
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15.	1220120131083	HARIHARAN R
16.	1220110131084	HARITHA K
17.	1220120131085	HEMANTH HARI T
18.	1220120131086	INIYAN S
19.	1220120131087	JONES SILEENAS A
20.	1220120131088	JUSTI BENEDICT FERNANCE S
21.	1220120131089	KALAIRISHI S
22.	1220110131090	KANIMOZHI R
23.	1220110131091	KANMANI S
24.	1220120131093	KEROS M
25.	1220110131094	MAHASAKTHI V
26.	1220120131096	MOHAMED JAFFIR J
27.	1220120131097	MOHAMED NAFEES K S
28.	1220120131098	MOHAMED NIZARUDEEN N
29.	1220110131099	NISHANTHINI S
30.	1220110131100	PARKAVI S
31.	1220120131101	PRABAKARAN T
32.	1220120131102	PRASANTH S
33.	1220110131103	PREETHI G


  
 13/10/23.

Batch:2022-2026

Department: ECE

Name List

34.	1220120131104	PREM KUMAR N T
35.	1220120131106	RUFFIN H
36.	1220120131107	SABARIKRISHNAN M
37.	1220120131109	SHANMUGESH S
38.	1220120131111	SIVASUDHAN S
39.	1220120131112	SRIDHAR R
40.	1220120131113	SRINITHISH S
41.	1220110131114	SRINITHYA B
42.	1220120131115	SRIRAM M R
43.	1220120131116	SURESH V
44.	1220110131117	SUVATHI S
45.	1220120131119	VASANTH S
46.	1220120131120	VASANTHKUMAR U
47.	1220110131121	YAZHISAI P
48.	123012077001	KARTHIKEYAN C
49.	123012077002	PARVESH MUSHARAF I
50.	123012077005	VISHNUVARTHAN J V
51.	123012077006	ASWIN S
52.	123012077007	MOHAMED UWAIS D

**Department of  
Electronics and Communication Engineering**

Periyar Nagar, Vallam Thanjavur - 613 403, Tamil Nadu, India  
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Email: [headece@pmu.edu](mailto:headece@pmu.edu) Web: [www.pmu.edu](http://www.pmu.edu)



## **5.Report**

**Name of the Event:**Industrial Visit

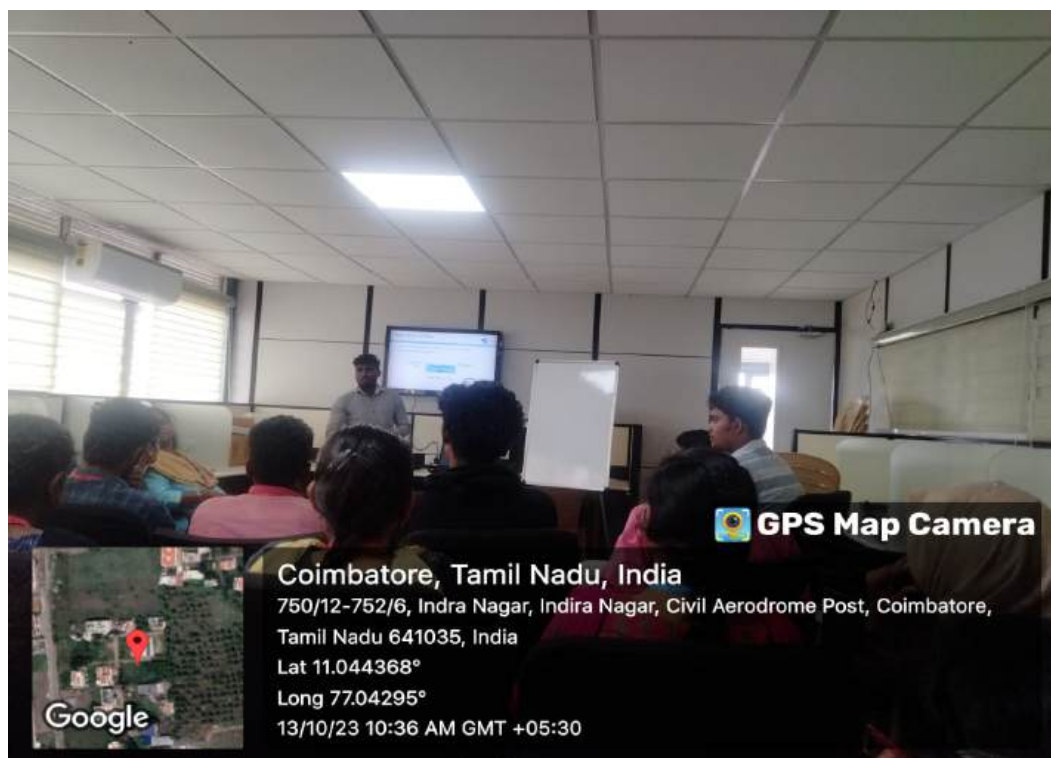
**Date:** 13.10.2023

The Department of Electronics and Communication Engineering organized an Industrial visit to Coimbatore for II year ECE students (2022 to 2026 batch)

Around 52 students and 3 faculties participated in the Industrial visit and benefitted from it. In Twril Tact, students learned about embedded systems, Arduino boards, microcontrollers and microprocessors. Students are exposed to new projects and Internet of Things in which the company is working on now.

In Axis Global, students are exposed to Automation Techniques where the conveyor belts are automated for Pick and place automation systems which are widely used in industrial processes as a section of a complete assembly system. Most pick-and-place systems are typically used to pick and place parts/components in fixtures for the assembly process, or they are used to pull components off the system and position them for packaging or for sending them to the next stage in the assembly process. Pick-and-place automation systems help maximize the efficiency of any automated assembly system by reducing labour costs and increasing production throughput.

## 5. Geotagged Photo/ Online screenshots








Coimbatore, Tamil Nadu, India

326W+4CF, Nehru Nagar West, Coimbatore, Tamil Nadu 641004, India

Lat 11.061027°

Long 77.045668°

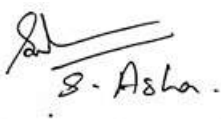
13/10/23 12:24 PM GMT +05:30

 **GPS Map Camera**

Google

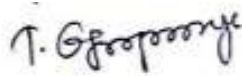
## 6. Outcome of the Programme

- Acquired knowledge about Industrial Automation.
- Gained basic knowledge of Arduino Board, Embedded systems, Microprocessors and Microcontrollers with practical knowledge



S. Asha.

**CORDINATOR**  
Ms S.ASHA  
Asst.Prof-ECE



T. Gurusamy

**CO-CORDINATOR**  
Ms T.GURU PRIYA  
Asst.Prof-ECE



HOD/ECE

**CONVENOR**  
Dr.C.NARMADHA  
Assoc.Prof& Head - ECE



3113  
13.11.2013  
தமிழ்நாடு தமிழ்நாடு TAMIL NADU  
Thiagarajar college of preceptors  
Medurai  
01AB 201663  
பி.ஆர் பூமிநாத், பி.என்.சி.  
ஆர்.எ.சி.நிர் 9125/B1/2005  
முத்தியார்தாரர் கிறிபுவனப்பாளர்  
117, குடகுடு குடகுடு, மதுரை-625 001

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

Periyar Maniammai Institute of Science & Technology (Deemed to be University),  
Thanjavur, Tamil Nadu

AND

Thiagarajar College of Preceptors (Aided), Teppakulam, Madurai, Tamil Nadu

This Memorandum of Understanding (hereinafter called as the 'MoU') is entered into on this the 6<sup>th</sup> day of June 2022, by and between Periyar Maniammai Institute of Science & Technology (Deemed to be University), Thanjavur, Tamil Nadu the First Party represented herein by its Registrar and Thiagarajar College of Preceptors (Aided), Teppakulam, Madurai, Tamil Nadu the Second Party, and represented herein by its Secretary.

Registrar,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.

MoU signed between PMIST and Thiagarajar College Of Preceptors  
Teppakulam, Madurai.- Page 1



WHEREAS:

A) First Party is a Higher Educational Institution named: **Periyar Maniammai Institute of Science & Technology (Deemed to be University)**.

B) Second Party is a Higher Educational Institution named: **Thiagarajar College of Preceptors (Aided), Teppakulam, Madurai, Tamil Nadu**.

C) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

D) The Parties intent to co-operate and focus their efforts on co-operation within area of Skill based training, Integrated Teacher Education in the School / Department of Education, Multi disciplinary approach in Research, Institutional visit, Expert lecture, Collaborative projects, Workshops, Consultancy services and Co-curricular activities.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MoU, THE PARTIES HERETO AGREE AS FOLLOWS:

**CLAUSE 1 CO-OPERATION**

1.1 Both Parties are united by common interests and objectives, and they shall establish co-operation.

1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities.

1.3 The Parties shall co-operate with each other and shall execute as promptly as is responsibly practical, relevant agreement.


**CLAUSE 2 SCOPE OF THE MoU**

2.1 Visits: This interaction will provide an insight into the latest developments / requirements in the field of Education, the Second Party to permit the Faculty and Students of the First Party to visit their School of Education, their institution and also involve in Practicum and School Internship Programme / Training Programmes for the First Party. Also the Second Party may register on the NCTE Internship Portal for the benefit of students.

2.2 Guest lectures: First Party to extend the necessary support to deliver guest lectures and organizing workshop to the students and staff of the Second Party on the recent developments in the field of Education.

2.3 Training of students: Second Party will help in the training and the development of personality of the students of the Department of Education of the First Party.

2.4 There is no financial commitment on both the Parties to take up any program / activities mentioned in the scope of MoU/ co-operation mentioned in this MoU. If there is any financial consideration, it will be dealt separately.

  
Registrar,  
Periyar Maniammai  
Institute of Science & Technology  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.



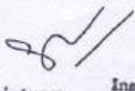
2.5 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required.

**CLAUSE 3 VALIDITY**

3.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms.

**CLAUSE 4 RELATIONSHIP BETWEEN THE PARTIES**

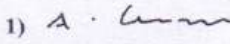
4.1 It is expressly agreed that First Party and Second Party are acting under this MoU as independent contractors, and the relationship established under this MoU shall not be construed as a partnership.

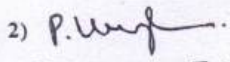
  
Registrar,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.

Periyar Maniammai Institute of Science &  
Technology (PMIST) (Deemed to be University),  
Periyar Nagar, Vallam,  
Thanjavur – 613403, Tamil Nadu  
E-mail: registrar@pmu.edu

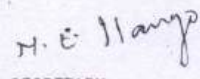
Date:

Witness:

1)   
Dr A. George, Dean Acadmic

2)   
Dean ic FHSM

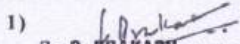


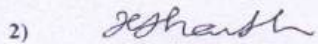
  
SECRETARY  
THIAGARAJAR COLLEGE OF PRECEPTORS  
MADURAI-625 000

Thiagarajar College of Preceptors (Aided),  
Teppakulam,  
Madurai - 625009,  
Tamil Nadu  
E-mail: tepmadurai9@gmail.com

Date: 06/06/2022

Witness:

1)   
Dr. S. PHAKASH, M.Sc., M.Ed., M.Phil., Ph.D (Edn.),  
Principal  
Thiagarajar College of Preceptors  
Teppakulam, Madurai-625 009  
Tamilnadu

2)   
**K. THANGAVEL,**  
M.Sc., M.Phil., M.Ed., M.Phil.(Edn.), M.Sc.(Psy.), SET (Edn.),  
Assistant Professor of Education,  
Thiagarajar College of Preceptors (Aided),  
Madurai.

## DEPARTMENT OF EDUCATION

Periyar Nagar, Vallam Thanjavur - 613 403, Tamil Nadu, India

Phone: +91 - 4362 – 264600 Fax: +91- 4362 - 264660

Email:headbedu@pmu.edu Web: www. pmu.edu



## WEBINAR ON TECHNO PEDAGOGICAL SKILLS

The Department of Education conducted Webinar in the current topic of Techno Pedagogical Skills to the teacher educators from the Department of Education.

**Title of the Programme: Techno pedagogical Skills**

**Organized by : Department of Education**

**Date & Time : 23.06.2023 & 11.30 am**

**Venue : Google Meet**

**Objective of the programme:**

- The program aims to emphasize the significance of integrating technology in education
- The program seeks to introduce teacher educators to various educational technologies and tools
- The program aims to educate participants on the use of technology for online assessment and timely feedback to students.

**Resource person:**

Dr. S. Anbalagan M.Sc. M.Phil. M.Ed, M.Phil, Ph.D

Assistant Professor,

Thiagarajar college of Preceptors Madurai.

**No. of Beneficiaries: 56 B.Sc.B.Ed and B.Ed Students from Department of Education.**

## Invitation

### ACCREDITATIONS & RANKINGS



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Established Under Sec. 3 of UGC Act, 1956 - NAAC Accredited  
think • innovate • transform

# Department of Education Organize Webinar On

## “Techno Pedagogical Skills”



### Guest Speaker:

**Dr. S. Anbalagan, M.sc.Mphil (Mat)M.Ed.,MPhil.,  
NET PhD(Edn)PGDCA**

Assistant Professor of Mathematics  
Thiagarajar College of Preceptor,  
Madurai 625 009  
Tamil Nadu.

**Date : 23 June 2023**

**Time : 11.30 am**

**Venue : Google Meet.**



Periyar Maniammai Institute of Science &  
Technology (Deemed to be University)  
Periyar Nagar, Vallam, Thanjavur 613 403  
Tamilnadu, India.

For more Details , Visit  
[www.pmu.edu](http://www.pmu.edu)

### Coordinators

**Dr. G. Thamilvanan,  
Asso. Prof. & Head  
Mr. M. Karthick, Asst. Prof.**

## Report of the Programme

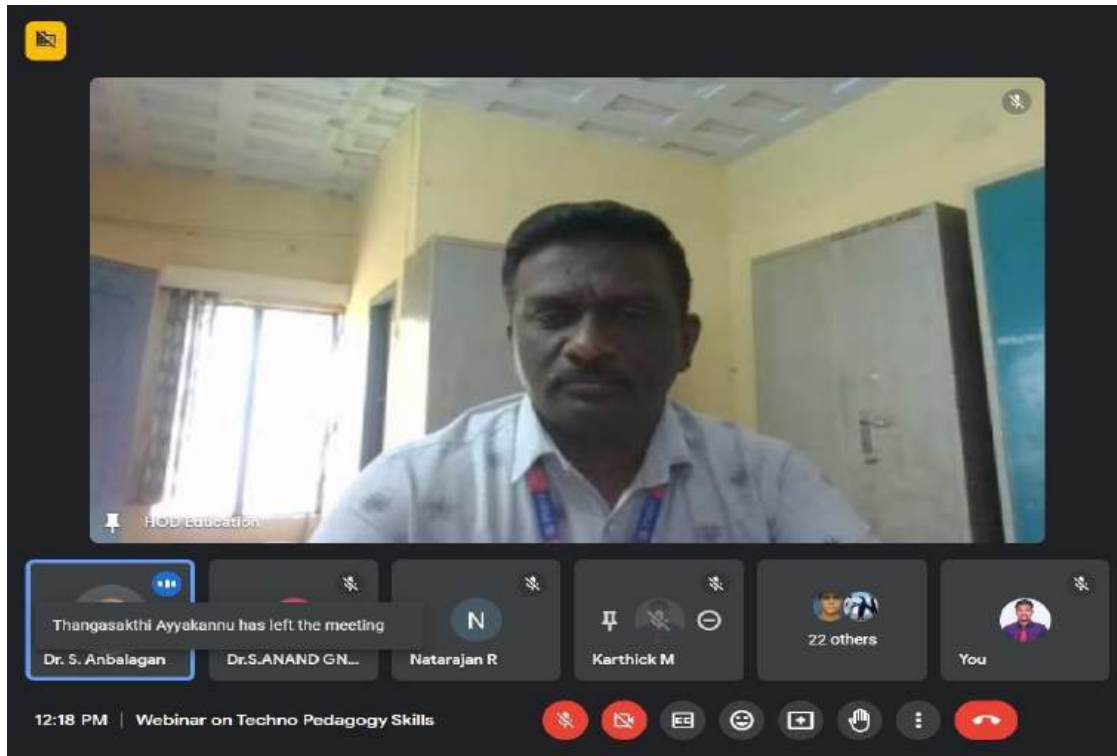
A workshop focusing on Tech Pedagogical Skills for Teacher Educators was conducted via Google Meet on 23.06.2023. The primary objective of this workshop was to enhance the technological competencies of the participants and equip them with the necessary skills to effectively incorporate technology into their teaching practices. The event garnered participation from 56 B.Sc. B.Ed. and B.Ed. students, who actively engaged in the various sessions. Dr. G. Thamilvanan delivered the welcome address, and Dr. S. Anbalagan, Assistant Professor in Mathematics at Thiagarajar College of Preceptors, served as the resource person for this workshop. Given the two-hour duration of the workshop, the content was structured to cover essential aspects of tech pedagogical skills. Dr. G. Thamilvanan emphasized the importance of integrating technology in education and outlined the workshop's objectives. Dr.

S. Anbalagan were introduced to the concept of tech pedagogy and its relevance in modern education. They received insights into interactive whiteboards, multimedia presentations, educational apps, Chat GPT, Tome, and online collaboration tools. Practical demonstrations and hands-on activities were conducted to familiarize participants with the effective use of these tools.

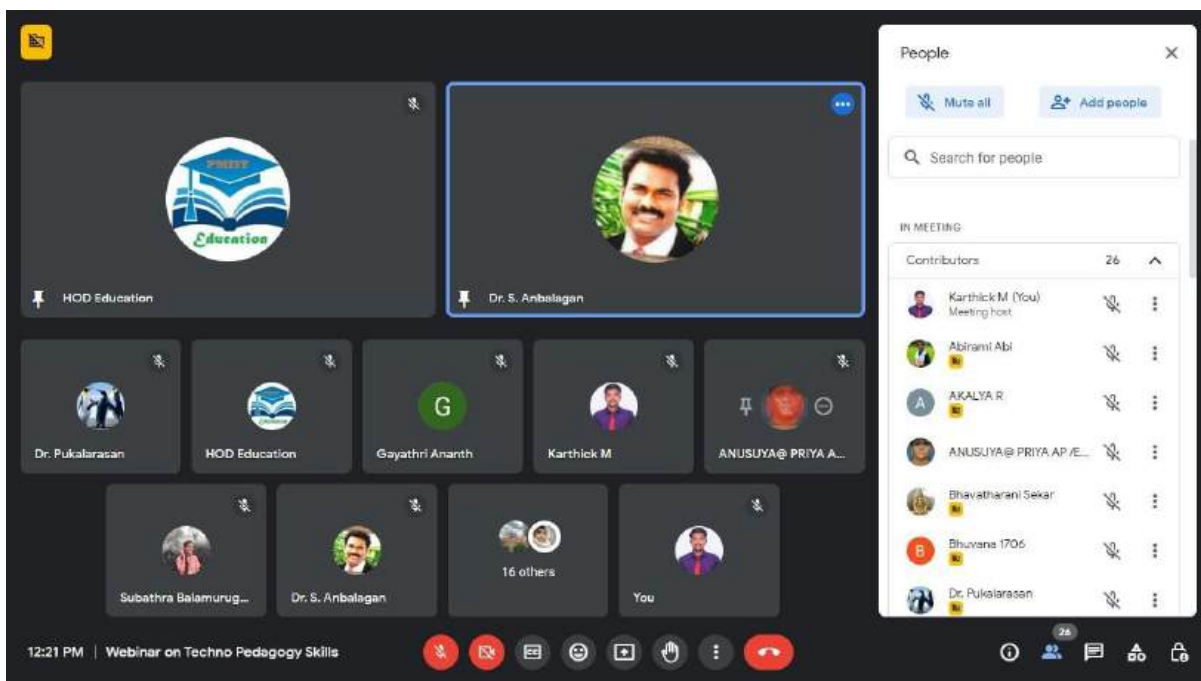
A session focused on technology's role in online assessment and providing timely feedback to students, as well as strategies for offering constructive feedback in an online environment. Additionally, the workshop briefly covered the challenges and strategies for effectively managing a virtual classroom, including techniques to ensure student participation, maintain discipline, and foster an interactive virtual learning environment. At the conclusion of the workshop, Mr. M. Karthick expressed gratitude through a vote of thanks. He extended appreciation to all the participants for their active involvement and enthusiastic participation throughout the workshop. He also acknowledged the efforts of the organizing committee, technical support team, and the management for their support in making the workshop a success.

The Workshop on Tech Pedagogical Skills for Teacher Educators provided a valuable platform for enhancing the participants' technological competencies and understanding of effective technology integration in teaching. Despite the limited two-hour duration, the workshop covered key aspects of tech pedagogy and equipped participants with essential knowledge and skills. The event encouraged collaboration and knowledge sharing among the participants, fostering a conducive learning environment.

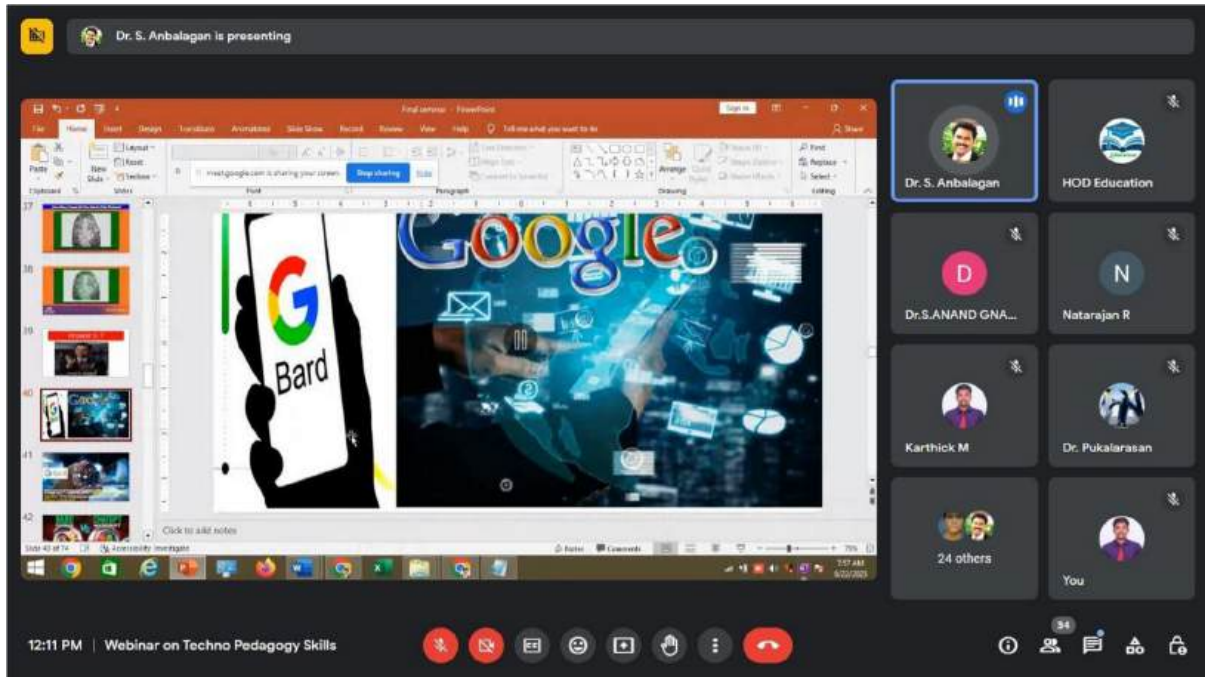
Snapshots of Techno Pedagogical Skills on 23/06/2023

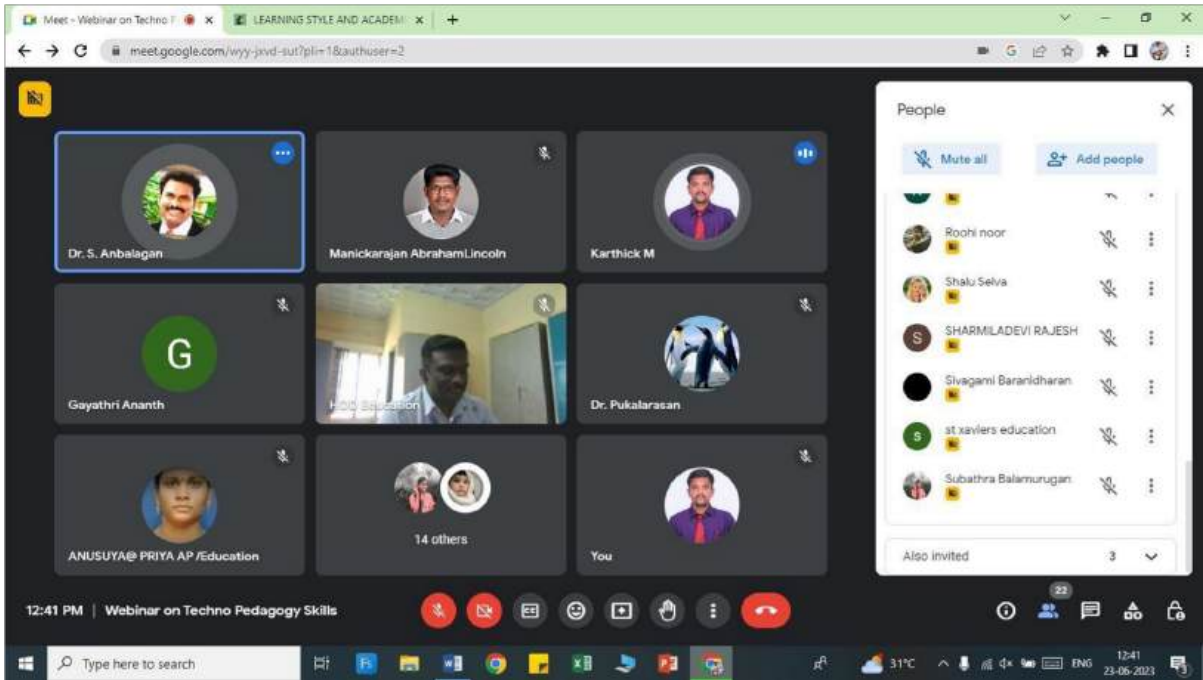


Dr. G. Thamilvanan, Associate Professor and Head Proposed Welcome Address



Resource Person Dr. S. Anbalagan, Assistant Professor delivered the session





Mr. M. Karthick, Assistant Professor, Proposed Vote of thanks  
**Attendance**

S.No	Register Number	Name	Signature
1.	120011159143	ELAKKIYA M	Online
2.	120011159144	JANANI SRI K	Online
3.	120011159145	KANIHA B	Online
4.	120011159146	KEERTHANA A	Online
5.	120011159147	MUTHUPRIYADHARSINI S	Online
6.	120011159148	NITHIYASRI M	Online
7.	120011159149	ZAITOON BEEVI S	Online
8.	120011159150	MAHAKAVI M	Online
9.	120011159151	SIVAPRIYA K	Online
10.	121011159152	AISWARYA S	Online
11.	121011159153	ARIFA BEGAM A	Online
12.	121011159154	DIVYA G	Online
13.	121011159155	KEERTHANA S	Online

*(Mr. Karthick)*

*(Signature)*  
 Head, Department of Education,  
 Periyar Maniammai Institute of Science & Technology,  
 Vellam, Thanjavur - 613 403.



14.	121011159156	MONISHA S	Online
15.	121012159158	RAJ BHARATH A	Online
16.	121011159159	SIVAGAMI B	Online
17.	121011159161	THANGASAKTHI A	Online
18.	122012159163	ABHIJIT HALDAR	Online
19.	122011159165	FATHIMA FARVEEN M	Online
20.	122011159166	ISHWARYA M	Online
21.	122011159167	KAVYA R	Online
22.	122012159168	MOHAMED HASIM A	Online
23.	122012159169	PRADHEEP SAKTHI V	Online
24.	122011159170	RITHIKA D	Online
25.	122011159171	SUBATHRA B	Online
26.	122012159172	VELMURUGAN S	Online
27.	122012159173	YUVARAJAN V	Online
28.	122011159174	KALAIMATHI T	Online
29.	122011931509	ABIRAMI R C	Online
30.	122011931510	ALIES PRINCY G	Online
31.	122011931511	ASHMITHA S	Online
32.	122011931512	BHAGYA S	Online
33.	122011931513	BHAVATHARANI C	Online
34.	122011931514	BHUVANA T	Online
35.	122011931515	DEVAKI K	Online
36.	122011931516	DHARANI R	Online
37.	122011931517	ELAKKIYA M	Online
38.	122011931518	GAYATHRI T	Online
39.	122011931519	HAJIRA JAINAB M N	Online
40.	122011931520	HANLY AHM J	Online
41.	122011931521	INFANT CHITHAM B	Online
42.	122011931522	JANSI AROKIA MARY A	Online
43.	122011931523	JAYAMALINI V	Online
44.	122011931524	KAMALESHWARI K	Online
45.	122011931525	KANISHMA S	Online

*Ben Dijo*  
M. J. Cartelle.

*Ben Dijo*  
Head, Department of Education,  
Periyar Manimonal Institute of Science & Technology,  
Vellam, Thanjavur - 613 403.

46.	122011931526	KANMANI ROOHINOOR S	Online
47.	122011931527	KAVIPRIYA K	Online
48.	122011931528	KEERTHI B	Online
49.	122011931543	PREFETHA V	Online
50.	122011931544	PRIYADHARSHINI D	Online
51.	122011931545	PRIYADHARSHINI P	Online
52.	122011931546	PRIYADHARSHINI S	Online
53.	122011931547	RAHIMA FARVIN M	Online
54.	122011931548	SANSHIPRIYA K	Online
55.	122011931549	SANTHOSHINI S	Online
56.	122011931560	BHUVANESHWARI M	Online

  
Coordinator

M. S. Arthick

  
Head, Department of Education,  
Peiyar Maniammai Institute of Science & Technology,  
Vellam, Thanjavur - 613 403.

186



தமிழ்நாடு தமில்நாடு TAMIL NADU  
11.2.2022

Registrar,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.

Rs. 20/-  
87AB 838295.  
A. Govindarajan  
ஆ.கவிதாமணி  
முத்திரைதாள் விற்பனையாளர்,  
காமராஜ் பேருந்து நிலையம்,  
வல்லம், தமிழ்நாடு,  
உரிமம் எண் - 1/2012

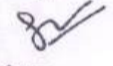
**MEMORANDUM OF UNDERSTANDING (MoU)**

BETWEEN

Tamil University, Thanjavur, Tamil Nadu  
AND

Periyar Maniammai Institute of Science & Technology (PMIST) (Deemed to be University),  
Thanjavur, Tamil Nadu

This Memorandum of Understanding (hereinafter called as the 'MoU') is entered into on this the 9<sup>th</sup> day of Month March 2022, by and between the Tamil University, Thanjavur, Tamil Nadu First Party, represented herein by its Registrar and Periyar Maniammai Institute of Science & Technology (PMIST) (Deemed to be University), Thanjavur, Tamil Nadu the Second Party, represented herein by its Registrar.

  
Registrar,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.

  
09/03/2022  
REGISTRAR (I/C)  
TAMIL UNIVERSITY  
THANJAVUR - 613 010

WHEREAS:

A) First Party is a Higher Educational Institution named: **Tamil University, Thanjavur, Tamil Nadu.**

B) Second Party is a Higher Educational Institution named: **Periyar Maniammai Institute of Science & Technology (PMIST) (Deemed to be University), Thanjavur, Tamil Nadu.**

C) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

D) The Parties intent to co-operate and focus their efforts on co-operation within area of Skill based training, Teacher Education, Multi disciplinary approach in Research, Institutional visit, Expert lectures, Collaborative Projects, Conferences, Workshops, Seminar, Symposium at the National and International level, Consultancy services and Co-curricular activities.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MoU, THE PARTIES HERETO AGREE AS FOLLOWS:

**CLAUSE 1 CO - OPERATION**

1.1 Both Parties are united by common interests and objectives, and they shall establish co-operation.

1.2 The co-operation of both Parties will facilitate effective utilization of the intellectual capabilities.

1.3 The Parties shall co-operate with each other and shall execute as promptly as is responsibly practical, relevant agreement.

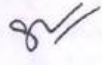
**CLAUSE 2 SCOPE OF THE MoU**

2.1 Visits: This interaction will provide an insight into the latest developments / requirements in the field of Education, both the Parties shall permit the Faculty and Students to visit their institution and also involve in Practicum and School Internship Programme / Training Programmes. The Parties may register on the NCTE Internship Portal for the benefit of students.

2.2 Guest lectures : Both the Parties shall extend the necessary support to deliver guest lectures and organizing workshop to the students and staff on the recent developments in the field of Education. .

2.3 Training of students: The Parties will help in the training and the development of personality of the students of the Department of Education.

2.4 There is no financial commitment on both the Parties to take up any program/activities mentioned in the scope of MoU /co-operation mentioned in this MoU. If there is any financial consideration, it will be dealt separately.

  
Registrar,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.

  
09/03/2022  
REGISTRAR (i/c)  
TAMIL UNIVERSITY  
THANJAVUR - 613 010

2.5 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature may be required.

**CLAUSE 3 VALIDITY**

3.1 This MoU shall come into force from the date of signing and shall be in force for a period of Five years from the date of signing and may be reviewed from time to time, to the will and pleasure of the Parties.

**CLAUSE 4 RELATIONSHIP BETWEEN THE PARTIES**

4.1 It is expressly agreed that First Party and Second Party are acting under this MoU as independent contractors, and the relationship established under this MoU shall not be construed as a partnership.

*7/3/22*  
**Registrar**  
Periyar Maniammai Institute of Science & Technology (PMIST) (Deemed to be University),  
Vallam, Thanjavur-613403. Tamil Nadu.  
E-mail: registrar@pmu.edu



Date: 09.03.2022

Witness:

- 1) *P. Vijay*  
LT. DR. P. VIJAYARAJESHWARI  
Deputy Director
- 2) *Dr. Geetha*  
Dr. Geetha  
Head / Education

*09/03/2022*  
**Registrar**  
Tamil University,  
Thanjavur- 613 010.  
Tamil Nadu.  
E-mail: tamilunivreg@gmail.com  
**REGISTRAR (I/C)**  
**TAMIL UNIVERSITY**  
**THANJAVUR - 613 010**

Date: 09.03.2022

Witness:

- 1) *Dr. S. S. Srinivasan*  
Dean, Faculty of  
Developing Tamil
- 2) *Dr. S. S. Srinivasan*  
Head, Dept of Education &  
management

**Office of the Controller of Examinations**

Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, India  
Phone: +91 - 4362 - 264642 Fax: +91- 4362 - 264660  
Email: coe@pmu.edu Web: www.pmu.edu



**Dr.S.ASOKAN**  
Controller of Examinations

Date : 19/12/23

To,

*Dr. G. PAZHANIVELU*  
*Associate Professor.*  
*Department of Education & Management.*  
*Tamil University.*  
*Thanjavur*

Sir/Madam,

**Sub** : Appointment of External Examiner for Practical/Project Viva-voce – Reg.

**Ref** : PMU/COE/EXT.APP/UG/PG/ dated : 19/12/23

I am by direction to inform that you are appointed as EXTERNAL EXAMINER to conduct the Practical / Project Viva – Voce as per the details below.

S.No	Date	Branch	Sub.Code / Sub.Name	No. of Candidates
1.	20/12/23	Education	BED 304 & BED 205 & 405	45
2.	22/12/23	Education	BED 305	40
3.	26/12/23	Education	BED 105	50.

The External Examiner is requested to handover the mark list to the Head of the Department. It is requested to keep the confidentiality of the marks awarded to the candidate. Your cooperation in this regard will be highly appreciated.

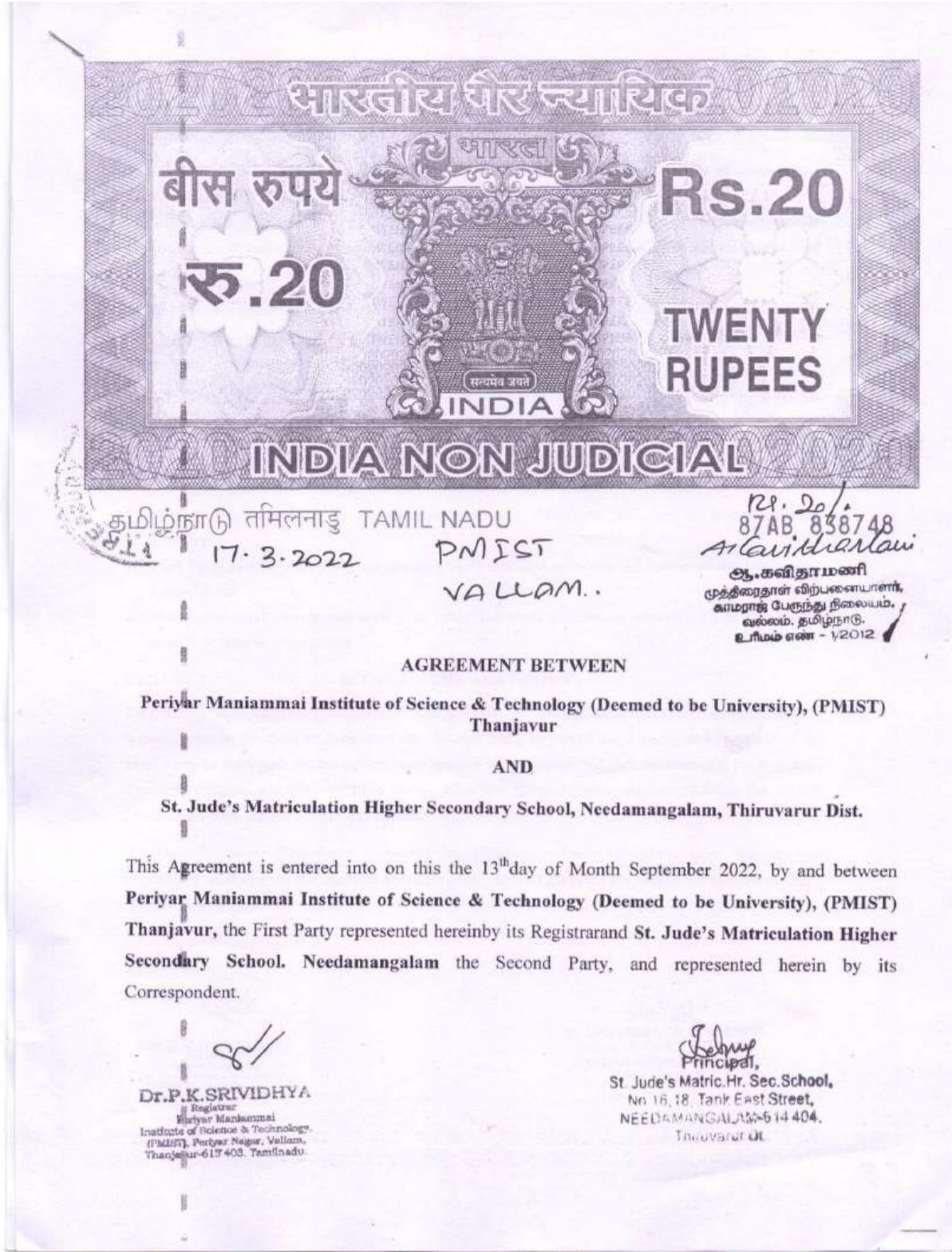
With kind regards,

*Asokan*  
Controller of Examinations



**INSTRUCTIONS TO EXAMINERS**

1. In case of your relative(s) is/are appearing for the above examinations, you are requested to decline the offer of examinership immediately.
2. If you do not accept the offer, kindly return all the documents enclosed by return post.
3. TA/DA and remuneration for conducting the Practical / Project Viva-Voce examination will be paid as per the approved norms of the University.
4. Kindly keep the appointment Strictly Confidential.
5. Cell Phones should not be used inside the lab.
6. Single digit marks are to be indicated with a protected zero in the front (eg. 08 and zero Eight)



MoU signed between PMIST and St. Jude's Matric Higher Secondary School, Nidamangalam, Tiruvarur- Page1

WHEREAS:

A) First Party is a Higher Educational Institution named: **Periyar Maniammai Institute of Science & Technology (Deemed to be University), (PMIST)**

B) Second Party is a Matriculation Higher Secondary School named: **St. Jude's Matriculation Higher Secondary School.**

C) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

D) The Parties intent to co-operate and focus their efforts on co-operation within area of Skill based training, Education, Placement, Institutional visit, Expert lecture, Collaborative projects, Workshops, Consultancy services and Co-curricular activities.

