



# **PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE**

(Approved by AICTE & Affiliated to Anna University, Chennai)

Madurai - Sivagangai Highway, Arasanoor, Thirumansolai Post, Sivagangai Dt. - 630 561, Tamilnadu  
Mobile : 9842102628, 7373002628      Email: info@psyec.edu.in      Website : www.psyec.edu.in

City Office : 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile : 98423-02628

## **EXTERNAL AUDIT REPORT-**

## **AAA**



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## Academic Audit (2022 – 2023) – Odd & Even Semester

### **Introduction:**

The academic and administrative audit (AAA) was conducted on 10.10.2022 for the academic year (2022 – 2023). The audit was conducted to provide an opportunity for a regular strategic review of the teaching – learning process of the department and administrative functions of the institution. The self – evaluation document was presented by the HODs to the auditor. Administrative audit includes infrastructure like classrooms, Training & Placement, Library, Sports, Security systems, computing and internet facilities etc. The auditors have gone through the documents provided by the department and verified them based on the standard checklist. The consolidated report was prepared based on the findings of the auditor, the suggestions for improvements and action taken are given in the following sections. Earlier the internal audit was conducted department – wise by senior faculty members of the institution.

### **Auditors:**

S.No	Name of the Auditor	Designation & Affiliation
1.	Ms. R. Pandeewari	Assistant Professor, Department of Electronics and Communication Engineering, Bharath Niketan College of Engineering.
2.	Mr. A. Erulandi	Assistant Professor, Department of Mechanical Engineering, Bharath Niketan College of Engineering.



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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Ref: PSYEC/IQAC/AAA/2022 -2023/02

Date: 06.10.2022

### CIRCULAR

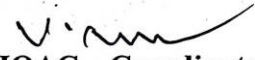
Sub: External Academic and Administrative audit for the academic year (2022 – 2023)

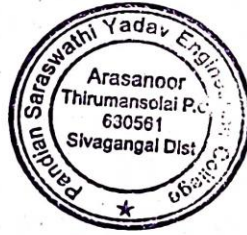
### ACADEMIC AND ADMINISTRATIVE AUDIT SCHEDULE

Time: 10.00 am – 5.00 pm

S.No	DATE	DEPT.	AUDITORS	VENUE
1.	10.10.2022	MECH, CIVIL, CSE, IT, AI&DS, AI&ML, CS, EEE, S&H, ECE and Administrative Department	1. Ms. R. Pandeewari, Assistant Professor, Department of Electronics and Communication Engineering, Bharath Niketan College of Engineering 2. Mr. A. Erulandi, Assistant Professor, Department of Mechanical Engineering, Bharath Niketan College of Engineering	Seminar Hall

All the heads of the departments and administrative heads are requested to keep documents ready for external Audit.

  
IQAC – Coordinator



  
Principal

Dr. R. RAJA M.E., Ph.D.,  
PRINCIPAL  
PANDIAN SARASWATHI YADAV  
ENGINEERING COLLEGE  
Arasanoor, Thirumansolai P.O-630 56  
Sivagangai Dist, Tamil Nadu

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## ACADEMIC AND ADMINISTRATIVE AUDIT REPORT – Internal /External –(2022 -2023)

### ACADEMIC AUDIT REPORT:

Academic Year	2022-23	Degree	B.E
Department	All	Year/Sem	-
Dates of Audit	10-10-2022	Semester	Odd & Even Semesters

### COURSE FILE AUDIT

S.No	Particulars (Content of Course File)	Status of completion (Yes/No)	Observation/ Suggestion for improvement
1	Syllabus	Yes	
2	Lesson plan	Yes	
3	List of PEOS, Pos & Cos	Yes	
4	PO and CO Mapping	Yes	
5	Content for innovative teaching methodology	Yes	Need to improve the experimental methodology
6	Course material – unit wise	Yes	
7	Question bank/ unit wise	Yes	
8	Minimum pass material (MPM)/ unit wise	Yes	
9	AU Question papers	Yes	
10	IAT & Model Question Papers, Result Analysis	Yes	
11	Sample (3Nos) IAT & Model Answer Script	Yes	
12	Remedial Class Time	Yes	
13	AU Question paper – Predicted Form	Yes	
14	End Semester Result Analysis	Yes	





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## ACADEMIC AUDIT REPORT-Internal/External

Academic Year	2022-23	Degree	B.E
Department	All	Year/Sem	
Dates of Audit	10.10.2022	Semester	odd & even semesters

### ADDITIONAL SUPPORTING FILE FOR ACADEMIC

S.No	Particulars (Content of Course File)	Status of completion (Yes/No)	Observation/ Suggestion for improvement
1	Academic Calendar – Institutions	yes	
2	Academic Schedule	yes	
3	Copy of regulations and Curriculum	yes	
4	Department Minutes of Meeting	yes	
5	Subject Preference, Allocation, Time table and Master Time table	yes	
6	IAT Performance Review and Remedial Action	yes	
7	University Examination Result Analysis (Review and Remedial Action)	yes	
8	Coaching for slow Learners	yes	members will encourage the students
9	Conduction of class committee meeting	yes	
10	Availability of Text and Reference Book in the Department Library	yes	
11	CO – PO – PSO attainment and curriculum improvement	yes	
12	Participation of students in value added courses and quality enhancement programs (internal and external)	yes	need to improve
13	Faculty participation in (FDPs, Seminar and Workshop)	yes	
14	Mentor – Mentee system for counselling	yes	
15	Students Feedback system and Implementation	yes	



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S.No	Particulars (Content of Course File)	Status of completion (Yes/No)	Observation/ Suggestion for improvement
16	Student Grievances and Redressal	Yes	
17	Programs organised for students through various club	Yes	
18	Participation of students in Co - curricular Activities	Yes	need to improve
19	Graduated batch wise	Yes	
20	Details of Placement	Yes	
21	Details of Students Higher studies	Yes	
22	Funded Projects submitted and obtained	Yes	
23	Publication in (International and national journals and conference) - Faculty	Yes	
24	Publication in (International and national journals and conference) - students	Yes	
25	MOU with industry	Yes	
26	Repair and Maintenance of Department Facilities	Yes	
27	Department alumni association (Number of alumni/Year)	Yes	
28	Road map of the Department	Yes	
29	Program on Gender Equality, values and ethics, national integration, non - violence, social inclusion, sustainable environment, community development, patriotism and constitutional obligations	Yes	
30	Research and Patent	Yes	
31	Project/Mini project	Yes	
32	Student Participation in extracurricular activities. (Sports and Culture etc.)	Yes	
33	Online courses - NPTEL, MOOCS, etc.	Yes	More faculties and students may be motivated to register NPTEL.