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
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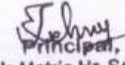
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2.2 Guest lectures: First Party to extend the necessary support to deliver guest lectures and organizing workshop to the students and staff of the Second Party on the recent developments in the field of Education.

  
**Dr. P.K. SRIVIDHYA**  
Registrar  
Periyar Maniammai  
Institute of Science & Technology  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamil Nadu.

  
**Principal,**  
St. Jude's Matric. Hr. Sec. School,  
No. 15, 18, Tank East Street,  
NEEDAMANGALAM-614 404,  
Thiruvarur Dt.



2.3 Placement of trained students: Second Party will actively engage to help in the training and placement of the students of the Department of Education of the First Party.

2.4 There is no financial commitment on both the Parties to take up any program/activities mentioned in the scope of agreement/co-operation mentioned in this agreement. If there is any financial consideration, it will be dealt separately.


2.5 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required.


**CLAUSE 3 VALIDITY**

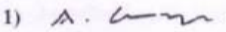
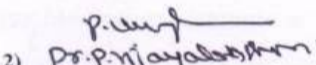
3.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms.

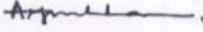
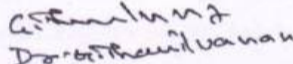
**CLAUSE 4 RELATIONSHIP BETWEEN THE PARTIES**

4.1 It is expressly agreed that First Party and Second Party are acting under this agreement as independent contractors, and the relationship established under this agreement shall not be construed as a partnership.

  
**Registrar**  
Periyar Maniammai Institute of Science & Technology, (PMIST),  
(Deemed to be University),  
Periyar Nagar Vallam,  
Thanjavur - 613403.  
E-mail: registrar@pmu.edu

**Correspondent**  
  
St. Jude's Matriculation Higher  
Secondary School,  
16, 18, Tank East Street,  
Needamangalam,  
Thiruvavur District  
E-mail: needamangalamjudes@yahoo.com

**Witness:**  
1)   
(Dr. A. George,  
Dean Academic)  
2)   
P. P. Rajalakshmi  
Dean, C.A.S.S.

**Witness:**  
1)   
(A. G. G. Chandran)  
2)   
D. S. S. S. S. S.







தமிழ்நாடு தமில்நாடு TAMIL NADU  
17-3-2022 PMIST  
VALLAM.

Rs. 20/  
87AB 838745  
A. C. Vithalan  
ஆ.கவிதாமணி  
முத்திரைதாள் விற்பனையாளர்,  
காமராஜ் பேருந்து நிலையம்,  
வல்லம், தமிழ்நாடு.  
உரிமம் எண் - V2012

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

Periyar Maniammai Institute of Science & Technology (Deemed to be University),  
Thanjavur, Tamil Nadu.

AND

AVVM Sri Pushpam College (Autonomous), Poondi, Thanjavur, Tamil Nadu.

This Memorandum of Understanding (hereinafter called as the 'MoU') is entered into on this the 21<sup>st</sup> day of the Month October 2022, by and between Periyar Maniammai Institute of Science & Technology (Deemed to be University), Thanjavur, Tamil Nadu, the First Party represented herein by its Registrar and AVVM Sri Pushpam College (Autonomous), Poondi, Thanjavur, Tamil Nadu, the Second Party, and represented herein by its Principal.

PRINCIPAL -  
A. Veeriyar Vandayar Memorial  
Sri Pushpam College (Autonomous)  
POONDI, Thanjavur Dt.

MoU signed between PMIST and AVVM Sri Pushpam College  
(Autonomous) Poondi, Thanjavur -Page 1

WHEREAS:

- A) First Party is a Higher Educational Institution named: **Periyar Maniammai Institute of Science & Technology (Deemed to be University).**
- B) Second Party is a Higher Educational Institution named: **AVVM Sri Pushpam College, (Autonomous) Poondi, Thanjavur, Tamil Nadu.**
- C) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

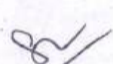
**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MoU, THE PARTIES HERETO AGREE AS FOLLOWS:**


**CLAUSE 1: CO-OPERATION**

- 1.1 Both Parties are united by common interests and objectives, and they shall establish co-operation.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities.

**CLAUSE 2: SCOPE OF THE MoU**

- 2.1. Both parties agree to encourage the following exchange activities based on their respective academic and education needs.
  - I. Collaborative research and Joint Research Programs
  - II. Exchange of information on research and education programs.
  - III. Exchange visits by faculty, researchers and students (visit & in plant training, to carry out their projects mutually with research facilities).
  - IV. Joint proposals and engagement in research and training programs sponsored by funding agencies
  - V. Joint Conferences and Joint Online events
  - VI. Other academically beneficial events as may be agreed to by both the parties from time to time.
- 2.2. The implementation of each exchange program referred above will follow the guidelines established on mutual agreement by both the parties. Efforts will be made by both the parties to find financial resources for carrying out the activities listed above.
- 2.3. Nothing shall diminish the full autonomy of either institution nor will any constraints be imposed by either upon the other in carrying out the agreement.
- 2.4 There is no financial commitment on both the Parties to take up any program / activities mentioned in the scope of MoU/ co-operation mentioned in this MoU. If there is any financial consideration, it will be dealt separately.
- 2.5 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required.



  
**PRINCIPAL**  
A.Veeriya Vandayar Memorial  
Sri Pushpam College (Autonomous)  
POONDI, Thanjavur Dt.

MoU signed between PMIST and AVVM Sri Pushpam College  
(Autonomous) Poondi, Thanjavur -Page 2


**CLAUSE 3: VALIDITY**

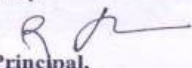
3.1 The agreement shall be in force for a period of THREE YEARS from the date of the last signing and is subject to revision or modification by mutual consent. It is also understood that this agreement may serve as the basis for the specific agreements to be developed at later date. It is further understood that either institution may terminate the agreement at any time, upon one year written notification to the partner institution, although such action will only be taken after mutual consultation in order to avoid any possible inconvenience to either party.

**CLAUSE 4 : RELATIONSHIP BETWEEN THE PARTIES**

4.1 It is expressly agreed that First Party and Second Party are acting under this MoU as independent contractors, and the relationship established under this MoU shall not be construed as a partnership.

Amendment to MOU: The Memorandum of Understanding may be amended in writing by mutual consent between both parties, IN WITNESS WHEREOF, the undersigned parties have agreed and executed this document in English in two originals.

Signed by   
**Registrar,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613403, Tamilnadu.**  
**The Registrar  
Periyar Maniammai Institute of Science &  
Technology, Deemed to be University  
(PMIST)  
Thanjavur-613403, Tamilnadu.  
E-mail: [registrar@pmu.edu](mailto:registrar@pmu.edu)**

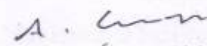
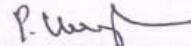
Signed by   
**The Principal,  
AVVM Sri Pushpam College  
(Autonomous), Poondi,  
Thanjavur-613403, Tamilnadu.**  
**E-mail: [avvmspc@hotmail.com](mailto:avvmspc@hotmail.com)**


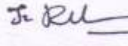
Date:

Date: 21 - 10 - 22

Witness:

Witness:

- 1)   
Dr. A. Anand  
Dean Academics
- 2)   
Dr. P. Vijayalakshmi  
Dean IC Affairs

- 1)   
**Dr. R. SUBASHCHANDRABOSI  
IQAC Co ordinator  
A.V.V.M. Sri Pushpam College (Autonomous)  
Poondi - 613403, Thanjavur - 61, Tamilnadu**
- 2)   
**Dr. K. Ravichandran Ph.D.,  
Head, Department of Physics  
AVVM Sri Pushpam College (Autonomous)  
Poondi, Thanjavur - 613403  
Tamilnadu, India.**



**Department of Physics**

Periyar Nagar, Vallam, Thanjavur-613 403, TamilNadu India Phone +91 – 4362 264600,  
Fax +91– 4362 64660 E mail: headphy@pmu.edu. Web: www.pmu.edu

**National Level Symposium on Kalam's Legacy**

Objective of the Programme:

**To provide a platform for students to showcase their knowledge, skills, and research findings in science and technology. To encourage collaboration and exchange of ideas among students from different colleges.**

Resource Person:

1. Dr. P. Mani, Assistant Professor, Department of Physics, Anna University, BIT Campus, Trichy.
2. Dr. K. Ravichandran, Head and Associate Professor, Department of Physics, A.V.V.M Sri Pushpam College, Poondi, Thanjavur

No. of Beneficiaries: 100

Convener: Dr. P. Gayathri , HOD/ Physics

Coordinators : 1. Dr. J. Jayarubi AP/ Physics

2. Dr. R. Anandhi AP/ Physics

## Invitation for the Program

### DEPARTMENT OF PHYSICS

Proudly presents



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Deemed to be University  
Established Under Sec. 3 of UGC Act, 1956 - NAAC Accredited  
think • innovate • transform



A National Level Symposium on

# KALAM'S LEGACY 2K24

01 .02.2024 | Valluvar Hall, PMIST



#### TECHNICAL EVENTS

- ORAL PRESENTATION
- POSTER PRESENTATION



#### NON-TECHNICAL EVENTS

- QUIZ CONTEST
- CONNEXION

Topics for Oral / Poster Presentati Presentation :on :

#### RECENT TRENDS IN SCIENCE & TECHNOLOGY



Registration Fee : Rs. 200

(Inclusive of GST)

Scan the QR Code for registration fee payment and attach the screen shot in the google form.

**WINNERS WILL BE AWARDED WITH  
CERTIFICATES AND MOMENTO**

#### STAFF CO-ORDINATOR

Dr. J. JAYARUBI | +91 9047394031

Dr. R. ANANDHI | +91 9791173224

#### STUDENT CO-ORDINATOR

Ms. A. N. RANJANI | +91 6385347455

Ms. N. SAROJINI | +91 9025187547

**REGISTER  
NOW**

REGISTRATION LINK : <https://forms.gle/Sv4osJjoNN7Vy5128>

**PERIYAR MANIAMMAI INSTITUTE  
OF SCIENCE & TECHNOLOGY**

(Deemed to be University)  
Periyar Nagar, Vallam, Thanjavur 613403,  
Tamil Nadu India

For more details, visit  
[www.pmu.edu](http://www.pmu.edu)  
[headphy@pmu.edu](mailto:headphy@pmu.edu)

Convenor  
**Dr. P.GAYATHRI**  
HOD - Physics  
+91 9003976739

## **Report of the Programme:**

The Department of Physics hosted the "Kalam Legacy 2024" symposium on February 1st, 2024, at Valluvar Hall. The event, named after the renowned scientist and former Indian President Dr. APJ Abdul Kalam, aimed to inspire and encourage young minds to pursue careers in science and technology.

Nine colleges and 100 students from in and around Thanjavur district participated in various events, including oral and poster presentations on contemporary advancements in science and technology, a quiz competition, and a connection game. Bon Secours College for Women emerged as the overall champion.

Additionally, a separate physics quiz was conducted for 12th standard students from various schools, with prizes awarded to encourage their interest in the Physics course.

The symposium started with mozhi vazthu , welcome address by Dr. P. Gayathri , HOD/ Physics followed by Inaugural address by Prof. S. Velusamy Hon'ble VC , Felicitation address by Dean Academic (TLE) , Dean FET , featured keynote and Special addresses by distinguished personalities, Dr. P. Mani and Mr. K. Ravichandran, who shared their insights and experiences to motivate the young participants. The programme ended with formal vote of thanks by II M.Sc. Student and National Anthem.

### **Key Takeaways:**

- The symposium successfully engaged students in exploring and discussing the latest trends in science and technology.
- The various events provided a platform for students to showcase their knowledge, creativity, and problem-solving skills.
- The inclusion of a separate quiz for school students fostered their interest in physics and encouraged them to pursue science further.
- The inspiring addresses by renowned speakers served as valuable mentorship and guidance for the young minds.



Overall, the "Kalam Legacy 2024" symposium was a resounding success, celebrating the legacy of Dr. APJ Abdul Kalam and igniting a spark of scientific curiosity and passion in the young generation.

### Event Photos



## Attendance Sheet

Periyar Maniammai Institute of Science & Technology, Vallam, Thanjavur.  
Department of Physics  
A National Level Symposium on Kalam's Legacy - 2k24 (KL2K24)

Date: 01.02.2024

Venue: Valluvar Hall

S. No	Participant Name	Branch/Year	College/University	Mobile No.	Event	V/N veg
1.	M. GAYATRI KRISHNA REETHIKA	I <sup>st</sup> yr (AEROSPACE)	PHIST	4858499219	QUIZ CONNECTION	V
2	H. VISHWA	CO-OPERATIVE TRAINING	SAHIYAPPA INSTITUTE OF CO-OPERATIVE MANAGEMENT	9790651516	CONNECTION QUIZ	NV
3	VARSHINI, S	I. HSC PHYSICS	BON SECOURS COLLEGE FOR WOMEN	9566414441	QUIZ CONNECTION	NV
4	S. BHUVANESHWARI	I-PG PHYSICS	"	9384326690	QUIZ CONNECTION	V
5	B. NEGAVATHY	I-PG PHYSICS	"	9524007677	QUIZ CONNECTION	V
6	K. KARUNYA	I-PG PHYSICS	"	9585994607	QUIZ CONNECTION	NV
7	P. NARNATHA	I-PG PHYSICS	"	8344071368	QUIZ CONNECTION	NV
8	R. SNEHA	I-PG PHYSICS	"	9789656641	QUIZ CONNECTION	NV
9	S. DEVASENA	II PG PHYSICS	"	9345680041	ORAL CONNECTION	V
10	J. ANTO PRINCY	II PG PHYSICS	"	8925030981	ORAL CONNECTION	V
11	DR. G. NANIVANNAN	DEPT. CHEMISTRY	PHIST	8122702486	ORAL PRESENTATION	V
12	VARSHINI. V	B.TECH CBE Yr I BIOTECH	PHIST	4010343238	QUIZ CONNECTION	NV
13	SAYEESAI. R	"	"	9790515929	QUIZ CONNECTION	NV
14	JAMILA FARHANA. F	"	"	7538881625	QUIZ CONNECTION	NV
15	AARTHY. M	"	"	9342127632	QUIZ CONNECTION	NV

Periyar Maniammai Institute of Science & Technology, Vallam, Thanjavur.  
Department of Physics  
A National Level Symposium on Kalam's Legacy - 2k24 (KL2K24)

Date: 01.02.2024

Venue: Valluvar Hall

S. No	Participant Name	Branch/Year	College/University	Mobile No.	Event	V/N veg
16	SANJAL. S	II - YEAR	A. V. V. M SRI PUSHPAM	9002415536	POSTER CONNECTION	V
17	ARJUN. B	III - YEAR	"	9942270173	POSTER CONNECTION	V
18	RUKSHANA BEGUM. V	T - YEAR	PHIST	6323609361	POSTER PRESENTATION	NV
19	SATHYA. M	III B. TECH	PHIST	9080571130	ORAL PRESENTATION	NV
20	A. B. KEERTHANA	B-TECH CBE III	PHIST	9845621095	ORAL PRESENTATION	NV
21	HARSHINI.	B-TECH CBE III	PHIST	7305690435	ORAL PRESENTATION	NV
22	Mrs. KALAINATHI	ASST PRDP	BON SECOURS COLLEGE OF ARTS & SCIENCE	9443977015	Attende	V
23	B. MATHIVATHANA	II Msc. PHYSICS	THANJAVUR PERIYAR GOVT ART & SCIENCE COLLEGE	7395896356	CONNECTION	NV
24	B. YAZHINI	II Msc. PHYSICS	"	9360879190	CONNECTION	NV
25	D. DHIVYA	III Bsc. PHYSICS	"	9787032773	QUIZ	NV
26	R. JOICE SAVARIRASE	II Bsc. PHYSICS	"	9865994969	QUIZ	NV
27	J. MARIA AROKIA JENNY	II HSC PHYSICS	AUXILIUM COLLEGE OF ARTS AND SCIENCE	8531965425	POSTER MAKING	NV
28	D. MURUGESHWARI	II HSC PHYSICS	"	6399439819	"	NV
29	C. SOUNDHARYA	III B.Sc PHYSICS	"	7092218867	QUIZ CONNECTION	NV
30	J. FLORINDIA	III B.Sc PHYSICS	"	638319848	"	NV

Periyar Maniammai Institute of Science & Technology, Vallam, Thanjavur.

Department of Physics

A National Level Symposium on Kalam's Legacy - 2k24 (KL2K24)

Date: 01.02.2024

Venue: Valluvar Hall

S. No	Participant Name	Branch/Year	College/University	Mobile No.	Event	V/N veg
21	S. VIJAYA SANIHI	II - BSC Physics	AUXILIUM COLLEGE OF ARTS & SCIENCE	8438648158	QUIZ & CONNECTION	NV
32	S. HARIKANNU	I.M.Sc Physics	"	7867802330	DEAL	NV
33	A. ANNE DEJOLA	I - M.Sc Physics	"	9344807851	ORAL PRESENTATION	NV
34	P. VINOTHA	I - M.Sc Physics	"	8248372731	"	NV
35	GOKULA PRASAD	PHD 1 <sup>st</sup> yr	NIT - TRICHY	8903288128	POSTER PRESENTATION	NV
36	VAJJARASAN. K	II M.Sc PHYSICS	THANTHAI PERIYAR GOVT ART & SCIENCE	9860459841	QUIZ & CONNECTION	NV
37	AJAY. R.	II B.Sc Physics	"	63699378911	QUIZ & CONNECTION	NV
38	AGATHIYAN. S	"	"	9943903495	QUIZ & CONNECTION	NV
39	AKASH. P	"	"	894048449	"	NV
40	RAJANANI. M	Asst Prof	AUXILIUM COLLEGE OF ART & SCIENCE FOR WOMEN	7010811370	PARTICIPATE	NV
41	M.V. VIJAYMARAN	I - PHYSICS	PHIST	6379369005	PARTICIPATION	
42	DENSING. V	I - PHYSICS	PHIST	8015157507	PARTICIPATION	
43	JANANI	I - PHYSICS	PHIST	8508024294	PARTICIPATION	
44	N. KANIMOZHI	II yr physics	PHIST	8870634476	PARTICIPATION	
45	J. SRINIDHI	II yr physics	PHIST	9487811992	PARTICIPATION	

Periyar Maniammai Institute of Science & Technology, Vallam, Thanjavur.

Department of Physics

A National Level Symposium on Kalam's Legacy - 2k24 (KL2K24)

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S. No	Participant Name	Branch/Year	College/University	Mobile No.	Event	V/N veg
46	C. SAROJINI	III	PHIST	8667818450	PARTICIPATION	
47	N. SAROJINI	II M.Sc	"	905187547	PARTICIPATION	
48	A.N. RANJANI	"	"	7708355867	PARTICIPATION	
49	V. PRIYADHARSHINI	"	"	8675602797	PARTICIPATION	
50	G. SAKTHI VAISHNANI	"	"	6383083550	PARTICIPATION	
51	G. GAYATHRI	"	"	9345744153	PARTICIPATION	
52	K. R. SHALINI	"	"	6369317407	PARTICIPATION	
53	C. SHALINI	"	"	7339434420	PARTICIPATION	
54	M. K. NITHISH KARTHIREYAN	"	"	9790266701	PARTICIPATION	
55	BENAZEER BEGUM	"	"	6379103467	PARTICIPATION	
56	SARUMATHI	"	"	8675602797	PARTICIPATION	
57	KANISHMA	"	"	883858837	PARTICIPATION	
58	R. DHARANI	"	"	790446005	PARTICIPATION	
59	J. ABINAYA	"	"	9363068996	PARTICIPATION	
60	R. ABINAYA	I - M.Sc	"	8838165606	PARTICIPATION	

Periyar Maniammai Institute of Science & Technology, Vallam, Thanjavur.  
Department of Physics

A National Level Symposium on Kalam's Legacy - 2k24 (KL2K24)

Date: 01.02.2024

Venue: Valluvar Hall

S. No	Participant Name	Branch/Year	College/University	Mobile No.	Event	V/N Seq
61	SUBASRI	<u>I</u> - BSC physics	PHIST	6385362993	PARTICIPATION	
62	J. JAVANYA	"	"	6383179962	PARTICIPATION	
63	S. SRIRAM	"	"		PARTICIPATION	
64	SEBVA KUMAR	"	"	6383422392	PARTICIPATION	
65	M. GOKUL KRISHNA	"	"	9361026878	PARTICIPATION	
66	A. PRAGADEESHARI	"	"	9597367876	PARTICIPATION	
67	S. ARUN KUMAR	<u>III</u> - BSC physics	PHIST	8778179171	PARTICIPATION	
68	K. KANISHKA	"	"	7094515700	PARTICIPATION	
69	M.S. RITHU	"	"	9489767417	PARTICIPATION	
70	S. KEERTHI	"	"	9363514587	PARTICIPATION	
71	<del>K. PREETHI</del> K. PRIYANTHI	"	"	9534282579	PARTICIPATION	
72	T. KAVIYA SHREE	"	"	7806932910	PARTICIPATION	
73	R. THENDRAL	"	"	9789102469	PARTICIPATION	
74	M. SANTHOSH KUMAR	"	"	79908910366	PARTICIPATION	
75	C. AJITHA	"	"	6381201190	PARTICIPATION	

Periyar Maniammai Institute of Science & Technology, Vallam, Thanjavur.

Department of Physics

A National Level Symposium on Kalam's Legacy - 2k24 (KL2K24)

Date: 01.02.2024

Venue: Valluvar Hall

S. No	Participant Name	Branch/Year	College/University	Mobile No.	Event	V/N Seq
76	A. HARINI	I - NSC	PHIST	9677154845	PARTICIPATION	
77	V. SRI LAKSHMI	"	"	8870826982	PARTICIPATION	
78	R. PRASANNA LAKSHMI	"	"	9566417471	PARTICIPATION	
79	ASWINI	"	"	6374966281	PARTICIPATION	
80	VEERA BABU	"	"	9043627569	PARTICIPATION	
81	JANANI	"	"	7200904565	PARTICIPATION	
82	VSHA	"	"	9042813647	PARTICIPATION	
83	T. BHUVANA	<u>III</u> - H.Sc.	PHIST	8610378901	PARTICIPATION	

### **Department of Physics**

Periyar Nagar, Vallam, Thanjavur-613 403, TamilNadu  
India Phone +91 – 4362 264600,  
Fax +91– 4362 64660 E mail: headphy@pmu.edu.  
Web: www.pmu.edu



## First International Conference on Progress in Materials Science for Sustainable Energy, Environment and Health

### **Objective of the Programme:**

The conference aimed to gather researchers, academicians, and industry professionals to discuss materials science research for a sustainable future. It focused on renewable energy generation, environmental protection, and sustainable materials. The conference also explored how materials science can improve human health, including drug delivery and biocompatible medical implants.

### **Resource Person:**

3. **Dr.S.Gunasekaran** Dean, Research & Development St. Peter's Institute of Higher Education and Research, Avadi, Chennai.
4. **Dr. R. Ramesh Babu**, Professor & Head, Dept. of Physics, Bharathidasan University, Tiruchirappalli.
5. **Dr. Mazabalo Baneto**, Associate Professor, Department of Physics, Université de Lomé Togo, West Africa.
6. **Dr. P. Sakthivel**, Associate Prof. of Physics, Karpagam Academy of Higher Education, Coimbatore, Tami Nadu.
7. **Dr. S. Rajagopal**, Assistant Professor of Physics and Electronics, Jain University, Bangalore.
8. **Dr. Vijayakumar Sekar**, Post Doctoral Research Fellow at Marine College, Shandong University, Weihai, China.
9. **Dr. Yuvaraj Sivalingam**, Research Scientist, King Abdullah University of Science and Technology, Thuwal, Makkah, Saudi Arabia.

**No. of Beneficiaries: 362**

**Coordinator: Dr. R. Anandhi AP/ Physics**

# Invitation for the Program

**ORGANIZING COMMITTEE**

**Chief Patrons**  
Dr. K. VEEDAMANI, Esteemed Chancellor, PMIST.  
Thiru. T. KRISHNASWAMY VANDAYAR, B.Tech, President, AVVMSPC.

**Co-Chief Patrons**  
Dr. A. RAJASEKARAN, Pro - Chancellor, PMIST.  
Thiru. A. BALASUBRAMANIAM VANDAYAR, M.A, Secretary and Correspondent, AVVMSPC.

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Dr. M. S. MUTHURAMALINGAM, Principal, AVVMSPC  
Dr. T. S. BASKARAN, Dean Academic, AVVMSPC.

**Conveners**  
Dr. K. RAVICHANDRAN, Head, Dept. of Physics, AVVMSPC.  
Dr. P. GAYATHRI, Head, Dept. of Physics, PMIST.

**Coordinators**  
Dr. S. RAVISHANKAR, Associate professor of Physics, AVVMSPC.  
Dr. B. ANANDHI, Assistant professor of Physics, PMIST.

**Organizing Committee members**  
Dr. D. KUMAR, Professor/ Physics, PMIST.  
Dr. AR. UMAYAL SUNDARI, Associate Professor / Physics, PMIST.  
Dr. K. KESAVAN, Assistant Professor (SG) / Physics, PMIST.  
Dr. M. HARI KUMAR, Assistant Professor (SG) Physics, PMIST.  
Mr. R. KARTHICK, Assistant Professor/ Physics, PMIST.  
Dr. J. JAYARUBI, Assistant Professor/ Physics, PMIST.  
Dr. T. BHAKAVARAJ, Assistant Professor/ Physics, PMIST.  
Dr. J. SRIVIND, Assistant Professor/ Physics, PMIST.  
Dr. N. SIVA JYOTHI, Assistant Professor/ Physics, PMIST.  
Dr. B. SAKTHIVEL, Associate Professor AVVMSPC.  
Dr. G. PASUPATHI, Associate Professor, AVVMSPC.  
Dr. A. B. BALU, Associate Professor, AVVMSPC.  
Dr. N. MANDULA, Associate Professor, AVVMSPC.  
Dr. R. MANIMELALAI, Associate Professor, AVVMSPC.  
Dr. M. VASANTHI, Associate Professor, AVVMSPC.  
Dr. C. RAJASHREE, Associate Professor, AVVMSPC.  
Dr. M. SUCANYA, Associate Professor, AVVMSPC.  
Dr. B. DEEPA, Associate Professor, AVVMSPC.  
Dr. K. MURUGANANDHAN, Assistant Professor, AVVMSPC.  
Mr. P. M. SURESH, Assistant Professor, AVVMSPC.  
Dr. K. THIRUMURUGAN, Assistant Professor, AVVMSPC.  
Dr. N. BALAGURU, Assistant Professor, AVVMSPC.  
Dr. K. UMA, Assistant Professor, AVVMSPC.  
Mrs. R. SRIDEVI, Assistant Professor, AVVMSPC.

**Keynote Speakers**



**Dr. R. RAMESH BABU**  
Professor & Head,  
Crystal Growth and Thin Film Laboratory  
Department of Physics,  
Dowditchaikkan University,  
Tiruchitappalli-24, Tamil Nadu.



**Dr. YUVARAJ SIVALINGAM**  
Research Scientist (Computer, Electrical, and Mathematical  
Science and Engineering Division)  
King Abdulah University of Science and Technology,  
Thuwal, Makkah, Saudi Arabia.



**Dr. P. SAKTHIVEL**  
Associate Professor of Physics,  
Faculty of Engineering,  
Kannagan Academy of Higher Education  
(Deemed to be University),  
Coimbatore, Tamil Nadu, India



**Dr. S. RAJAGOPAL**  
Assistant Professor,  
Department of Physics and Electronics,  
School of Sciences,  
Jain (Deemed to be University),  
Sudhama Nagar, Bangalore 560027  
India



**Dr. VIJAYAKUMAR SEKAR**  
Post Doctoral Research Fellow at Marine College,  
Shankaralingapuram, Vellore,  
Tamil Nadu



**Dr. MAZABALO BANETO**  
Associate Professor  
Department of Physics,  
Universite de Lome  
Togo, West Africa



**First International Conference on  
PROGRESS IN MATERIALS SCIENCE  
FOR SUSTAINABLE ENERGY,  
ENVIRONMENT AND HEALTH**

**6th - 7th March, 2024**  
**Venue: Einstein Hall, PMIST**

Organized By:  
**DEPARTMENT OF PHYSICS**  
PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University) Vellam - 621 003, Thanjavur, Tamil Nadu, India

PG & RESEARCH DEPARTMENT OF PHYSICS  
A.V.V.M. Sri Pushpam College (Autonomous)  
Pooneri - 621 003, Thanjavur, (T.N), Tamil Nadu, India

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## Report of the Programme:

The First International Conference on Progress in Materials Science for Sustainable Energy, Environment and Health was held on March 6-7, 2024, in Thanjavur, Tamil Nadu, India. The conference was jointly organized by the Department of Physics at Periyar Maniammai Institute of Science & Technology (PMIST) and the PG & Research Department of Physics at A.V.V.M Sri Pushpam College (Autonomous). The conference commenced with a warm welcome address delivered by Dr. P. Gayathri, Head of the Department of Physics at

**ABOUT THE INSTITUTION**

**PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY**  
Periyar Maniammai Institute of Science & Technology is proud to be a unique institution of higher learning and academic excellence. In an endeavour to fulfil the dreams of our inventor Thambal Periyar and Anna Maniammai, the University is dedicated to its social responsibility for transforming students from different parts of India and abroad into stalwarts by igniting their hidden talents. As it is located in a rural area, the students are admitted from a wide range of calibre and by personal attention, and modern teaching methodology towards a Product / Process / Demo / Case Study teaching, they are shaped into career oriented professionals with bright future.

**AVVM SRI PUSHPAM COLLEGE**  
It was not a dream but a relative thought of Sri. A. Veeraya Vandayar and his truthful brother Sri. A. Krishnaswamy Vandayar in the year 1956. Started in his residence with 11 students and 3 duty-bound teachers, Sri Pushpam College has now spread its banner shade for a prosperous learning. Vandayars are gentlemen farmers with a comprehensive skill for administrative management. Sri Pushpam with its serene and surroundings which has a balanced eco system, is a haven for educators.

**ABOUT THE DEPARTMENT**

**PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY**  
The Department of physics was established in the year 1988. The department is having highly qualified and well-operated faculty members. The department is carrying out various research works in the fields of Crystal growth, Thin films, Solar thermal energy, Crystallography, membrane technology and Condensed matter physics. The department is offering B.Sc. Physics, M.Sc. Physics, as regular courses and Ph.D. as full-time program. The department is having a well-equipped laboratory, which fulfills the need of B.Tech, B.Sc. Physics, M.Sc. Physics, and Ph.D. candidates.

**AVVM SRI PUSHPAM COLLEGE**  
The Department of Physics was established in 1961 with B.Sc. program. It was elevated as Post-graduate Department in 1972 and as Research Department in 1982. Both part-time and full-time Ph.D. programmes are being conducted since 1982. Research activities in materials science were started in the Physics Department in the year 2006 and active research is being pursued since then. Intense research activities are in progress in the fields of Thin Films, Nanotechnology, Crystal growth and Nonlinear Dynamics in collaborations with researchers from abroad and reputed institutions in India. Five major and ten minor research projects have been successfully completed in the last ten years. More than 300 research articles have been published in Science Citation Indexed International journals with good impact factors.

**SCOPE OF THE CONFERENCE**

This International Conference on Progress in Materials Science for Sustainable Energy, Environment and Health aims to bring together scientists, engineers and young researchers from around the world to discuss the latest advancements in materials science and their potential applications for a sustainable future. The conference will provide a platform for researchers to share their latest findings and for young researchers to learn about the potential of materials science to address global challenges. The conference is expected to attract a large number of attendees from both academia and industry, and it is expected to play a significant role in promoting the development of new materials for a sustainable future.

**CALL FOR ABSTRACTS**

**Topics not limited to:**

- Thin films
- Photocatalysts
- Nanomaterials
- Sensors
- Solar cell materials
- Energy storage devices
- Semiconducting and magnetic materials
- Crystal growth
- Optoelectronic materials
- Crystallography
- Biomaterials

**ORAL/POSTER PRESENTATION**  
Abstracts for oral/poster presentation should not exceed 300 words (Times of New Roman with font size 12) with title, authors name, affiliation, e-mail ID and mobile number. Abstracts should be submitted to: [fcpm2024@gmail.com](mailto:fcpm2024@gmail.com)  
(Oral presentation time: 15 minutes)  
Poster size should not exceed 90 cm H x 45 cm W)  
**REGISTRATION FEE (inclusive of GST)**  
Students (I/O & PC) - Rs. 500/-  
Research Scholars - Rs. 700/-  
Faculty/Delegates from Industries - Rs.1000/-  
International participants - \$ 40

**Scan the QR Code for registration fee payment and attach the screenshot in the google form.**



**NOTE**

- The conference proceedings will be published with an ISBN number.
- Only selected papers shall be considered for publication in reputed Scopus/ Web of Science Indexed journal (subject to external review)
- Best oral/poster presentation will be awarded

**Registration Link: <https://forms.gle/UMUS5dwk0j2e26>**

**ACCOMMODATION**  
Accommodation will be arranged on request in the campus for outside participants at minimal cost.

**Advisory committee**

Dr. J. JEVACHEDRA, Dean - Academic/ TLE, PMIST.  
Dr. V. VIGLET JULLI, Dean (Academic) / Curriculum Development, PMIST.  
Dr. P. VIJAYALAKSHMI, Dean (U - E) - PMIST.  
Dr. D. JEVASIMMAN, Director - Academic Research, PMIST.  
Dr. P. BALAJIKUMAR, Director - Research Training and Publications, PMIST.  
Dr. S. GUNASEKARAN, Founder President (SEA, Dean (R&D) SPINER,  
Dr. B. JAVARAMAN, C.T.N. Arts College (A), Dindigul.  
Dr. A. KATHALINGAM, Dongguk University, Seoul, South Korea.  
Dr. SURESH KUMAR GADI, Autonomous University of Coahuila, Mexican state.  
Dr. B. CHANDRABHAGHANI, Nachhappu Swamikal Arts & Science College, Karur.  
Prof. I. HUBERT JOE, University of Kerala, Kerala.  
Dr. B. M. NAGABHUSHANA, M.S. Ramaiah Institute of Technology, Bangalore.  
Dr. G. SRIKANTH BASKARAN, Andhra Loyola College, Vijayawada.  
Dr. S. PERIANDU, KMCCOES, Puducherry.  
Dr. B. SUBRAMANIAN, CECRI, Karaikal.  
Dr. B. SUNDARESAN, Ayya Nadar Janaki Ammal College, Shikass.  
Dr. A. T. RAVICHANDRAN, National College, Tiruchy.  
Dr. P. DEVENKANN, KVIC, Akola.  
Dr. C. RAMACHANDRAN RAJA, AVC College, Mayiladuthurai.  
Dr. C. RANI, Jagaj Sairaji Government College (A), Thanjavur.  
Dr. S. DHANABAJAN, J.J. College of Arts and Science, Pudukottai.  
Dr. M. SRIDHARAN, Sastra Deemed University, Thanjavur.  
Dr. S. SRIRAM, Sastra Deemed University, Thanjavur.  
Dr. T. C. SABARI GIRESAN, Bharathidasan University, Tiruchy.  
Dr. S. MURUGAN, AVC College, Mayiladuthurai.  
Dr. R. PRIKILLA, ADM College for Women, Nagapattinam.  
Dr. B. SARAVANAN, Manudhupender College, Thanjavur.  
Dr. S. SHANTHAKUMAR, Shri Mata Indira Gandhi College, Tiruchy.  
Dr. K. DHANABAJAN, J.J. College of Arts and Science, Pudukottai.  
Dr. S. MANIMARAN, Thandri Hans Rover College, Perambalur.  
Dr. I. MANIMEGAN, Mri Government Arts College, Mannarkudi.  
Dr. S. KUMARAVELAN, Linamu Dharmadass College, Mannarkudi.  
Dr. S. EBBERGAR, Government Arts College (A), Kumbakonam.  
Dr. T. KAVITHA, Ishaya College for women, Kumbakonam.  
Dr. R. MOHAN, Sri Sevugam Annamalai College, Devakottai.  
Dr. S. NILAVALAGAN, Raja Saifaji Government College (A), Thanjavur.  
Dr. M. KARUNAKARAN, Nagappa Government Arts College, Karaikal.  
Dr. V. BALACHANDRAN, Agrisur Anna Government Arts College, Madurai.  
Dr. K. CATHERINE SURIYA PUSHPA, Govt. Arts & Science College, Karambakkudi.  
Dr. A. ANEPPAMARATHI, Khadi Mohideen College, Adirampattinam.  
Dr. R. DATTA, Sengamala Thayar Educational Trust, Manjeri.  
Mrs. M. USHABANI, Sri Veekateshwara Arts and Science, Peravurani.  
Dr. C. DHANRAJ, Dharmadass Swaminathan Arts & Science College, Perambalur.

**Important Dates**

**Submission of Abstracts: 29.02.2024**  
**Registration last date: 29.02.2024**  
**Intimation of acceptance: 02.03.2024**  
**Submission of full length paper: 04.03.2024**

**For Contact**  
Dr. R. Anandhi - 9791773224 | Dr. S. Ravishankar - 8637622213

PMIST. Following the welcome, Dr. K. Ravichandran, Associate Professor & Head of the PG & Research Department of Physics at AVVM Sri Pushpam College, emphasized the conference's importance in advancing materials science for a sustainable future. Prof. V. Ramachandran, Vice-Chancellor of PMIST, addressed the gathering, providing a broader perspective on the conference's role within the university's mission. Dr. S. Gunasekaran, Dean of Research & Development at St. Peter's Institute of Higher Education and Research, Chennai, delivered the inaugural address, formally opening the conference. During this ceremony, the conference proceedings titled "First International Conference on Progress in Materials Science For Sustainable Energy, Environment And Health" were officially released. Dr. R. Ramesh Babu, Professor at the Department of Physics, Bharathidasan University, Trichy, delivered a keynote address, likely setting the stage for the following presentations and discussions.

Following the opening ceremony, the First International Conference on Progress in Materials Science for Sustainable Energy, Environment and Health offered a rich program of invited lectures by leading researchers in the field. These lectures spanned two days, delving into diverse and critical areas of materials science.

### Day 1:

- **Dr. S. Gunasekaran**, Dean of Research & Development at St. Peter's Institute of Higher Education and Research, Avadi, Chennai, presented on "Probing the influence of FTIR spectroscopy using ATR technique for materials characterisation." This lecture likely addressed the application of a specific technique (ATR-FTIR) for analyzing the chemical composition and structure of materials.
- **Dr. R. Ramesh Babu**, Professor & Head of the Department of Physics at Bharathidasan University, Tiruchirappalli, spoke on "Design and fabrication vertical dynamic gradient freeze system for organic single crystal growth." This lecture delved into the development of a system for growing high-quality organic single crystals, which are crucial for various applications in electronics and optoelectronics.
- **Dr. MAZABALO BANETO**, Associate Professor at the Department of Physics, Université de Lomé Togo, West Africa (delivered virtually), presented on "Effect of ZnO buffer layer on the performances of inverted multilayers organic solar cells." This online lecture focused on improving the efficiency of organic solar cells by incorporating a specific material (ZnO) into their design.
- **Dr. P. Sakthivel**, Associate Professor of Physics at Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu, discussed "II-VI semiconductors and its applications." This lecture likely explored the properties and potential applications of a group of semiconducting materials with broad implications in various fields.

### Day 2

The second day of the conference continued to offer insightful presentations by prominent researchers in materials science:

- **Dr. S. Rajagopal**, Assistant Professor of Physics and Electronics at Jain University, Bangalore, delivered a lecture titled "Hypothetical Materials and Hypothetical Technologies." This lecture likely ventured into the realm of theoretical and potentially futuristic materials with properties that could lead to groundbreaking advancements in various technological fields.
- **Dr. Vijayakumar Sekar**, Post Doctoral Research Fellow at the Marine College, Shandong University, Weihai, China, presented on "Harnessing Green Nanomaterials for Advancements in Human Healthcare." This lecture focused on the exciting potential of green nanomaterials, which are designed with minimal environmental impact, for applications in human healthcare. The lecture may have explored how these materials can be used for drug delivery, diagnostics, and other medical advancements.
- **Dr. Yuvaraj Sivalingam**, a Research Scientist at King Abdullah University of Science and Technology, Thuwal, Makkah, Saudi Arabia (delivered virtually), presented an online lecture titled "Introduction to Scanning Kelvin Probe System and its Application towards Chemical/biosensor, Tribology, Photodetector and Nanogenerators." This lecture likely shed light on a powerful technique (Scanning Kelvin Probe System) for investigating the electrical properties of materials at the nanoscale. Understanding these properties is crucial for developing new materials and devices for various applications, including chemical and biological sensors, studies of friction and wear (tribology), photodetectors for light detection, and even energy harvesting through nanogenerators.

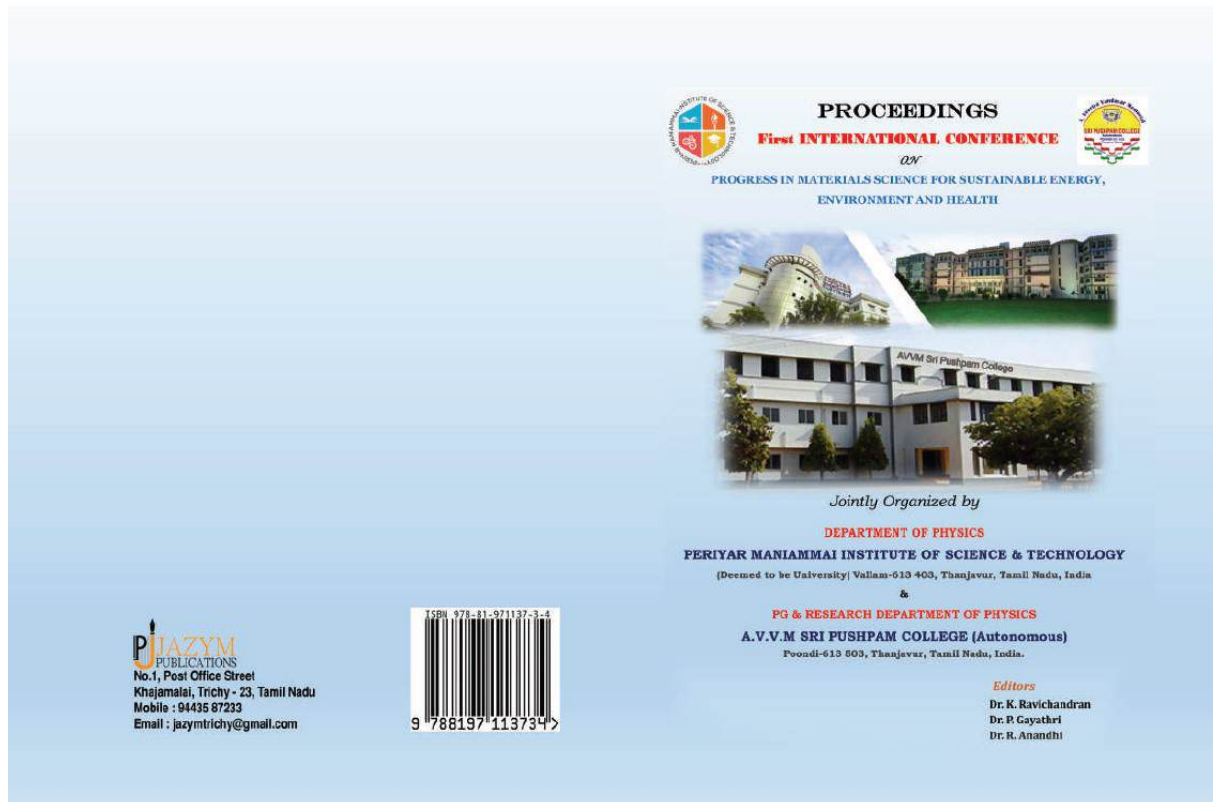
These invited lectures provided valuable insights into current research and development efforts in materials science for sustainable energy, environment, and health applications.

The conference brought together researchers and students from across Tamil Nadu and beyond to discuss advancements in materials science for a sustainable future. Over 362 students from 12 colleges participated, presenting research through 42 oral presentations and 65 poster presentations.

**Overall, the conference provided a valuable platform for researchers and students to share their work, learn about new developments in materials science, and explore its potential for addressing challenges related to sustainable energy, environment, and health.**



## Conference Proceedings



## Event Photos





## Attendance Sheet

First International Conference on "Progress in Materials Science for Sustainable Energy, Environment and Health" - 6 & 7 March 2024

Jointly Organized by Department of Physics, Periyar Maniammai Institute of Science & Technology  
(Deemed to be University), Vallam, Thanjavur and A.V.V.M. Sri Pushpam College (Autonomous),  
Poondi, Thanjavur.

Date: 07/03/24

Venue: Einstein Hall

### Attendance Sheet

S. No.	Name	Student / Research Scholar / Faculty	Institution	Signature
1.	V. Priyadharsini	P.G	PMIST	
2.	C. Ghalini	P. G	PMIST	C. Ghalini
3.	C. Vanisha	P.G	PMIST	C. Vals
4.	M. Janani	U. G	PMIST	M. Janani
5.	Denny V	U. G	PMIST	
6.	V. Grayathri	P. G	A.V.V.M.S.P.C	V. Grayathri
7.	V. Sreetha	P. G	A.V.V.M.S.P.C	V. Sreetha
8.	M. Akshaya	PG	A.V.V.M.S.P.C	M. Akshaya
9.	A. Elenajose	PG	A.V.V.M.S.P.C	A. Elenajose
10.	G. Grayathri	Student	PMIST	G. Grayathri
11.	A. K. Suresh	Student	PMIST	A. K. Suresh
12.	S. Sreetha	Student	PMIST	S. Sreetha
13.	T. Bhuvana	Student	PMIST	T. Bhuvana
14.	G. Sakthi vaishnavi	Student	PMIST	G. Sakthi vaishnavi
15.	S. Sai Suresh	Scholar	Sarabha	S. Sai Suresh
16.	G. Infant Jersey	P. G	AVV.M.S.P.C	G. Infant Jersey
17.	G. Harini	PG	AVVMSPC	G. Harini
18.	R. Hema	PG	AVVMSPC	R. Hema
19.	J. Saraswathi	PG	AVVMSPC	J. Saraswathi
20.	R. Vidhya	PG	AVVMSPC	R. Vidhya
21.	R. Logeshwari	PG	AVVMSPC	R. Logeshwari

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Date: 07/03/24

Venue: Einstein Hall

Attendance Sheet

S. No.	Name	Student / Research Scholar / Faculty	Institution	Signature
22.	S. Karishma	PG	PMIST	[Signature]
23.	J. Abinaya	PG	PMIST	[Signature]
24.	N. Benazir Begum	PG	PMIST	[Signature]
25.	S. Priyadharsini	RESEARCH SCHOLAR	RAJAH SERFOGI	[Signature]
26.	S. JASMINE JECINTHA-KAN	Research scholar	RSGIC, Thanjavur	[Signature]
27.	S. Arpani	PG	PMIST	[Signature]
28.	D. Yashini	PG	PMIST	[Signature]
29.	M. Meena	PG	PMIST	[Signature]
30.	A. Janani	PG	PMIST	[Signature]
31.	A. Harini	PG	PMIST	[Signature]
32.	V. Sri Lakshmi	PG	PMIST	[Signature]
33.	V. Suganya	PG	PMIST	[Signature]
34.	Y. Sushmita	PG	PMIST	[Signature]
35.	S. Boornika	PG	PMIST	[Signature]
36.	M. SHEHA	PG	PMIST	[Signature]
37.	Nithish Kantikyan.k	PG (PHYSICS)	PMIST	[Signature]
38.	P. Dinak Kumar	PG (CHEMISTRY)	PMIST	[Signature]
39.	T. Vasithan	"	"	[Signature]
40.	V. Thigaganjan	"	"	[Signature]
41.	M. Mathan Kumar	"	"	[Signature]
42.	P. Renjani Vijay	"	"	[Signature]

P. Raju

First International Conference on "Progress in Materials Science for Sustainable Energy, Environment and Health" - 6 & 7 March 2024

Jointly Organized by Department of Physics, Periyar Maniammai Institute of Science & Technology (Deemed to be University), Vallam, Thanjavur and A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur.

Date: 07/03/24

Venue: Einstein Hall

Attendance Sheet

S. No.	Name	Student / Research Scholar / Faculty	Institution	Signature
43	Ramesh Aaradh	PG (CHEMISTRY)	PMIST	[Signature]
44	Jensson	"	"	[Signature]
45	Harish Ram	"	"	[Signature]
46	Aswin	PG (Physics)	"	[Signature]
47	Vijay maran	UG (Physics)	"	[Signature]
48	K. Karuppanan Aravind	PG CHEMISTRY	DMIST THANJAVUR PERIYAR ARTS AND SCIENCE COLLEGE	[Signature]
49	A. Kavitha Chokran	PG CHEMISTRY	THANJAVUR PERIYAR ARTS AND SCIENCE COLLEGE	[Signature]
50	M. Meivin Joshua	UG (CHEMISTRY)	DMIST	[Signature]
51	B. Sudhan	UG (CHEMISTRY)	PMIST	[Signature]
52	A. Md. Amratham	UG (Chemistry)	PMIST	[Signature]
53	S. Prasanth	UG (Chemistry)	PMIST	[Signature]
54	R. Dinesh	UG (Chemistry)	PMIST	[Signature]
55	G. Madh	B.Tech Mechanical	PMIST	[Signature]
56	N. HARIHARAN	B.Tech Mechanical	PMIST	[Signature]
57	B. Sriram	B.Tech Mechanical	PMIST	[Signature]
58	M. Sakana	UG (Physics)	Sri Bhavathi college, pudukkottai	[Signature]
59	P. Abirami	UG (physics)	Sri bhavathi college, pudukkottai	[Signature]
60	R. Akila	UG (physics)	Sri bhavathi college, pudukkottai	[Signature]
61	M. Vaishnavi	UG (physics)	"	[Signature]
62	M. Janani	UG (physics)	"	[Signature]
63	M. Yathini	UG (physics)	"	[Signature]

P. Ganesh

First International Conference on "Progress in Materials Science for Sustainable Energy, Environment and Health" - 6 & 7 March 2024

Jointly Organized by Department of Physics, Periyar Maniammai Institute of Science & Technology (Deemed to be University), Vallam, Thanjavur and A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur.

Date: 01/03/24

Venue: Einstein Hall

Attendance Sheet				
S. No.	Name	Student / Research Scholar / Faculty	Institution	Signature
64.	V. Geetha.	PG (Physics)	Arignar Anna Arts college	V. Geetha.
65.	T. Priyadharsini	"	"	T. Priyadharsini
66.	N. Varadach	PG (Physics)	A.A.A.C. (Autonomous)	N. Varadach
67.	K. Dinesh	PG (Physics)	AAVAC - Musiri	K. Dinesh
68.	Dr. A. Viji	Faculty (Physics)	KNCEET - Thottipala	A. Viji
69.	Dr. K. Vanakumari	Faculty	Arignar Anna Arts college Musiri	Dr. K. Vanakumari
70.	M. Shalini	Ph.D (Research Scholar)	Govt. Arts college (A) Kumbakonam	M. Shalini
71.	M. Meena	Ph.D (Research Scholar)	Govt. Arts College (A) Kumbakonam	M. Meena
72.	S. Swathi	Ph.D (Research Scholar)	Govt. Arts College (A) Kumbakonam	S. Swathi
73.	Dr. R. Vijayakumar	Asst. Prof	Srimad Andavan Arts & Science	R. Vijayakumar
74.	Parvathi S	M.Sc (Physics)	Srimad Andavan Arts & Science	Parvathi S
75.	C. Megala	M.Sc (Physics)	Srimad Andavan Arts & Science	C. Megala
76.	P. Reshma	M.Sc (Physics)	Srimad Andavan Arts & Science college	P. Reshma
77.	K. Rajesh	M.Sc (Physics)	Srimad Andavan Arts & Science college	K. Rajesh
78.	B. Svekashidhar	B. Tech civil	PMIST	B. Svekashidhar
79.	R. Abinaya	M.Sc (Physics)	PMIST	R. Abinaya
80.	K. Prabhavathy	M.Sc (Physics)	Srinivasan college of arts & science perambalur	K. Prabhavathy
81.	P. Thulasi Raman	M.Sc Physics	Srinivasan college of arts & science perambalur	P. Thulasi Raman
82.	S. Parthiban	M.Sc Physics	Srinivasan college of arts & science perambalur	S. Parthiban
83.	V. Vignesh	M.Sc Physics	Srinivasan college of arts & science perambalur	V. Vignesh
84.	R. Gnanalya	M.Sc physics	Srinivasan college of arts & science perambalur	R. Gnanalya

P. Gnanalya

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Date: 07/03/24

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Attendance Sheet

S. No.	Name	Student / Research Scholar / Faculty	Institution	Signature
85.	D. Shobana	M.Sc physics	Srinivasan College of Applied Science Perambalur	
86.	K. Haritha	M.Sc PHYSICS	Srinivasan college of arts & science Srinivasan college	
87.	K. Ishwarya	M.Sc PHYSICS	of Arts and science	
88.	P. Raja	M.Sc PHYSICS	Srinivasan college of Arts and science	
89.	Dharamani.R	M.Sc- PHYSICS II	PMIST	

HOD / Physics

Head,  
Department of Physics,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST) Periyar Nagar, Vallam  
Thanjavur - 613 403, Tamilnadu.



*PG and Research Department of Physics*

**A.V.V.M. Sri Pushpam College (Autonomous)**  
**Poondi - 613 503, Thanjavur Dt., Tamil Nadu,**  
**India.**



**ORGANIZES A**  
**A SPECIAL LECTURE ON**  
**SOLAR ENERGY AND ITS UTILIZATION**

*Under DBT-STAR College Scheme*

**RESOURCE PERSON**



**12 MAR, 2024**



**SESSION I - 09.00 - 11.00 AM**  
**SESSION II - 11.15 - 01.15 PM**

**Venue:**  
**Physics Seminar Hall**



**DR. AR. UMAYAL SUNDARI**  
**ASSOCIATE PROFESSOR OF PHYSICS,**  
**PERIYAR MANIAMMAI INSTITUTE OF**  
**SCIENCE & TECHNOLOGY,**  
**VALLAM, THANJAVUR - 613 403.**

**Dr. M. S. Muthuramalingam**  
**Principal**

**Dr. T. S. Baskaran**  
**Dean- Academics**

**Dr. K. Ravichandran**  
**Head, Dept. of Physics**

**Dr. N. Manjula**  
**Dept. Co-ordinator**  
**DBT STAR College Scheme**





**PG AND RESEARCH DEPARTMENT OF PHYSICS**

A.V.V.M. Sri Pushpam College (Autonomous)  
Poondi - 613 503, Thanjavur Dt., Tamil Nadu, India.

***Under DBT-STAR College Scheme***

**ORGANIZES A  
A SPECIAL LECTURE ON**

**"YOUTH ROLE IN RESEARCH"**



**13 MAR, 2024**



**09.00 AM**

**DR. P. GAYATHRI**  
**HEAD AND ASSISTANT**  
**PROFESSOR (SG)**  
**DEPT. OF PHYSICS,**  
**PERIYAR MANIAMMAI INSTITUTE OF**  
**SCIENCE & TECHNOLOGY,**  
**VALLAM, THANJAVUR - 613 403.**

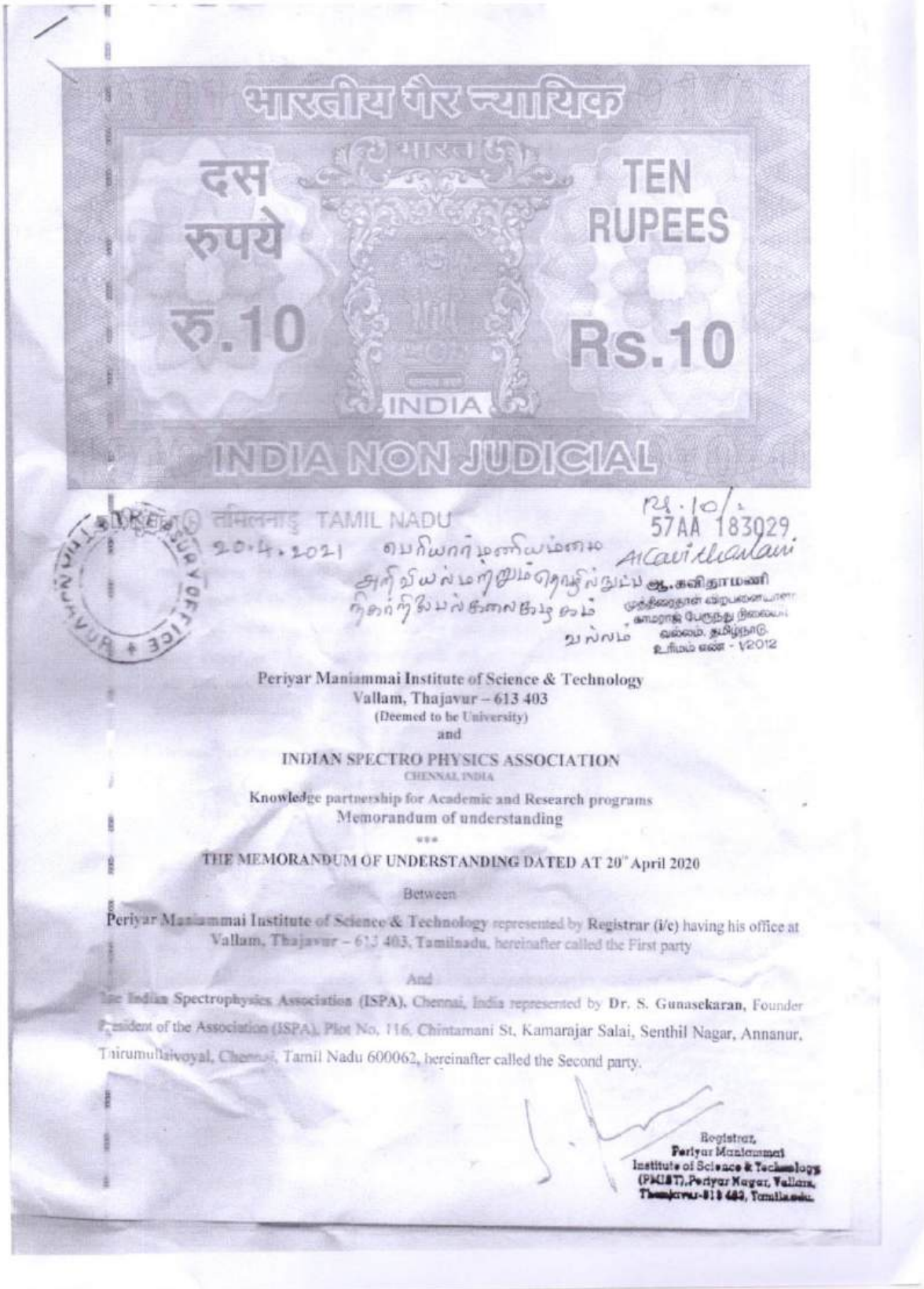


**Dr. M. S. Muthuramalingam**  
**Principal**

**Dr. T. S. Baskaran**  
**Dean- Academics**

**Dr. K. Ravichandran**  
**Head, Dept. of Physics**

**Dr. N. Manjula**  
**Dept. Co-ordinator**  
**DBT STAR College Scheme**



भारतीय गैर न्यायिक

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தமிழ்நாடு TAMIL NADU

20.4.2021

பெரியமாமுனிவர் அறிவியல் தொழில்நுட்ப ஆய்வுகூடம்  
இதன் மூலம் இயங்கிவரும் ஆய்வுகூடம்

Rs.10/-  
57AA 183029

AICAVI, Vallam  
முன்னாள் அமைச்சர்  
அலுவலகம், தலைநகர்,  
உருமலை - 612012

Periyar Maniammai Institute of Science & Technology  
Vallam, Thajavur – 613 403  
(Deemed to be University)  
and

INDIAN SPECTRO PHYSICS ASSOCIATION  
CHENNAI, INDIA

Knowledge partnership for Academic and Research programs  
Memorandum of understanding

\*\*\*

THE MEMORANDUM OF UNDERSTANDING DATED AT 20<sup>th</sup> April 2020

Between

Periyar Maniammai Institute of Science & Technology represented by Registrar (i/c) having his office at  
Vallam, Thajavur – 613 403, Tamilnadu, hereinafter called the First party

And

The Indian Spectrophysics Association (ISPA), Chennai, India represented by Dr. S. Gunasekaran, Founder  
President of the Association (ISPA), Plot No. 116, Chintamani St. Kamarajar Salai, Senthil Nagar, Annanur,  
Tirumullaivoyal, Chennai, Tamil Nadu 600062, hereinafter called the Second party.

Registrar,  
Periyar Maniammai  
Institute of Science & Technology  
(PMIST), Periyar Nagar, Vallam,  
Thajavur-613 403, Tamilnadu.

MoU signed between PMIST and Indian Spectro Physics Association (ISPA) – Page1

Do hereby agree to the following:

This Memorandum of Understanding (MoU) between **Periyar Maniammai Institute of Science & Technology, Vallam, Thajavur – 613 403**, and **Indian Spectrophysics Association (ISPA)** Sets forth the agreement of the parties with respect to mutually benefit initiative to strength the training system and facilitate knowledge partnership for Academic and Research Programmes for sustained Researchers.

#### 1. Objective and role of partnership

1.1. Periyar Maniammai Institute of Science & Technology, Vallam, Thajavur – 613 403, and Indian Spectrophysics Association partnership is constituted in mutual consultation with each other and based on the overwhelming positive response for academic and Research collaboration for mutual benefit of both the parties of the partnership concerned.

1.2. The Primary Objective of the partnership is to provide a platform for Researchers to interact with the academia for knowledge sharing and for catalyzing joint initiatives to launch development programmes for the benefit of Researchers. Such knowledge sharing is not merely in terms of the number of human resources required for the types training and skill sets, but is also intended to be much deeper with long-term strategic goals and advantages for both the parties. This partnership will also cater to the needs of educational, research and consultancy programmes in the area of Science and Technology.

1.3. The activities would involve:

- (i) Conducting Science Awareness Programmes
- (ii) Conducting PG Students Technical Seminars
- (iii) Conducting Workshop for College and University Teachers
- (iv) Organizing Conferences on Applied Sciences

1.4. Since the primary objective of the partnership is to become a platform to facilitate Knowledge sharing, the methods of functioning will be as follows:-

- (i) Help the process for Faculty Development in both organizations by taking up Joint Research and Consultancy Projects
- (ii) Jointly Identify Expert Resource Persons

Registrar,  
Periyar Maniammai  
Institute of Science & Technology  
(PMIST), Periyar Nagar, Vallam,  
Thajavur-613 403, Tamil Nadu.

2. Member of the partnership committee

- 2.1. The partnership committee will comprise three representatives from **Periyar Maniammai Institute of Science & Technology, Vallam, Thajavur – 613 403, Tamilnadu**, and three representatives from the **ISPA** with a term of three years with subsequent renewals and modifications for a further period, subject to renewal of this MOU.
- 2.2. The partnership Committee would meet once every quarter to take stock of the progress and give directions to the various clauses for implementation.
- 2.3. **The Registrar (i/c)** having his office at **Vallam, Thajavur – 613403, Tamilnadu**, and **ISPA** would provide dedicated staff to work very closely to achieve the goals of the partnership.
- 2.4. The Agreement shall commence from the date of signing and in force for three years. The agreement can be terminated on mutual consent after prior written notice by either party to the other party. The termination will be subject to compliance to the completion of all commitments made. Notwithstanding any such termination, both parties shall ensure that all activities in progress are completed successfully.
- 2.5. After the expiry, the MoU may be extended for further period based on mutual Interest.

General:

This document is a statement of understanding and is not intended to create any binding legal and financial obligations on either party.

Both parties hereto have affixed their signatures:

For Indian Spectrophysics Association  
Authorized Signatory  
*[Signature]*  
26/04/21  
Dr. S. Gunasekaran  
Founder President, **ISPA. GUNASEKARAN**  
Plot No, 116, Chintamani St,  
Kamarajar Salai, Senthil Nagar,  
Annalur, Thirumullaivoyal,  
Chennai, Tamil Nadu - 600062  
M.Sc., Ph.D., D.Sc.  
AWARDEE  
Former President: ISPA  
Indian Spectrophysics Association  
Chennai - TN - India.

For PMIST  
Authorized Signatory  
*[Signature]*  
Registrar,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST) Periyar Nagar, Vallam,  
Thajavur-613 403, Tamilnadu.  
Dr. S. Devadoss  
Registrar (i/c)  
Periyar Maniammai Institute of Science &  
Technology, Vallam, Thajavur – 613 403,  
Tamilnadu

Witness 1.  
*[Signature]*  
Dr. S. KUMARESAN, M.Sc., M.Phil., Ph.D.,  
Asst. Professor, PG and Research Dept. of Physics,  
Arignar Anna Govt. Arts College,  
Chayyar - 604 407.

Witness 2.  
*[Signature]*  
26/04/2021  
(P. JANANI)  
(Web Coordinator, ISPA).



Witness 1. *[Signature]*  
Dean Research,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST) Periyar Nagar, Vallam,  
Thajavur-613 403, Tamilnadu.

Witness 2. *[Signature]*  
26/04/21  
Head,  
Department of Physics,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST) Periyar Nagar, Vallam,  
Thajavur-613 403, Tamilnadu.



**PROGRAMME REPORT ON**

**INOVATING IN HEI-Innovating Research**

Resource Person

**Prof. Dr. S. Gunasekaran**

Organized by

**PHYSICS- PMIST**

## Department of Physics

Periyar Nagar, Vallam, Thanjavur-613 403, TamilNadu

India Phone +91 – 4362 264600,

Fax +91– 4362 64660 E mail: [headphy@pmu.edu](mailto:headphy@pmu.edu).

Web: [www.pmu.edu](http://www.pmu.edu)



### **Six days Faculty Development Programme on Innovative Teaching Strategies for Mastering Physics (ITSMP-2024)**

#### **Objective of the Programme:**

To empower faculty members' with the knowledge, skill and resource necessary to implement effective and engaging teaching practices in physics, thereby enhancing student learning outcomes and fostering a culture of continuous improvement in teaching. To encourage contact and collaboration amongst faculty members from various fields.

#### **Resource Persons and Session Details:**

**Prof. Dr. S. Gunasekaran** - Innovation and Research in HEI

**No. of Beneficiaries:** 120

**Coordinators:** Dr. T. Bhagyaraj AP/ Physics  
Dr. N. Siva Jyothi AP/ Physics

## **Department of Physics**

Periyar Nagar, Vallam, Thanjavur-613 403, TamilNadu

India Phone +91 – 4362 264600,

Fax +91– 4362 64660 E mail: [headphy@pmu.edu](mailto:headphy@pmu.edu).

Web: [www.pmu.edu](http://www.pmu.edu)



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Established Under Sec. 3 of UGC Act, 1956 • NAAC Accredited  
think • innovate • transform

## **Department of Physics Jointly with IIC organizes**

### **Special Lecture on**

Creating a New Framework for a vibrant Ecosystem of Innovation and  
Research in HEI

<b>10.00am – 10.30am</b>	<p><b>INAGURATION</b></p> <ol style="list-style-type: none"> <li><b>Compeering</b> - Dr. N. Sivajyothi AP/ Phy</li> <li><b>Welcome address</b> – Dr. AR. Umaiyal Sundari Associate Professor</li> <li><b>Introduction</b> – Dr. P. Gayathri – HoD/ Physics</li> <li><b>Felicitatation Address</b> – Dr. P. Balakumar – Director – Research Training and Publications</li> <li><b>Presidential Address</b> – Dr. P.K. Srividhya , Registrar</li> </ol>
<b>10.30am – 11.30am</b>	<p><b>Session – I : Special Lecture</b></p> <p><b>Prof. Dr. S. Gunasekaran</b></p> <p>Dean R&amp;D</p> <p>St. Peters Institute of Higher Education and Research <b>ISPA</b> Founder &amp; President Chennai.</p>
<b>11.30am – 11.45am</b>	<b>TEA BREAK</b>
<b>11.45am – 12.45pm</b>	<p><b>Session – II : Special Lecture</b></p> <p><b>Prof. Dr. S. Gunasekaran</b></p> <p>Dean R&amp;D</p> <p>St. Peters Institute of Higher Education and Research <b>ISPA</b> Founder &amp; President Chennai.</p>
<b>12.45pm – 12.55pm</b>	<b>Interaction</b>
<b>12.55pm – 01.00pm</b>	<b>Vote of Thanks</b> –Dr. T. Bhagyaraj AP/ Phy

## **PROGRAMME SCHEDULE**



## Invitation for the Program



**Department of Physics & Centre for Human Resource Development (CHRD) Jointly Organise FDP on**

**Special Lecture on**

**LECTURE: CREATING A NEW FRAMEWORK FOR A VIBRANT ECOSYSTEM OF INNOVATION AND RESEARCH IN HEI**



**Resource Person**  
**Prof. S. Gunasekaran M.Sc., Ph.D., D.Sc.**  
Founder & President ISPA  
Dean R&D,  
St. Peter's Institute for Higher Education, Chennai.

**Venue: Einstein Hall**  
**Date: 28.06.2024**  
**Time: 10.00 AM - 1.00 PM**

**Coordinators**  
Dr. T. Bhagyaraj  
Dr. N. Siva Jyothi

**Convener**  
Dr. P. Gayathri  
Head / Physics

**Department of Physics & IIC**

**INNOVATION AND RESEARCH IN HEI**

**VENUE** | **EINSTEIN HALL**  
**JUNE** | **TIME**  
**28.06.2024** | **10.00 AM TO 1.00 PM**

**Dr. T. Bhagyaraj**  
**Dr. N. Sivajyothi**  
**Coordinators**

**Dr. P. Gayathri**  
**HOD/Physics**  
**Convenor**

**Prof. S. Gunasekaran Ph.D.**  
**Dean-R&D**  
**St. Peter's Institute for Higher Education and Research, Chennai.**

### Report of the Programme:

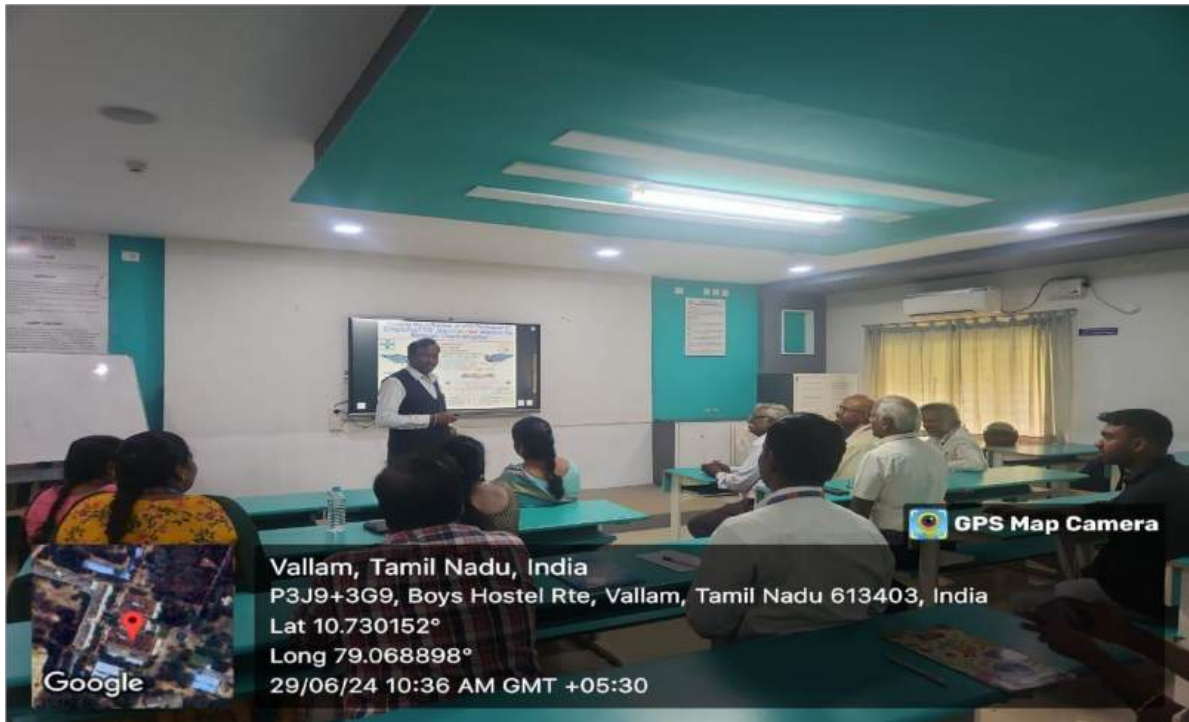
□ The one day Innovation and Research in HEI in part of Faculty Development Programme (FDP) intended to provide participants with advanced knowledge in research and practical skills in interdisciplinary in physics of various fields used in scientific research. The program encompassed a wide range of methods in physics, such as skill enhancement, integration of technology, active learning, assessment strategies, research skills, professional development, collaboration and networking.

Overall, the Faculty Development Programme on **Innovative Teaching Strategies for Mastering Physics** was a valuable learning experience for participating faculty members. The program provided them with the necessary knowledge, skills, and confidence to effectively utilize these techniques in their research and teaching endeavors.

## Event Photos

**Prof. Dr. S. Gunasekaran - Innovation and Research in HEI**





**DEPARTMENT OF PHYSICS**

Periyar Nagar, VallamThanjavur - 613 403, Tamil Nadu, India  
 Phone: +91 - 4362 - 264600 Fax: +91- 4362 - 264660  
 Email: headphy@pmu.edu Web: www.pmu.edu



**PERIYAR  
 MANIAMMAI**  
 INSTITUTE OF SCIENCE & TECHNOLOGY

**Department of Physics Jointly with IIC organizes  
 Special Lecture on**

Lecture 1: Creating a New Framework for a vibrant Ecosystem of Innovation and  
 Research in HEI

Lecture 2: Eminence of publication metrics: A Catalyst to Innovation and Professional  
 Advancement

Date: 28.06.2024

Venue: Einstein Hall

S. No.	Name	Designation	Signature
1.	Vashnavi S	Assistant professor/ Dept of MBA	SVC
2.	Amirtha A	AP/MBA	A. Amirtha
3.	K. PADMINI	AP/ MBA	P. Admini
4.	S. Deepana	Assistant Professor (MBA)	S. Deepana
5.	S. Kularthai Theerth	AP/Com	S. Kularthai
6.	N. Jincy Pami	AP/Com	N. Jincy
7.	K. Mohala	AP/Com	K. Mohala
8.	J. AYYANAR	AP/Com	J. Ayyanar
9.	A. Anthoniammal	AP/Commerce	A. Anthoniammal
10.	Dr. A. N. CHRISTY	AP(SG)/Commerce	A. N. Christy
11.	Dr. J. J. K. K. K.	Asso. Prof/ARCA	J. J. K. K.
12.	Dr. B. ANUPRIYA	Asso. Prof/CIVIL	B. Anupriya
13.	Dr. R. N. LALANI	AP/Chemistry	R. N. Lalani
14.	Dr. A. SUBHASRI	AP/chemistry	A. Subhasri
15.	Dr. M. MOHANA	AP/chemistry	M. Mohana
16.	Dr. J. Anjana Meera	AP/Commerce	J. Anjana Meera
17.	R. Anitha	TA/Commerce	R. Anitha
18.	G. Durga	TA/Commerce	G. Durga
19.	Ms. P. MALA	AP/Biotechnology	P. Mala
20.	MS. P. LATIFA	AP/CIVIL	P. Latifa

J. Sheela  
 Coordinator

P. Chandrasekhar  
 Head  
 Department of Physics,  
 Periyar Maniammai  
 Institute of Science & Technology  
 (PMIST) Periyar Nagar, Vallam  
 Thanjavur- 613 403, Tamil Nadu

**DEPARTMENT OF PHYSICS**

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 Email: headphy@pnu.edu Web: www. pnu.edu



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 Advancement**

Date: 28.06.2024

Venue: Einstein Hall

S. No.	Name	Designation	Signature
1.	Dr. S. Buvaneshwari	Asso. prof & Head/ Maths	S. Buvaneshwari 28/6/24
2.	Dr. K. Marudiyi Begam	AP(SG) /ECE	K. Marudiyi Begam 28/6/24
3.	Dr. S. Suganthi	AP(SG) / Arch	S. Suganthi 28/6/24
4.	Dr. S. Uthya Lakshmi	AP / ARCH	S. Uthya Lakshmi 28/6/24
5.	Dr. K. Chitra	AP / Arch	K. Chitra 28/6/24
6.	Ms. U. Elamathi	AP / CSE	U. Elamathi 28/6/24
7.	Ms. K. Anitha	"	K. Anitha 28/6/24
8.	Ms. A. Masanam	"	A. Masanam 28/6/24
9.	Ms. K. Sathyalakshmi	"	K. Sathyalakshmi 28/6/24
10.	Ms. A.V.M.B. Aruna	"	Aruna 28/6/24
11.	Ms. S.P. Raniya	AP (SS)/CSE	S.P. Raniya 28/6/24
12.	Ms. R. Ramani	AP / AERO	R. Ramani 28/6/24
13.	Dr. N. BALAMBIGAN	AP / Maths	N. Balambigan 28/6/24
14.	Dr. B. Sridevi	AP / Maths	B. Sridevi 28/6/24
15.	Dr. P.N. Sreedha	AP / Maths	P.N. Sreedha 28/6/24
16.	Dr. P. Geetha	AP(SS) / Maths	P. Geetha 28/6/24
17.	Ms. N. ANUSHA	AP / Maths	N. Anusha 28/6/24
18.	Dr. J. JAYANTHI	AP(SG) / Maths	J. Jayanthi 28/6/24
19.	S. Suganya	AP / SE	S. Suganya 28/6/24
20.	Dr. H. Malini	AP / SE	H. Malini 28/6/24

T. B. ...  
 N. ...  
 Coordinator

P. ...  
 Converter  
**Head,**  
 Department of Physics,  
 Periyar Maniammai  
 Institute of Science & Technology,  
 (PMIST) Periyar Nagar, Vallam  
 Thanjavur- 613 403, Tamilnadu.

**DEPARTMENT OF PHYSICS**

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**PERIYAR  
 MANIAMMAI**  
 INSTITUTE OF SCIENCE & TECHNOLOGY  
 PERIYAR NAGAR, VALLAMTHANJAVUR  
 TAMIL NADU - 613 403

**Department of Physics Jointly with IIC organizes  
 Special Lecture on**

**Lecture 1: Creating a New Framework for a vibrant Ecosystem of Innovation and  
 Research in HEI**

**Lecture 2: Eminence of publication metrics: A Catalyst to Innovation and Professional  
 Advancement**

Date: 28.06.2024

Venue: Einstein Hall

S. No.	Name	Designation	Signature
1.	Dr. D. Umamaheswari	AP / Languages	[Signature]
2.	Ms. A. Surya Fernandes	AP / Languages	[Signature]
3.	Ms. G. DEEPIKA	Tea. Assi. / Languages	[Signature]
4.	Ms. S. MEENA	A.P / Languages	[Signature]
5.	Ms. K. SUMITHRA	AP / Commerce	[Signature]
6.	Ms. S. Asha	AP / ECE	[Signature]
7.	Ms. B. Priyanka	AP / ECE	[Signature]
8.	Ms. J. Anandavalli	AP / CSA	[Signature]
9.	Ms. N. Shanmugalakshmi	AP / CSA	[Signature]
10.	Ms. P. Ponnitha	AP / CSA	[Signature]
11.	Ms. B. Lavanya	AP / CSA	[Signature]
12.	Ms. A. Silvasiya	AP / CSA	[Signature]
13.	Ms. G. REVATHI	AP / CSA	[Signature]
14.	Ms. SEETHA P.	AP / CSA	[Signature]
15.	M. SWATHI	AP / CSA	[Signature]
16.	Dr. S. SRINIVASAN	AP / Education	[Signature]
17.	M. Kartikeya	AP / Education	[Signature]
18.	Dr. ANAND GANNA SELVAN :S	AP / Edn.	[Signature]
19.	Mr. M. ANAND	AP / CSA	[Signature]
20.	G. SGNTHILLAN-M	AP-ss- CSA	[Signature]

[Signature]  
 Coordinator

[Signature]  
 Coordinator

[Signature]  
 Convenor  
 Head  
 Department of Physics,  
 Periyar Maniammai  
 Institute of Science & Technology,  
 (PMIST) Periyar Nagar, Vallam  
 Thanjavur- 613 403, Tamil Nadu.