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S.No	Particulars (Content of Course File)	Status of completion (Yes/No)	Observation/ Suggestion for improvement
34	Industrial visit/ internship/ field visit	yes	
35	Scholarship and ship details	yes	
36	Skill Development activities (NM & other etc.)	yes	
37	Competitive Exams & Carrier Guidance	yes	
38	Faculty Profile	yes	
39	AU Web Portal Mark Statement	yes	
40	Stock Register	yes	
41	Lab manual, Record, moving Register, student Entry Note etc.	yes	





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## Observation

Alumini meeting is conducted regularly.  
All the departments conducted technical programmes effectively.  
All faculty members actively participated in the audit.

## Suggestions

IAT & End Semester result will improve.  
Students may be motivated to prepare for higher studies and publish the paper in conference, workshop, seminars.

S. No	Name of the Audit Team Member	Designation & Affiliation	Signature
1	A. ERULANDR	AP/Mechanical, BNEC	A. Erulandr
2	J. DANDEESWARI	AP/ECE, BNEC	J. Dandeeswari



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## ACTION TAKEN REPORT ON ACADEMIC AUDIT

Academic Year	2022 -2023	Degree	B.E.,
Department	All UG Programs	Year/Sem	-----
Dates of Audit	10.10.2022	Semester	Odd & Even semester

S. No	Remarks	Action Taken
1	Faculty members are encouraged to apply their research programs at reputable universities.	Ph. D registration of more than 03 faculty members have been completed at reputable universities
2	Faculty members are encouraged to employ innovative teaching methods.	More than 15 classrooms have been equipped with ICT to enhance students understanding
3	Both faculty and students are encouraged to enroll in NPTEL courses to enhance their technical knowledge.	The principal advised that all faculty members and 10% of department students should register for NPTEL courses.
4	Grant and fund projects	The principal advised that each department should apply for at least two grant per year.

  
IQAC - COORDINATOR



  
PRINCIPAL

Dr. R. RAJA M.E., Ph.D.,  
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## ACADEMIC AND ADMINISTRATIVE AUDIT REPORT – Internal /External –(2022 - 2023)

### ADMINISTRATIVE AUDIT

Academic year	2022-23	Dates of Audit	10-10-2022
Department	Administrative Dept.		

S. No	Particulars	Facilities Available (Yes/No)	Observations/Suggestions for Improvement
1	Class room facilities and ambience	yes	
2	Laboratory facilities	yes	
3	Library resources	yes	
4	ICT facilities	yes	
5	Computing and Internet facilities	yes	
6	Hostel facilities – Boys & Girls	yes	
7	Conference hall & Seminar Hall	yes	
8	Medical care	yes	
9	Common room for students	yes	
10	Security system	no	Need common room for students
11	Sports facility – indoor & outdoor	yes	
12	Renewable energy	yes	more sports events needed
13	Rainwater harvesting	yes	
14	Students' amenities	yes	
15	General amenities – cafeteria, drinking water etc.	yes	





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S. No	Particulars	Facilities Available (Yes/No)	Observations/Suggestions for Improvement
16	General maintenance - housekeeping & electrical	Yes	
17	Transport	Yes	
18	Welfare measures for students, faculty & non - teaching staff	Yes	
19	Green campus	Yes	
20	Office	Yes	

## Observation

Based on observation need common room for students.  
need more sports facility

## Suggestions

To enhance ICT embedded classrooms.  
To conduct more sports games.

S.No	Name of the Audit Team Member	Designation & Affiliation	Signature
1	A. ERULANDI	AP/Mechanical, BNEC	A. Erulandi
2	R. VANDHEESWARI	AP/ECE - BNEC	R. Vandheeswari



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## ACTION TAKEN REPORT ON ADMINISTRATIVE AUDIT

Academic year	2022 - 23	Dates of Audit	10.10.2022
Department	Administrative Department		

S.No	Remarks	Action Taken
1.	ICT facilities	More than 15 classrooms have been outfitted with ICT facilities
2.	Sports	The principal instructed the physical director to introduce a greater variety of indoor games for students
3.	Class Room Maintenance	All the damaged students seating, desks have been refurbished in every classroom
4.	Cafeteria	It is advised to increase the variety of items available in the cafeteria

  
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## **INTERNAL AUDIT REPORT**

### **AAA**





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## INTERNAL QUALITY ASSURANCE CELL - IQAC

Ref: PSEC/IQAC/AAA/2022-2023/01

Date:07.09.2022


### CIRCULAR

This is to inform that our institution is going to conduct an Academic and Administration Audit for the academic year 2022 – 2023 from 12.09.2022 to 17.09.2022. All the HODs and staff members are asked to extend their co-operation to complete the audit successfully.

### INTERNAL ACADEMIC AND ADMINISTRATIVE AUDIT SCHEDULE

Time: 10.00 am – 5.00 pm

S. No	Department	Date of audit	Name and Designation of The Internal Auditor	Venue
1	MECH	12.09.2022	1.Prof. S. Meenakshi Sudarvizhi -HOD/Civil 2. Ms. M. Kasthuri - AP/Civil	Mech-HOD Cabin, First Floor
2	CIVIL	13.09.2022	1. Prof. S. Manikandan - HOD/ECE 2. Ms. M. Nilobhar – AP/ECE	Civil-HOD Cabin, Second Floor
3	EEE	14.09.2022	1. Prof. R. Radhakrishnan-HOD/Mech 2. Mr. R. Pandi Thurai – AP/Mech	EEE-HOD Cabin, Ground Floor
4	ECE	15.09.2022	1. Prof. S. Pandimeena - HOD/EEE 2. Mr. R. Saravanan – AP/EEE	ECE-HOD Cabin, Second Floor
5	CSE, AI&DS, IT,CS, AI&ML	16.09.2022	1. Prof P. Jerlin Belsiya - HOD/S&H 2. Ms. V. Jeyalakshmi – AP/Maths	CSE-HOD Cabin, Second Floor
6	S&H	17.09.2022	1. Dr. A. Askarunisha - HOD/CSE 2. Ms. D. Vanathi – AP/CSE	S&H-HOD Cabin, First Floor

  
IQAC Coordinator

Copy to:

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4. Office
5. File



  
Principal

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## ACADEMIC AND ADMINISTRATIVE AUDIT REPORT – Internal /External –(2022 -2023)

### ACADEMIC AUDIT REPORT:

Academic Year	2022 - 23	Degree	B.E
Department	CSE	Year/Sem	—
Dates of Audit	16.9.2022	Semester	odd & even Semesters

### COURSE FILE AUDIT

S.No	Particulars (Content of Course File)	Status of completion (Yes/No)	Observation/ Suggestion for improvement
1	Syllabus	yes	
2	Lesson plan	yes	
3	List of PEOS, Pos & Cos	yes	
4	PO and CO Mapping	yes	
5	Content for innovative teaching methodology	yes	need to improve the experimental methodology
6	Course material – unit wise	yes	
7	Question bank/ unit wise	yes	
8	Minimum pass material (MPM)/ unit wise	yes	
9	AU Question papers	yes	
10	IAT & Model Question Papers, Result Analysis	yes	
11	Sample (3Nos) IAT & Model Answer Script	yes	
12	Remedial Class Time	yes	
13	AU Question paper – Predicted Form	yes	
14	End Semester Result Analysis	yes	





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## ACADEMIC AUDIT REPORT-Internal/External

Academic Year	2022 - 23	Degree	B-E
Department	CSE	Year/Sem	
Dates of Audit	16-9-2022	Semester	ODD & EVEN SEMESTER

### ADDITIONAL SUPPORTING FILE FOR ACADEMIC

S.No	Particulars (Content of Course File)	Status of completion (Yes/No)	Observation/ Suggestion for improvement
1	Academic Calendar - Institutions	Yes	
2	Academic Schedule	Yes	
3	Copy of regulations and Curriculum	Yes	
4	Department Minutes of Meeting	Yes	
5	Subject Preference, Allocation, Time table and Master Time table	Yes	
6	IAT Performance Review and Remedial Action	Yes	Need to improve
7	University Examination Result Analysis (Review and Remedial Action)	Yes	Need to improve.
8	Coaching for slow Learners	Yes	
9	Conduction of class committee meeting	Yes	
10	Availability of Text and Reference Book in the Department Library	Yes	
11	CO - PO - PSO attainment and curriculum improvement	Yes	Need to improve
12	Participation of students in value added courses and quality enhancement programs (internal and external)	Yes	
13	Faculty participation in (FDPs, Seminar and Workshop)	Yes	Need to improve.
14	Mentor - Mentee system for counselling	Yes	
15	Students Feedback system and Implementation	Yes	





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S.No	Particulars (Content of Course File)	Status of completion (Yes/No)	Observation/ Suggestion for improvement
16	Student Grievances and Redressal		
17	Programs organised for students through various club		
18	Participation of students in Co - curricular Activities	Yes	need to improve
19	Graduated batch wise		
20	Details of Placement		
21	Details of Students Higher studies		
22	Funded Projects submitted and obtained		
23	Publication in (International and national journals and conference) - Faculty		
24	Publication in (International and national journals and conference) - students		
25	MOU with industry		
26	Repair and Maintenance of Department Facilities		
27	Department alumni association (Number of alumni/Year)		
28	Road map of the Department		
29	Program on Gender Equality, values and ethics, national integration, non - violence, social inclusion, sustainable environment, community development, patriotism and constitutional obligations		
30	Research and Patent		
31	Project/Mini project		
32	Student Participation in extracurricular activities. (Sports and Culture etc.)		
33	Online courses - NPTEL, MOOCS, etc.	Yes	not facilities and funds may be mobilized to register NPTEL-



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35	Scholarship and ship details	yes	
36	Skill Development activities (NM & other etc.)	yes	
37	Competitive Exams & Carrier Guidance	yes	
38	Faculty Profile	yes	
39	AU Web Portal Mark Statement	yes	
40	Stock Register	yes	
41	Lab manual, Record, moving Register, student Entry Note etc.	yes	





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## Observation

- \* Students result: need to improve
- \* Faculty wise Journal Publication very low
- \* MOU with industry low
- \* club activities are low
- \* Faculty participation of FDP performance is very low

## Suggestions

- \* Need to improve Students result
- \* Encourage faculty to publish the Journal
- \* Encourage the MOU with industry.
- \* Encourage more club activities.

S. No	Name of the Audit Team Member	Designation & Affiliation	Signature
1.	Ms. P. Jeylin Belsiya	MOD / SBH	
2.	Ms. V. JEYALAKSHMI	AP / Maths	





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## ACTION TAKEN REPORT ON ACADEMIC AUDIT

Academic Year	2022 - 2023	Degree	B.E
Department	CSE	Year/Sem	-
Dates of Audit	16.9.2022	Semester	Odd & Even

S. No	Remarks	Action Taken
1.	Faculty Journal Publication	Instruct the faculty to publish more papers
2.	Online Course - Student	Advise the students to register more online courses
3.	Faculty FDP	Instruct the faculty to attend one FDP/ Semester

  
IQAC - COORDINATOR



  
PRINCIPAL

Dr. R. RAJA M.E., Ph.D.,  
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## ACADEMIC AND ADMINISTRATIVE AUDIT REPORT – Internal /External –(2022 - 2023)

### ADMINISTRATIVE AUDIT

Academic year	20 22 - 23	Dates of Audit	16-9-2022
Department	ADMINISTRATIVE DEPARTMENT		

S. No	Particulars	Facilities Available (Yes/No)	Observations/Suggestions for Improvement
1	Class room facilities and ambience	yes	
2	Laboratory facilities	yes	
3	Library resources	yes	Technology related magazines required to update periodically
4	ICT facilities	yes	
5	Computing and Internet facilities	yes	
6	Hostel facilities – Boys & Girls	yes	
7	Conference hall & Seminar Hall	yes	
8	Medical care	yes	
9	Common room for students	yes	
10	Security system	yes	
11	Sports facility – indoor & outdoor	yes	More Sports events needed
12	Renewable energy	yes	
13	Rainwater harvesting	yes	
14	Students' amenities	yes	
15	General amenities – cafeteria, drinking water etc.	yes	Required to provide variety of beverages & snacks items.