[Signature]  
 Head  
 Department of Physics,  
 Periyar Maniammai  
 Institute of Science & Technology,  
 (PMIST) Periyar Nagar, Vallam  
 Thanjavur- 613 403, Tamil Nadu.

**DEPARTMENT OF PHYSICS**

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**PERIYAR  
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INSTITUTE OF SCIENCE & TECHNOLOGY

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Advancement**

Date: 28.06.2024

Venue: Einstein Hall

S. No.	Name	Designation	Signature
1.	S.J. Princes Rosaline	AP/civil	S.J. Princes
2.	M. SHARATHA	AP/EIT	M. Sharatha
3.	P. Balayathinam	AP/commerce	P. Balayathinam
4.	M. Vasanthakumari	AP. Commerce	M. Vasanthakumari
5.	V.S.C. VALARINATHI	AP/Commerce	V.S.C. Valarinathi
6.	E. LATHA	AP/COMMERCE	E. Latha
7.	P. NAGARAKESHAVI	AP/Commerce	P. Nagarakeshavi
8.	B. GOWRI	AP/Commerce	B. Gowri
9.	T. JAYAKRISHNAN	AP/CSA	T. Jayakrishnan
10.	I. ROSAITH	AP/MANAGEMENT	I. Rosaith
11.	S. Vasupalakrishnan	AP/MBA	S. Vasupalakrishnan
12.	Dr. V. DONNIE	AP/MBA	Dr. V. Donnie
13.	J. EDWARD	AP/MBA	J. Edward
14.	P. Nivetha	AP/Commerce	P. Nivetha
15.	A. Jeeva	AP/SE	A. Jeeva
16.	K. Shivalokan	AP/SC	K. Shivalokan
17.	Dr. G. PRIYA	AP/Languages	Dr. G. Priya
18.	Ms. K. BHAVADHARINI	AP/Languages	Ms. K. Bhavadharini
19.	Ms. A. SATHYA	AP/Languages	Ms. A. Sathya
20.	Dr. C. LEUSALYA	"	Dr. C. Leusalya

T. Shy  
 N. Singh  
 Coordinator

P. Chand  
 Convener  
 Head,  
 Department of Physics,  
 Periyar Maniammai  
 Institute of Science & Technology  
 (PMIST) Periyar Nagar, Vallam  
 Thanjavur - 613 403, Tamilnadu.





தமிழ்நாடு தமில்நாடு TAMIL NADU  
15.9.2021

Periyar Maniammai  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.

128.20/-  
95AB 020345  
A. Cavitharan  
ஆ. கவிதாமணி  
முத்திரைதான் விடுபடையாளம்.  
காமராஜ் பேருந்து நிலையம்.  
வல்லம், தமிழ்நாடு.  
உரிமம் எண் - 1/2012

**Memorandum of Understanding (MoU) between Periyar Maniammai  
Institute of Science & Technology (Deemed to be University) and  
G.T.N Arts College (Autonomous), Dindigul.**

This Memorandum of Understanding is drawn up and signed by Department of Physics, Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur (hereafter Physics PMIST) and G.T.N. Arts College (Autonomous), Dindigul (hereafter GTN). Physics PMIST and GTN agree to engage in academic cooperation in areas of mutual interests.

The projects that might fall within this programme of academic cooperation will, where mutual benefits can be identified, include the following.

1. Collaborative teaching including joint training and supervision of Bachelors, Masters and Ph.D. degree students.
2. Collaborative research
3. Exchange of information on research and education programmes

*[Handwritten signature]*

*[Handwritten signature]*

4. Exchange visits by faculty, researchers and students (visit & in plant training, to carry out their projects mutually with research facilities).
5. Joint proposals and engagement in research and training programmes sponsored by funding agencies.

With respect to the above independent and detailed agreements will be drawn up and agreed by PMIST and GTN.

The Memorandum of Understanding is to be valid for a period of three years from the date which it is first signed. In the event of either party wishing to change or terminate the agreement, notice in writing must be given at least six months in advance of the proposed date of change or termination.

The Principal / Registrar of Colleges academic contacts for this cooperation are Dr.P. Balagurusamy, Principal for GTN and Dr. P.K. Srividhya, Registrar for PMIST.

Signed by  
**Registrar i/c**  
Periyar Maniammai Institute of  
Science & Technology (PMIST),  
(Deemed to be University)  
Periyar Nagar, Vallam, Thanjavur-613403

Signed by  
**The Principal,**  
G.T.N Arts College (Autonomous),  
Old Karur Road,  
Dindigul 624 005.

Witnessed by  
**Dean, FHSM**  
PMIST, Vallam, Thanjavur

Witnessed by  
**Head, Department of Physics**  
G.T.N Arts College (Autonomous),  
Dindigul 624 005.

Witnessed by  
**Head, Department of Physics,**  
PMIST, Vallam, Thanjavur

Witnessed by  
**Dr. P. Uma Mageshwari**  
AP, Physics,  
G.T.N Arts College (Autonomous),  
Dindigul 624 005.

Date: 7/10/21

Date: 7/10/21



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Established Under Sec. 3 of UGC Act, 1956 - NAAC Accredited  
think • innovate • transform

## **PROGRAMME REPORT ON**

### **Webinar-Webinar on Heliophysics**

Resource Person

**Dr. P. Uma Mageshwari**

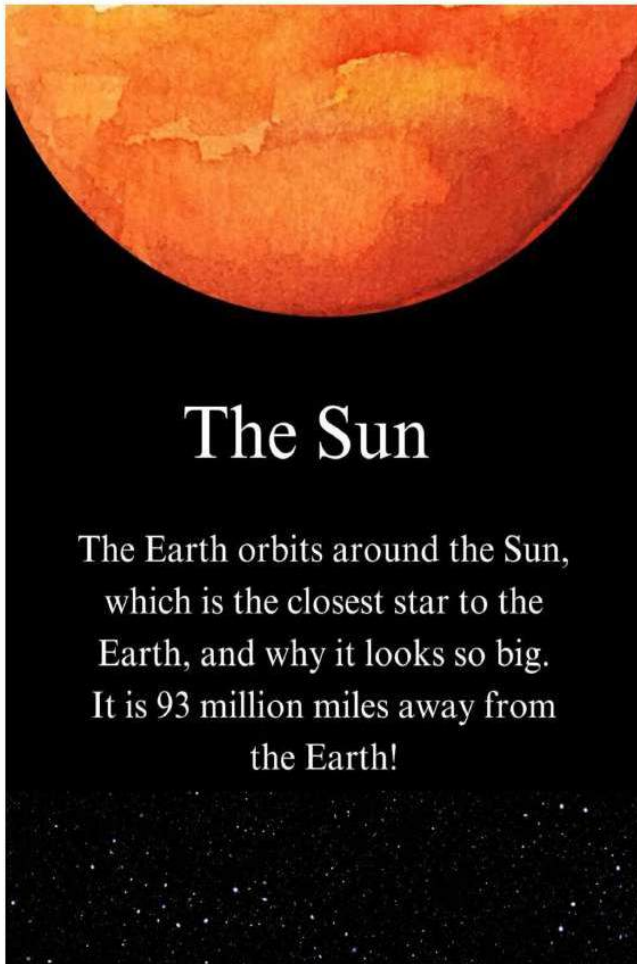
Organized by

**PHYSICS- PMIST**

## Webinar on Heliophysics

### Objective

To Enrich the knowledge student and faculty about Heliophysics



**Department of Physics**  
Periyar Maniammai Institute of Science and Technology

Organizing

**Webinar on "*Heliophysics*"**

Resource Person  
**Dr. P. Uma Mageshwari**  
Assistant Professor  
Department of Physics  
G.T.N Arts College  
Dindigul

Date : 26.06.2023 & Time: 11.00am  
Register Here: <https://forms.gle/RDL1w9iBkhasjCDW9>

Convener: Dr.K.Kesavan      Coordinator: Dr.J.Jayarubi

Google Meet joining info  
Video call link: <https://meet.google.com/srh-hixz-aqs>  
Or dial: (US) +1 484-416-2454 PIN: 552 983 048#



**DEPARTMENT OF PHYSICS**

Periyar Nagar, Valiam Thanjavur - 613 403, Tamil Nadu, India  
 Phone: +91 - 4362 - 264600 Fax: +91- 4362 - 264660  
 Email: headphy@pmu.edu Web: www.pmu.edu



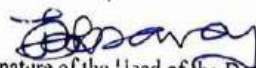
**PERIYAR  
MANIAMMAI**  
 INSTITUTE OF SCIENCE & TECHNOLOGY  
 Established under the I.A.T. Act, 1984 - NAAC Accredited  
 UGC - 2(F) Approved  
 UGC - 12(B) Approved  
 UGC - 17(A) Approved  
 UGC - 18(A) Approved  
 UGC - 18(B) Approved  
 UGC - 18(C) Approved  
 UGC - 18(D) Approved  
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 UGC - 18(P) Approved  
 UGC - 18(Q) Approved  
 UGC - 18(R) Approved  
 UGC - 18(S) Approved  
 UGC - 18(T) Approved  
 UGC - 18(U) Approved  
 UGC - 18(V) Approved  
 UGC - 18(W) Approved  
 UGC - 18(X) Approved  
 UGC - 18(Y) Approved  
 UGC - 18(Z) Approved

**Proforma for requesting approval to conduct programme**

Sl.No.	Detail	Response
1.	Name of the Department	PHYSICS
2.	Name of the Programme	Webinar on "Heliophysics"
3.	NAAC Criteria and category of the programme	Criteria 2
4.	Date and time of the Event	26.06.2023 & 11.00am
5.	Online / offline	Online
6.	Name of the online platform if conducted online	Google Meet
7.	If Zoom slot is required whether the slot with the system administrator	Not required
8.	Name & Designation of the Organizing Secretary / Co-ordinator (Responsible for the submission of reports and accounts)	Coordinator : Dr.J.Jayarubi, Asst. Prof./Physics Convener : Dr.K.Keerthi, Asst.Prof.(SG)/HOD
9.	Details of the collaborating institution / industry / resources person	Dr. P. Uma Mageshwari, Assistant Professor, Department of Physics, G.T.N. Arts College, Dindigul.
10.	Budget requirement with breakup details	Attached
11.	Whether registration fees collected for the participants? if yes give details	No
12.	Attachments (Brochure, Draft Invitation, Draft Certificates, Programme schedule)	Yet to Prepare

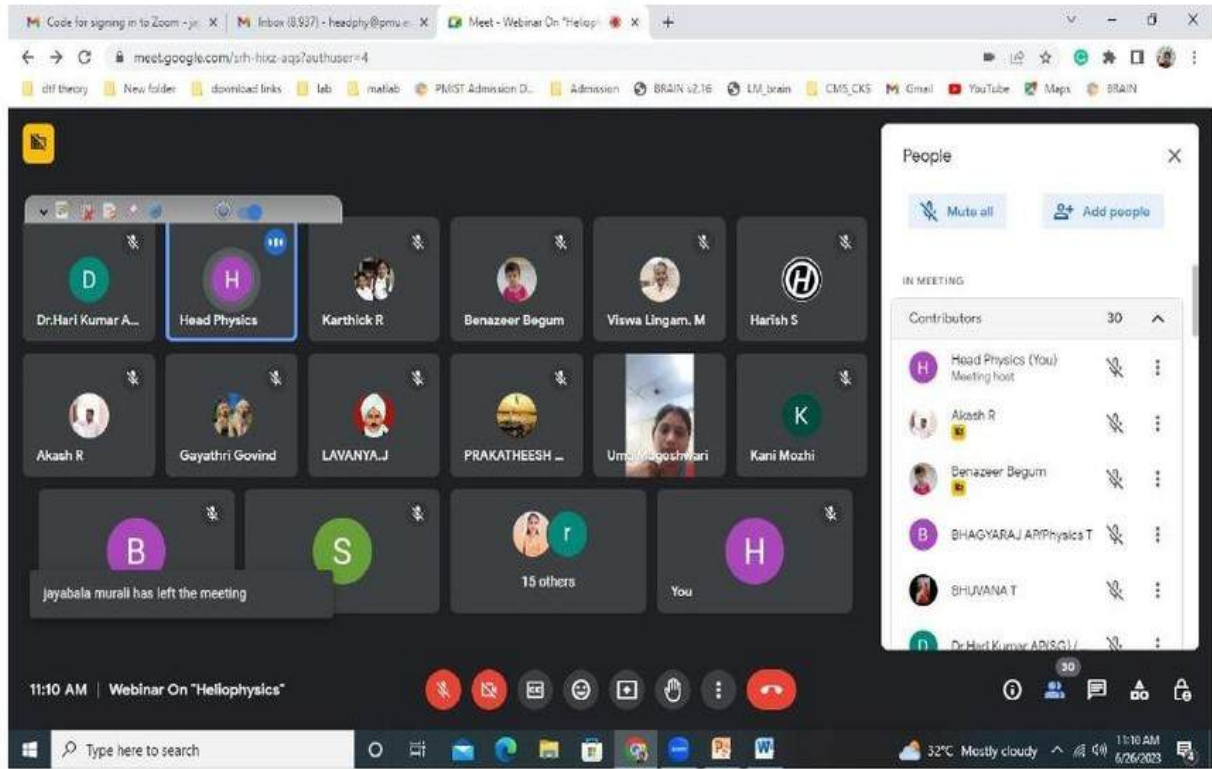
Note: All the programmes reports and video recordings (if any) shall be submitted in the required format to [icac@pmu.edu](mailto:icac@pmu.edu) both soft and hard copy within five days from the date of organizing the event.

Date of submission 23.06.23

  
 Signature of the Head of the Department

  
 Concerned Faculty Dean

  
 Dean (Academic)



## Webinar on Heliophysics

### Outcome

Students are gained Knowledge about sun and earth relation through this Webinar.



From

Dr.R.Jayaraman  
Associate Professor &Head  
Department of Physics  
G.T.N. Arts College (Autonomous)  
Dindigul

To

The Principal  
G.T.N. Arts College (Autonomous)  
Dindigul

Respected Sir,

Sub: MoU Activity – Field visit- PMIST- Seeking permission - reg.

As an MoU activity, it is proposed to organize a Field Visit for I, II and III year students along with staff members of our Department to Thin Film Laboratory, Robotics Laboratory, Solar Thermal Laboratory and Energy & Environmental Resource Centre of Periyar Maniammai Institute of Science and Technology, Thanjavur on 13.10.2023 (Friday).

I kindly request you to permit us to organize the above visit. I also request you to give the students, the credit of Attendance on 13.10.2023 and Bonafide certificate. Further I request you to treat the absence of staff members on 13.10.2023 as on Other Duty.

Thanking you

Dindigul

10.10.2023

*Handwritten signature in green ink*

yours sincerely,

*Handwritten signature in blue ink*



# G.T.N. ARTS COLLEGE

(Autonomous)

A Telugu Linguistic Minority Institution	Affiliated to Madurai Kamaraj University
Re-Accredited with A++ Grade by NAAC (2<sup>nd</sup> Cycle)	Recognised under DBT STAR COLLEGE SCHEME
An ISO 9001: 2015 Certified Institution	Four-Star Rating by the MoE's Innovation Cell in IIC 4.0
 G.T.N. Nagar, Karur Road, DINDIGUL – 624 005, Tamil Nadu



Website: [www.gtnartscollege.ac.in](http://www.gtnartscollege.ac.in)  
 E-mail: [gtncollege@yahoo.co.in](mailto:gtncollege@yahoo.co.in)  
 Phone: 0451-2431299, 2432199

Secretary: Ln. Dr. K. RETHINAM, MJF

Principal: Dr. P. BALAGURUSAMY, M.A., M.Phil., M.Ed., PGDCA., Ph.D.,

Date: 11.10.2023

## BONAFIDE LIST OF STUDENTS

The following is the Bonafide list of students from Physics Department of our college who are participating in the Field Visit to PMIST, Thanjavur on 13.10.2023.

Sl.No	Register Number	Name of the Student	Sl.No	Register Number	Name of the Student
<b>III- B.Sc., Physics</b>			<b>II -B.Sc., Physics</b>		
1	21UPHR001	BARANI P	29	22UPHR001	ALAGUPRIYA. R
2	21UPHR002	DELICIA JASMINE J	30	22UPHR002	ARCHANA. G
3	21UPHR003	DEVIPRIYA S	31	22UPHR003	HEHITHA. P
4	21UPHR005	DIVYA S	32	22UPHR004	KASTHURI. S
5	21UPHR006	GAYATHRI P	33	22UPHR005	MAHALAKSHMI. R
6	21UPHR007	GOWRI A	34	22UPHR006	PRIYADHARSHINI. K.C
7	21UPHR008	GOWSALYA G	35	22UPHR007	VINOTHINI. V
8	21UPHR010	KODEESWARI S.P	36	22UPHR008	YAAHASRI. P
9	21UPHR012	SARANYA R	37	22UPHR009	AJITHKUMAR. A
10	21UPHR014	SUBAKAVIYA R	38	22UPHR010	ARUN BALAJI. K
11	21UPHR017	SWETHA S	39	22UPHR011	GOPAL. K
12	21UPHR018	ARAVIND S	40	22UPHR013	KATHIRVEL. B
13	21UPHR019	BALAJI R	41	22UPHR014	RAGUPATHI. M
<b>I-B.Sc., Physics</b>					
14	21UPHR021	DINESH KUMAR K	42	23UPHR001	D.AROCKIA BENCIKA
15	21UPHR022	DIVOTA FRANCIS M	43	23UPHR002	K.DURGADEVI
16	21UPHR023	HARIHARAN M	44	23UPHR003	D.KANMANI
17	21UPHR024	HARIHARAN R	45	23UPHR004	N.NANDHINI
18	21UPHR026	MADHAN KUMAR R	46	23UPHR005	N.NIVETHA
19	21UPHR027	PREETHINTHRAN S	47	23UPHR006	M.PONMANI MUTHRA
20	21UPHR028	RAJKUMAR C	48	23UPHR007	P.RESHMA DEVI
21	21UPHR029	RANJITHKUMAR B	49	23UPHR008	A.SANTHIYA
22	21UPHR030	RANJITHKUMAR R	50	23UPHR009	M.SHAMITA
23	21UPHR031	SELVAKUMAR P	51	23UPHR010	M.SORUBARANI
24	21UPHR032	SRIKANTH C	52	23UPHR011	B.V.THIRISHALA
25	21UPHR033	SUBAHARAN M	53	23UPHR012	V.ALLDRIN
26	21UPHR034	SURIYA PRAKASH P	54	23UPHR013	P.BALAMURUGAN
27	21UPHR035	VETRIVEL S			

28	21UPHR036	VIGNESHWARAN K	55	23UPHR016	S.HARISH
			56	23UPHR017	V.MOHANRAJ
<b>STAFF MEMBERS</b>			57	23UPHR018	C.RAJAVEL
1	Dr. S. SARAVANAN		58	23UPHR019	M.VIGNESH
2	Dr.R.JAYARAMAN		59	23UPHR020	S.VIJAY KANNAN
3	Dr.K.RAMAVENKATESWARI		60	23UPHR021	R.YOGESH
4	Dr.K.JAYABALA				
5	Dr.T.RAJESH KUMAR				
6	Dr.P.UMA MAGESHWARI				
7	Dr.T.LOGU				



*[Handwritten Signature]*  
**PRINCIPAL**  
**(Dr. P. BALAGURUSAMY)**  
**PRINCIPAL**  
**G.T.N. ARTS COLLEGE**  
**(AUTONOMOUS)**  
**DINDIGUL - 624 005**

*Yes Permitted and approved*  
*P. Gayathri*  
*Dr. P. Gayathri*  
*HOD / Physics*

**Head,**  
**Department of Physics,**  
**Periyar Maniammai**  
**Institute of Science & Technology,**  
**(PMIST) Periyar Nagar, Vallam**  
**Thanjavur- 613 403, Tamilnadu.**

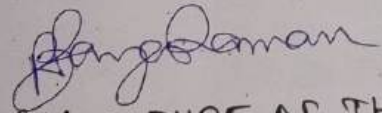
## REPORT

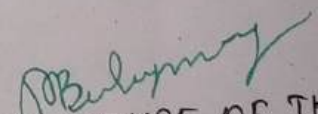
**Date :** 13.10.2023

The field visit to Periyar Maniammai Institute of Science & Technology in Thanjavur aims to explore advanced research facilities and innovative methodologies in biotechnology. The visit is intended to foster academic collaboration, gain insights into cutting-edge research, and identify potential areas for joint projects. Additionally, it seeks to enhance the practical knowledge of participants by observing real-world applications of theoretical concepts in biotechnology.

Students learned about thin film coating techniques, the potential of biomass energy, and the sustainable use of bamboo products. They also explored advanced sewage water treatment processes and observed cutting-edge robotic technology in action.

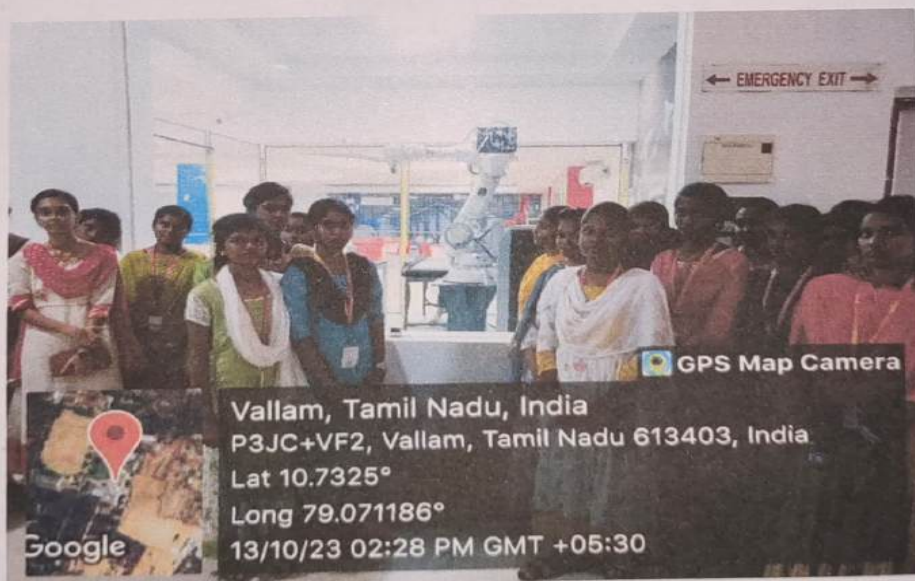
The visit to Periyar Maniammai Institute of Science & Technology and its Physics research lab provided students with invaluable exposure to advanced technologies and practical learning experiences. They gained insight into cutting-edge concepts such as spray pyrolysis coating machines, while witnessing the functioning of solar dryers, waste management systems, and innovative projects like power generation from toilet waste. The visit served as a source of inspiration, motivating students to pursue further studies or careers in science and engineering while fostering a desire to explore interdisciplinary research opportunities for addressing real-world challenges. 61 Students accompanied with 7 teaching and 3 non teaching faculties for this visit.

  
SIGNATURE OF THE  
HEAD OF THE DEPARTMENT

  
SIGNATURE OF THE  
PRINCIPAL



Department of Physics Visited the PMIST , Vallam, Tanjavur



Students visited the Robotics Lab



Students visited the Bio-Gas Plant unit



Students visited the Vermicompost unit



Students visited the Spray Pyrolysis unit



Students visited the Solar Lab



Students visited the Bamboo Garden (carbon free campus)



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Re-accredited by NAAC with 'A++' Grade in the 2<sup>nd</sup> Cycle  
Recognized under DBT STAR COLLEGE SCHEME  
Supported by DST-FIST Program  
Dindigul-624005

**Department of Physics, G.T.N. Arts College, Dindigul  
Organizes**

**FIELD VISIT (LAB VISIT) TO PMIST, VALLAM THANJAVUR**

(As a part of MoU Activity)  
FEEDBACK FORM

- Name: *D. Arockia Bencika*
- Register No: *28UPHR001*
- Department: *Physics*
- Name of the Activity: *Field Visit (Lab Visit)*
- Date: *13.10.2023*
- Place: *Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur*
- How much interest did the visit create?

- Excellent
- Good
- Fair

- How much relevant to the subject did the visit:

- Excellent
- Good
- Fair
- Needs to improve

- Response of the Experts to the questions raised by the students:

- Excellent
- Good
- Fair
- Needs to improve

- Suggestions if any

*This field visit is more helpful to know the Lab components*



**Department of Physics, G.T.N. Arts College, Dindigul  
Organizes**

**FIELD VISIT (LAB VISIT) TO PMIST, VALLAM THANJAVUR**

(As a part of MoU Activity)

FEEDBACK FORM

- Name : *Dr. Archana*
- Register No : *28UPH002*
- Department : **Physics**
- Name of the Activity : **Field Visit (Lab Visit)**
- Date : **13.10.2023**
- Place : **Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur**
- How much interest did the visit create?

Excellent

Good

Fair

- How much relevant to the subject did the visit:

Excellent

Good

Fair

Needs to improve

- Response of the Experts to the questions raised by the students:

Excellent

Good

Fair

Needs to improve

- Suggestions if any

*We know how to handle the equipments.*

**Department of Physics, G.T.N. Arts College, Dindigul  
Organizes**

**FIELD VISIT (LAB VISIT) TO PMIST, VALLAM THANJAVUR**

(As a part of MoU Activity)

FEEDBACK FORM

- Name : R. Mahalakshmi
- Register No : 22UPH005
- Department : Physics
- Name of the Activity : Field Visit (Lab Visit)
- Date : 13.10.2023
- Place : Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur
- How much interest did the visit create?

Excellent

Good

Fair

- How much relevant to the subject did the visit:

Excellent

Good

Fair

Needs to improve

- Response of the Experts to the questions raised by the students:

Excellent

Good

Fair

Needs to improve

- Suggestions if any

We get more knowledge in this visit

**Department of Physics**

Periyar Nagar, Vallam, Thanjavur-613 403, TamilNadu  
India Phone +91 – 4362 264600,  
Fax +91– 4362 64660 E mail: headphy@pmu.edu.  
Web: www.pmu.edu

**Six days Faculty Development Programme on “Characterization Techniques”****Objective of the Programme:**

To enhance faculty members' knowledge and understanding of advanced characterization techniques used in various fields. To develop skills in using and interpreting data from these techniques for research and teaching purposes. To facilitate interaction and collaboration among faculty members from different disciplines.

**Resource Persons and Session Details:**

- Day 1: Dr. K. Srinivasan - Mass Spectrometry
- Day 2: Dr. R. Balaji - UV-Vis NIR Spectroscopy
- Day 3: Dr. K. Ravichandran - Optical and Compositional analysis
- Day 4: Dr. Logu Thirumalaisamy - Surface Morphological Studies
- Day 5: Dr. S. Gopinath - X-Ray Diffraction Technique
- Day 6: Dr. S. Prabhu - Instrumental Interpretation of Supramolecules

**No. of Beneficiaries: 17****Coordinator: Dr. R. Anandhi AP/ Physics**

## Invitation for the Program



**Centre for Human Resource Development  
&  
Department of Physics and Department of  
Chemistry  
Jointly organize**



**Faculty Development Program on  
“Materials Characterization Techniques”**

**Date:** 18.12.2023 to 23.12.2023  
**Venue:** Marie Curie Hall

**Coordinators:** Dr. R. Anandhi AP/Physics  
Dr. M. Viswalingam AP/Chemistry

**Convenors:** Dr. P. Gayathri HoD/Physics  
Dr. S. Sundaranayagi HoD/Chemistry  
Dr. J. Sathya Priya, Director i/c - CHRD

### Program Schedule

<p><b>18.12.2023:</b> <b>Mass Spectrometry: Principles, Techniques and Applications</b> Dr. K. Srinivasan Faculty, NIFTEM, Thanjavur</p> <p><b>19.12.2023:</b> <b>Ultraviolet-Visible-Near Infrared (UV-Vis -NIR) Spectroscopy</b> Dr. R. Balaji Associate Professor of Chemistry Rajah Serfoji Govt College (A) Thanjavur</p> <p><b>20.12.2023:</b> <b>Optical and compositional analysis</b> Dr. K. Ravichandran Associate Professor &amp; Head, Department of Physics, A.V.V.M. Sri Puslipam College (Autonomous), Poondi, Thanjavur</p> <p><b>21.12.2023:</b> <b>Surface Morphological Studies</b> Dr. Logan Thirumalaisamy Assistant Professor of Physics G.T.N. Arts College, Dindigul</p> <p><b>22.12.2023:</b> <b>X-Ray Diffraction Techniques for Phase Identification and Crystal Structure Analysis</b> Dr. S. Gopinath Assistant Professor of Physics Govt Arts College, Tiruvannamalai</p> <p><b>23.12.2023:</b> <b>Instrumental Interpretation of Supramolecules</b> Dr. S. Prabhu Associate Professor Département of Chemistry PSV College of Engineering, Krishnagiri</p>	     
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## Report of the Programme:

This six-day Faculty Development Programme (FDP) aimed to equip participants with advanced knowledge and practical skills in various characterization techniques used in scientific research. The program covered a diverse range of techniques, including Mass Spectrometry, UV-Vis NIR Spectroscopy, Optical and Compositional analysis, Surface Morphological Studies, X-Ray Diffraction Technique, and Instrumental Interpretation of Supramolecules.

Overall, the Faculty Development Programme on “Characterization Techniques” was a valuable learning experience for participating faculty members. The program provided them with the necessary knowledge, skills, and confidence to effectively utilize these techniques in their research and teaching endeavors.

## Event Photos

### Day 1: Dr. K. Srinivasan - Mass Spectrometry



**Day 2: Dr. R. Balaji - UV-Vis NIR Spectroscopy**



**Day 3: Dr. K. Ravichandran - Optical and Compositional analysis**



## Day4:Thirumalaisamy - Surface Morphological Studies



## Day 5: Dr. S. Gopinath - X-Ray Diffraction Technique



## Day 6: Dr. S. Prabhu - Instrumental Interpretation of Supramolecules





## Attendance Sheet

**DEPARTMENT OF PHYSICS**

Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, India  
 Phone: +91-4362-254600 Fax: +91-4362-254600  
 Email: headphy@pmu.edu Web: www.pmu.edu



**PERIYAR  
 MANIAMMAI**  
 INSTITUTE OF SCIENCE & TECHNOLOGY

Faculty Development Program on "Materials Characterization Techniques"  
 Day 1 Title: Mass Spectroscopy Principles, Techniques and its Applications.  
 Date: 18.12.2023

Venue: Marie Curie Hall

S. No.	Name	Designation	Signature
1.	Dr. P. Vijayalakshmi	Dean, FHSM, PMIST	
2.	Dr. K. Srinivasan,	Faculty (Biotechnology), National Institute of Food Technology, Entrepreneurship and Management (NIFTEM) - Thanjavur	<i>K. Srinivasan</i> 18/12/23
3.	Dr. P. Gayathri	HoD / Physics, PMIST.	<i>P. Gayathri</i>
4.	Dr. S. Sundaranayagi	HoD / Chemistry, PMIST.	<i>S. Sundaranayagi</i>
5.	<i>R. JURESH</i>	<i>APCSS / Aerospace</i>	<i>R. Juresh</i>
6.	<i>DR. M. VI SWALINGAN</i>	<i>AP / Chemistry</i>	<i>M. Vi Swalingan</i>
7.	<i>DR. D. KUMAR</i>	<i>Professor / Physics</i>	<i>D. Kumar</i>
8.	<i>DR. T. BHAGYARAJ</i>	<i>AP / physics</i>	<i>T. Bhagyaraj</i>
9.	<i>DR. T. JAYARUBI</i>	<i>AP / physics</i>	<i>T. Jayarubi</i>
10.	<i>DR. R. ANANDHI</i>	<i>AP / physics</i>	<i>R. Anandhi</i>
11.	<i>DR. S. ANANDHI</i>	<i>AP (S&amp;T) &amp; Chemistry</i>	<i>S. Anandhi</i>
12.			
13.			
14.			
15.	<i>B. MOHANAVEL</i>	<i>RESEARCH SCHOLAR</i>	<i>B. Mohanavel</i>
16.	<i>Sakthi Tharigan S</i>	<i>MSC CHEMISTRY I- year</i>	<i>Sakthi Tharigan S</i>
17.	<i>Prayadharshan M</i>	<i>Research scholar chem</i>	<i>Prayadharshan M</i>
18.	<i>M. K. D. B. K. S.</i>	<i>Research scholar (Chem)</i>	<i>M. K. D. B. K. S.</i>
19.	<i>A. AKALVA</i>	<i>Research scholar (chem)</i>	<i>A. Akalva</i>

DEPARTMENT OF PHYSICS

Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, India  
 Phone: +91 - 4362 - 264600 Fax: +91 - 4362 - 264650  
 Email: headphy@pmu.edu Web: www.pmu.edu



PERIYAR  
 MANIAMMAI  
 UNIVERSITY

Faculty Development Program on "Materials Characterization Techniques"

Day 2: Title : UV-Vis NIR Spectroscopy

S. No.	Name	Designation	Signature
1.	Dr.R.Balaji	Associate Professor of Chemistry Rajah Serfoji Govt College (A) Thanjavur -05	
2.	Dr. P. Gayathri	HoD / Physics, PMIST.	
3.	Dr. S. Sundaranayagi	HoD / Chemistry, PMIST.	
4.	Dr. S. Gomathi	AP (SA) / Chemistry	
5.	Dr. M. Harikumar	AP (SA) / Physics	
6.	Dr. M. Viswalingam	AP / Chemistry	
7.	Dr. G. Manivannan	AP / Chemistry	
8.	Dr. K. Swajathi	AP / PHYSICS	
9.	Dr. A. Subhasri	AP / Chemistry	
10.	Dr. T. Bhagyanagar	AP / Physics	
11.	Mr. B. Mohanavel	Research Scholar	
12.	Dr. K. Kesava	AP (SA) / Physics	
13.	Mr. R. Suresh	AP (SS) / Aerospace	
14.	Dr. R. Pradeepkaran	AP / Chemistry	
15.	Dr. R. Anandhi	AP / Phys	
16.	Dr. R. N. Panjani	AP / Chemistry	
17.	Dr. H. Mohana	AP / Chemistry	
18.			
19.			
20.			
21.			

Coordinator

Convener

**DEPARTMENT OF PHYSICS**

Periyar Nagar, Vaitam, Thanjavur - 613 403, Tamil Nadu, India  
 Phone: +91 - 4362 - 264800 Fax: +91- 4362 - 264860  
 Email: headphy@pnu.edu Web: www.pnu.edu



**PERIYAR  
 MANIAMMAI**  
 UNIVERSITY  
 VAITAM, THANJAVUR

**Faculty Development Program on "Materials Characterization Techniques"**

**Day 3: Tittle : Optical and compositional analysis**

**Date: 20.12.2023.**

S. No.	Name	Designation	Signature
1.	Dr. K. Ravichandran	Associate Professor & Head, Department of Physics, A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur	 20/12/23
2.	Dr. P. Gayathri	HoD / Physics, PMIST.	
3.	Dr. S. Sundaranayagi	HoD / Chemistry, PMIST.	
4.	R. BURESH	APLSS / Aerospace	
5.	Dr. S. Gomathi	AP(CA) / Chemistry	
6.	Dr. G. Manuvaran	AP / Chemistry	
7.	Dr. R. Radhika	AP / Chemistry	
8.	Dr. R. Anandhi	AP / Physics	
9.	Dr. M. Visalakshi	AP / Chemistry	
10.	Dr. A. Subhasini	AP / "	
11.	Dr. M. Mohana	AP / Chemistry	
12.	Dr. M. Anandharaman	AP / Chemistry	
13.	Dr. R. Prabhakar	AP / Chemistry	
14.	Dr. K. Kesavan	AP / Physics	
15.	Dr. T. Bhargava	AP / Physics	
16.	Dr. N. Sivakumari	AP / Physics	
17.			
18.			
19.			
20.			
21.			

Coordinator

Convener

**DEPARTMENT OF PHYSICS**

Periyar Nagar, Valiam Thanjavar - 613 403, Tamil Nadu, India  
 Phone: +91 - 4362 - 264600 Fax: +91 - 4362 - 264660  
 Email: headphy@pmu.edu Web: www.pmu.edu



**PERIYAR  
 MANIAMMAI**  
 UNIVERSITY  
 PERIYAR NAGAR, VALIAM THANJAVUR  
 DISTRICT, TAMIL NADU, INDIA

**Faculty Development Program on "Materials Characterization Techniques"**

**Day 4: Title: Surface Morphological Studies**

**Date: 21.12.2023.**

S. No.	Name	Designation	Signature
1.	Dr. Logu Thirumalaisamy	Assistant Professor Department of Physics G.T.N. Arts College Dindigul, Tamilnadu, India	
2.	Dr. P. Gayathri	HoD / Physics, PMIST.	
3.	Dr. S. Sundaranayagi	HoD / Chemistry, PMIST.	
4.	Dr. K. KESAVAN	AP/CS&D Physics	
5.	Dr. M. VISWAHINNAM	AP / Chemistry	
6.	Dr. G. Manivannan	AP / Chemistry	
7.	R. SURESH	AP/CS&D / Aerospace	
8.	Dr. R. N. Tamani	AP / Chemistry	
9.	Dr. J. JAYARAJ	AP / physics	
10.			
11.			
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20.			
21.			

Coordinator

Convener

**DEPARTMENT OF PHYSICS**

Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, India  
 Phone: +91 - 4382 - 264600 Fax: +91-4382 - 264660  
 Email: headphy@pnu.edu Web: www.pnu.edu



**PERIYAR  
 MANIAMMAI**  
 INSTITUTE OF SCIENCE & TECHNOLOGY

**Faculty Development Program on "Materials Characterization Techniques"**

Day 5: Title: X-ray Diffraction Technique

Date: 22.12.2023.

S. No.	Name	Designation	Signature
1.	Dr. S. Gopinath,	Assistant Professor, Department of Physics, Govt Arts College, Tiruvannamalai.	<i>[Signature]</i>
2.	Dr. P. Gayathri	HoD / Physics, PMIST.	<i>[Signature]</i>
3.	Dr. S. Sundaranayagi	HoD / Chemistry, PMIST.	<i>[Signature]</i>
4.	Dr. K. Kesavam	AP (CSG)	<i>[Signature]</i>
5.	Dr. R. Anandhi	AP (Phy)	<i>[Signature]</i>
6.	Dr. T. Bhagyaraj	AP / Phy	<i>[Signature]</i>
7.	Dr. N. Suresh Kumar	AP / PHYSICS	<i>[Signature]</i>
8.	Dr. M. V. Swaligan	AP (Chemistry)	<i>[Signature]</i>
9.	Dr. A. Subhakar	AP /	<i>[Signature]</i>
10.	Dr. R. N. Tamani	AP Chemistry	<i>[Signature]</i>
11.	Dr. M. Karthikeyan	AP Chemistry	<i>[Signature]</i>
12.	Dr. R. Prabakaran	AP Chemistry	<i>[Signature]</i>
13.			
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20.			
21.			