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S. No	Particulars	Facilities Available (Yes/No)	Observations/Suggestions for Improvement
16	General maintenance - housekeeping & electrical	yes	
17	Transport	yes	
18	Welfare measures for students, faculty & non - teaching staff	yes	
19	Green campus	yes	
20	Office	yes	

## Observation

Based on observation, clinical exposure & hands on training exposure to enhance clinical skills in their field of expertise.

## Suggestions

\* More co-curricular activities that should include recent technology are required  
+ Need more awareness on placement related things & Improve employability

S.No	Name of the Audit Team Member	Designation & Affiliation	Signature
1	Ms. P. Jerlin Beliya	HOD/S&H	P. Jerlin
2	Ms. V. Jeyalakshmi	Ap/Maths	V. Jeyalakshmi



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## ACTION TAKEN REPORT ON ADMINSTRATIVE AUDIT

Academic year	2022 - 2023	Dates of Audit	
Department	Administrative Department		

S. No	Remarks	Action Taken
1.	Alumni Interaction	No. of Alumni meet is increased
2.	Soft skill	No. of Soft skill program increased
3.	Employability skills may be improved	planned to organize various vocational & skill training programs

  
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PRINCIPAL  
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## **ACTION TAKEN REPORT**



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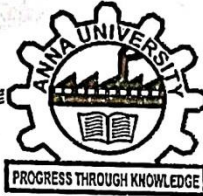
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**FACULTY DEGREE CERTIFICATE**



# Anna University



Reg. No.18144691280/RG

The Syndicate of the Anna University hereby makes known that **MANIKANDAN S** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the *Faculty of Information and Communication Engineering*, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2022**. The degree has been awarded in compliance with the **“University Grants Commission, Regulations 2016”**.

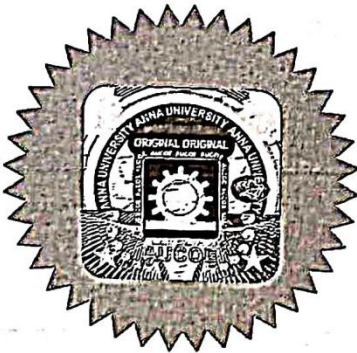
*Title of the Thesis:*

**ANALYTICAL MODELING & SIMULATION OF JUNCTION LESS TRIPLE MATERIAL CYLINDRICAL SURROUNDING GATE SILICON NANOWIRE TRANSISTORS**

*Given under the seal of the University*

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Chennai 600025  
India  
September 2023  
TARSI/4192

*P. Senthilnathan*  
Controller of Examinations  
MANIKANDAN S

*D. S. Senthilnathan*  
Registrar

*R. V. Vijay*  
Vice-Chancellor  
MANIKANDAN S





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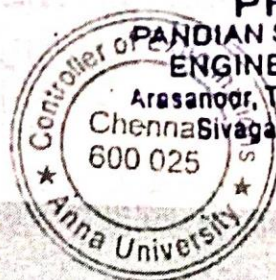
## PROVISIONAL CERTIFICATE

Folio No.: TAR013045

This is to certify that the candidate has qualified for the award of *Degree of Doctor of Philosophy* in compliance of the UGC Regulations 2009 as detailed below:

Name : REGINA S  
Registration Number : 1628389128  
Degree : Ph.D.  
Department/Centre/Subject : ELECTRONICS AND COMMUNICATION  
ENGINEERING  
Faculty : ELECTRICAL ENGINEERING  
Date, Month & Year of Viva-Voce  
Examination held : 25.11.2022  
Title of the Thesis : DESIGN AND PERFORMANCE INVESTIGATION  
OF METAMATERIAL-BASED ANTENNAS WITH  
FR-4 AND LEATHER SUBSTRATES

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*P. Senthilvel*  
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Chennai - 600 025

Date: 02-DEC-2022





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### CENTRE FOR RESEARCH

Sardar Patel Road, Chennai - 600 025, India



Dr. C. UMARANI, M.E., Ph.D., PDF(NZ)

Director

Ref : No. 2012120019/Ph.D./AR4

Date : 11.04.2022

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.C.Murugan**, has registered for Ph.D. Programme in CAD/CAM during January-2012. The scholar has submitted the thesis entitled, "**EXPERIMENTAL ANALYSIS AND OPTIMIZATION OF ELECTRICAL DISCHARGE MACHINING PARAMETERS WITH VARIOUS SHAPES OF TOOL ELECTRODES AND MATERIALS**" and has successfully completed the oral examination held on 04.04.2022 for the award of Ph.D. Degree under the Faculty of **Mechanical Engineering**.

The Ph.D. Degree awarded by this University is in compliance of UGC Regulations 2009.

*Umarani*  
11/4/22  
**DIRECTOR (RESEARCH)**

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YMER || ISSN : 0044-0477

<http://ymerdigital.com>

## Dental Caries Detection using NIR Images with Encoder Modified U-Net and Feature Pyramid Network

R. Raja<sup>1</sup>, S. Regina<sup>2</sup>, N. Ezhilmathi<sup>3</sup> & C. Murugan<sup>4</sup>

<sup>1</sup>Professor & <sup>2,3,4</sup>Associate Professor

<sup>1&2</sup>Department of Electronics and Communication Engineering

<sup>3</sup>Department of Electrical and Electronics Engineering

<sup>4</sup>Department of Mechanical Engineering

Pandian Saraswathi Yadav Engineering College, Sivagangai, Tamilnadu, India.

rajandu2013@gmail.com, regina.shahi@gmail.com, ezmimemiste@gmail.com, cmn.muru@gmail.com

**Abstract:** Automated dental caries detection has garnered increased attention due to technological advancements in machine learning methods. This stands as a crucial concern in dentistry, particularly in the accurate identification of caries, as they can lead to severe health complications. This study endeavors to precisely segment and identify dental diseases. In this work, a pioneering technique employing the Encoder Modified U-Net in conjunction with the Feature Pyramid Network is proposed for segmentation purposes. The U-Net model is widely recognized and utilized in medical image segmentation due to its encoder-decoder architecture and skip-connection capability, allowing for the capture of multi-scale information in medical images. The initial stage of segmentation produces a preliminary result, which is utilized to extract the Region of Interest (ROI). This ROI is subsequently fed into the second stage of the U-Net model. Maintaining the original resolution as much as possible for the input image in the second stage significantly enhances the segmentation performance. This proposed model has been implemented using MATLAB and rigorously compared against existing algorithms in terms of accuracy, F-score, precision, and recall rates to validate its efficacy and performance.

**Keywords:** Dental Caries, Encoder, U-Net, Segmentation, MATLAB

### 1. Introduction

The system's design [1] incorporates intensity-modulated light and relies on detecting early-stage caries by analyzing the altered thermal-wave field. This change is a result of increased light absorption at sites affected by caries. Consequently, this altered thermal field is captured by an IR camera through the emission of infrared radiation. To ensure cost-effectiveness and clinical applicability, a low-cost LWIR (8-14  $\mu\text{m}$ ) camera has been seamlessly integrated into the thermophotonic imaging system. The IR camera utilized [2] an uncooled microbolometer LWIR detector. This choice is deliberate, as these detectors are highly suitable for implementation in clinically viable imaging systems. A straightforward approach utilizing laser-induced fluorescence spectrum with enhanced backscattering is proposed for the early detection of initial caries in



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International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)



[p-ISSN: 2319-8753, p-ISSN: 2347-6710| www.ijirset.com | Impact Factor: 8.118| A Monthly Peer Reviewed & Referred Journal |

|| Volume 12, Issue 2, February 2023 ||

| DOI:10.15680/IJIRSET.2023.1202014 |

## A Review on Sewage Waste Water Treatment in Disarray of Madurai

<sup>1</sup>M.Kasthuri

<sup>1</sup>Assistant Professor, Pandian Saraswathi Yadav Engineering College, Sivaganga, India

**ABSTRACT:** Waste water treatment is a process used to remove contaminants from waste water or sewage and convert it to an effluent that can be returned to the water cycle with acceptable impact on the environment, or reused for various purposes. The treatment process takes place in a waste water treatment plant (WWTP) also referred to as a Water Resource Recovery Facility (WRRF) or a sewage treatment plant (STP) in the case of domestic waste water. Pollutants in waste water are removed. Converted or broken down during the treatment process.

**KEYWORDS:** Sewage treatment plant, Ground water, Nanotechnology in waste water Management

### I. INTRODUCTION

The sewage treatment plants constructed by the Madurai Corporation in 2011 in vellakal and sakkimangalam areas have not achieved their full capacity officials in the civic body here admitted. At present, only one fourth of the total sewage water generated in the city is treated at these plants. The rest is released in to water bodies like channels tanks and the Vaigai River, posing health and environmental hazards. The capacity of the vellakal sewage water treatment plant is 125 million litres per day (MLD) where as he capacity of the sakkimangalam plant is 45.7 MLD. These plants were constructed considering the need for the next 30 years, through; the plants started functioning two – and – a half year's back, all the sewage water generated in the city can't be transferred to the treatment plants. The pipes carrying sewage water from various pumping stations to the treatment plants proportionate to the requirement have not been modified yet, said source from the engineering department of Madurai Corporation.

### II. OBJECTIVE OF THE STUDY

The objective of municipal and industrial waste water treatment is to extract pollutants, remove toxicants, Neutralize coarse particles kill pathogens so that quality of discharged water is improved to reach the permissible level of water to be discharged in to water bodies or for agricultural land. The total sewage water generated from the city, excluding the newly – added areas, is more than MLD. However only 20 MLD is treated at both the plants. The treated water is released to the nearby agricultural lands instead of diverting it in to water short city. Around 60 MLD of untreated sewage water from the pumping stations is frequently let in to Vaigai River, near by tanks and channels. Environmentalist warns that the untreated water opened in to the water bodies can affect people in the long term.

### III. SEWAGE GENERATION IN MADURAI

Madurai is one of districts of Tamilnadu in India, Madurai District population in 2022 is 3,210,442 (Estimates as per aadhar uidai.gov.in Dec 2020 date). The district has an total area of 3710, 317.45 sqkm is urban and 3392 sqkm is rural. Out of total population of Madurai 3,372,460 in the distric, 1,846,801 are in urban area and 1,191,451 are in rural area.479851 households are in urban.315036 are in rural area 1485340literate people in urban 788,090 in rural area. Due to such drastic growth in urban population of Madurai the quality and strength of sewage has also increased with time.

It was found that currently 125 MLD of sewage is being generated in Madurai. The Madurai Corporation approved the establishment of a sewage treatment plant (STP) with two million litres per day capacity at vaigai river to treat sewage water carried by the Pandhalkudi channel before entering the river course .It was approved during the special council meeting chaired by corporation commission.





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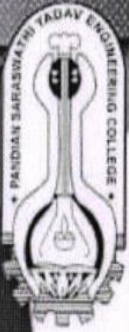


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**P. PADMASRI**

Department of Electrical and Communication Engineering,

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Emmanuel Robin Joseph,  
Program Director,  
Maxelerator Foundation.

Nanu swamy,  
Founder,  
Maxelerator Foundation

*K.B.*  
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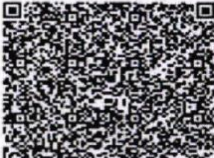
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Department of Electrical and Communication Engineering,

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Emmanual Robin Joseph,  
Program Director,  
Maxelerator Foundation.

Nanu swamy,  
Founder,  
Maxelerator Foundation

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**24 April 2023 to 29 April 2023**

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**Fr. Dr. D Sunder Reddy**  
Principal  
St. Joseph's Degree & PG College (Autonomous), Hyderabad

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**Dr. Mendus Jacob**  
MD & CEO, ipsr solutions limited





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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
(Accredited by NBA)

## CERTIFICATION OF PARTICIPATION

**VANATHI D**

Pandian Sarawathi Yadav Engineering College

has attended Five days Faculty Development Programme on "FULL  
STACK DEVELOPMENT" from: 1.11.2022 to 4.11.2022 organized by the  
Department of Computer Science and Engineering, Kamaraj College of  
Engineering and Technology, Virudhunagar.