*[Signature]*  
 Coordinator

*[Signature]*  
 Convener

**DEPARTMENT OF PHYSICS**

Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, India  
 Phone: +91 - 4362 - 264800 Fax: +91- 4362 - 264660  
 Email: headphy@pmu.edu Web: www.pmu.edu



**PERIYAR  
 MANIAMMAI**  
 INSTITUTE OF SCIENCE & TECHNOLOGY  
 PERIYAR NAGAR, VALLAM, THANJAVUR - 613 403, TAMIL NADU, INDIA

**Faculty Development Program on "Materials Characterization Techniques"**

**Day 6: Title: Instrumental Interpretation of Supramolecules**

S. No.	Name	Designation	Signature
1.	Dr.S. Prabhu,	Associate Professor, Département of Chemistry PSV College of Engineering, Krishnagiri	S. Prabhu 23/12/23
2.	Dr. P. Gayathri	HoD / Physics, PMIST.	
3.	Dr. S. Sundaranayagi	HoD / Chemistry, PMIST.	
4.	Dr. G. Manivannan	AP/chemistry.	G. Manivannan
5.	Dr. K. Kesavan	AP (SG) physics	K. Kesavan
6.	Dr. V. D. KUMAR	Professor, physics	V. D. KUMAR
7.	Dr. R. N. Tamani	AP in Chemistry	R. N. Tamani
8.	Dr. A. Subhasini	AP in Chemistry	A. Subhasini
9.	Dr. N. Mohana	AP Chemistry	N. Mohana
10.	Dr. N. Sivaliyathi	AP/PHYSICS	N. Sivaliyathi
11.	Dr. R. PRABAKARAN	AP (CHEMISTRY)	R. Prabakaran
12.	Dr. T. Bhagharaj	AP/physics	T. Bhagharaj
13.	Dr. R. Anandhi	AP/physics	R. Anandhi
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			

*[Signature]*  
 Coordinator

*[Signature]*  
 Convener



## G.T.N. ARTS COLLEGE (Autonomous)



*A Telugu Linguistic Minority Institution | Affiliated to Madurai Kamaraj University  
Re-accredited by NAAC with 'A++' Grade in the 2<sup>nd</sup> Cycle  
Recognized under DBT STAR COLLEGE SCHEME  
Supported by DST-FIST Program  
Dindigul-624005*

### Department of Physics Workshop on "Hands on training on experiments in optics" (As a part of MoU Activity) **INVITATION**



#### Resource Person

**Dr. J. Jayarubi**  
Assistant Professor  
Department of Physics  
Periyar Maniammai Institute of Science and  
Technology (Deemed to be University)  
Vallam, Thanjavur.

Date: 18.07.2024 (Thursday)

Time: 11.00am Venue: MB 16

**All are cordially invited**

**HoD**

**Dr.K.Ramavenkateswari**

**Principal**

**Dr.S.Saravanan**



① तमिलनाडु TAMIL NADU  
23-03-2023 Periyar maniammai  
Institute of science  
and technology.  
Vallam

28.2/2023  
22AC 426297  
Aravindhaasavi  
ஆ. கவிதாதிதகரி  
முத்துலட்சுமி விநியோகம்  
காரைக்குடி தலைமை.  
வாலம், தமிழ்நாடு.  
உரிமம் எண் - 1/2012

MEMORANDUM OF UNDERSTANDING

BETWEEN


PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY, THANJAVUR

AND

ARMADA INDUSTRIAL AUTOMATION, THANJAVUR

This Agreement made and entered into on this day of 2023 between Periyar Maniammai Institute of Science & Technology, Thanjavur (hereinafter called PMIST) and Armada Industrial Automation, Thanjavur (hereinafter called AIA) which expression shall include its successors and permitted assignees) with its registered office.

The aforesaid institutions are hereinafter referred to individually as Party and collectively as Parties.

  
REGISTRAR,  
Periyar Maniammai Institute of  
Science & Technology (PMIST),  
(Deemed to be University),  
Periyar Nagar, Vallam,  
Thanjavur - 613 403, Tamilnadu.

MoU signed between PMIST and Armada Industrial Automation-

Page1



## 1. OBJECTIVES OF THE MOU

The objective of this Memorandum of Understanding is,

- i. Execution of Research & Development work on Electric Vehicle Technology.
- ii. Supporting projects undertaken from the Department of Science and Technology (DST) Atal Innovation Mission / NitiAyog and other special projects in the field of Electric Vehicle Technology, Automation & Connected devices - IOT.
- iii. Willing and committed to undertake production of device after design, development and Committed to contribution of work for the funded project.
- iv. Assisting students in converting products ideas into a real time products, final year projects, In-plant training, Internship & mini projects.
- v. Manufacturing of special purpose Electric Vehicle machines, charging stations and low speed vehicles
- vi. Establishing Electric Vehicle Laboratory.
- vii. AIA may showcase its activities at the seminars/workshops/conferences, etc. at PMIST

## 2. VALIDITY

- i. This MOU shall be effective from the date of its approval by competent authorities at both ends.
- ii. The duration of the MOU shall be for a period of 5 years from the effective date.

## 3. CO-ORDINATION OF THE PROGRAMME INCLUDING FINANCIAL ARRANGEMENTS

- a) The collaborative programme between PMIST shall be coordinated by a coordination committee appointed by Directors of both the Institutes.
- b) Financial arrangements for each specific collaboration will be decided on a case-to-case basis and brought on record in each case after due approval from heads of both the Institutions.

## 4. INTELLECTUAL PROPERTY RIGHTS (IPR)

Rights regarding publications, patents, royalty, ownership of software/design/product developed etc. under the scope of this MOU, shall be decided by the two parties by mutual consent.

## 5. CONFIDENTIALITY

During the tenure of the MOU both PMIST & AIA will maintain strict confidentiality and prevent disclosure of all the information and data exchanged under the scope of this MOU for any purpose other than in accordance with this MOU.

  
**REGISTRAR,**  
Periyar Maniammai Institute of  
Science & Technology (PMIST),  
(Deemed to be University),  
Periyar Nagar, Vellam,  
Thanjavur - 613 403, Tamilnadu.

Both PMIST and AIA shall bind their respective personnel who come into possession or knowledge of any confidential information not to disclose the same to third parties without written approval of the disclosing party or use such confidential information for any use other than intended under this agreement or PROJECTS.

Further both PMIST and AIA shall put in place adequate and reasonable measures to keep and store confidential information secure so as to prevent any unauthorized use.

6. AMENDMENTS/ MODIFICATIONS

Any amendment and/or addenda to the AGREEMENT shall be in writing and signed by the PARTIES hereto and shall only after such execution be deemed to form part of the AGREEMENT and have the effect of modifying the AGREEMENT to the extent required by such amendment or addenda.

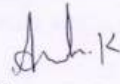

After this Agreement has been signed, all preceding understandings / negotiations and correspondence pertaining to it shall become null and void.

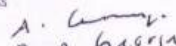
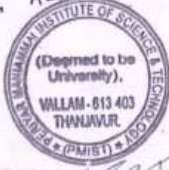

PMIST and AIA welcome the establishment of this MOU of cooperation and jointly agree to the provisions as set out above.


For and on behalf of the PMIST

For and on behalf of the AIA

  
Signature:   
Name: Dr. P.K. SRIVIDHYA  
Designation: REGISTRAR  
Date: 28.03.2023

  
Signature:   
Name: Arivtha Ganeshk  
Designation: Director  
Date: 28/03/2023

Witness  
1.   
Dr. A. Gnanavel  
Dean Academic  
  
2.   
Dr. S-SENTHAMIL KUMAL  
Dean FET

Witness  
1. 

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Periyar Nagar, Vallam Thanjavur - 613 403, Tamil Nadu, India  
Phone: +91 - 4362 - 264600 Fax: +91- 4362 - 264660  
Email: headeee@pmu.edu Web: www. pmu.edu



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MANIAMMAI**  
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### Internship/Inplant Training Details – Academic Year - 2022-2026

#### II YEAR EEE–ACADEMIC YEAR 2021 - 2025

S. No.	Programme Name	Programme Code	Reg. No.	Student Name	Internship host organization
1.	EEE	14	121012014469	KATHIRAVAN R	ARMADA Industrial Automation
			121012014471	MOHAMED RAZITH M	ARMADA Industrial Automation
			122012064448	AKASH M	ARMADA Industrial Automation
			122012064450	DEVARASAN G	ARMADA Industrial Automation
			122012064452	HASSAN KHAN S	ARMADA Industrial Automation
			122012064453	MANISH KIRUTHICK ROSHAN B	ARMADA Industrial Automation
			122012064455	MUGUNDAN A D	ARMADA Industrial Automation
			122012064456	NAFIS KHAN A	ARMADA Industrial Automation
			122012064460	SRI HARISHKUMAR S	ARMADA Industrial Automation
			122012064461	SUDHAN D	CRI Pumps
122012064462	VETRIVEL V	ARMADA Industrial			

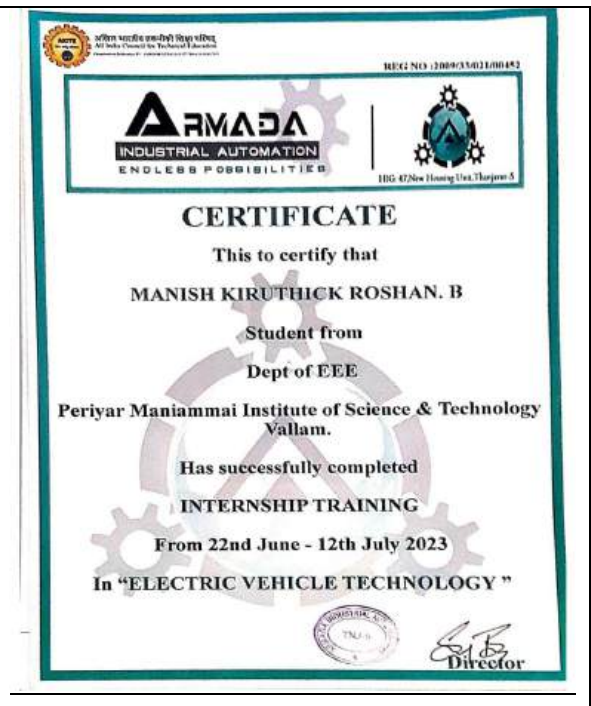
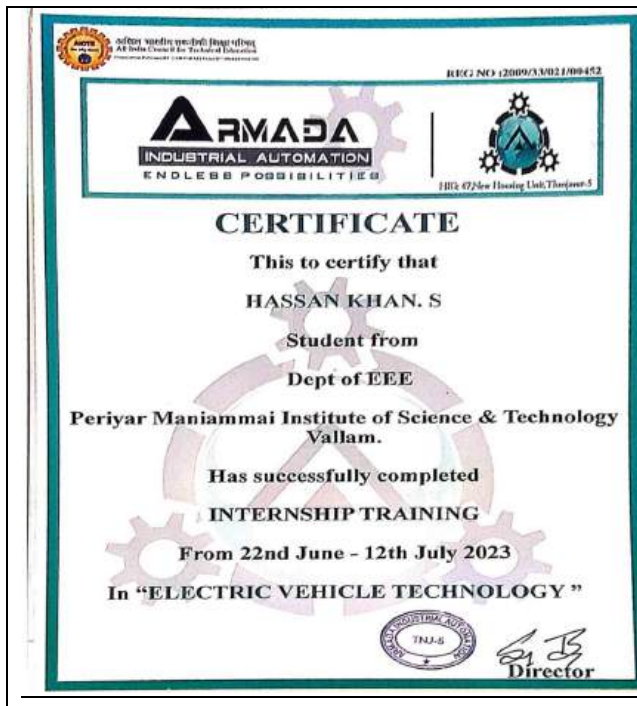
				Automation
		122012064463	VISHNUPRIYAN K	Kothari Sugars and Chemicals Ltd
		122012064464	MONISHAN A	ARMADA Industrial Automation


### III YEAR EEE-ACADEMIC YEAR 2020 - 2024

S. No	Programme Name	Programme Code	Reg. No.	Student Name	Internship host organization
2.	EEE	14	121012064437	THANVEER AHAMED M	ARMADA Industrial Automation
			121012064438	THIRUMALAI K	ARMADA Industrial Automation

### II YEAR EEE-ACADEMIC YEAR 2021 – 2025 – Certificates Proof






 ARMADA  
 INDUSTRIAL AUTOMATION  
 ENDLESS POSSIBILITIES


 PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY  
 VALLAM

REG NO : 2009/33/021/00452

REG: 47 New Housing Unit, Thanjavur-5

**CERTIFICATE**

This to certify that

**MUGUNDAN. A D**

Student from

**Dept of EEE**


Periyar Maniammai Institute of Science & Technology  
Vallam.


Has successfully completed


**INTERNSHIP TRAINING**

From 22nd June - 12th July 2023

In "ELECTRIC VEHICLE TECHNOLOGY "


  
 Director


 ARMADA  
 INDUSTRIAL AUTOMATION  
 ENDLESS POSSIBILITIES


 PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY  
 VALLAM

REG NO : 2009/33/021/00452

REG: 47 New Housing Unit, Thanjavur-5

**CERTIFICATE**

This to certify that

**NAFIS KHAN. A**

Student from

**Dept of EEE**


Periyar Maniammai Institute of Science & Technology  
Vallam.

Has successfully completed

**INTERNSHIP TRAINING**

From 12th June - 05th July 2023

In "ELECTRIC VEHICLE TECHNOLOGY "


  
 Director


 ARMADA  
 INDUSTRIAL AUTOMATION  
 ENDLESS POSSIBILITIES


 PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY  
 VALLAM

REG NO : 2009/33/021/00452

REG: 47 New Housing Unit, Thanjavur-5

**CERTIFICATE**

This to certify that

**SRI HARISH KUMAR. S**

Student from

**Dept of EEE**

Periyar Maniammai Institute of Science & Technology  
Vallam.

Has successfully completed

**INTERNSHIP TRAINING**

From 03rd July - 23th July 2023

In "ELECTRIC VEHICLE TECHNOLOGY "


  
 Director


 ARMADA  
 INDUSTRIAL AUTOMATION  
 ENDLESS POSSIBILITIES


 PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY  
 VALLAM

REG NO : 2009/33/021/00452

REG: 47 New Housing Unit, Thanjavur-5

**CERTIFICATE**

This to certify that

**YETRIVEL. V**

Student from

**Dept of EEE**

Periyar Maniammai Institute of Science & Technology  
Vallam.

Has successfully completed

**INTERNSHIP TRAINING**

From 22nd June - 12th July 2023

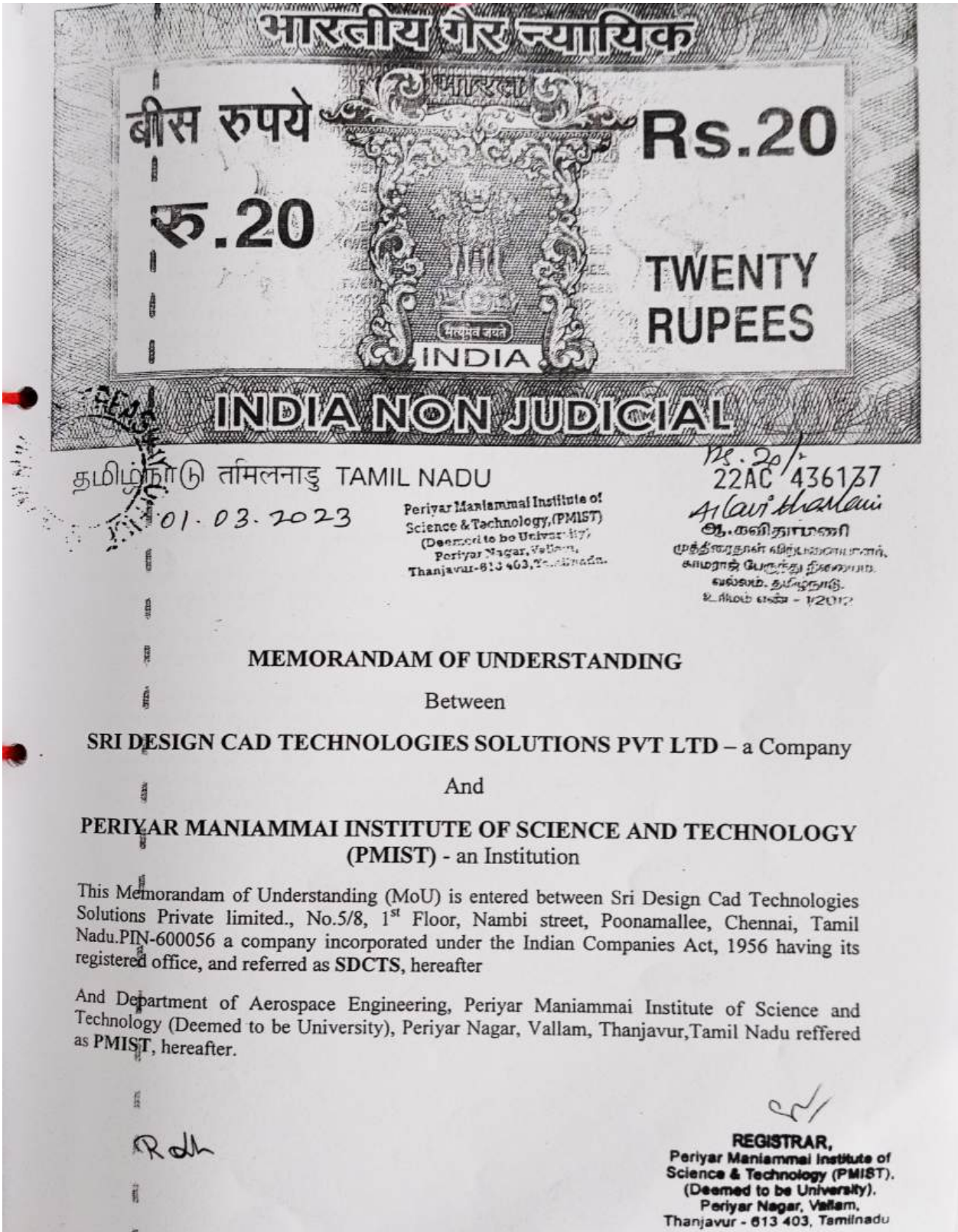
In "ELECTRIC VEHICLE TECHNOLOGY "


  
 Director



**III YEAR EEE-ACADEMIC YEAR 2020 – 2024 – Certificates Proof**





தமிழ்நாடு தமில்நாடு TAMIL NADU

01.03.2023

Periyar Maniammai Institute of Science & Technology, (PMIST) (Deemed to be University) Periyar Nagar, Vallam, Thanjavur-613 403, Tamilnadu.

Ms. 20/ 22AC 436137

A. Lavitharanani

ஆ.கனிதாமணி முத்திரைகளுள் கீழ்க்கண்டவர்கள், காமராசு பல்கலைக் கழகம், வல்லம், தஞ்சாவூர், 613403 - 12012

MEMORANDAM OF UNDERSTANDING

Between

SRI DESIGN CAD TECHNOLOGIES SOLUTIONS PVT LTD – a Company

And

PERIYAR MANIAMMAI INSTITUTE OF SCIENCE AND TECHNOLOGY (PMIST) - an Institution

This Memorandum of Understanding (MoU) is entered between Sri Design Cad Technologies Solutions Private limited., No.5/8, 1<sup>st</sup> Floor, Nambi street, Poonamallee, Chennai, Tamil Nadu. PIN-600056 a company incorporated under the Indian Companies Act, 1956 having its registered office, and referred as SDCTS, hereafter

And Department of Aerospace Engineering, Periyar Maniammai Institute of Science and Technology (Deemed to be University), Periyar Nagar, Vallam, Thanjavur, Tamil Nadu referred as PMIST, hereafter.

Rdh

REGISTRAR, Periyar Maniammai Institute of Science & Technology (PMIST). (Deemed to be University). Periyar Nagar, Vallam, Thanjavur - 613 403, Tamilnadu

MoU signed between PMIST and Sri Design CAD Technologies, Chennai- Page1



Both the Parties have decided to agree to establish industry-academic collaboration in areas of mutual interest and in accordance with terms and conditions set forth in this Memorandum of Understanding (MoU), and agree to conduct the following activities:

1. SDCTS will provide training for Computer Aided Design (CAD), Computer Aided Engineering (CAE), Computational Fluid Dynamics (CFD), at PMIST which would be relevant for Students of Department of Aerospace Engineering.
2. PMIST will provide Computers with its accessories and other infrastructure to conduct the classes for the students.
3. SDCTS will provide technical support to PMIST in Research and Development projects/ works related to CAE, CAD and CFD during the tenure of this MoU.
4. SDCTS will also share the industry based projects related to design and analysis with PMIST on consultancy basis.
5. SDCTS will offer summer internship to interested students of PMIST at its offices/ project -locations get practical exposure and learning from interaction with members so that the students get hands on experience of real time projects.
6. SDCTS shall assist in Placement assistance for the students who underwent the courses offered.
7. The course certificate should be authorized and signed by both the parties.
8. The Students attendance sheet, System User name and Password shall be provided by the respective department of PMIST.
9. Each Party shall appoint one nodal officer to periodically review and identify ways to strengthen cooperation between them.
10. PMIST shall provide accommodation for resource(s) person at their premises during the conduction of courses or any other activities.
11. There is no financial commitment on both the parties to take up any program/ activities mentioned in the scope of the MoU/co-operation mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

R dh

  
REGISTRAR,  
Periyar Maniammai Institute of  
Science & Technology

Nodal Officer Name	R.SURESH	I. KARTHIC SUBRAMANIYAN
Designation	Managing Director	Head of the Department
Organization Name	Sri Design Cad Technologies Solutions Pvt. Ltd.,	Department of Aerospace Engineering PMIST

This agreement will take effect from the date of its signing and shall be valid for three years from that date and may be continued thereafter after suitable review and agreement. Either party may terminate the agreement at any time by giving three months' written notice to the other party.

*R dh*

**Mr.R.Suresh,**  
**Managing Director**  
 Sri Design Cad Technologies  
 Solutions Pvt. Ltd.,  
 Chennai, Tamil Nadu.

Date:01-03-2023

WITNESS

1. *[Signature]*

[B. BHARATHPRABHU]  
 [Co. VIMANNA LABS]

2. *[Signature]*  
 [NAWAZ BASHA. N]  
 Operational Manager  
 [VIMANNA LABS]

*[Signature]*

**Dr.P.K.Srividhya,**  
**Registrar**  
 Periyar Maniammai Institute of  
 Science and Technology,  
 Thanjavur, Tamil Nadu.

Date:01-03-2023

WITNESS

1. *[Signature]*  
 (Dr. A. George)  
 Dean Academics

2. *[Signature]*  
 01/03/23  
 Dr. S. SENTHAMILMUN  
 Dean - FET.



MoU signed between PMIST and Sri Design CAD Technologies,  
 Chennai- Page3



**PERIYAR  
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PROGRAMME REPORT ON

## **Value Added course-Design Softwares- 2D & 3D Modelling**

Resource Person

**Mr.R.Suresh, MD,SDCTS,CHennai**

Organized by

**AERO- PMIST**

**Periyar Maniammai Institute of Science and Technology (PMIST)**

**Department of Aerospace Engineering**

**Value Added Course**

**On**

**<Design Softwares – 2D & 3D Modelling=**

**Date: 28.08.2023 to 02.09.2023**

**Venue: TBI 333**

**Timing: 9.00 AM TO 4.30 PM**

**Coordinated by,  
Mr.R.K.Muthuraman,  
AP(SS)/Aerospace  
Engineering,**

## **Table of Contents**

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### **Objective of the program**

- ☐ To explain about the design software used in aviation and aerospace sector
  
- ☐ To make them aware about the application of those software's
  
- ☐ To make the participants, to design and develop the models of their own

## Brochure



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Deemed to be University  
Established under the U.P. Act No. 1986 - An Act to provide for the establishment of Periyar Maniammai Institute of Science and Technology, Karaikal  
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**Department of  
Aerospace  
Engineering**

**Value Added  
Course**

**DESIGN SOFTWARE'S -  
2D & 3D MODELLING**

**28.08.2023 to 02.09.2023**  
**9.00 AM TO 4.00 PM**

**Coordinator**  
**R.K.MUTHURAMAN,**  
AP(SS)/ Aerospace Engg.,  
PMIST



## TOPICS COVERED

- Ø Introducing AutoCAD- Draw tools, Object Snap and Dynamic Input
- Ø The Modify tools, Zoom, Pan and templates, Hatching
- Ø Dimensions and Text
- Ø Orthographic and isometric
- Ø Blocks and Inserts
- Ø Other types of file format
- Ø Attributes
- Ø ADC , Tool Pallets & Plot
- Ø Introducing 3D modeling
- Ø The modification of 3D models
- Ø Introducing CATIA, Options, GUI, Sketch level-1
- Ø Sketch level-2, Part Design Workbench
- Ø Sketch Based Features level-1, Dress up Features
- Ø Transformation Features
- Ø Booleans Operations
- Ø Assembly Design Workbench level-1
- Ø Drawing level-1
- Ø Surface level-1
- Ø DMU Kinematics & Sheet metal
- Ø Project Discussions
- Ø Practice Sessions

**Programme Schedule**

Date: 28.08.2023

**Venue:** TBI 333 **Time:** 9.30 A.M

**Welcome Address:** Mr.I.Karthic Subramaniyan, Head/Aerospace

**Presidential Address:** Dr.R.Kathiravan,Dean(FET)

**Guest Address:** MR.r.Suresh, MD, SDCTS, Chennai

**Vote of Thanks:** Mr.R.K.Muthuraman, Event Coordinator



**(R.K.MUTHURAMAN)**



**(I.KARTHIC SUBRAMANIYAN)**



**Participants list**

S.N	Reg.No	Name
1	121012016251	DEEKSHAD K
2	121011016252	DEEPA K
3	121011016254	DHIVYA SRI E
4	121012016255	HARIRAJAN A
5	121012016257	MOHAMMED FAHIM F
6	121011016260	PRAVEENA V G
7	121011016261	PRIYANKA S
8	121012016262	SAKTHIVEL S
9	121012016263	SANTHOSH K
10	121012016265	SARATHY P
11	121011016266	SHALINI K
12	121011016267	SNEHA RAMESH
13	121011016268	VIJAYA HEMALA P
14	122012066020	THIRUKKUMARAN V M
15	121011016248	ABINAYA R
16	121012016249	ADRIAN FERDINAND A C
17	121012016250	ATHIS MITHUN E
18	121012016253	DHANUSH S
19	121011016256	LAYOLA BOBBY WILLIAM M
20	121011016258	MONIKAA M
21	121012016259	PIRANAVAN R
22	121011016264	SARANYAA S
23	121011016269	YUVASHREE P
24	122012066018	HARI HARA PRIYAN K
25	122012016266	AKASH P
26	122011016273	DHARSINI P
27	122012016274	GURU KARTHIKEYAN S
28	122012016275	JAYA SURYA A
29	122011016280	MUTTHAMIZL SELVI M
30	122011016282	NIVETHA S
31	122012016285	SALMAN FARIS S
32	122012016286	SANJAY KUMAR P
33	122012016290	AKSHAY A
34	122011016292	GRACY SWEETY L
35	123012066021	VISHNU S
36	122012016267	AKILAN B
37	122011016268	ANANTHARUBINI M
38	122012016270	CHANDRAKANTH G
39	122011016271	DEVA VAISHNAVI T R S
40	122012016272	DEVANATHAN P

41	122012016276	KUMARAN T
42	122012016277	MOHAMED ANSAR R
43	122012016278	MONISH RAJ G
44	122012016281	NAVEENRAJ P
45	122011016288	THAJUL HUDHA S
46	122011016291	RAJALAKSHMI S
47	122012016293	KHAN ARTAFA MUSTAFA ABDUL MALIK
48	122011016287	SHARMILA K
49	122012016290	AKSHAY A
50	122011016292	GRACY SWEETY L
51	123012066021	VISHNU S

**Total Female Participants:21**

**Total Male Participants: 30**



**(R.K.MUTHURAMAN)**



**(I.KARTHIC SUBRAMANIYAN)**

**Geotagged Photos**



**Image.1 Value Added Course Delivered by Resource Person- Geo tagged Photo 1**



**Image.2 Value Added Course - Geo tagged photo 2**

## Program Feedback

Email Address	Name of the student	Register Number	Rate your opinion about the Topic of the course?	Rate your opinion about the course content?	Rate your opinion about the deliverables of the course?	Rate your opinion about the instructor's content delivery?	Is the instructor(s) clarified your doubts then and there?	Overall rating of the course?
akilanaki10501@gmail.com	Akilan B	122012016267	5	4	4	1	Yes	1
artafakhanfc47@gmail.com	Khan Artafa	122012016293	4	4	3	3	Yes	3
sharmikumaraero@gmail.com	K.Sharmila	122011016287	5	5	5	5	Yes	5
gracysweety101@gmail.com	L. Gracy Sweety	122011016292	3	4	4	4	Maybe	4
alagarasansurya@gmail.com	JAYA SURYA.A	122012016275	4	4	4	4	Maybe	4
121012016253@pmu.edu	S.Dhanush	121012016253	5	4	5	5	Yes	4
chandrukutty101@gmail.com	G.chandranth	122012016270	3	3	2	2	Yes	3
hudhasathik144@gmail.com	S.THAJUL HUDHA	122011016288	4	4	5	5	Yes	4
121012016259@pmu.edu	Pirnavan R	121012016259	5	5	4	5	Yes	5
121011016254@pmu.edu	Dhivya sri. E	121011016254	5	5	4	3	Yes	4
salmansalman070703@gmail.com	Salman Faris	122012016285	4	4	3	3	Maybe	4
selvithangappa153@gmail.com	MUTTHA MIZL SELVI M	122011016280	5	5	3	4	Yes	5
devavaishnavi2905@gmail.com	DEVA VAISHNAVI TRS	122011016271	5	5	4	4	Yes	4
kdeepa1713@gmail.com	Deepa	121011016252	4	3	4	4	Yes	4
devanathanp724@gmail.com	Devanathan.p	122012016272	2	3	2	1	Maybe	2
monikaa342004@gmail.com	MONIKAA M	121011016258	5	5	4	4	Yes	5
121011016266@pmu.edu	K.Shalini	121011016266	2	2	2	2	Yes	2

121012016249@pmu.edu	A.C.Adrian Ferdinand	121012016249	4	3	3	4	Yes	4
nganesan173@gmail.com	Monish raj .G	122012016278	1	1	1	1	No	1
harikrishna7598@gmail.com	Hari bara priyan	122012066018	4	4	4	4	Yes	4
v6179136@gmail.com	Vishnu s	123012066021	3	5	3	5	Maybe	3
akashak8909@gmail.com	Akash	122012016266	1	1	1	1	No	1
naveenraj444@gmail.com	NAVEENRAJ.P	122012016281	2	2	2	2	Maybe	2
vennilaperumal1980@gmail.com	Sarathy P	121012016265	3	3	3	4	Maybe	4
dharsinipremkumar@gmail.com	P. Dharsini	122011016273	5	5	5	4	Yes	5
121011016248@pmu.edu	Abinaya R	121011016248	5	5	5	5	Yes	4
121011016261@pmu.edu	S. Priyanka	121011016261	4	5	4	4	No	5
mukildas357@gmail.com	Mukildas	122012016279	2	1	2	1	Maybe	5
rajalakshmisenthil0606@gmail.com	S.Rajalakshmi	122011016291	4	3	4	4	Yes	4
kumarant315@gmail.com	KUMARAN	122012016276	5	5	5	5	Yes	5
121012016263@pmu.edu	Santhosh	121012016263	4	4	4	5	Yes	3
121012016250@pmu.edu	E. Athis Mithun	121012016250	5	5	5	5	Yes	5
121012016262@pmu.edu	Sakthivel. S	121012016262	3	4	3	4	Yes	4
121012016255@pmu.edu	Harirajan.A	121012016255	2	2	2	2	Yes	2

*ng*

*L. Kumar*

Certificate Copy



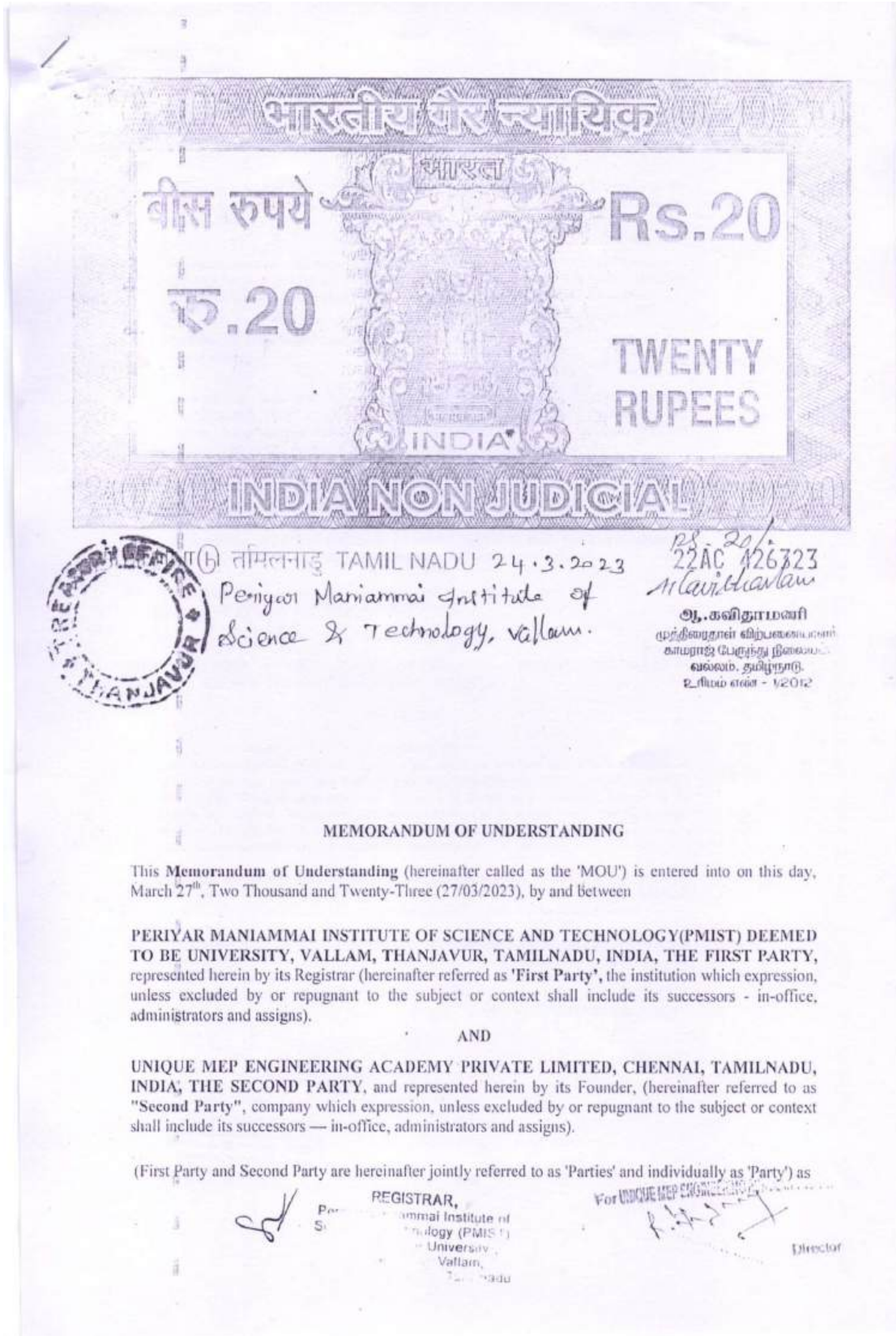
**PERIYAR  
MANIAMMAI**  
UNIVERSITY  
POSTGRADUATE SCHOOL

**CERTIFICATE OF PARTICIPATION**

This is to certify that,  
**Mr./Ms. AKILAN B**  
of \_\_\_II\_\_\_ Year, Department of Aerospace Engineering has attended  
Value Added Course on "*Design Softwares- 2D & 3D Modelling*" from 28.8.2023 to  
**02.09.2023.**

  
\_\_\_\_\_  
**R.K.Muthuraman**  
**COURSE COORDINATOR**

  
\_\_\_\_\_  
**I.Karthic Subramaniyan**  
**HEAD/AEROSPACE**



**MoU signed between PMIST and Unique MEP Engineering Academy Private Limited, Chennai- Page1**

WHEREAS:

- A) First Party is a Higher Educational Institution named:  
**(1) PERIYAR MANIAMMAI INSTITUTE OF SCIENCE AND TECHNOLOGY (PMIST) DEEMED TO BE UNIVERSITY, VALLAM, THANJAVUR, TAMILNADU, INDIA.**
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Exchange of Expertise, shaping Curriculum / Pedagogy Planning & Review, Projects, Internships, Hackathon and similar activities to improve Quality of Education and Industry – Institute Interaction.
- D) Both Parties, being legal entities in themselves desire to sign this MoU for advancing their mutual interests.
- E) **(2) UNIQUE MEP ENGINEERING ACADEMY PRIVATE LIMITED, CHENNAI, TAMILNADU, INDIA,** the Second Party is engaged in Business, Skill Development, and Outcome based trainings, Internships, Placement, training, Research and Development related services in the fields of Engineering and Technology.
- F) **UNIQUE MEP ENGINEERING ACADEMY PRIVATE LIMITED, CHENNAI, TAMILNADU, INDIA,** the Second Party is promoted by Mr. Mohamed Sherfuddin R, No.447/265, Third Floor, Poonamallee High Road, Aminjikarai, Chennai - 600 029, Tamil Nadu, Leading MEP & BIM with its HQ in Chennai, Tamil Nadu, India. We strive to surpass the competition in quality, innovation, maximize the uptime and safety of industries.
- G) Give related information, its branches, and dimensional information about the industry concerned with whom the MoU is sworn.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERE TO AGREE AS FOLLOWS:

CLAUSE I

CO-OPERATION

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the Periyar Maniammai Institute of Science and Technology (PMIST), Deemed to be University, Vallam, Thanjavur, Tamilnadu, India, and its related wings. The Parties shall keep each Other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.
- 1.3 The general terms of co-operation shall be governed by this MoU. The Parties shall cooperate with each, this MoU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof. In case of any future specific engagements, the Parties will sign a separate agreement as the case maybe.

For UNIQUE MEP ENGINEERING ACADEMY Pvt. Ltd.

R. H. A.

Director

REGISTRAR,  
Periyar Maniammai Institute of  
Science & Technology (PMIST),  
(Deemed to be University),  
Periyar Nagar, Vallam,  
Thanjavur - 613 403, Tamilnadu.

MoU signed between PMIST and Unique MEP Engineering Academy  
Private Limited, Chennai- Page2

**CLAUSE 2**  
**SCOPE OF THE MoU**

- 2.1 The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.
- 2.2 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the pedagogy so that the students fit into the industrial scenario meaningfully.
- 2.3 **Industrial Training & Visits:** Industry and Institution interaction will give an insight in to the latest developments / requirements of the industries, the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.
- 2.4 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of **Mechanical, Electrical and Plumbing (MEP) and Building Information Modelling (BIM)**.
- 2.5 **Skill Development Programs:** Second Party to guide and train the Faculty of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
- 2.5 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lectures to the students of the First Party on the technology trends and in house requirements.
- 2.6 **Faculty Development Programs:** Second Party to train the faculty members of First Party for imparting training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- 2.7 **Internship & Placement Training of Students:** Second Party will actively engage to help the delivery of the training of students of the First Party into internships/jobs for the students, where feasible. The Second Party will itself absorb at least percentage of the trained students as Interns.
- 2.8 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programmes on the terms specified herein
- 2.9 There is no financial commitment on the part of the **Periyar Maniammai Institute of Science and Technology (PMIST), Deemed to be University, Vallam, Thanjavur, Tamilnadu, India**, the First Party to take up any programme mentioned in the MoU. If there is any financial consideration, it will be dealt separately.


**CLAUSE 3**  
**INTELLECTUAL PROPERTY**

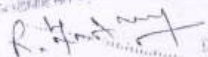
- 3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or Otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the Other Party.

**CLAUSE 4**

**VALIDITY**

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during the period of 3 years from the date of signing. **UNIQUE MEP ENGINEERING ACADEMY PRIVATE LIMITED, Chennai, Tamilnadu, India**, the Second Party, as the case may be, will take effective Steps for implementation of this MOU. Any act on the part of **UNIQUE MEP ENGINEERING ACADEMY PRIVATE LIMITED, Chennai, Tamilnadu**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU.

  
**REGISTRAR,**  
Periyar Maniammai Institute of  
Science & Technology (PMIST),  
(Deemed to be University),  
Periyar Maniammai Institute of Science & Technology

  
**Director**



4.2 Both Parties may terminate this MoU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their Obligations

**CLAUSE 5**

**RELATIONSHIP BETWEEN THE PARTIES**

5.1 It is expressly agreed that First Party and Second Party are acting under this MoU as independent contractors, and the relationship established under this MoU shall not be construed as a partnership. Neither Party is authorized to use the Other Party's name in any way, to make any representations or create any Obligation or liability, expressed or implied, on behalf of the Other Party, without the prior written consent of the Other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MoU to make agreements of any kind in the name of or binding upon the Other Party, to pledge the Other Party's credit, or to extend credit on behalf of the Other Party.

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of **Trichy**.