COORDINATORS  
Dr. R. Ramya

Dr. A. Anandh

CONVENER  
Dr. A. Meenakshi

PRINCIPAL  
Dr. S. Senthil

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**ICT ENABLED CLASS ROOM**





# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to Anna University, Chennai)

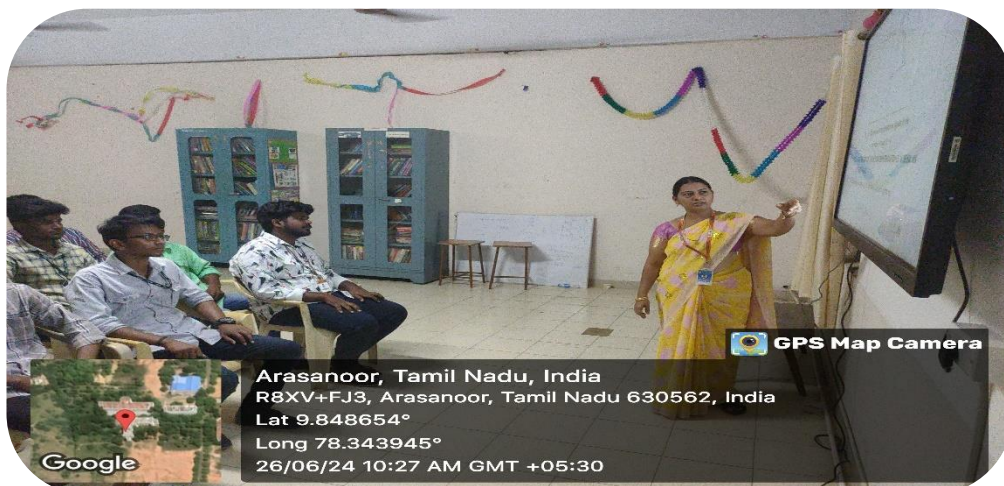
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## INTERACTIVE BOARD FACILITIES



LH-AB-201



LH-AB-202



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LH-AB-203



LANGUAGE LAB





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**LH-EEE-301**



**LH-EEE-302**

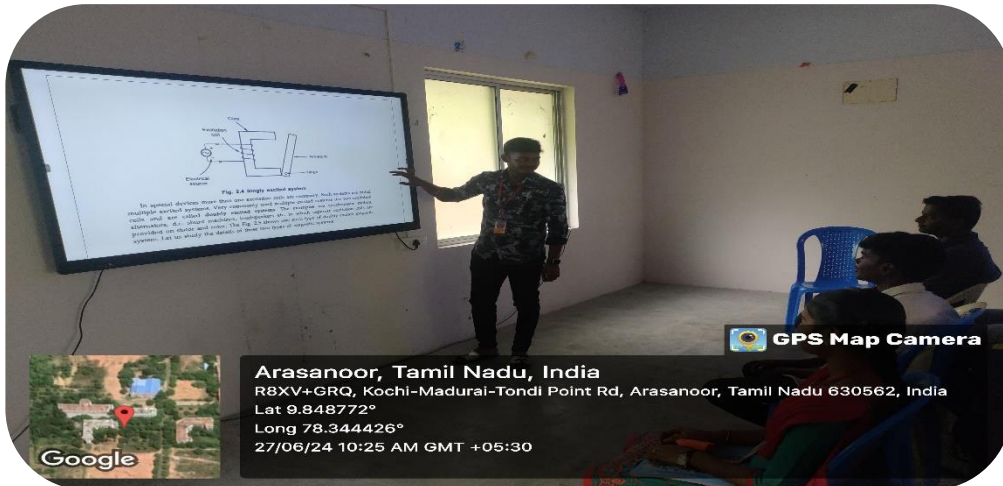


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LH-EEE-303



SEMINAR HALL -EEE





# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

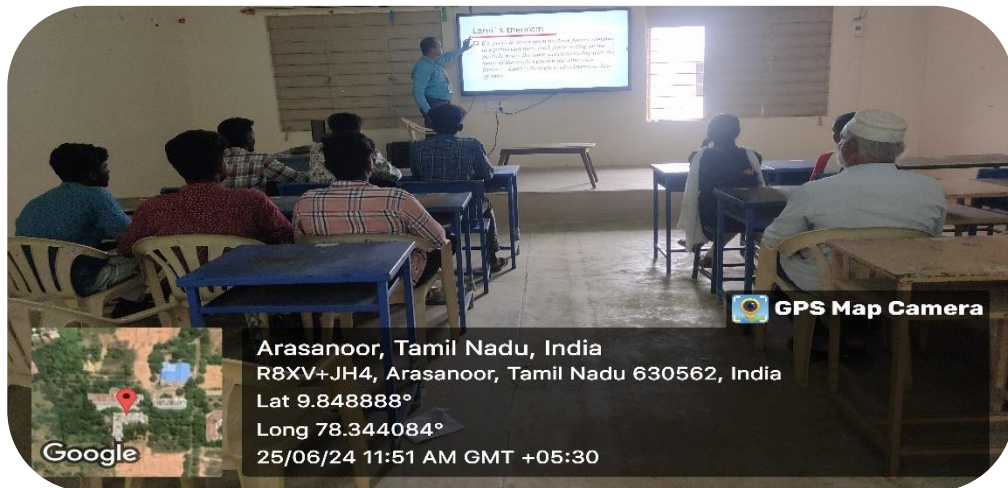
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**SEMINAR HALL -MECH**



Google

Arasanoor, Tamil Nadu, India  
R8XV+JH4, Arasanoor, Tamil Nadu 630562, India  
Lat 9.848888°  
Long 78.344084°  
25/06/24 11:51 AM GMT +05:30