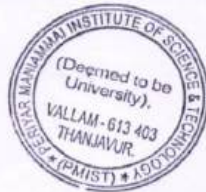
First Party

Second Party

**AGREED:**

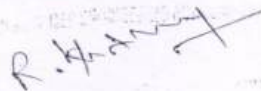
For Periyar Maniammai Institute of Science and Technology (PMIST), Deemed to be University.

For Unique MEP Engineering Academy Private Limited.



Authorized signatory

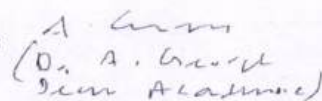
Dr. P.K.Srividhya  
The Registrar  
Periyar Maniammai Institute of Science and Technology (PMIST), Deemed to be University,  
Vallam, Thanjavur, Tamilnadu, 613403,  
registrar@pmu.edu, www.pmu.edu.



Authorized signatory

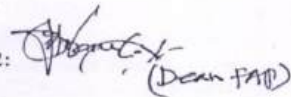
Mr. R. Mohamed Sherfuddin  
CEO  
Unique MEP Engineering Academy  
Private Limited  
No.447/265, Third Floor, Poonamallee  
High Road, Aminjikarai, Chennai-29  
info@iigemasia.com, www.iigemasia.com

Witness 1:



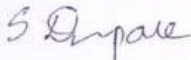
(Dr. A. Anand  
Dean Acadmic)

Witness 2:



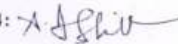
(Dean F&D)

Witness 3:



S. Dnyanesh

Witness 4:



A. Shibu

# Evidence



Event Organized by  **ILLUSTRIOUS INSTITUTE OF GREEN ENVIRONMENTAL MANAGEMENT PRIVATE LIMITED** In Association with  **CONSTRUCTION ENGINEERS AND FACILITY MANAGERS ASSOCIATION**

Presents this

# Certificate of Participation

to

## Arbhaj Khan I

for his / her active and invaluable participation during the conduct of

### Value Added Course on

**MEP - PLUMBING**... at **Department of Architecture, PMIST, Thanjavur**.....

Course Duration: **19<sup>th</sup> to 23<sup>rd</sup> Dec 2023** | Grade: A | Grade: A - Excellent B - Very good C - Good D - Satisfactory

  
 Nanjundeswaran  
GENERAL SECRETARY

  
 TSRI

  
**UNIQUE MEP**  
 ENGINEERING ACADEMY Pvt. Ltd.  
Finishing School for Engineering Graduates

  
 INDIA  
**IAPMO**  
TECHNICAL

  
 Mohamed Sherfuddin. R  
 PRESIDENT

**Head Office (Chennai)** No. 447/ 265, 3<sup>rd</sup> Floor, Poonamallee High Road, Aminjikarai, Chennai - 600 029 | Mob: +91 84286 77755 | Tel: +91 44 4320 7774 / 75 / 76  
**Branch Office (Trichy)** C-70, 2<sup>nd</sup> Floor, 4<sup>th</sup> Cross, Thillai Nagar (west), Trichy - 620 018 | Mob: +91 84286 77755 | Tel: +91 431 4216776  
**Branch Office (Kovai)** No.29, 3<sup>rd</sup> Floor, Vaikunth Complex, 80ft Road, Olymbus, Ramanathapuram, Coimbatore - 641045 | Mob: +91 89257 75222 | Tel: +91 422 498 4411

Email: [info@unique-tec.com](mailto:info@unique-tec.com) | Websites: [www.igemasia.com](http://www.igemasia.com) | [www.unique-mep.com](http://www.unique-mep.com) | [f](#) [in](#) [t](#) [@](#) /uniqueMEPEngineering

Academic year 2023-2024  
value added course : MEP  
ATTENDANCE

DEPARTMENT OF ARCHITECTURE  
DATE : (19.12.2023-23.12.2023)

RNO	REGISTER NO.	NAME	19th Dec	20th Dec	21st Dec	22nd Dec	23rd Dec
1	1200100180	AARTH A.					
2	1200120180	ARITHHEERAM A.					
3	1200100180	ABIRAM C.					
4	1200120180	ANTO BIBINSON F.M					
5	1200100180	ATCHAYA G.					
6	1200100180	BALASUBRAMAN C.					
7	1200100180	DEVADHARINI M.					
8	1200100180	DEVI ABIRAM G.					
9	1200120180	DANIEL DASSEL ANDREW					
10	1200120180	INZAMAM A.					
11	1200100180	JANAKA RAJUL					
12	1200120180	MASATHUL MUHAMMED A.H					
13	1200120180	MANJANDAN S.					
14	1200100180	MOHANAPRIYA W.					
15	1200100180	MOHITHA R.					
16	1200100180	NAVYUKTHA V.					
17	1200100180	RAHAF AHMED M.					
18	1200100180	RAGAVENDRAN K.					
19	1200100180	RANJANA T.S.					
20	1200100180	RESHMA S.					
21	1200100180	RISHI ARVINDHA					
22	1200100180	ROHITH L.					
23	1200100180	RUSHIKESHWAR REDDY V.					
24	1200100180	SANIN NISHA A.					
25	1200100180	SANTHASHEELA J.					
26	1200100180	SIBAN V.					
27	1200100180	SIBARON JUDITH F.					
28	1200100180	SIBIRAM RAMAKRISHNAN					
29	1200100180	SUBUTHI PRIYA H.					
30	1200100180	SIVA M.					
31	1200100180	SIVA SIVAM B.					
32	1200100180	SIVAKUMAR H.					
33	1200100180	SIVANANDH K.					
34	1200100180	SUMITHA S.					
35	1200100180	SIVYA S.					
36	1200100180	JAMIL ANWAR F.H.					
37	1200100180	UJAYANMADH M.					
38	1200100180	VIJAYASREE S.					
39	1200100180	VIKRAM V.					
40	1200100180	ANUJEEBA R.N.					
41	12001200180	ARBHAJ KHAN I.					

Academy year 2023-2024  
Value added course - REVIT  
ATTENDANCE

DEPARTMENT OF ARCHITECTURE  
DATE : 06.10.2023-11.10.2023

S.N	REGISTER NO	NAME	DATE	NO.1	NO.2	NO.3	NO.4	NO.5	NO.6
1	102300001	ABHIR NARAYAN B							
2	102300002	ADARSH KUMAR S							
3	102300003	ADARSH KUMAR S							
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49	102300049	ADARSH KUMAR S							
50	102300050	ADARSH KUMAR S							

*(Signature)*  
10/10/2023

*(Signature)*  
Head of the Department  
Faculty of Architecture & Planning,  
Punya Mechanical  
Institute of Science & Technology,  
157, Pooja Nagar, Vadgaon,  
Tumkur-575 001, Karnataka.



தமிழ்நாடு தமில்நாடு TAMILNADU

04.01.2022

Periyar Maniammai Institute of  
Science & Technology, (PMIST)  
(Deemed to be University)  
Periyar Nagar, Vallam,  
Thanjavur-613 409, Tamilnadu.

₹.100/-  
CG 391882  
A. Cavithasan Nani  
ஆ.கவிதாசாமிநனி  
முத்திரைதாள விநியோகியாளர்,  
சாமராஜ் பேருந்து நிலையம்,  
வல்லம், தமிழ்நாடு.  
உரிமம் எண் - 1/2012

### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MoU) is made on the 4<sup>th</sup> day of January, 2022, between **Periyar Maniammai Institute of Science & Technology**, a private deemed-to-be-university, having its headquarters in Periyar Nagar, Vallam, Thanjavur, Tamil Nadu 613403, India, hereinafter referred to as "PMIST", which expression includes its successors and assigns of one part; and **Prag Robotics Private Limited**, a company registered under the Indian Companies Act of 2013 having the registered office at 7, II Cross Street, Karthikeyapuram, Madipakkam, Chennai, Tamil Nadu 600091, hereinafter referred to as Prag, of the other part;

Both "PMIST" and "Prag" hereinafter individually referred as "Party" and collectively as "Parties".

WHEREAS Prag is engaged in training, research and development activities, provides a nifty Techno-Platform to product developers for innovations and technological skill development courses to students to compete in the global market. RoboLab-4.0, a fully equipped Center of Excellence established by Prag Robotics in association with the College/University that provides a wide array of robotics from Mobile, Industrial and Autonomous robots, Artificial Intelligence, Machine Learning, Deep Learning, Computer



MoU signed between PMIST and Prag Robotics Private Limited,  
Chennai- Page1

Vision, Data Science and Block Chain. The curriculum is designed by the experts, in line with industry requirements and global education.

WHEREAS PMIST is proud to be a unique institution of higher learning and academic excellence. In an endeavour to fulfil the dreams of our Mentor Thanthai Periyar and Annai Maniammaiyyar, the University is dedicated to its societal responsibility for transforming students from different parts of India and abroad into stalwarts by igniting their hidden talents. As it is located in a rural area, the students are admitted from a wide range of calibre and by personal attention, and modern teaching methodology towards a Product / Process / Demo / Case Study teaching, they are shaped into career-oriented professionals with bright future. The University is making efforts to create new horizons in the arena of technical education and research.

WHEREAS PMIST and PRAG are appreciating the need for creation of good reservoir of highly qualified manpower in multiple emerging technologies including but not limited to Robotics, Artificial Intelligence and Blockchain and hence mutually decided to get associated to utilize their resources, capabilities and skills for the betterment of the student community by enhancing their skills in the future technologies, thus maximize their employability opportunities, nurture research & innovation capabilities.

NOW, therefore, in consideration of the mutual covenants and obligations set forth herein below, both Parties have agreed to get into this MoU with the following terms & conditions:

**1. Main Objectives:**

- 1.1. **Centre of Excellence:** Establish a fully equipped Center of Excellence which will provide and facilitate the studies in the domains of Robotics, Artificial Intelligence and Block Chain. And conduct practical sessions for the academic subjects and carry out research and developmental activities.
- 1.2. **Skill Development Courses (Value Add Courses):** To teach a wide array of robotics from Mobile, Industrial and Autonomous robots, Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, Data Science and Block Chain.
- 1.3. **Minor Degree:** To support the college / university to offer their Minor Degree or Regular Degree, Prag will add industry supported curriculum and practical sessions to the academic syllabus, that will facilitate the students to understand the theoretical portion also effectively.



- 1.4. **Faculty Development Program:** Prag will provide hands on coaching to faculties / professors to conduct these courses so to be independent. However, Prag will continue to be the knowledge partner and provide tech support and update on current technologies.
- 1.5. **Industry Readiness Program:** Self learning online courses in line with industry requirements, in both technical and nontechnical subjects which provide provides industry sought skills and knowledge and make the student industry ready.
- 1.6. **Internship Program** for deserving candidates based on set criterion.
- 1.7. **Expert committees/Technical Events:** Prag can be a member in Institution's BoS (Board of Studies) to provide insight about the emerging technologies and industry sought skills. On mutual consent of the Parties, workshops, conferences, seminars and competition for improving the skill level of students can be conducted.

## 2. Financials:

- 2.1. For each of the collaborative program, the procedural aspects, business model, program plan, process of execution, financial terms, fees, payment, and timelines will be discussed and mutually agreed for each such program.
- 2.2. PMIST shall issue a "work order" to Prag Robotics for each collaborative program which mentions the execution and payment purposes.

## 3. Key Responsibilities:

Responsibility of Prag is cited below:

- 3.1. Design, develop and deliver all the training programs including creating curriculum syllabus, program pedagogy; ensure the lab manual and study material are available digitally.
- 3.2. Procurement assistance, installation and maintenance of the lab equipment viz., robots, required software and simulation programs.
- 3.3. Deploy certified roboticists/faculties to deliver high standard training programs.
- 3.4. Conduct internal assessment by progressive evaluation method and external assessments by experts from appropriate industries.
- 3.5. Provide opportunities for industrial projects & internships to the eligible students of PMIST as per Prag selection criteria.



Responsibility of PMIST is cited below:

- 3.6. Provide Lab infrastructure including Robots, Computers, and other required equipment.
- 3.7. Shall ensure Prag Robotics as their exclusive service provider for conducting skill developmental programs in Robotics, Artificial Intelligence and Blockchain.
- 3.8. Recognize the skill development courses and Industry Ready Program of Prag Robotics and shall register students to undergo these courses so to maintain the business feasibility.
- 3.9. Review & utilize the services such as Faculty Development Program and Minor Degree Courses.
- 3.10. Recognize Prag Robotics for the research programs and joint developments.

**4. Term and Termination:**

- 4.1. The duration of this MoU shall be 4 years from the day of signing of the MoU. The MoU shall stand renewed automatically, unless desired otherwise by either party.
- 4.2. This MoU may be terminated by either party upon providing a written notice of 60 days to the other party; however, obligations and commitments already contracted for and involving their parties shall be honored and continued by both parties until such commitments are completed.
- 4.3. This MoU shall terminate automatically upon the bankruptcy of any of the Parties or in the event of force major event which makes performance of obligation of any of the Party impossible under this MoU.
- 4.4. In the event of this program is being discontinued, then the cause will be analyzed, and both the Parties will discuss and agree to the course of action and settlement with mutual consent.

**5. Confidentiality and IPR:**

- 5.1. Confidentiality, Intellectual Property and Proprietary information: The information exchanged (verbal or written) between the Parties concerning the business, operations, technical, training content trade secrets, computer programs, databases, algorithms, improvements, discoveries, inventions, methods, techniques, strategies, new products, unpublished financial statements, budgets, projections, billing practices, pricing data, contacts, client and supplier lists, business and marketing records, working papers, files, and data, the Recipient acknowledges that they will not disclosure any of these without the written consent of the Discloser.

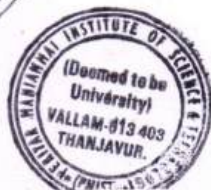




- 5.2. All process, product, design, curriculum and content information specific to Prag Robotics Private Limited shall be kept confidential. Publication of any results in the public domain shall only be after mutual written consent.
- 5.3. Intellectual property rights arising from joint collaborative work shall be shared mutually based on the prior agreement for specific projects.
- 5.4. Benefits such as improved technology, materials, process, designs and techniques, accruing from collaborative research may be used by either or both the parties with due recognition of each party's contribution only after agreement by both the parties.

**6. General Terms:**


- 6.1. During the Term of this MoU, without Prag written consent, PMIST agrees that either on their behalf or on behalf of another, contact or solicit employees of Prag for the purpose of hiring them.
- 6.2. Neither Parties shall be responsible to the other parties for any loss/damages other than threat to internal security caused with willful intention during execution and performances preferred in writing by the said parties as per them clauses contained in this MoU. The parties shall be normally responsible for ensuring their respective equipment and personal for any claims that may arise during the discharge of the responsibilities of the respective party under this MoU.
- 6.3. Nothing in this MoU shall be construed to make the other party a partner, an agent or legal representative of the other for any purpose. Both Parties agrees that they shall not represent to third parties that they are the agent of the other. Nothing in this MoU shall be construed to grant either Party the right to make commitments of any kind for or on behalf of the other Party without prior written consent of the other Party.
- 6.4. During the entire tenure, this MoU, shall be governed and construed in accordance with the laws of the Republic of India. Disputes, if any, arising out of this MoU will be mutually discussed and settled without any obligation on either Party, failing which, the Arbitration proceedings shall be in accordance with the provisions of the Arbitration and Conciliation Act and Rules framed there under from time to time. The place of Arbitration shall be at Chennai and all Arbitration proceedings shall be conducted in English language and governed by the above said Act and Rules and in Indian Laws.
- 6.5. Any amendment to this MoU, requires written approval from both parties.



IN WITNESS WHERE OF THE UNDERSTANDING, duly authorized there to, have signed this Memorandum of Understanding on in three originals.

Authorized Signatory

Authorized Signatory



Dr. P.K. Srividhya  
Registrar  
Periyar Maniammai Institute of  
Science & Technology  
(Deemed to be University),  
Periyar Nagar, Vallam – 613403, Thanjavur





Mr. Balaji Harinathan  
Director / Process Excellence and Strategic  
Prag Robotics Private Limited,  
7, II Cross Street, Karthikeyapuram,  
Madipakkam, Chennai – 600 091



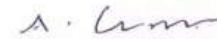
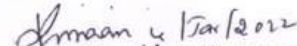
Date: 4<sup>th</sup> January 2022

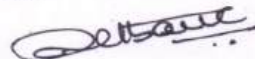
Date: 4<sup>th</sup> January 2022

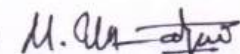
In the presence of

Witness 1:

Witness 2:

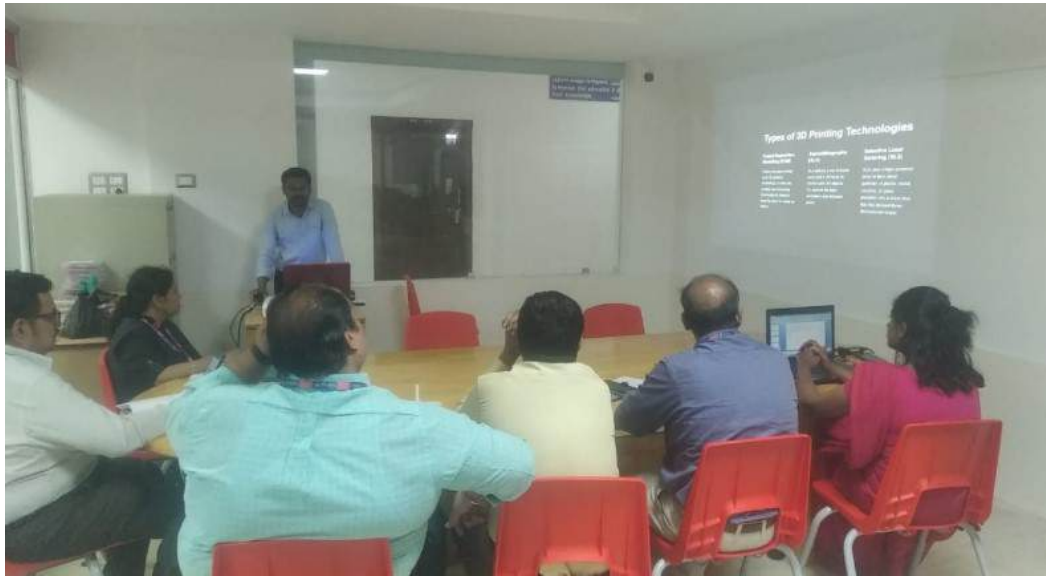
1.   
Dr. A. George  
Dean Academic
2.   
Dr. S. KUMARAN  
Dean Research  
PMIST

(a)   
SETHURAMAN.K  
7, 2<sup>nd</sup> CROSS STREET  
KARTHIKEYAPURAM  
MADIPAKKAN, CHENNAI.  
TAMIL NADU – 600 091

(b)   
VENKATESAN.M  
40 A, PILLAIYAR KOIL ST  
KUMARAN NAGAR  
PADI, CHENNAI - 50  
TAMIL NADU

**Module :1**

**3d printer**



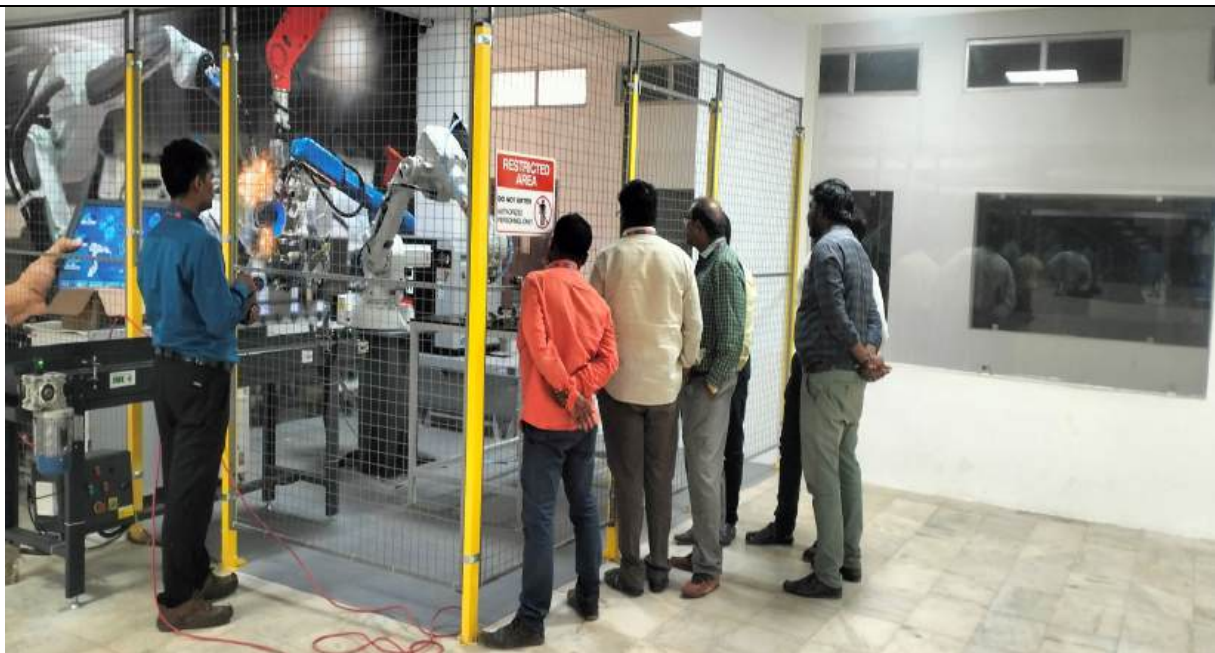
Module :2

AI with ML



Module :3

Industrial Robot



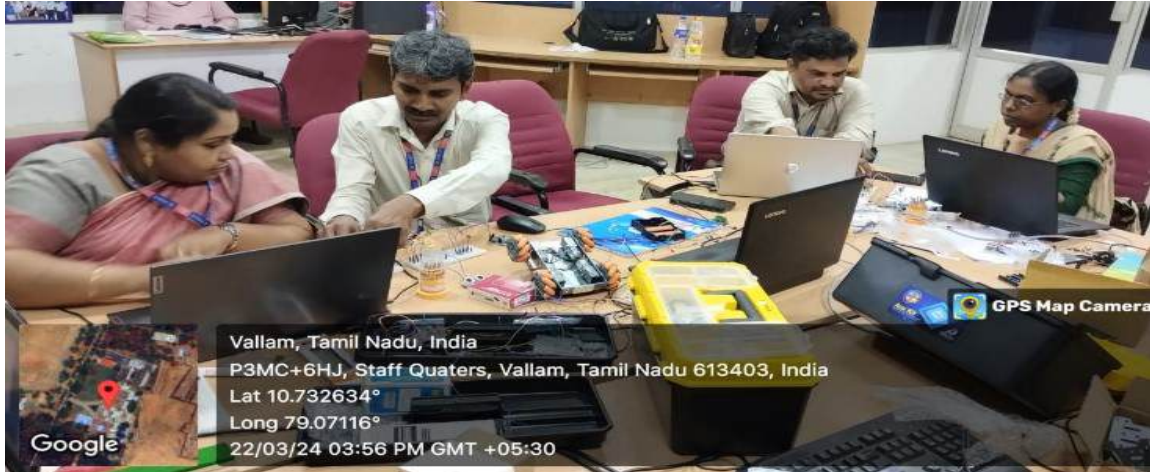
Module :4

LIDAR and Sensor



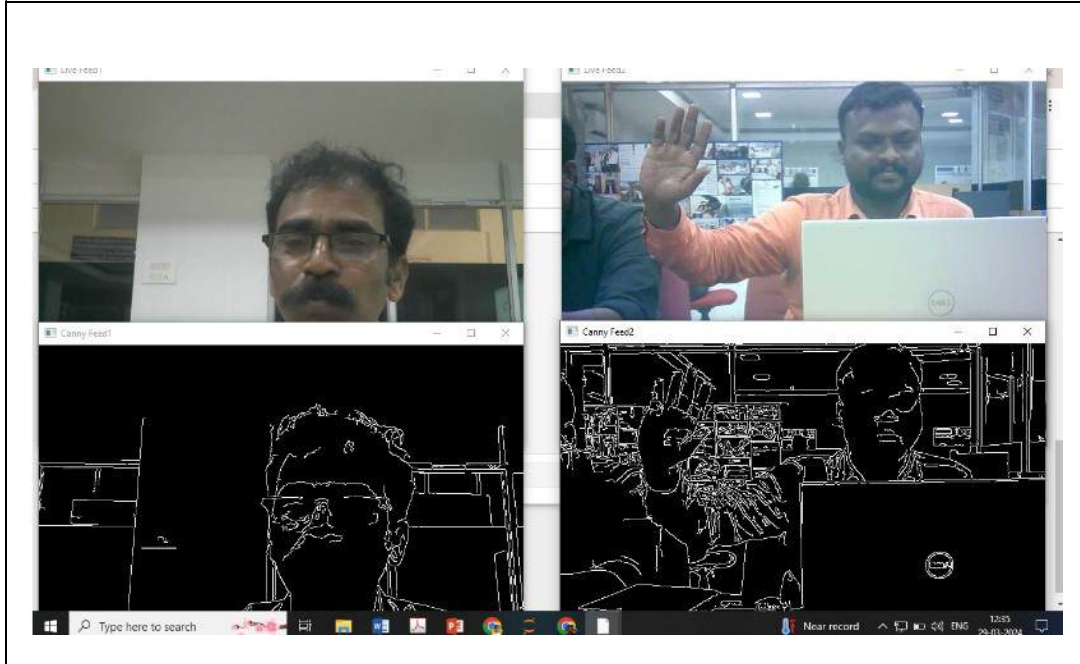
Module :5

RaspberryPi



Module :6

Computer Vision



Module :7

STEMI -HEXAPOD





Module :8

Exploring Python for modern Technology





तमिलनाडु TAMIL NADU Periyar Maniammai 22AC 414845

₹20/ 20.03.2023 Institute of Science and Technology

N. Jayaraman  
Stamp vendor  
Licence No: 32/2008  
Sub-Registrar's Office Campus  
Vallam - 613 403

#### MEMORANDUM OF UNDERSTANDING

M/s. High Energy Batteries (India) Ltd., situated at Pakkudi Road, Mathur – 622515, Pudukkottai District, Tamil Nadu (hereafter called HEB), manufacturing wide range of high energy density batteries such as Silver Oxide Zinc, Nickel Cadmium, Cuprous Chloride etc. for Aerospace, Military and ISRO Satellite applications, Lead Acid Batteries for automobiles and represented by **Dr. G.A. Pathanjali, Managing Director**,

and

Periyar Maniammai Institute of Science & Technology (PMIST), Thanjavur, Tamil Nadu (hereafter called PMIST) offering degree courses in various fields of education and academic research, represented by **Dr. P.K.Srividhya, Registrar**, have come to an agreement to improve the industry institution relationship in various fields of activities such as:

REGISTRAR,  
Periyar Maniammai Institute of  
Science & Technology (PMIST),  
(Deemed to be University),  
Periyar Nagar, Vallam,  
Thanjavur - 613 403, Tamilnadu.

For HIGH ENERGY BATTERIES (I) LTD

G.A. Pathanjali  
Dr. G.A. PATHANJALI  
Managing Director

1

5

1. Collaborative research
2. Exchange of information on Research and Education programs
3. Engineers and Scientists of High Energy Batteries could help to improve the knowledge of students on batteries and Electrochemical Science and Engineering by delivering lectures and addressing symposium /seminar and also to organize Business Sector Lectures
4. Visit of students and faculties to HEB R&D Laboratories for improving their practical knowledge on various types of batteries, as per plan, mutually agreed at convenient intervals.
5. Utilizing faculty members of Periyar Maniammai Institute of Science & Technology (Deemed to be University) to provide up-skilling and re-skilling training program for HEB employees.
6. The two parties will review and evaluate the understanding results before the expiry of this agreement and make the extension of the MoU period.
7. The agreement will expire if both sides do not make the extension at the end of the period. Either party with a minimum of 90 days written notice can terminate this agreement. However, the assignment taken will be completed at any cost.
8. Both parties will assign a person as the contact point to implement this agreement.
9. This agreement is to develop and promote the research activities and does not have any legal binding. This agreement shall not be deemed to constitute a partnership / agency between HEB and PMIST, unless expressly agreed therein.
10. There is no financial commitment on both the parties to take up any program/activities mentioned in the scope of the MoU. If there is any financial consideration, it will be dealt separately.

This agreement is valid for three years from **29.03.2023 to 29.03.2026** and it could be extended and / or cancelled within the agreement period, based on mutual consent.

✓  
**Dr.P.K.Srividhya**, Registrar,  
 Periyar Maniammai Institute of Science & Technology,  
 PMIST, Periyar Maniammai Institute of Technology,  
 Vallam,  
 Chennai-601 403, Tamilnadu.

*G.A. Pathanjali*  
**Dr.G.A.Pathanjali**  
 Managing Director  
 High Energy Batteries (India) Ltd



Place: PMIST  
 Date: 29.03.2023

Place: *Mathur*  
 Date: *29/03/2023*

**Witness**

1. *[Signature]*  
**Dr. S. SETHAMILAMMAL**  
 DEAN FET
2. *[Signature]* (Dr. D. Jeyasimman)  
**Professor Mech. Engg.** 2

1. *[Signature]*  
**A.B. MURALI, (HCBCL)** 24
2. *[Signature]*  
**V.HEMA.**



RESEARCH ARTICLE | JULY 08 2024

## An experimental investigation of characterization and chemical behavior of silver-zinc oxide nanomaterials battery electrodes **FREE**

D. Jeyasimman ✉, M. Loganath Paranidaran, P. K. Srividhya, G. Pathanjali

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*AIP Conf. Proc.* 2965, 040006 (2024)  
<https://doi.org/10.1063/5.0211984>



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# An Experimental Investigation of Characterization and Chemical Behavior of Silver-Zinc Oxide Nanomaterials Battery Electrodes

D. Jeyasimman<sup>1, a)</sup>, M. Loganath Paranidaran<sup>1</sup>, P.K. Srividhya<sup>1</sup>, and G. Pathanjali<sup>2</sup>

<sup>1</sup>Department of Mechanical Engineering, Periyar Maniammai Institute of Science & Technology, Thanjavur - 613403, Tamil Nadu, India.

<sup>2</sup>High Energy Batteries, Mathur, Tiruchirappalli. Tamil Nadu, India

<sup>a)</sup>Corresponding author: jeyasimmand@pmu.edu

**Abstract.** Modern society relies heavily on silver-zinc batteries for a variety of flexible electronic power needs. This research used a high-energy ball-milling technique on zinc oxide and pure silver (Ag) to produce Ag-ZnO powder at the nanoscale. By playing about with grinding dry powder, we were able to create nanoparticles of silver and zinc oxide without using any chemical reagents. We ground all of the samples for 25 hours using high-energy ball milling. For the purpose of ball milling, ten titanium carbonate balls with varying diameters (10 mm) were used. No cooling chemicals were used. Milling the particles at 350 rpm lowered the silver and zinc oxide concentrations from micro to nano, according to the data. In order to describe the manufactured powders, scanning electron microscopy and X-ray diffraction were used. Research into the chemical behaviour of anode and cathode materials made from nano-scale Ag-ZnO powders followed.

## INTRODUCTION

Particles of silver with a size between one and one hundred nanometers are known as nanomaterials. Because of the very high surface-to-bulk silver atom ratio, many of these materials are categorised as "silver," but others include a significant quantity of silver oxide. Depending on the intended use, nanoparticles may have many different forms. Nanoparticles of silver may be round, diamond-shaped, octagonal, or even thin-sheeted. Particles of zinc oxide (ZnO) smaller than 100 nanometers in diameter are called zinc oxide nanoparticles. They are very active catalysts and have a large surface area relative to their size. Different methods of production result in zinc oxide nanoparticles with varying physical and chemical characteristics. A few methods that can be used to make ZnO nanoparticles include electrochemical depositions, sol-gel methods, combustion methods, ultrasound, electrothermal methods, electrochemical depositions, thermal decomposition, electrochemical depositions, anodization, co-precipitation electro-phoretic deposition, and precipitation processes that take solution concentration, pH, and washing medium into account. Another method is the two-step mechano-chemical-thermal synthesis. The nanomaterials were synthesised using high-energy ball milling technique. Prior to beginning the procedure, the quality of the silver powder was checked and found to be 99.99 percent. In the first experiment, we used toluene as a chemical reagent to ball mill zinc oxide, which had a very light white tint. A 25-hour grinding period was established for all samples. No signs of material leakage were detected. The operation was closely watched while the milling speed was fixed at 250 rpm. Upon its creation, nano silver was discovered to have a bulk density greater than 6 gm/m<sup>3</sup>. Consequently, we repeated the nanomaterial synthesis test this time excluding the chemical reagents. We allowed five minutes of downtime after setting the milling timer for an hour. The steps outlined here were all taken. Microscale flake silver powders for use as solar cell back-side paste have been successfully produced using high-energy ball milling [1]. Many variables were investigated in the ball milling process, including the grinding aid kinds, ball-to-powder weight ratio, rotation speed, and milling duration. The ideal milling parameters were determined to be a 15:1 BPR value, 350 r/min rotation speed, and 30 h milling duration when a grinding aid combination of 1.5 percent stearic acid and 0.5

182



தமிழ்நாடு தமில்நாடு TAMIL NADU

05.02.2022

Periyar Maniammai Institute of  
 Science & Technology, (PMIST)  
 (Deemed to be University)  
 Periyar Nagar, Vallam,  
 Thanjavur-613 403, Tamilnadu.

128. 20/-  
 87AB 838181.  
 A. Govindarajan  
 ச.கவிதாசாமி  
 முத்திரைகள் கட்டுப்பாட்டு அமைச்சு,  
 கட்டுரை குடிநீர் துறைகூடம்,  
 சென்னை, தமிழ்நாடு.  
 உரிமை எண் - 12812

**MEMORANDUM OF UNDERSTANDING (MoU)**

**BETWEEN**

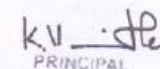
Periyar Maniammai Institute of Science & Technology (Deemed to be University),  
 Thanjavur

**AND**

Periyar Centenary Memorial Matriculation Higher Secondary School, Trichy - 21

This Memorandum of Understanding (hereinafter called as the 'MoU') is entered into on this the 7<sup>th</sup> day of Month February 2022, by and between Periyar Maniammai Institute of Science & Technology (Deemed to be University), Thanjavur, the First Party represented herein by its Registrar and Periyar Centenary Memorial Matriculation Higher Secondary School, Trichy - 21 the Second Party, and represented herein by its Principal

  
 Registrar,  
 Periyar Maniammai  
 Institute of Science & Technology,  
 (PMIST), Periyar Nagar, Vallam,  
 Thanjavur-613 403, Tamilnadu.

  
 PRINCIPAL  
 Periyar Centenary Memorial  
 Matriculation Hr. Sec. School  
 Tiruchirappalli - 21

**MoU signed between PMIST and Periyar Centenary Memorial Matriculation Higher Secondary School, Trichy . Page 1**

WHEREAS:

A) First Party is a Higher Educational Institution named: **Periyar Maniammai Institute of Science & Technology (Deemed to be University)**.

B) Second Party is a Matriculation Higher Secondary School named: **Periyar Centenary Memorial Matriculation Higher Secondary School, Trichy – 21**.

C) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

D) The Parties intent to co-operate and focus their efforts on co-operation within area of Skill based training, Education, Placement, Institutional visit, Expert lecture, Collaborative projects, Workshops, Consultancy services and Co-curricular activities.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MoU, THE PARTIES HERETO AGREE AS FOLLOWS:

**CLAUSE 1 CO-OPERATION**

1.1 Both Parties are united by common interests and objectives, and they shall establish co-operation.


1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities.

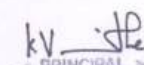
1.3 The Parties shall co-operate with each other and shall execute as promptly as is responsibly practical, relevant agreement.

**CLAUSE 2 SCOPE OF THE MoU**

2.1 Training & Visits: This interaction will provide an insight into the latest developments / requirements in the field of Education, the Second Party to permit the Faculty and Students of the First Party to visit their institution and also involve in Practicum and School Internship Programme / Training Programmes for the First Party. Also the Second Party may register on the NCTE Internship Portal for the benefit of students.

2.2 Guest lectures: First Party to extend the necessary support to deliver guest lectures and organizing workshop to the students and staff of the Second Party on the recent developments in the field of Education.

  
Registrar,  
Periyar Maniammai  
Institute of Science & Technology  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.

  
PRINCIPAL  
Periyar Centenary Memorial  
Matriculation Hr.Sec.School  
Tiruchirappalli - 21

2.3 Placement of trained students: Second Party will actively engage to help in the training and placement of the students of the Department of Education of the First Party.

2.4 There is no financial commitment on both the Parties to take up any program / activities mentioned in the scope of MoU/ co-operation mentioned in this MoU. If there is any financial consideration, it will be dealt separately.


2.5 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required.

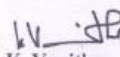
### CLAUSE 3 VALIDITY

3.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms.

### CLAUSE 4 RELATIONSHIP BETWEEN THE PARTIES

4.1 It is expressly agreed that First Party and Second Party are acting under this MoU as independent contractors, and the relationship established under this MoU shall not be construed as a partnership.

  
Dr. P.K. Srividhya  
Registrar  
Periyar Maniammai Institute of Science &  
Technology (Deemed to be University),  
Periyar Nagar, Vallam, Thanjavur - 613403.  
E-mail: [registrar@pmu.edu](mailto:registrar@pmu.edu)

  
Dr. K. Vanitha  
Principal  
Periyar Centenary Memorial  
Matriculation Higher Secondary School,  
Trichy - 2  
E-mail: [principal.pcmms@gmail.com](mailto:principal.pcmms@gmail.com)

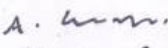
Periyar Centenary Memorial  
Matriculation Hr.Sec.School  
Tiruchirappalli-620021

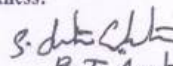
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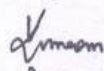
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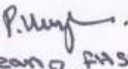
Witness:

Witness:

1)   
Dean Academic.

1)   
B.T Asst.

2)   
Dean Research

2)   
Dean of PMSM





<b>Name of the Programme</b>	Robotics and Automation
<b>Date</b>	Throughout the year 2023-24
<b>Venue</b>	At school camps
<b>Number of Participants</b>	900

**Report of the Event**

- Students from 6<sup>th</sup> to 9<sup>th</sup> standard were trained in Robotics and Automation technology.
- Students were given opportunity to showcase our technical potential by displaying their projects and providing solutions to the real time challenges
- Hands on training on Mbot (mobile robot), Humanoid bot, Hexapod, Fire bird V kit etc were given to the students
- An assessment on the topic covered was finally done and feedback from students were received.



**Trichy school students displaying their project on Robotics Expo –Jan 2024**

**Prag Robotics and CETAT performed a real time demo on various types of Robots at Trichy school-Jan 2024**



**Students were evaluated in Robotics Expo At Trichy School –Jan -2024**



**Students displaying project in Robotics Expo at Trichy School–Jan -2024**

**Robotics Mini-Projects**



**Students displaying project in Jeyankondam school –Sep -2023**

**Robotics Test**



**Students appearing for Robotics class assessment at Jayankondam school –Sep -2023**



தமிழ்நாடு தமில்நாடு TAMIL NADU 03.08.2022  
Periyar Maniammai Institute of  
Science & Technology, Vallam.


Rs. 20/-  
09AC 672701  
A. Lavin Thammam  
ஆ. கவிதாமணி  
முத்திரைதாள் விற்பனையாளர்  
காமராஜ் பேருந்து நிலையம்  
வல்லம், தமிழ்நாடு.  
உரிமம் எண் - 1/2012

**Memorandum of Understanding (MOU)  
for Industrial and Academic Cooperation  
Between**

**Periyar Maniammai Institute of Science and Technology (PMIST)  
(Deemed to be University)  
Vallam, Thanjavur, Tamilnadu  
and  
M/S DFE Pharma India Pvt.Ltd, Cuddalore, Tamilnadu**

This Memorandum of Understanding (MoU) is drawn up and signed by Periyar Maniammai Institute of Science & Technology (Deemed to be University), Vallam, Thanjavur, Tamilnadu, (hereafter PMIST) and DFE Pharma India Pvt. Ltd, Cuddalore, Tamilnadu (hereafter DFE Pharma).

PMIST and DFE Pharma agree to engage in industrial and academic cooperation in areas of mutual interest. The areas that might fall within this programme of cooperation will, where mutual benefit can be identified, include the following.

  
Registrar,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.


1. Collaborative study and knowledge sharing towards continual improvement on yield, recovery and handling of ETP waste.
2. Effective disposal of Bio-sludge / High concentrated rejects from ETP.
3. Recovery and reuse of MCC from RVDF filtrate and siphoned mass.
4. Industrial visits by researchers and students.
5. Project work / Internships.

PMIST keeps such confidential Information related to project and to take reasonable measures to prevent disclosure of information or unauthorized use of such information.

PMIST shall not use the intellectual property rights owned and/or used by DFE Pharma, together with or in conjunction with any other intellectual property right not owned and/or used by DFE Pharam or in any other combination.

With respect to the above, independent and detailed agreements will be drawn up and agreed by PMIST and DFE Pharma. This MOU is to be valid for a period of **one year from the date which it is first signed**. In the event of either party willing to change or terminate this MoU, notice in writing to be given **at least two months in advance** of proposed date of such change or termination.

The authorities of contacts for this cooperation are **Dr. P.K.Srividhya, Registrar, PMIST, Thanjavur, Tamilnadu**, for PMIST and **Mr. S. Jayaprabhu, HR Director India & CoE APAC, DFE Pharma, Cuddalore, Tamilnadu**, for DFE Pharma. For the purpose of this document, the legal representatives of the aforesaid concerns are **Dr. P.K.Srividhya for PMIST and Mr. Jayaprabhu for DFE Pharma**.





**Dr. P.K.Srividhya**  
Registrar,  
Periyar Maniammai Institute of  
Science & Technology  
(Deemed to be University)  
Vallam, Thanjavur – 613 403.




**Mr. S. Jayaprabhu,**  
HR Director India & CoE APAC,  
DFE Pharma India Pvt. Ltd.,  
Cuddalore, Tamilnadu – 607 005.

Witness:

1.   
(Dr. S. Koushan)
2.   
Dr A. George

Witness:

1.   
[PARTHASARATHY. C]
- 2.



An industrial project proposal was submitted on 8<sup>th</sup> August 2023 at DFE Pharma Cuddalore on the project title of “Conversion of DFE Pharma final discharged waste sludge to a circular economy for pellet fuel and biogas production units”



Respected Registrar of PMIST handover the proposal to the Site Director of DFE Pharma India Pvt.Ltd Cuddalore.



தமிழ்நாடு தமில்நாடு TAMIL NADU

3.3.2023 Periyar Maniammai  
Institute of Science and Technology,  
Tranjavur.

22.20/2  
22AC 436168.  
A. L. V. Maniammai  
ஆ.கவிதாமணி  
முத்திரைகள் வெப்பலையாளர்,  
காமராஜ் பேரவையு நினைப்பா.  
வல்லம், தருமுநாடு.  
உ.நா.ம.க. - 12012

Memorandum of Understanding (MoU)

ON ACADEMIC RESEARCH PROMOTION

BETWEEN

PERIYAR MANIAMMAI INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED-TO-BE UNIVERSITY),  
VALLAM, TAMIL NADU

AND

THE ERODE COLLEGE OF PHARMACY, ERODE, TAMIL NADU

PERIYAR MANIAMMAI INSTITUTE OF SCIENCE AND TECHNOLOGY (Deemed-to-be University), Vallam, Tamil Nadu hereinafter referred to as PMIST, and THE ERODE COLLEGE OF PHARMACY, Erode, Tamil Nadu hereinafter referred to as ECP, considering their common interest in promoting the mutual cooperation in the area of education and research, wish to expand the basis for cooperative educational research training and promotion, and agreed the following Agreement / Memorandum of Understanding (MoU) with the purpose of developing a strong Collaboration in Academic Research promotion between two institutions.

The PMIST and the ECP are interested by common academic research promotion and seek to develop collaborations and exchanges in academic research expertise. The activities undertaken pursuant to this MoU are based on a spirit of cooperation and reciprocity that is intended to be of mutual benefit to both parties.

MoU signed between PMIST and Erode College of Pharmacy ,Erode –  
Page1

### 1. Purpose

This MoU serves as a written understanding of agreed upon principles between the PMIST, Vallam and the ECP, Erode concerning a set of general academic research objectives.

This is a non-binding agreement and is intended to clarify the nature and extent of the complementary activities that might be undertaken for the mutual benefit of both Institutions. Each institution will be responsible for managing its own costs.

Commitments of research facilities or any other academic research activities may be contemplated hereunder but are beyond the scope of this MoU.

To the extent that the implementation of any agreed upon activity requires a commitment of resources and facilities, a supplementary agreement must be negotiated and approved by the both parties before the work on any of the projects can commence.

### 2. Objectives, Scope, and Major Activities

Both institutions agree to encourage the collaborative development of following activities to promote the academic research among their eligible students, scholars and faculty members:

- Share knowledge in specific areas of academics and research.
- Explore ways to improve undergraduate and postgraduate research and provide associated training.
- Organize workshops, seminars, lectures, symposiums and other scientific events on the relevant subjects of research interest such as basic concepts of research, scientific writing, biostatistics and scientific publishing.
- Explore the possibilities of developing joint research activities and research collaborations.
- Organize Faculty Development Program for the mutual benefits of faculty members.
- Facilitate other research exchange events to which both parties agree.

### 3. Responsibilities of the Parties

Both parties recognize that the implementation of any agreed upon activity will depend upon the research interests, expertise of the individuals involved, and the availability of financial resources and research facilities. Accordingly, the implementation of any research training program/activities based on this MoU shall be separately negotiated and determined between the institutions. It is further expected that both parties will comply with all regulations and policies of the institutions.

### 4. Duration and Option to Amend, Extend or Terminate

This MoU will become effective when signed by both parties. The agreement will remain in force for three years from the date of signing, below, and may be renewed or amended by mutual consent. The parties agree to periodically review the activities undertaken and the progress made and to consult concerning amendments, renewal or termination of this MoU. Either party may terminate this MoU at any time by giving written thirty day notification of such termination to the other party. On termination of this agreement, neither party will be entitled to claim any compensation.

Dr. Balakumar Pitchai was invited as a guest speaker at the Erode College of Pharmacy for a one day of national-level interactive hands-on training on “Towards a holistic approach in academic research, data analysis and publishing, what does a beginner need to know” on 22 July 2023.



 **THE ERODE COLLEGE OF PHARMACY**   
ERODE - 638112, TAMIL NADU, INDIA.  
www.ecp.ac.in. e-mail : principal@ecp.ac.in

**APTI TAMILNADU BRANCH**  
**SPONSORED**  
**One-Day National Level Interactive Hands-on**  
**Training on**  
**"TOWARD A HOLISTIC APPROACH IN**  
**ACADEMIC RESEARCH, DATA ANALYSIS**  
**AND PUBLISHING: WHAT DOES A**  
**BEGINNER NEED TO KNOW?"**

**Date: 22.07.2023**  
Time : 9.30 am to 05.30 pm  
Venue: ECP Auditorium (AC)

**Speaker**

**Dr. BALAKUMAR PITCHAI**  
Professor & Director,  
CSSTP-The Office of Research and  
Development,  
Periyar Maniammai Institute of Science &  
Technology (Deemed to be University),  
Vallam, Thanjavur 613 403, Tamilnadu, India  
&  
Consulting Editor,  
Pharmacological Research-Elsevier  
(Impact Factor: 9.3)

**Fees: Rs. 250/-**



183



தமிழ்நாடு தமில்நாடு TAMIL NADU  
05.02.2022

Periyar Maniammai Institute of  
Science & Technology, (PMIST)  
(Deemed to be University)  
Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.

Rs. 20/-  
87AB 838183.  
A. Govindarajan  
ஆ. கவிதாஜன்  
முத்தியான விடுபையாள்.  
காமராஜ் போர்டு நிசையம்.  
வல்லம், தமிழ்நாடு.  
உரிமம் எண் - V2012

**MEMORANDUM OF UNDERSTANDING**

This Memorandum of Understanding entered into between the PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY (PMIST), Deemed to be University, located at Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, hereinafter referred to as PARTY I and BON SECOURS COLLEGE FOR WOMEN, Vilar Bypass, Thanjavur - 613 006, Tamil Nadu hereinafter referred to as PARTY II. The Memorandum hereby formed shall further strengthen each partner institution's objectives as well as the mutual relationship between the partners.

Registrar,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.

Principal  
Bon Secours College for Women  
(NAAC Accredited with A++ Grade),  
Vilar Bypass, Thanjavur-613 006.

**MoU signed between PMIST and Bon Secours College for Women  
Thanjavur – Page1**

## SCOPE OF THE MOU

### A. Exchange of Information

The two institutions will work to develop project plans, agreements, or programs for exchanging knowledge and expertise.

### B. Exchange of Students

Party I will offer training/internship/projects for students applicable for the study programmes.

### C. Exchange of Faculty

Collaborative programmes for the purpose of conducting research and developing their academic or administrative skills are encouraged.

### D. Collaborative Programs


Collaborative programs, seminars and research activities will be extended and supported, especially including students, where the mutual interests and expertise of both institutions may be furthered.

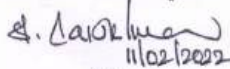
### E. Joint Educational Programs

Joint educational programmes like certificate courses/ add-on can be conducted towards curriculum value addition. All of the proposed initiatives will be governed by policies and procedures agreed upon by both Parties. These terms and conditions of the mutual assistance shall be discussed and agreed upon in writing by the Parties prior to the initiation of any particular programme.

## TERMS OF THE MOU

1. This MOU will be in force for a period of Thirty-Six (36) months from the date of signing.
2. This MOU may be terminated by either Party upon giving a prior written notice of thirty (30) days to the other Party.
3. This MOU can be further extended, subject to mutual agreement of terms and conditions. The indication of desire to continue shall be indicated in writing prior to the date of expiry, which may be accomplished via email.
4. This MOU or any action of the Parties with respect thereto does not constitute legally binding obligations by the Parties, individually or collectively: It only intends to lay out the spirit and understanding of the arrangement for mutual benefit of the respective Parties.

  
Registrar,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vellore.

  
11/02/2022  
Principal  
Bon Secours College for Women  
(NAAC Accredited with A++ Grade),  
Vilar Bypass, Thanjavur-613 026

202

**MoU signed between PMIST and Bon Secours College for Women  
Thanjavur – Page2**

5. This MOU does not create any partnership, agency, joint venture, or employer-employee relationship between the Parties.
6. There is no financial commitment on both the parties to take up any program/activities mentioned in the scope of MoU/co-operation mentioned in this MoU. If there is any financial consideration, it will be dealt separately.
7. Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required.
8. The Parties shall be responsible for their respective expenses; neither Party shall be responsible to the other for any loss, cost, expense, or damages, whether direct, indirect, consequential, or incidental.
9. Each Party shall protect the confidentiality of proprietary information and trade secrets received from or supplied to the other Party during the period of this MOU or other agreement made a permanent attachment to or extension of this MOU.
10. The Parties shall continue to protect the confidentiality of proprietary information and trade secrets of one another, which shall survive any termination of this MOU.

IN WITNESS WHEREOF the parties hereto have executed the MEMORANDUM OF UNDERSTANDING as of the duration written above.


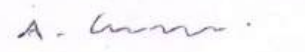
For Party I

  
11/02/2022

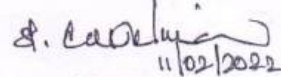
The Registrar

PERIYAR MANIAMMAI INSTITUTE OF  
SCIENCE AND TECHNOLOGY  
THANJAVUR  
Tamilnadu

Witness

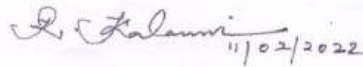
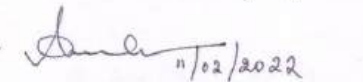
1.   
11/02/2022
2. 

For Party II

  
11/02/2022

The Head

BON SECOURS COLLEGE FOR WOMEN  
THANJAVUR  
Tamilnadu

1.   
11/02/2022
2.   
11/02/2022

Dr. Balakumar Pitchiah was invited as a guest speaker at the Research and Development Cell of Bon Secours College Thanjavur for the topic “**Demystifying the intricate process of scientific writing and superlative publishing in High-Impacts WoS-SCIE Journals**”

**BON SECOURS COLLEGE FOR WOMEN**  
*Accredited with 'A++' Grade by NAAC in cycle II*  
*Affiliated to Bharathidasan University, Tiruchirappalli*  
*UGC Recognized 2(f) and 12(B) Institution*  
*Nilar Bypass, Thanjavur - 613006*

**Research and Development Cell**  
*Organizes a*

**Demystifying the intricate process of Scientific Writing and  
Superlative Publishing in High-Impact WoS- SCIE  
Journals**

**on**  
**16<sup>th</sup> September, 2023**

**Dr. Balakumar Pitchi, M. Pharm, Ph.D**  
Professor & Director  
Research Training & Publications  
Periyar Maniammai Institute of Science &  
Technology (Deemed to be University)  
Vallam, Thanjavur

**Presidential Address:**  
Dr. S. Gayathri  
Principal  
Bon Secours College for Women  
Thanjavur

**Organizing Secretary**  
Dr. S. Sivasubajani  
R & D Co-ordinator  
Bon Secours College for Women  
Thanjavur

**Patron:**  
Rev. Sr. Theodosia Mary  
Director  
Bon Secours College for Women  
Thanjavur



தமிழ்நாடு தமிலநாடு TAMIL NADU

13.4.2023

Periyar Maniammai Institute of  
Science & Technology, (PMIST)  
(Deemed to be University)  
Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.

RS. 20/-

22AC 440895

A. Cavitharan  
ஆ.கவிதாமணி  
முத்தியர்தான் விற்பனையாளர்  
காமராஜ் பேரூந்து நிலையம்,  
வல்லம், தமிழ்நாடு  
உரிமம் எண் - 1/2012

### Memorandum of Understanding

(MoU)

Between

PERIYAR MANIAMMAI INSTITUTE OF SCIENCE AND TECHNOLOGY,

(DEEMED - TO - BE- UNIVERSITY)

VALLAM - THANJAVUR, TAMILNADU - 613403

AND

TAMILNADU FOREST DEPARTMENT

THANJAVUR DIVISION

TAMILNADU - 613403

FOR THE

Collaboration and Coordination Commitment on Developing Sustainable Environment  
and Climate Change at Thanjavur Region

The Memorandum of Understanding (MoU) is signed between the Periyar Maniammai  
Institute of Science and Technology (here after called PMIST), Vallam-Thanjavur,  
Tamilnadu and Tamilnadu Forest Department - Thanjavur Division,

205

MoU signed between PMIST and Tamilnadu Forest Department  
Thanjavur Division- Page1

**CLAUSE 1 CO-OPERATION**

- 1.1 Both Parties are united by common interests and objectives, and they shall establish co-operation.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities.
- 1.3 The parties shall co-operate with each other and shall as promptly as is responsibly practical, relevant agreement.

**CLAUSE 2 SCOPE OF THE MoU**

- 2.1 PMIST and Thanjavur Forest Division of Tamilnadu Forest Department agreed to mutually facilitate and jointly foot forward various events towards sustainable environment development and climate change.

**CLAUSE 3 VISION and MISSION OF THE MoU**

**Vision of the MoU is Sustainable Development of Environment and Climate Change.**

**Mission of the MoU are follows:**

- To carry out Afforestation programmes in and around Thanjavur Region
- To celebrate and create awareness among public in
  - 3.1 World Environment Day (June 5)
  - 3.2 World Bamboo Day (September 18)
  - 3.3 World Earth Day (April 22)
  - 3.4 World Forest Day (March 21)
  - 3.5 Palk Bay Ecosystem
  - 3.6 Wildlife Week (Sep 1 week) and others Important days
  - 3.7 Internship and career guidance to the PMIST students Knowledge sharing on
  - 3.8 continual improvement of Environmental system
  - 3.9 Knowledge and Resource Utilization
  - 3.10 There is no financial commitment on both the parties to take up any program / activities mentioned in the scope of the MoU / Cooperation mentioned in the MoU. If there is any financial consideration it will be dealt separately.

The authorities of contacts for this cooperation are Dr.P.K.Srividhya, Registrar, PMIST, Thanjavur, Tamilnadu for PMIST and District Forest Officer, Thanjavur Division of Tamilnadu Forest Department, Tamilnadu for Thanjavur Forest Division.

  
**Dr. P.K. SRIVIDHYA,**  
REGISTRAR,  
Periyar Maniammal Institute of  
Science & Technology (PMIST),  
(Deemed to be University),  
Periyar Nagar, Vallam,  
Thanjavur, Tamil Nadu.

  
**District Forest Officer,**  
Thanjavur Division,  
Thanjavur

MOU with Tamilnadu Forest Department Thanjavur Division, Experts from PMIST is invited as Expert forum discussion and addressing to government bodies on the District Level Climate Change mission jointly organized by Taminadu Environment and Climate Change Tamilnadu Climate Change Mission. Hereby Dr.A.Ashokkumar Associate Professor Department of Biotechnology is invited as Expert speaker to present in the topic “Effect of Climate Change and Adaptive Solution for Thanjavur District” Conducted on 1<sup>st</sup> November 2023 at Thanjavur District collectorate office.



**DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE,  
TAMIL NADU CLIMATE CHANGE MISSION**

**DISTRICT CLIMATE CHANGE MISSION,  
Thanjavur DISTRICT**

TIME	PROGRAMME
9.30 am onwards	Registration "Tamil Thai Vaazhthu"
	Welcome Address Thiru. Akhil Thampai I.F.S., District Forest Officer, Thanjavur
10.00 – 10.45 am	Context Setting Tmt. L. Sowmiya Deputy Director, Department of Environment and Climate Change
	Inaugural Address Thiru. Deepak Jacob I.A.S., District Collector, Thanjavur
	Screening of TNCCM short film DoE&CC Team
10.45 – 11.00 pm	Demystifying the Concept of Climate Change and Climate Change Technicalities Thiru. P. Lokesh Poovulagin Nanbargal
11.00 – 11.10 pm	Tea Break
11.10 – 11.30 pm	Combating Climate Change in Tamil Nadu Thiru. P. Prabakaran Project Associate, TNCCM

01<sup>st</sup> NOVEMBER 2023  
117, 1<sup>st</sup> FLOOR MEETING HALL, DISTRICT COLLECTORATE  
THANJAVUR




11.30 – 11.45 pm	Climate Change Vulnerability and District Profile of Thanjavur District Dr. S. Pavithrapriya Project Scientist, Climate Studio, Anna University
11.45 – 12.00 pm	Water Resources , scarcity and Management Practices for Thanjavur Dr. J. Saravanan Environmental Expert , WAPCOS Limited
12.00 – 12.15 pm	Role of Green Tamil Nadu Mission & Tamil Nadu Wetland Mission in Combating Climate Change Thiru. Akhil Thampai I.F.S., District Forest Officer, Thanjavur
12.15 – 12.30 pm	Watershed management & Wetland Ecosystem Restoration to tackle climate change Dr. Nimal Raghavan Mega Foundations , Thanjavur
12.30 – 12.45 pm	Effect of climate change & Adaptive solution for Thanjavur District Dr. Ashok kumar Annadurai. Assoc. prof., Biotechnology Periyar Maniammai Institute of Science & Technology, Thanjavur
12.45 – 1.00 pm	Enhancing adaptive capacity of coastal communities to tackle climate change Dr. V. Selvam Executive Director , SPEED Trust
1.00- 1.15 pm	Impacts of climate change on coastal Ecosystem in Thanjavur District & its Mitigation strategy Dr. V. Balaji Director , OMKAR Foundation , Thanjavur
1.15 – 1.25pm	Purview of District Climate Change Action Plan and Stakeholders Consultation Dr. R. Prasanna Venkatesh Climate Change Expert, Tamil Nadu Green Climate Company
1.25 – 1.30 pm	Concluding Remarks & Vote of thanks



MOU with Tamilnadu Forest Department Thanjavur Division, Wild Life Week celebration was jointly organized in PMIST campus on 5<sup>th</sup> October 2023. Inter-school & college competitions were conducted and the District Forest Officer and Vice Chancellor of PMIST distributed cash prizes with certificates.



**TAMILNADU FOREST DEPARTMENT**  
THANJAVUR FOREST DIVISION

Jointly with  
**VEERAMANI MOHANA CENTRE FOR QUALITY LIFE ENGINEERING RESEARCH (VMCQLER), PMIST.**

**DRAWING & PAINTING CLUB, PMIST.**      **WRITERS AND DEBATERS SOCIETY, PMIST.**

**Drawing Competition (College & school level)**  
Theme: 'Marine Life & Mysteries'  
No Entry Restrictions.  
Only Drawing Sheets will be provided

**Quiz Competition (College level)**  
Theme: 'The Marine Life'  
2-Members per team  
3- Teams Per university

**CASH PRIZES!**

FIRST PRIZE :RS.5000  
SECOND PRIZE :RS.3000  
THIRD PRIZE :RS.2000

**WILDLIFE WEEK CELEBRATION 2023**  
EVENT DATE & TIME :5/10/2023 & 10.00 AM  
VENUE: VALLUVAR HALL, PMIST.  
PRIZE DISTRIBUTION - 3.00 PM @ PMIST, VALLAM.









தமிழ்நாடு தமிலநாடு TAMIL NADU

8.9.2023

Periyar Maniammal Institute of  
Science & Technology (PMIST),  
(Deemed to be University),  
Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.

RS. 20/-  
30AC 884369  
A. Lavitharan  
ஆ.கவிதாமணி  
முத்திரைதாள் நிறுபனைபாரணம்.  
காமராஜ் பேருந்து நிலையம்.  
வலைம். தமிழ்நாடு.  
உரிமம் எண் - V2012

#### Memorandum of Understanding

Between

Periyarmaniammai institute of Science & Technology, (Deemed to be University)  
Vallam – Thanjavur, Tamilnadu

and

M/s ARD Biotech 857, C.C. Road, R. Kunnathur X Road, Polur - 606 803,  
Tiruvannamalai District, Tamil Nadu.

The Memorandum of Understanding (MoU) is signed between the Periyar Maniammai Institute of Science & Technology (PMIST) (here after called as PMIST), Vallam-Thanjavur, Tamilnadu and M/s ARD Biotech, Tiruvannamalai, Tamilnadu.

#### Objectives of the MoU

PMIST and M/s ARD Biotech Tiruvannamalai, Tamilnadu agreed to mutually facilitate and jointly foot forward various events towards sustainable environment development through collaboration Research.

The vision of the MoU is Sustainable Development of the Environment.

The mission of the MoU is as follows:

- Mutually helping to carry over the environment related projects
- Collaboratively work on product development from wastes
- Mutually sharing of available resources and facilities on both sides.
- Internship and career guidance to the PMIST students
- Knowledge sharing on continual improvement of Environmental system

No financial commitment assured both sides, in case of any financial commitment needs that will be dealt with on a separate case basis.

MoU will be continued until either side approaches to break up by mutual consent in one month of the notice period.

The authorities of contact for this cooperation are Dr.P.K.Srividhya, Registrar, PMIST, Thanjavur, Tamilnadu and Mr. P. Annadasan, Managing Director for M/s ARD Biotech Tiruvannamalai, Tamilnadu.

**Registrar**  
Periyar Maniammai Institute of Science  
& Technology  
(Deemed to be University)  
Periyar Nagar, Vallam-Thanjavur - 613403  
Tamilnadu, India

**Managing Director**  
M/sARD Biotech  
857, C.C. Road, R. Kunnathur X Road,  
Polur - 606 803, Tiruvannamalai District,  
Tamil Nadu, India

**Dr. P.K. SRIVIDHYA,**  
REGISTRAR,  
Periyar Maniammai Institute of  
Science & Technology (PMIST),  
(Deemed to be University),  
Periyar Nagar, Vallam,  
Thanjavur - 613 403, Tamilnadu.

Witness

1.   
(Dr. S. KUMARAN)
2.   
(Dr. S. APPAN)

Witness

1.   
Dhivipon A.R
2.   
Dr. A. ASHOKKUMAR

**ARD BIO TECH**  
857, C.C. Road,  
R. Kunnathur X Road,  
POLUR-606803.  
Tiruvannamalai District  
Tamil Nadu.

Place: Vallam

Place: Vallam

Date: 16-12-2023

Date: 16-12-2023



MOU signed with ARD Biotech Industries Thiruvannamalai on 8<sup>th</sup> September 2023. Based on the MOU the ARD Biotech agri related products are validating in the organic farm of PMIST.





தமிழ்நாடு தமில்நாடு TAMIL NADU 09/11/2023.

26AC 173248



சுத்திகரத் தான் சித்பலசயனார்  
 வட்டாட்சியர் அலுவலகம், தஞ்சாவூர்  
 தமிழ்நாடு உரிமம் எண்: 46/92  
 செல்: 94430 75082

Agreement made on the 04 (Day) of DECEMBER (Month) of 2023 (Year)

Between

"Medicare Enviro Systems" is a partnership firm having its facility at Survey No.208 & 209, Ayyothipatti road, Sengipatti Village, Thanjavur District and having its office at MIG-270, New housing unit, Pudukottai Road, Serfoji college post, Thanjavur-613005 herein after called as Medicare represented by, Mr.R.Shantharam, partner and authorized signatory.

And

M/S PERIYAR MANIAMMAL INSTITUTE OF SCIENCE AND TECHNOLOGY, Periyannagar, Vallam, Thanjavur - 613403  
 Agreement Reference Number..... PM101/TJ0218B/1167  
 herein after called as Member represented by Mr/Mrs Prof. Dr. P. K. SRINIDHYA  
 Designation Registrar



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8191



MoU signed between PMIST and Medicare Enviro System, Sengipatti Thanjavur.- Page1

Whereas **Medicare** has setup a common facility in accordance with the Bio medical wastes (management & Handling) rules,1998 for collection ,transport, treatment and disposal of the Bio medical waste generated by the Health Care Establishment ( **HCE's** – Hospitals, Nursing homes , Clinics, Diagnostics centre, Dental Clinics, Laboratories... etc.,)

Whereas M/s. Periyar Maniammai Institute of Science & Technology, Vallam  
Who is Member of the **IMA**; Thanjavur..... agrees to be a member of "**Medicare**" for collection, transportation, treatment and disposal of Bio medical waste generated by the **HCE's** on a user-pay-principle upon mutually agreed terms and conditions mentioned in this agreement

Whereas Periyar Maniammai Institute of Science & Technology, Vallam  
has Laboratories Hospital with 8 beds. Medicare/**T.N.P.C.B.** will make periodic inspections regarding the number of beds. If any controversy arises regarding the correctness of the numbers of beds, this will be subject to scrutiny by a joint committee of Medicare & **IMA Thanjavur**..... to decide on the actual bed strength. Then the member will have to pay a penalty for the newly arrived bed strength, from the date of agreement.

Whereas Medicare offers to provide service to M/S Periyar Maniammai Institute of Science & Technology, Vallam on a user pay principle for collection, transport, treatment and disposal at the rate of **Rs.10.00/-**,per bed per day with an Deposit Amount equalent to the payment for 45 days. On full Bed strength basis irrespective of the occupancy for health care Establishment (member). Charges will be on monthly basis and irrespective of number of days waste collected. Price per day is indicated only for calculating purpose to arrive monthly billing and to accommodate variations / alteration in bed strength and do not relate to number of days serviced. (All Government Taxes extra).

Collection of Bio-Medical waste from the Member will be calculated as per W.H.O and IMA norms. If it exceeds the weight (per bed/per day > 250 grams) then the Invoice will be calculated by weight basis @**Rs.40/-** per Kg. If < 250 grams per day/per bed charges will be on per bed/day basis (Agreement Bed Strength).

Whereas Periyar Maniammai Institute of Science & Technology, Vallam agrees to joint Medicare, the terms and conditions for this agreement are listed below.

01. Member should get the authorization from T.N.P.C.B.
02. Member shall pay the Documentation Charges of **Rs.500/-** (In addition of 18% GST is applicable)
03. Member shall pay 45 days charges as Deposit Amount to Medicare.



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**MoU signed between PMIST and Medicare Enviro System, Sengipatti  
Thanjavur.– Page2**

04. During agreement period treatment charges and cost of the color-coded bags will be revised according to the hike of petroleum products.

05. **Monthly** charges will be minimum of **Rs.1,800/-** (for OP Clinic only). In addition of 12% GST is applicable )

06. Whereas *Persar Maniammai Institute of Science & Technology* shall segregate the waste in accordance with the MOEF( Ministry of Environment and forest) rules laid under the Bio Medical wastes (Management and Handling) rules 1998, with latest amendment 2016, under the aegis of Environment(Protection) ACT 1986.

07. Medicare will Collect Bio Medical waste regularly and treat the waste as per the CPCB/TNPCB norms. **Medicare will not collect any waste that is not segregated properly.**

08. Municipality (General waste) and Kitchen waste will not be collected by Medicare.

09. If the member desires, the initial training about segregation and collection of waste in color coded bags, Medicare shall be provided training for free of cost.

10. The member shall collect the segregated wastes in standard, color barcoded bags, only.

11. Member should purchase Color coded Bags with Barcoding from Medicare ONLY. If not the color-coded bags with waste will not be collected by Medicare.

12. Medicare shall distribute standard color-coded bags from its sister concern Medicare Enterprises, Bag sizes "18 X 20" = Rs. 5.00/- per bag, "24 X 26" = Rs. 8.00/- per bag, "26 X 30" = Rs. 12.00/- per bag. (Rate per Bag Red, Yellow, Blue & Green excluding GST applicable as per Government Norms). **Bag and Bin payments** should be paid in the name "**Medicare Enterprises**" by Demand Draft or Cheque, **No Cash Payment.**

13. All the bags shall be sealed and collected at designated point in the hospital mutually agreed by both the parties.

14. Medicare shall collect wastes from the hospitals at times and frequency mutually and reasonably agreed by both parties.

15. In case Medicare fails to collect waste within 24 hours of previous collection the member shall inform to Medicare and the same shall be cleared within the next 24 hours.

16. Medicare shall be liable for any violation under the Bio medical waste (Management & Handling) rules, 1998 from the time the waste is handed over to Medicare.

17. Medicare shall meet all the rules and regulations stipulated by the Tamilnadu Pollution Control Board & CPCB



MoU signed between PMIST and Medicare Enviro System, Sengipatti  
Thanjavur.- Page3

18. For **Bio-Medical Waste collection, Transport and Disposal**, Payments shall be drawn in favor of "**Medicare Enviro Systems**" in the form of Demand draft or Cheque, payable at Thanjavur. **MEDICARE IS NOT RESPONSIBLE FOR ANY CASH PAYMENTS.**

19. **DD or Cheque** for the monthly billing should reach Medicare's Thanjavur office on or before 5<sup>th</sup> of every month without fail.

20. Payments made after 5<sup>th</sup>, shall attract a penalty of **Rs.30/-per day**.

21. **Returned Cheque shall be charged Rs.200/-extra** in addition to the actual bank charges ( In addition of 18% GST is applicable ).

22. Medicare shall stop services if payments are not received by 15<sup>th</sup> of the month and the matter will be informed to the **T.N.P.C.B.** as non-co-operation.

23. If the Member made on agreement with Medicare the member start services immediately otherwise the agreement made Medicare will cancelled automatically. If member stops the services of Medicare without proper intimation, matter will be informed to TNPCB for canceling the BMW Authorization given to the Health Care Establishment.

24. Any changes in rules, dispute and hike in charges etc., will be sorted out by a joint committee of Medicare and **IMA** .....*Thanjavur*.....

25. If it is a Diagnostics centre, liquid waste should be disposed by the member itself.

26. If any Expired Medicines, Capsules not to include regular waste and to be informed to us with proper letter contains a detail of Medicines/Capsules.

27. Biopsy Waste will be collected by weight basis and Invoice will be calculated @ **Rs.67/-per Kg** on a monthly basis.

28. Renewal of agreement will be made only, after **cleared the pending payments of the previous bills.**

29. Medicare Enviro Systems is authorized by TNPCB (**Authorization No. BMW-0004**) dated **21.05.2003** to transport, Collect, Treat and End Disposal of Bio-Medical Waste from **8 Districts** (Trichy, Thanjavur, Pudukottai, Sivagangai, Nagapattinam, Tiruvarur, Ariyalur and Mayiladuthurai Districts)





30. Both the Parties **MEDICARE & MEMBER** will have an **Individual Original Agreement** for their future reference.

31. This Agreement is valid only for collection of solid Bio-Medical Waste from the **Members**.

32. Member during the Agreement period shall not enter into any other agreement with any other Organization for Bio-Medical Waste Collection, Transport, Treatment and Disposal.

Whereas Medicare undertakes to collect, transport, treat and dispose the Bio medical wastes, Member shall undertake to adhere to this contract of services by Medicare for minimum period of **THREE** years and the Agreement should be renewed immediately.

33. As per 47<sup>th</sup> GST Council meeting held on 28<sup>th</sup> and 29<sup>th</sup> June 2022 and related press release, GST @12% is chargeable extra over and above existing monthly w.e.f. 18<sup>th</sup> July 2022 for collection, treatment and disposal of Bio-Medical Waste monthly Billing.

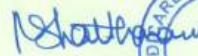
For Member



Authorized Signatory



for Medicare Enviro Systems



Authorized Signatory



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MoU signed between PMIST and Medicare Enviro System, Sengipatti  
Thanjavur.- Page5

MOU signed with Medicare Enviro System Sengipatti a Biomedical Waste Management Industry on December 4, 2023. The various waste on PMIST hospitals and Laboratories are handled through the company, and the staff incharge of PMIST are trained to handle the medical and laboratory waste. Also the incinerated Biomedical waste is taken from Medicare Enviro System for circular economy research in the Biotechnology Department.





தமிழ்நாடு TAMIL NADU

13.4.2023

Periyar Maniammai Institute of Science & Technology, (PMIST) (Deemed to be University) Periyar Nagar, Vallam, Thanjavur-613 403, Tamilnadu.

22AC 440910  
H. Cavitharan  
ஆ. கவிதாரசனி  
முத்திரைதான் விடுபடவேண்டும்.  
கமராஜ் சேலமுத்து சிகையா.  
வல்லம், தர்மபுரம்.  
உயிர் எலக்ட் - 1/2012

MEMORANDUM OF UNDERSTANDING


BETWEEN

PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY

AND

SINGAPORE SOUTH ASIA CHAMBER OF COMMERCE AND INDUSTRY

This Agreement made and entered into on this 17<sup>th</sup> day of August, 2023 between Periyar Maniammai Institute of Science and Technology (Deemed to be University), (here in after called PMIST) situated at Periyar Nagar, Vallam, Thanjavur - 613403, Tamil Nadu, India, and Singapore South Asia Chamber of Commerce and Industry (hereinafter called "SSACCI" or "Chamber") which expression shall include its successors and permitted assignees) with its registered office at 105 Cecil Street, #11-00 The Octagon, Singapore 069534.

  
Registrar,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.



### 1. OBJECTIVES OF THE MOU

The objective of this Memorandum of Understanding is:

- a. to promote interaction between PMIST and SSACCI in mutually beneficial areas.
- b. The interaction between PMIST and SSACCI will give an insight into the latest developments /requirements of the industries. SSACCI and its group companies will permit the Faculty and Students of PMIST to visit its facilities and also involve in Industrial Collaborated Programs with PMIST. The programs and exposure provided to students through this association will build confidence and prepare the students to have a smooth transition from academic to working career. Both parties will provide their Workshops/ Industrial Sites for the hands-on training of the learners coming under the scope of the MOU.

### 2. PROPOSED MODES OF COLLABORATION

PMIST and SSACCI propose to collaborate through

- a. Sponsoring student projects / internships in three-year UG Commerce Programs, two-year M.Com and other degree programs at PMIST.
- b. Conducting virtual/hybrid/offline conferences,
- c. Knowledge sharing sessions with industry, academia and practicing professionals,
- d. Sourcing of Resource personals for the events conducted by PMIST and SSACCI,
- e. Involving PMIST faculty in various activities officially conducted by SSACCI in India.
- f. Sponsoring FDPs, Case Competitions which may be carried out wholly at PMIST or at premises of SSACCI or partly at PMIST and partly at SSACCI,
- g. Training of SSACCI associate partners and their personnel through Continuing Education Programs conducted by PMIST in areas of interest to SSACCI,
- h. Any other appropriate mode of interaction agreed upon between PMIST and SSACCI.
- i. Appointment of SSACCI member as Adjunct Professor for sharing best practices from Singapore with PMIST students and faculties

Each of the above modes of interaction will be initiated by entering into a separate agreement between the two parties.

PMIST and SSACCI shall individually be referred to as Party and collectively as Parties.

### 3. FORMS OF RESEARCH AND DEVELOPMENT PROGRAMS

The form of any of the said Research and Development Program (herein after referred to as "Research Program") will be subject to a separate Research Agreement entered into by the Parties but may also include the following:

Registrar,  
Pariyar Manjammal  
Institute of Science & Technology,  
(PMIST), Pariyar Nagar, Valluvar,  
Thanjavur-613 403, Tamilnadu.



- a. In their own existing facilities - The performance of research individually by each Party or concurrently by both Parties along with associate members of SSACCI in mixed groups at their own facilities with regular exchanges of results.
- b. In a separate research and development facility - The performance of research by the technical personnel of both Parties working together in the facilities of one Party or in mixed groups at the facilities supported/ sponsored by either Party.
- c. Third parties - The performance of research by the Parties together with one or more third parties.

#### 4. TECHNICAL AREAS OF COLLABORATION

The principal areas of collaboration between PMIST and SSACCI will be as set out in Annexure A.


#### 5. AGREEMENTS FOR RESEARCH COLLABORATION

Each research collaboration undertaken by the parties hereunder shall be initiated by the signing of a separate research agreement between the parties, which will describe in detail:

- a. The nature, scope and schedule of the research collaboration.
- b. The form of the research collaboration.
- c. The estimated cost of the research collaboration together with the amount of funding, if any, to be received from third parties.
- d. The treatment of intellectual property and data rights, including patents, industrial design registration, copyrights and all other proprietary information (including innovations not patented, designs not registered etc.) which result from the research collaboration, or which belong to a party and are used in research collaboration.
- e. Other provisions as may be mutually agreed upon, including provisions covering the consequences of default or termination by a participant, term, arbitration of disputes and applicable law.

#### 6. CONFIDENTIALITY

- a. During and for a period of three years (17-08-2023 to 17-08-2025) from the date of disclosure, each party agrees to consider as confidential all information disclosed by the other party in written or tangible form or, if orally disclosed confirmed in writing within thirty days of disclosure and identified as confidential by the disclosing party.
- b. The obligations above shall not extend to any confidential information for which the receiving party can prove that this information:
  - i. Is in the public domain at the time of disclosure or comes within the public domain without fault of the receiving party.
  - ii. Is already known or become known to the receiving party
  - iii. Is received from a third party having no obligations of confidentiality to the disclosing party,
  - iv. Is independently developed by the receiving party; or
  - v. Is required to be disclosed by law or court order

  
Registrar,  
Periyar Maniammai  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.





7. NON-EXCLUSIVITY

The relationship of the parties under this MOU shall be nonexclusive and both parties, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular research agreement, the participants may agree to limit each party's right to collaborate with others on that subject.

8. TERMS AND TERMINATION

This MOU, unless extended by mutual written agreement of the parties, shall expire 3 years after the effective date specified in the opening paragraph. This MOU may be amended or terminated earlier by mutual written agreement of the parties at any time. Either party shall have the right to unilaterally terminate this MOU upon 60 days prior written notice to the other party. However, no such early termination of this MOU, whether mutual or unilateral, shall affect the obligations of the participants under any Research Agreement, Confidentiality clause as referenced in clause 6 above, or any other agreement entered into pursuant to this MOU, which obligations shall survive any such termination.

9. JURISDICTION

In case of any disputes arises between the parties, both parties shall try to settle the dispute amicably. In case the dispute cannot be settled amicably, and the matter leads to legal remedy, in that case jurisdiction of Madras, Tamil Nādu courts only shall be applicable to both the parties.

Any disagreement/ difference of opinion/ dispute between the Parties regarding the interpretation of the provisions of this MOU or otherwise arising from this MOU and the activities undertaken under this MOU shall be resolved by mutual consultation by the Parties. For any dispute unresolved for a period not exceeding thirty (30) days, reference shall be made under the provisions of the Arbitration and Conciliation Act, 1996 or any statutory modification / re-enactment thereof and rules made there under. The Arbitration Tribunal shall comprise of three arbitrators, one each to be appointed by both the parties and the third arbitrator shall be jointly appointed by the arbitrators so appointed.