GPS Map Camera

**LH-MECH - 201**



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**LH-MECH - 202**



**LH-MECH - 203**



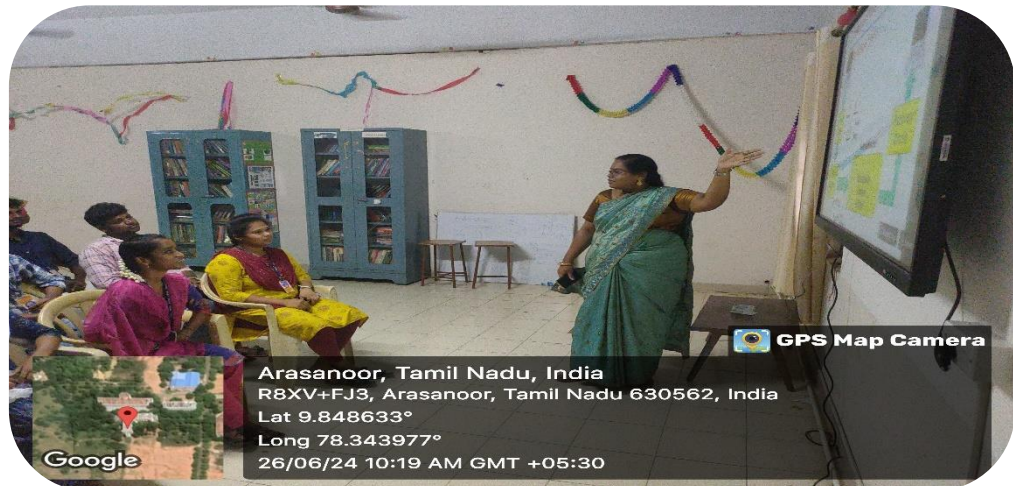


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## SEMINAR HALL -ECE



## LH-ECE-202

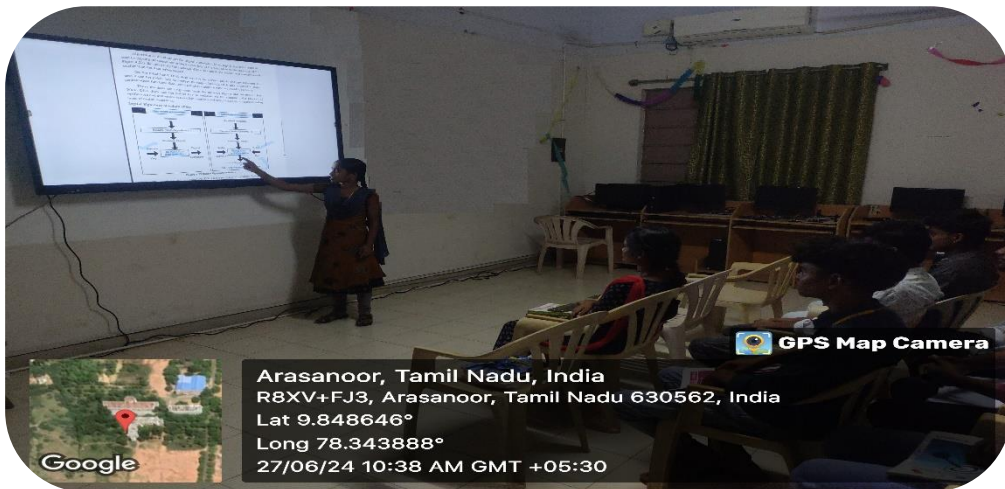


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LH-ECE-204



LH-ECE-302





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## SEMINAR HALL – CIVIL



## LH- CIVIL -301

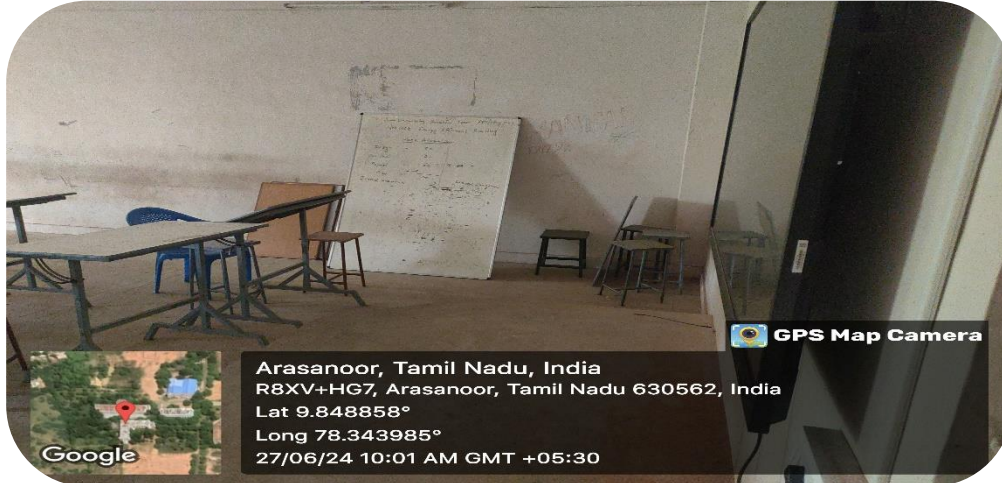


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**LH- CIVIL -303**



**SEMINAR HALL – CSE**





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LH-CSE-101



LH-CSE-303



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**FUNDED PROJECT**





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**Grants received from Government and non-government agencies for research projects/endowments in the institution during the academic year 2022-2023 (INR in Lakhs) are listed below**

S.No	Name of the research project/ endowment	Name of the Principal Investigator/Co-investigator	Name of the Funding Agency	Amount Sanctioned
1.	Design of smart Agriculture Monitoring System Based on IOT using LoRaWAN Technology	Dr.S.Regina	TNSCST	7,500
2.	Charging station for E vehicle using IoT	Mr.D.Duraimurugan	TNSCST	7,500
3.	Cow dung pot making machine	Mr.R.Pandithirai	TNSCST	7,500
4.	Plastic Pavers and bricks using Waste Plastics	Mr.N.Naga Arjuna	EDII	1,12,000
5.	Design and development of Panel Key Controller	Dr.S.Manikandan	Embien Technologies	2,06,000
6.	Designing Charges for Electronic Components of video Conferencing Camera	Dr.S.Manikandan	A&T Video Networking	5,00,000
	Total amount received from Grants			8,40,500 <b>(Eight lakhs Forty Thousand &amp; Five Hundred only)</b>



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தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்  
**TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**  
(Established by Government of Tamilnadu)  
Directorate of Technical Education Campus, Chennai - 600 025.  
Ph : 044-22301428, www.tnscst.nic.in

Dr.R.SRINIVASAN, M.Sc., Ph.D.,F.I.C.S., M.A.C.S.(USA).  
Member Secretary

Lr.No.TNSCST/SPS/BS/2022-2023

03.03.2023

To  
The Principal  
Pandian Saraswathi Yadav Engineering College,  
Thirumansolai Post-630 561

Sir/Madam,

Sub: TNSCST - Student Project Scheme - 2022-2023 - approval intimation-grant  
release-reg.