The place of arbitration shall be Chennai and the proceedings shall be conducted in English language. The award of the arbitrators shall be binding on both the parties.

10. RELATIONSHIP

Nothing in this MOU shall be construed to make either party a partner, an agent or legal representative of the other for any purpose.

11. ASSIGNMENT

It is understood by the Parties herein this MOU is based on the professional competence and expertise of each party and hence neither Party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party.

  
Registrar,  
Periyar Maniammal  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.



## 12. COSTS OF THE MOU

Each Party shall bear the respective costs of carrying out the obligations under this MOU.

This MOU will be governed by and construed in accordance with the laws of India.

## 13. FORCE MAJEURE

Neither party shall be held responsible for non-fulfillment of their respective obligations under this agreement due to the exigency of one or more of the events such as but not limited to acts of God, war, floods, earthquakes, strike, lockouts, epidemics, riots, civil commotion, etc., provided on the occurrence and cessation of any such events, the party affected thereby shall give a notice in writing to the other party within one month of such occurrence or cessation. If the force-majeure conditions continue beyond six months, the parties shall then mutually decide about the future course of action.

## 14. IPR


Any intellectual property (IP) rights owned or controlled by a Party prior to subsequent formation of this MoU shall always remain as the legal and absolute property of the Party owning or controlling it. Nothing constrained herein shall be construed as giving the other party any license or rights with respect to such intellectual property rights. Any such IP rights shall be specifically and separately agreed upon between the Parties in writing in Project Agreements.

For the purposes of this MoU and all services to be provided here under, each Party shall be, and shall be deemed to be, an independent contractor and not an agent or employee of the other Party. Neither Party shall have authority to make any statements, representations or make commitments of any kind, or to take any action.

Each provision contained in this MoU is declared to constitute a separate and distinct covenants and provisions. It is agreed that should any clause, condition or term, or any part thereof, contained in this MoU be unenforceable or prohibited by law or by any present or future legislation then:

Such clause, condition, term or part thereof, shall be amended, so as to be in compliance therewith the legislation or law;

If such clause, condition or term, or part thereof, cannot be amended so as to be in compliance with the legislation or law, then such clause, condition, term or part thereof shall be severed from this MoU and all the rest of the clauses, terms and conditions or parts thereof contained in this MoU shall remain unimpaired.

  
Registrar,  
Periyar Maniammal  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Vellore,  
Thanjavur-613 403, Tamilnadu.



15. SIGNED IN DUPLICATE

This MOU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity.

BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

On behalf of

PMIST

By :

Name :Dr.P.K.Srividhya

Title : Registrar

Date : 17.08.2023

*[Signature]*  
Registrar,  
Periyar Maniammal  
Institute of Science & Technology  
(PMIST), Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnadu.

Witness :

1. *[Signature]*  
Dr.N.Jayanthi,  
Head of the Department of Commerce

2. *[Signature]*  
Dr.S.Appau alias Balamurugan,  
Professor, Department of Computer  
Science and Engineering,

SSACCI

By :

Name : Dr. Chinnu Palanivelu

Title : CHAIRMAN

Date : 17.08.2023

Witness :

1. *[Signature]*  
Dr. B. Ramanathan, Vice Chairman,  
SSACCI

2. *[Signature]*  
Dr.C.Sathya Priya,  
Executive Director, SSCI  
Director Sponsored Research & MOI





**ANNEXURE A : TECHNICAL AREAS OF COLLABORATION**

**Research Partnering**

1. Research collaboration with the partnering universities
2. Faculty interactions on contemporary research areas
3. Collaborating in Research and Consultancy

**Industry Partnering**


1. Faculty internships (virtual/hybrid)
2. Faculty training at the industry
3. Consultancy opportunities with the industry
4. Conduct specialized and customized MDPs/Staff Development Programs to the industry persona.

**Faculty Development**

1. Conduct FDPs and improvement programs for both in-house and external faculty members
2. Faculty exchange programs
3. Appointment of SSACCI members as adjunct professor of the university

**Student Development**

1. Conduct Seminars/ Conclave/ Workshops/ Hackathons to engage students
2. Virtual internships for UG & PG students of Commerce for a period of 3 months
3. Conduct case competitions
4. Industry conclave (Knowledge sharing platform with industry experts)
5. To conduct commerce hack-a-thons.

  
Registrar,  
Periyar Maniammal  
Institute of Science & Technology,  
(PMIST), Periyar Nagar, Valluvar,  
Tamil Nadu-613 403, Tamil Nadu.

## **Department of Commerce**

Periyar Nagar, Vallam Thanjavur - 613 403, Tamil Nadu, India.

Email: headmsc@pmu.edu Web: www.pmu.edu

Phone: +91 – 4362 – 264600, Fax: +91 – 4362 - 264660



# **EVENT REPORT**

**Guest Lecture on**

## **“International Financial Reporting”**

**Resource Person**

**Dr. Chinnu Palanivelu**

B.Acc (Hons), MBA.DBA,D.Litt.

CA (Singapore, England & Wales)

CPA (Australia), FCCA,

CMA, CFE

Managing Partner.

**Date: 17.08.2023**

**Time: 11.00 am to 1.00 pm**

**Venue: Einstein hall**

<b>S. NO</b>	<b>CONTENTS</b>	<b>PAGE NO.</b>
1.	Objectives of the programme	1
2.	Brochure	2
3.	Report	3
4.	Event Photos	4
5.	Participants List	5

## **OBJECTIVES OF THE PROGRAMME:**

The Guest Lecture on International Financial Reporting is organized with the following objectives:

- To equip students with a thorough understanding of International Financial Reporting Standards (IFRS) and their application in global financial reporting practices.
- Enable students to analyze, interpret, and present financial statements in compliance with international standards, fostering informed decision-making.
- To emphasize the importance of ethical principles in financial reporting and compliance with international regulatory frameworks.
- To equip students with the skills and knowledge required to pursue careers in international accounting, auditing, and financial management.
- To bridge the gap between theoretical knowledge and practical application through case studies, simulations, and real-world examples.

**Brochure:**



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Think • Innovate • Transform



## DEPARTMENT OF COMMERCE

Organises

Guest Lecture

On

### "International Financial Reporting"



**Dr.Chinnu Palanivelu**  
B.Acc (Hons), MBA, DBA, D.Litt.  
CA (Singapore, England &  
Wales) CPA (Australia), FCCA,  
CMA, CFE  
Managing Partner.

Date : 17.08.2023

Time : 11.00am to 1.00pm Venue : Einstein Hall

Periyar Maniammai Institution of  
Science and Technology  
(Deemed to be University)  
Periyar Nagar, Vallam,  
Thanjavur 613403  
Tamil Nadu, India

For more details, visit  
[www.pmu.edu](http://www.pmu.edu)  
[headcommerce@pmu.edu](mailto:headcommerce@pmu.edu)

**Coordinator**  
Dr.S.Prabhu,  
Assistant Professor- Commerce

## REPORT

The Department of Commerce, Periyar Maniammai Institute of Science and Technology took a significant step towards achieving its objective of equipping students with global financial expertise by organizing a guest lecture on "International Financial Reporting." Held on August 17, 2023 in the Einstein Hall from 11:00 am to 1:00 pm, this event reinforced the department's commitment to enhancing students' understanding of international financial reporting standards (IFRS) and their practical application in the global marketplace.

Dr. N. Jayanthi, Associate Professor and Head of the Department of Commerce, warmly welcomed the gathering and provided an insightful introduction to the resource person, Dr. Chinnu Palanivelu.

The session was delivered by the eminent **Dr. Chinnu Palanivelu**, whose exceptional academic and professional qualifications align perfectly with the program's objectives. Dr. Palanivelu, a Chartered Accountant certified in Singapore, England, and Wales, as well as a Certified Practising Accountant (CPA) in Australia, holds advanced degrees, including a DBA and D.Litt. As a Fellow of the Association of Chartered Certified Accountants (FCCA), a Certified Management Accountant (CMA), and a Certified Fraud Examiner (CFE), his expertise provided attendees with real-world insights into the complexities of international financial reporting.

During the lecture, Dr. **Chinnu** addressed the program's core objective of fostering **comprehensive knowledge of international standards** by offering a detailed overview of IFRS. He emphasized their role in promoting transparency and comparability of financial statements globally, aligning with the aim of supporting **strategic decision-making** in multinational organizations.

The session also aimed to **integrate theory with practice**, as Dr. **Chinnu** discussed real-world applications of IFRS, the benefits of adopting these standards, and the challenges faced by organizations. His insights into the evolving nature of financial reporting encouraged students to embrace continuous learning and adapt to changes, fulfilling the program's goal of preparing students for **global careers in accounting and finance**.

The interactive Q&A session that followed allowed students to delve deeper into the subject, promoting **analytical and interpretative skills**. Students and faculty engaged directly with Dr. **Chinnu**, exploring practical scenarios and addressing their queries about ethical financial reporting and regulatory compliance, further underlining the program's emphasis on **promoting ethical practices**.

Dr. S. Prabhu, Assistant Professor of Commerce, coordinated the event seamlessly, ensuring a rich learning experience for all attendees. This guest lecture was not only a milestone in enhancing the students' **understanding of global financial reporting practices** but also a

testament to the institution's dedication to nurturing skilled professionals capable of thriving in the global marketplace.

**Event Photos:**



Dr. Chinnu Palanivelu addressed the program's core objective of fostering comprehensive knowledge of international standards by offering a detailed overview of IFRS.

**Name list of the Participants:**

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S.No	Register Number	Name
1.	120012153434	SABARISH P
2.	121012153511	ABDUL HALEEM M
3.	121012153512	ABDUL RASHEED J
4.	121012153513	ABDUL WAHAB A
5.	121012153514	ABIMANYU M
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10.	121011153519	CATHERINE ANUSHA L
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58.	122012167009	AJITH KUMAR D
59.	122011167010	DEVIKALA S

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S.No	Register Number	Name
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2.	120012153466	KATHIRAVAN S B
3.	120012153472	MOHAMED JAMSITH A
4.	120012153477	MOHAMED REHANUDEEN B
5.	121012153566	ABDUL BASITH Y
6.	121012153567	ABDULKALAM R
7.	121012153568	ABINASH G
8.	121012153569	ABINASH R
9.	121012153571	AJAY S
10.	121012153572	ARSATH AKTHAR A
11.	121012153573	ARUL SELVAN S
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17.	121012153579	BALASUBRAMANIYAM S
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24.	121012153587	JAMAL MOHAMED A
25.	121012153588	JONES ILAMARAN J
26.	121011153589	KEERTHANA G

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3.	121012171003	ABDUL MOSIN M
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5.	121012171006	AHILESHKUMAR A
6.	121012171007	ANIMESH M
7.	121011171008	ANUSUYA M
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12.	121011171013	DEVISRI Y
13.	121012171014	FAWAZ S
14.	121012171015	FRANKLIN PRABHU A
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55.	121011171061	GAYATHRI K P
56.	121011171062	RITHUYOGASRIEE M
57.	122011177001	JAYA SHEEBA A
58.	122012177002	THIRUNEELAKANDAN M

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5.	121012170068	AFLAL PARVEEZ A
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8.	121012170071	ALFAZITH B
9.	121012170073	ARSATH AHAMED A
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11.	121012170075	ASHWIN S
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18.	121011170082	FOWZUL ENAYA J
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34.	121012170100	MOHAMED YOONUS S
35.	121012170101	MOHAMMED THASLEEM A
36.	121011170102	MATHUMITHA G
37.	121012170103	NIRMALDEEP A
38.	121011170104	PRIYADHARSHINI N
39.	121011170105	RAJALAKSHMI M
40.	121011170107	SABARI AGNES S
41.	121012170108	SANJAI S
42.	121012170109	SHAHUL HAMEED N
43.	121012170110	SIVAMANI A
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47.	121012170115	VEERAMANI M
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54.	121012170122	TAMILARASAN T
55.	121012170123	AATHIKESAVAN S
56.	121011170124	ABINAYA V
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S.No	Register Number	Name
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2.	121012151288	AKASH RAJA V
3.	121011151289	AKSHAYA TRIVEDHI N S
4.	121012151290	ANANDHAPRIYAN S
5.	121011151291	ARUNTHAMIZH P
6.	121011151292	ASHEEN RAKSHANA J
7.	121012151293	BHAVANI SANKARAN S
8.	121011151294	BHUVAJHA V
9.	121012151295	DHARANKUMAR R
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11.	121012151297	DINESH A
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15.	121012151301	GOKULAKRISSHNAN B
16.	121011151302	GOWRI S
17.	121012151303	INAYATHUL FAYAZ M
18.	121012151304	JAM SHEEDH ASLAM J
19.	121011151305	JANANI VIGHITHRA G
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21.	121012151307	JOEL CHRISTAN V
22.	121012151308	KALAIYARASAN P
23.	121011151310	KAVIYA P
24.	121011151311	KIRUTHIKA S
25.	121011151312	KISHAAL D
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27.	121011151314	MADHU M
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29.	121012151316	MOHAIDEEN ABDUL RASHID A
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31.	121012151318	MOHAMED ASHFAK S
32.	121012151319	MOHAMED RIYAS KHAN M

33.	121012151320	MOHAMED SAIFULLAH M J
34.	121012151321	MOHAMED SAMEER S
35.	121012151322	MOHAMED SUHAIB O M
36.	121012151323	MOHANA RHANCHAN R
37.	121011151324	NANDHINI PRIYA A
38.	121012151325	NAVEEN RAJ N R
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43.	121012151330	PRAVEEN S
44.	121011151331	RATHIMEENA R
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47.	121012151335	SATHISH KUMAR M
48.	121012151336	SATHISH S
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50.	121011151338	SHANMUGAPRIYA K
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52.	121012151341	SUHASH G
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56.	121011151345	SWETHA C
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## **EVENT REPORT**

**Guest Lecture on**

**“Startup Business Process and Strategy”**

**Resource Person**

**Dr. B. Ramanathan,**

M.Sc., M.Phil., P.D.C.R., A.C.T.A., QEHS-IAC., Ph.D.,

Founder and Managing Director

ACE international Pte Ltd, Singapore.

Business & Management,

Research & Innovation, Learning & Development

**Date: 17.08.2023**

**Time: 12.00pm to 1.00 pm**

**Venue: Einstein hall**

<b>S. NO</b>	<b>CONTENTS</b>	<b>PAGE NO.</b>
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### **OBJECTIVES OF THE PROGRAMME:**

The Guest Lecture on Startup Business Process and Strategy is organized with the following objectives:

1. To educate the students with a thorough knowledge for building a sustainable startup.
2. To provide the knowledge insights into proven strategies for market entry, customer acquisition, and competitive positioning.
3. To equip the students for develop innovative ideas and creative problem-solving techniques for entrepreneurial success.
4. To explain the importance of various funding options available for startups, financial planning and resource management.
5. To emphasize the significance of building professional networks and leveraging mentorship in the startup ecosystem.
6. Enable students how to develop and implement a strategic business plan tailored to their startup's goals and resources.
7. To insist the students for dealing with uncertainties, risks, and setbacks inherent in the startup journey.
8. To inspire the students to take initiative and begin their entrepreneurial endeavors with confidence and clarity.

## Brochure:



**DEPARTMENT OF COMMERCE**

Organises

**Guest Lecture**

On

**" Startup Business Process and Strategy "**



**Dr. B. Ramanathan, M.Sc., M.Phil., P.D.C.R., A.C.T.A., QEHS-IAC., Ph.D.,**  
**Founder and Managing Director**  
**ACE International Pte Ltd, Singapore.**  
**Business & Management,**  
**Research & Innovation, Learning & Development**

Date : 17.08.2023

Time : 12.00pm to 1.00pm    Venue : Einstein Hall

<p>Periyar Maniammai Institution of Science and Technology (Deemed to be University) Periyar Nagar, Vallam, Thanjavur 613403 Tamil Nadu, India</p>	<p>For more details, visit <a href="http://www.pmu.edu">www.pmu.edu</a> <a href="mailto:headcommerce@pmu.edu">headcommerce@pmu.edu</a></p>	<p><b>Coordinator</b> <b>Dr.D.Umamaheswari</b> <b>Professor Department of</b> <b>Commerce</b></p>
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## REPORT

The Department of Commerce, Periyar Maniammai Institute of Science and Technology took a significant step towards achieving its objective of equipping students with global financial expertise by organizing a guest lecture on "Startup Business Process and Strategy" Held on August 17, 2023 in the Einstein Hall from 11:00 am to 1:00 pm, this event reinforced the department's commitment to enhancing students' understanding of was graced by the esteemed presence of Dr. B. Ramanathan, an accomplished academician and entrepreneur. Dr. Ramanathan is the Founder and Managing Director of ACE International Pte Ltd, Singapore, and an expert in business management, research, and innovation.

Dr. N. Jayanthi, Associate Professor and Head of the Department of Commerce, warmly welcomed the gathering and provided an insightful introduction to the resource person, Dr. B. Ramanathan.

The session was delivered by the eminent **Dr. B. Ramanathan**, whose exceptional academic and professional qualifications align perfectly with the program's objectives. addressing the essential components of the startup ecosystem, emphasizing the importance of identifying market needs, creating innovative solutions, and maintaining financial discipline. His discussion included an analysis of the challenges faced by entrepreneurs, such as funding constraints, competitive pressure, and operational inefficiencies.

During the lecture, began by addressing the essential components of the startup ecosystem, emphasizing the importance of identifying market needs, creating, creating innovation solutions, and maintaining financial discipline. His discussion included an analysis of the challenges faced by entrepreneurs, such as funding constraints, competitive pressure, and operational inefficiencies. He also highlighted the role of adaptability and strategic planning in overcoming these challenges.

One of the takeaways from the session was the importance of research and innovative in driving business success. Dr.Ramanathan shared real-world examples from his entrepreneurial journey and provided actionable insights into effective business planning, risk management and leadership skills.

Dr.D.Umamaheswari, Professor, Department of Commerce, who played a vital role in organising the event and ensuring its success. The event attracted significant participation from students and faculty, reflecting the interest in understanding the importance of entrepreneurship.

## Event Photos



Dr Ramanathan addressed the program's core objective of fostering comprehensive knowledge of Startup Business Process and Strategy and a detailed overview of Entrepreneurs.



**Name list of the Participants:****III B. Com A**

S.No	Register Number	Name
1.	120012153434	SABARISH P
2.	121012153511	ABDUL HALEEM M
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3.	120012153472	MOHAMED JAMSITH A
4.	120012153477	MOHAMED REHANUDEEN B
5.	121012153566	ABDUL BASITH Y
6.	121012153567	ABDULKALAM R
7.	121012153568	ABINASH G
8.	121012153569	ABINASH R
9.	121012153571	AJAY S
10.	121012153572	ARSATH AKTHAR A
11.	121012153573	ARUL SELVAN S
12.	121012153574	ASHWIN RAAJ KAMAL S M
13.	121012153575	ASWINKUMAR R
14.	121011153576	AYISHA SIDDIKA M
15.	121012153577	BALAJI N
16.	121012153578	BALAJI V



17.	121012153579	BALASUBRAMANIAM S
18.	121012153580	DHANAPRASATH K
19.	121011153581	DHARSHANA K
20.	121012153582	DHARUN R M
21.	121011153583	DIVYA PRABHA J
22.	121012153585	HARISH B
23.	121011153586	HEMANE A
24.	121012153587	JAMAL MOHAMED A
25.	121012153588	JONES ILAMARAN J
26.	121011153589	KEERTHANA G
27.	121012153590	KESAVAN M
28.	121012153592	MAHADHIR MOHAMED S
29.	121012153594	MANOJI R
30.	121012153595	MOHAMED AJMAL KHAN M
31.	121012153596	MOHAMED AZEEM A
32.	121012153597	MOHAMED BATCHA S
33.	121012153598	MOHAMED HARSATH M
34.	121012153599	MOHAMED HASIM KASIM M
35.	121012153600	MOHAMED MARJUK M
36.	121012153601	MOHAMED SAFRITH M
37.	121012153602	PRADEEP D
38.	121012153603	PRAKASHRAJ M
39.	121012153604	PRAVEEN KUMAR R
40.	121011153605	PRIYADHARSHINI A
41.	121012153606	RAJA R
42.	121011153607	RITHIGA B
43.	121012153608	RIZWE UMAR N
44.	121012153609	ROSHAN KUMAR R
45.	121011153610	RUBINI S
46.	121012153611	SAFIQ A
47.	121012153612	SANJAY S
48.	121012153613	SANTHOSH P
49.	121012153614	SHAHID AFRIDI M
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51.	121012153616	SUDHARSAN N
52.	121012153617	SUNDHAR G
53.	121012153618	THIYAGARAJAN M
54.	121012153619	VIGNESH M
55.	121011153626	ANIS FATHIMA M R
56.	121012153627	JASITH AHAMED J

57.	121012153628	MOHAMED AZARUDEEN R
58.	121012153629	MOHAMED HASSIM SHAJITH M
59.	122011167012	KIRUTHIKA K
60.	122012167013	MOHAMED RIAZ KHAN S
61.	122012167014	SIVANESAN S
62.	122012167015	VIGNESH R

### III B.Com CA

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1.	121012171001	AAKASH K
2.	121012171002	ABDUL HAK J
3.	121012171003	ABDUL MOSIN M
4.	121012171005	ABINESH T
5.	121012171006	AHILESHKUMAR A
6.	121012171007	ANIMESH M
7.	121011171008	ANUSUYA M
8.	121011171009	ASHWINI P
9.	121011171010	ATCHAYA P
10.	121012171011	BALAJI P
11.	121012171012	BARATH N
12.	121011171013	DEVISRI Y
13.	121012171014	FAWAZ S
14.	121012171015	FRANKLIN PRABHU A
15.	121011171016	GOPIKA S
16.	121012171017	HAJA MYDEEN M
17.	121012171019	HARIKRISHNAN R
18.	121012171020	HARI PRASATH RAO M
19.	121012171022	JOHN BRITTO B

20.	121012171023	JUBAIR A
21.	121012171025	KAVIN BABU S
22.	121012171026	KAVIYARASAN S
23.	121012171027	KIRANRAJ R
24.	121011171028	KOKILA PRIYA S
25.	121012171029	MANOJADITHIYA S
26.	121012171030	MATHAVAN S
27.	121012171031	MOHAMED ARSATH M
28.	121012171032	MOHAMED ASFAR H
29.	121012171033	MOHAMED ASLAM S
30.	121012171034	MOHAMED ISHAK H
31.	121012171035	MUTHUKRISHNAN R
32.	121012171036	NADESHAVASAN R
33.	121012171037	NOORDEEN B
34.	121012171038	PARIS AHAMED K
35.	121011171039	PAVITHIRA M
36.	121012171040	PRAGADEESWARAN S
37.	121011171041	PREETHI S
38.	121011171042	PRITHIKA K
39.	121012171043	RAJU S
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41.	121012171045	SAKTHI MAHENDRAN R
42.	121011171046	SAKTHIBALA M
43.	121012171047	SALMAN S
44.	121012171048	SANJAI SHARMA N
45.	121012171049	SANTHOSH S
46.	121012171050	SHAHUL HAMEED K
47.	121012171051	SHAIK SAJIT AHAMED M
48.	121012171052	SHARUQ AHMED A
49.	121012171054	SRIHARIESH R
50.	121011171055	SWETHA M
51.	121012171056	TAMIZHAMUTHAN T
52.	121012171057	THIRUKUMARAVEL S
53.	121012171059	VISHNUVARATHAN P
54.	121012171060	SAKTHIVEL G
55.	121011171061	GAYATHRI K P
56.	121011171062	RITHUYOGASRIEE M
57.	122011177001	JAYA SHEEBA A
58.	122012177002	THIRUNEELAKANDAN M

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3.	121012170066	ABINESH R
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5.	121012170068	AFLAL PARVEEZ A
6.	121012170069	AJAY EDWARD D
7.	121012170070	AJITH M
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10.	121012170074	ASHITH AHAMED A
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13.	121011170077	BEULA DIANA A
14.	121011170078	DAFNA SHERLY M
15.	121012170079	DEVASENATHIPATHI V
16.	121012170080	FAHAD S
17.	121012170081	FERNANDES J
18.	121011170082	FOWZUL ENAYA J
19.	121012170084	GOPIRAJ M E
20.	121012170085	HABEEB RAHMAN M
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22.	121011170087	JANANI P
23.	121012170089	KESAVAN P
24.	121012170090	KIRUTHICK ROSHAN S
25.	121012170091	KOWSHICK S
26.	121012170092	MELVIN JOSHUA M
27.	121012170093	MOHAMED ERFAN M
28.	121012170094	MOHAMED IRAIYARIVU A
29.	121012170095	MOHAMED RASHIQ M
30.	121012170096	MOHAMED RASIK B
31.	121012170097	MOHAMED RIZA S
32.	121012170098	MOHAMED SHAHEEN S
33.	121012170099	MOHAMED SOHAIL M
34.	121012170100	MOHAMED YOONUS S
35.	121012170101	MOHAMMED THASLEEM A
36.	121011170102	MATHUMITHA G
37.	121012170103	NIRMALDEEP A
38.	121011170104	PRIYADHARSHINI N

39.	121011170105	RAJALAKSHMI M
40.	121011170107	SABARI AGNES S
41.	121012170108	SANJAI S
42.	121012170109	SHAHUL HAMEED N
43.	121012170110	SIVAMANI A
44.	121012170111	SURYA A
45.	121012170112	THIRUMALAI J
46.	121011170113	THRISHA S
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48.	121012170116	VIJAYENDRAN S
49.	121012170117	VIKRAM M
50.	121012170118	VINODHAN V
51.	121012170119	BARATH N
52.	121012170120	JEROL MESSIAH E
53.	121012170121	PURUSOTHAMAN D
54.	121012170122	TAMILARASAN T
55.	121012170123	AATHIKESAVAN S
56.	121011170124	ABINAYA V
57.	121012170126	MOHAMED HAMITH N

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1.	120011151273	THIRISADHARSHINI P
2.	121012151288	AKASH RAJA V
3.	121011151289	AKSHAYA TRIVEDHI N S
4.	121012151290	ANANDHAPRIYAN S
5.	121011151291	ARUNTHAMIZH P
6.	121011151292	ASHEEN RAKSHANA J
7.	121012151293	BHAVANI SANKARAN S
8.	121011151294	BHUVAJHA V
9.	121012151295	DHARANKUMAR R
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15.	121012151301	GOKULAKRISSHNAN B
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18.	121012151304	JAM SHEEDH ASLAM J

19.	121011151305	JANANI VIGHITHRA G
20.	121011151306	JEYAGOWRI V
21.	121012151307	JOEL CHRISTAN V
22.	121012151308	KALAIYARASAN P
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24.	121011151311	KIRUTHIKA S
25.	121011151312	KISHAAL D
26.	121011151313	LATHIKA S
27.	121011151314	MADHU M
28.	121011151315	MADHUMITHA U
29.	121012151316	MOHAIDEEN ABDUL RASHID A
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31.	121012151318	MOHAMED ASHFAK S
32.	121012151319	MOHAMED RIYAS KHAN M
33.	121012151320	MOHAMED SAIFULLAH M J
34.	121012151321	MOHAMED SAMEER S
35.	121012151322	MOHAMED SUHAIB O M
36.	121012151323	MOHANA RHANCHAN R
37.	121011151324	NANDHINI PRIYA A
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39.	121011151326	NIRMALA P
40.	121011151327	NITHYASRI S
41.	121011151328	NIVETHA A
42.	121012151329	NIYASALI N
43.	121012151330	PRAVEEN S
44.	121011151331	RATHIMEENA R
45.	121012151332	RAYITH A
46.	121012151334	SANTHOSH SIVA V
47.	121012151335	SATHISH KUMAR M
48.	121012151336	SATHISH S
49.	121012151337	SEENIVASAN K
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51.	121011151340	SRIVATHSA T
52.	121012151341	SUHASH G
53.	121012151342	SUNEEL G
54.	121011151343	SUWETHA T
55.	121011151344	SWATHIKA S
56.	121011151345	SWETHA C
57.	121012151346	SYED MOHAMED SHALIH H
58.	121012151347	UMASANKAR U



**MEMORANDUM OF UNDERSTANDING  
NOTA KESEPAHAMAN  
BETWEEN  
ANTARA  
INSTITUT TEKNOLOGI ADHI TAMA SURABAYA (ITATS),  
INDONESIA  
INSTITUT TEKNOLOGI ADHI TAMA SURABAYA (ITATS),  
INDONESIA  
AND  
DAN  
PERIYAR MANIAMMAI INSTITUTE OF SCIENCE &  
TECHNOLOGY (DEEMED TO BE UNIVERSITY), VALLAM,  
THANJAVUR-613403, TAMIL NADU, INDIA**

In the spirit of international understanding, Institut Teknologi Adhi Tama Surabaya, Indonesia, and Periyar Maniammai Institute of Science & Technology (PMIST), Tamil Nadu, India, agree to examine the possibility of establishing a framework for educational and research cooperation for our students, faculty and staff.

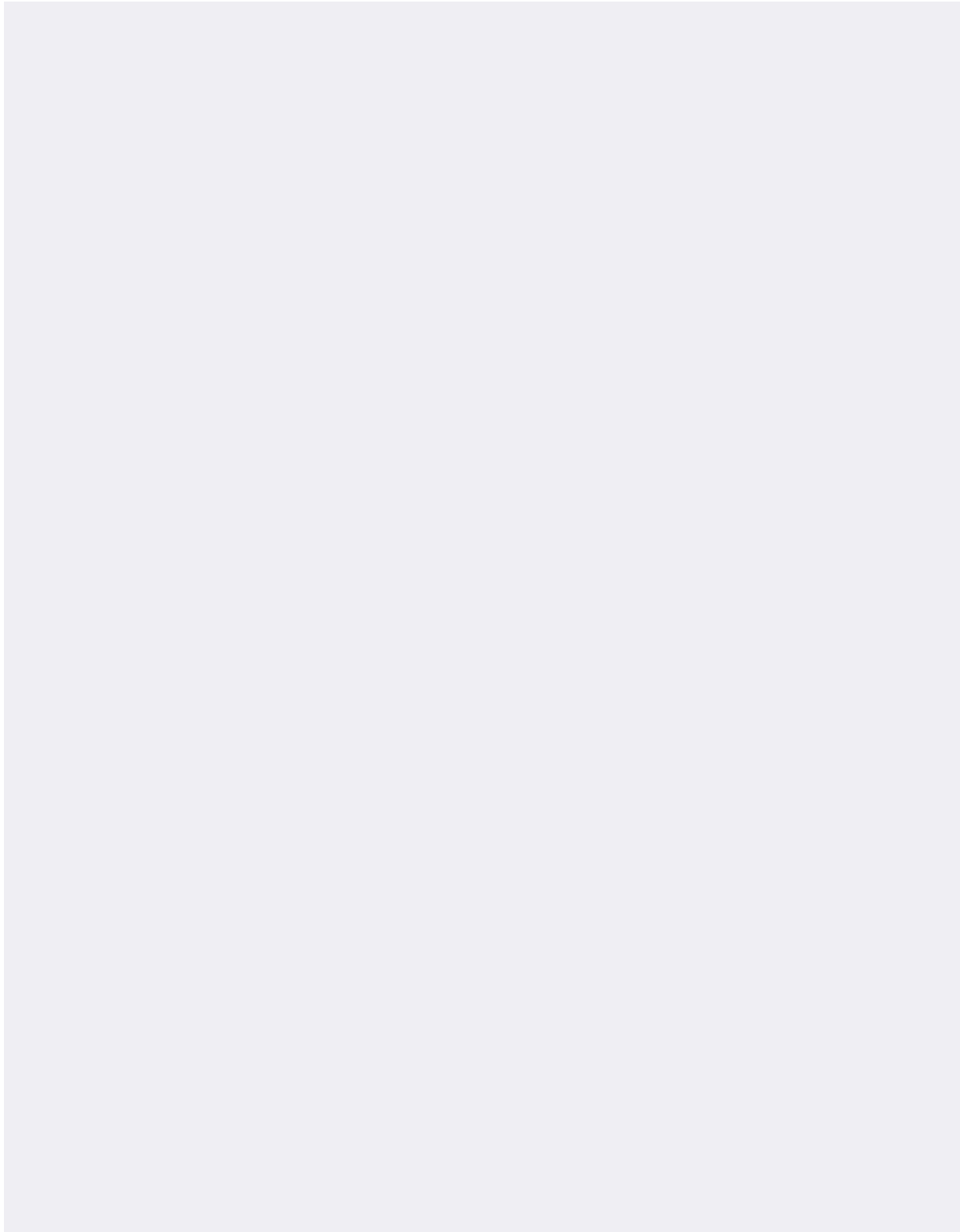
*Dalam semangat internasionalisasi, Institut Teknologi Adhi Tama Surabaya (ITATS), Indonesia, dan Periyar Maniammai Institute of Science & Technology (PMIST), Tamil Nadu, India, sepakat untuk mengkaji kemungkinan pembentukan kerangka kerja untuk kerjasama dalam bidang pendidikan dan penelitian bagi mahasiswa, fakultas dan staff.*

In preparation for establishing a formal framework for future activities, the parties hereto agree as follows:

*Dalam persiapan untuk menetapkan kerangka kerja untuk kegiatan di masa depan, para pihak menyetujui hal berikut:*

1. Explore possibilities for faculty and staff exchanges for research, lectures, and discussions that mutually benefit both institutions;

*Menjajaki kemungkinan pertukaran dosen dan staf untuk penelitian, perkuliahan, dan diskusi yang saling menguntungkan kedua institusi;*





Dr.G.Manivannan of PMIST was invited by ITATS during may 6<sup>th</sup> 2024 and he delivered Guest Lecture on MOF for Heterogeneous Catalysts:





## Memorandum of Understanding

Cape Breton University and Periyar Maniammai Institute of Science & Technology are linked by common academic interests and seek to develop collaborations and exchanges in fields of shared interest and expertise. The activities undertaken pursuant to this Memorandum of Understanding (MOU) are based on a spirit of cooperation and reciprocity that is intended to be of mutual benefit to both parties.

### 1. Purpose

This Memorandum of Understanding (MOU) serves as a written understanding of agreed upon principles between Cape Breton University, Sydney, Nova Scotia, Canada, and Periyar Maniammai Institute of Science & Technology, Thanjavur, India concerning a set of general academic objectives.

This is a non-binding agreement and is intended to clarify the nature and extent of the complementary activities that might be undertaken for the mutual benefit of the two parties. Each institution will be responsible for managing its own costs.

Commitments of specific institutional resources, personnel, space, facilities, or any other academic or intellectual activities may be contemplated hereunder but are beyond the scope of this MOU.

To the extent that the implementation of any agreed upon activity requires a commitment of resources, personnel, credit-bearing coursework, or intellectual property, a supplementary agreement must be negotiated and approved by the two parties before work on any of the projects can commence.

### 2. Objectives, Scope, and Major Activities

Both institutions agree to encourage the development of the following types of activities:

- Visits and informal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach.
- Explore ways to cooperate in postgraduate education and training.
- Organize joint conferences, symposia, or other scientific meetings on subjects of mutual interest.
- Exchange of academic information and materials.
- Pursue avenues for graduate and professional student exchange during the academic year or summer terms.
- Pursue avenues for undergraduate student exchange during the academic year or summer terms.
- Explore the possibilities for developing joint research programs and collaborations.
- Other exchange and cooperation programs to which both parties agree.

Page 1 of 3

### **3. Responsibilities of the Parties**

The two parties recognize that the implementation of any agreed upon activity will depend upon the interests and expertise of the individuals involved and the availability of financial resources, space and other resources. Accordingly, the implementation of any exchange and cooperative program based on this MOU shall be separately negotiated and determined between the two institutions. It is further expected that both parties will be compliant with all applicable provincial and federal laws and regulations and University policies.

### **4. Duration and Option to Amend, Extend or Terminate**

This MOU will become effective when signed by both parties. The agreement will remain in effect for five years from the signature date, below, and may be renewed or amended by mutual agreement of the parties. The parties agree to periodically review the activities undertaken and the progress made and to consult concerning amendments, renewal or termination of this MOU. Either party may terminate this MOU at any time by providing written thirty day notice of such termination to the other party.

### **5. General Terms**

This MOU is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable at law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents.

Nothing in this MOU obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the two parties.

### **6. Marketing**

Neither party will use the name of the other, either expressly or by implication, in any publicity, solicitation or advertisement without the express written approval of the other party to this MOU. Neither party can represent itself as the other or use their partner's logo, or promote any mutual programmes in any language without prior written approval of the copy, collateral materials and web presence or web linkages by partner officials. Failure to do so may serve as a breach of this agreement.

The two parties recognize that the implementation of any agreed upon activity will depend upon the interests and expertise of the individuals involved and the availability of financial resources, space and other resources. Both parties will be compliant with all applicable provincial and federal laws and regulations and University policies.

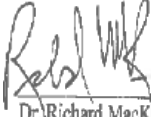
### **7. English Version**


If this Agreement is translated in any language other than the English language, and in the event of a conflict between the English language version and the translated version, the English language version shall prevail in all respects.


### 8. Authorized Signatures

By the signatures of their respective and duly authorized officials below, both parties acknowledge having read and understood the agreement and agree to be bound by its terms and conditions.

SIGNED:

  
\_\_\_\_\_  
Dr. Richard MacKinnon  
Vice-President, Academic and Provost  
Cape Breton University

  
\_\_\_\_\_  
Dr. K. Veeramani  
Chancellor  
Periyar Maniammai Institute of Science &  
Technology

  
Date: \_\_\_\_\_

Date: \_\_\_\_\_  
**CHANCELLOR,**  
Periyar Maniammai Institute of  
Science & Technology (PMIST)  
(Deemed to be University)  
Periyar Nagar, Vallam,  
Thanjavur-613 403, Tamilnada.

Questions or Comments on this MOU may be addressed to:

Isabella Yuan, Enrolment Services Specialist – International Partnerships, Cape Breton University  
P.O. Box 5300, Sydney, Nova Scotia Canada B1P 6L2  
Tel: 1-902-563-1422; Email: isabella\_yuan@cbu.ca

Prof. Dr. S.A. Dhanaraj, Registrar, Periyar Maniammai Institute of Science & Technology,  
Periyar Nagar, Vallam Thanjavur – 613 403, Tamil Nadu, India.  
Tel: 04362 264632; Email: registrar@pmu.edu

## Discussion in India -Canada Summit 2024



KUMARAN S <kumarans@pmu.edu>

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### AB&MM travel India 2024 (version 1).xlsb

2 messages

Martin Mkandawire <Martin\_Mkandawire@cbu.ca> Wed, May 15, 2024 at 8:07 AM  
To: esther P <esther.jegatha2011@gmail.com>, JUDITH VIJAYA <judithvijaya@loyolacollege.edu>, Joel Gnanadoss <joelgna@gmail.com>, "kumarans@pmu.edu" <kumarans@pmu.edu>  
Cc: Allen Britten <Allen\_Britten@cbu.ca>, Rajendran Kaliaperumal <Raj\_Kalia@cbu.ca>

Dear Colleagues,

Please find our tentative itineraries attached, Allen's itinerary is almost final; mine will be final tomorrow once I get my ticket. Allen and Raj are flying on Saturday, May 18 and arriving on May 20. I will join a week later.

With warm regards

Martin

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 **AB&MM travel India 2024 (version 1).xlsb**  
11K

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KUMARAN S <kumarans@pmu.edu> Wed, May 15, 2024 at 5:02 PM  
To: Martin Mkandawire <Martin\_Mkandawire@cbu.ca>  
Cc: esther P <esther.jegatha2011@gmail.com>, JUDITH VIJAYA <judithvijaya@loyolacollege.edu>, Joel Gnanadoss <joelgna@gmail.com>, Allen Britten <Allen\_Britten@cbu.ca>, Rajendran Kaliaperumal <Raj\_Kalia@cbu.ca>

Dear Professor Martin Mikandawire,

Warm greetings!

We are looking forward you to meet in India.

Best regards,

Kumaran

**Dr. S. Kumaran**, M.S.c., Ph.D. (Anna Univ.) Ph.D. (Charles Univ.)  
Postdoctoral Training (Osaka Univ.)  
Professor

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**Department of Biotechnology**  
Faculty of Engineering & Technology



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