With respect to the above scheme, the list of projects approved by the State Council is enclosed along with terms and conditions. You are requested to adhere to terms and conditions such as submission of UC and Seminar Paper on Time.

1.	Mr.R.Pandithurai Assistant Professor, Department of Mechanical Engineering, Pandian Saraswathi Yadav Engineering College, Thirumansolai Post-630 561	Cow dung pot making machine	R. Balaji, K. Ari krishnan,	EME-0566	The Principal	Rs 7500/-
2.	Mr. Duraimoorthy Assistant Professor, Department of EEE, Pandian Saraswathi Yadav Engineering College, Thirumansolai Post-630 561	Charging station for E- vehicle using IoT	Pantheeswaran. M, Dinesh.K, Vallarasu. M,	EEE-1320	The Principal	Rs 7500/-
3.	Mrs S Regina Assistant Professor, Department of Electronics and Communication Engineering, Pandian Saraswathi Yadav Engineering College, Arasanoor Thirumansolai Post-630 561	Design of Smart Agriculture Monitoring System Based on IoT using LoRaWAN Technology	S.Dharani, M.Priyadharshini, S.Varsha,	AS-521	The Principal	Rs 7500/-
<b>Total</b>						<b>Rs 22500/-</b>

Herewith enclosed the cheque for the approved grant and disburse the grant to the concerned students through the guides at the earliest

Kindly send the utilisation certificate (format enclosed) and seminar paper (Ref.T&C) on completion of the project.

Thanking you,

Yours faithfully,  
  
21/3/23  
Member Secretary.

Encl: a) Terms & Conditions (T&C)  
b) Format of Utilisation Certificate (UC)  
c) Cheque for Rs.22500/- Cheque No:574937 dt.03.03.2023

Copy to: Individual Guides





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## TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI - 600025

### STUDENT PROJECT SCHEME 2022-2023

#### UTILIZATION CERTIFICATE

TWO COPIES

1. Name of the guide and address : Ms.S.Regina  
Assistant Professor,  
Pandian Saraswathi Yadav Engineering College,  
Arasanoor-630561.
2. Name of the student(s) : 1.S.Dharani  
2.M.Priyadharshini  
3.S.Varsha
3. Title of the project :Design Of Smart Agriculture Monitoring System  
Based On Iot Using Lorawan Technology
4. Project Code : AS-521

It is certified that a sum of Rs.7500/-(Rupees Seven thousand Five Hundred) sanctioned by the council for carrying out the above student project has been utilized for the purpose for which it was sanctioned and sum of Rs.Zero remaining unutilized is refunded.

Signature of The Guide

Signature of HOD

Signature of the  
REGISTRAR/PRINCIPAL/DEAN



with seal  
Dr.R. RAJA ME, Ph.D.  
PRINCIPAL  
PANDIAN SARASWATHI YADAV  
ENGINEERING COLLEGE  
Arasanoor, Tamilnadu - 630 561  
Sivagangai - Dist. Tamil Nadu



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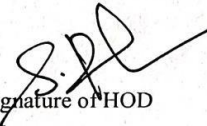
TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY  
DOTE CAMPUS, CHENNAI - 600025

STUDENT PROJECT SCHEME 2022-2023  
UTILIZATION CERTIFICATE

TWO COPIES

- Name of the guide and Address : **Mr. Duraimurugan P.**  
Assistant Professor  
Department of EEE  
Pandian Saraswathi Yadav Engineering  
College
- Name of the Student(S)
  - Pantheeswaran.M
  - Dinesh.K
  - Vallarasu.M
- Title of the Project : CHARGING STATION FOR E VEHICLE  
USING IoT
- Project Code : EEE - 1320

It is certifies that a sum of Rs.7500/- (Rupees Seven thousand Five Hundred)  
sanctioned by the council for carrying out the above student project has been utilized  
for the purpose for which it was sanctioned and sum of Rs.Zero remaining Unutilized  
is refunded.

   
Signature of The Guide      Signature of HOD

Signature of the  
RESISTRAR/PRINCIPAL/DEAN  
with seal  
**Dr. R. RAJA ME., Ph.D.,**  
PRINCIPAL  
PANDIAN SARASWATHI YADAV  
ENGINEERING COLLEGE  
Arasanoor, Thirumansolai P.O-630 561,  
Sivagangai Dist, Tamil Nadu







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TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY  
DOTE CAMPUS, CHENNAI - 600 025

## STUDENT PROJECT SCHEME 2022-2023 UTILISATION CERTIFICATE

(TWO COPIES)

1. Name of the guide and address : R. PANDI THURAI, AP Mech.  
Department of Mechanical Engineering,  
Pandian Saraswathi Yadav Engineering College,  
Madurai - Sivagangai Highway,  
Sivagangai - 630 561.
2. Name of the student(s) : R. BALAJI,  
K. ARI KRISHNAN.
3. Title of the project : COIL DUNG FOT MAKING MACHINE
4. Project code : EME - 0566

It is certified that a sum of Rs. 7,500.00 (Rupees SEVEN THOUSAND FIVE HUNDRED) sanctioned by the Council for carrying out above mentioned student project has been utilized for the purpose for which it was sanctioned and sum of Rs. 0.00 remaining unutilized is refunded.

Signature of the Guide

Signature of the HOD

Signature of the  
REGISTRAR / PRINCIPAL / DEAN  
with seal

Dr. R. RAJA M.E., Ph.D.,  
PRINCIPAL  
PANDIAN SARASWATHI YADAV  
ENGINEERING COLLEGE  
Arasanoor, Thirumansolai P.O.-630 561  
Sivagangai Dist. Tamil Nadu





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## ENTREPRENEURSHIP DEVELOPMENT AND INNOVATION INSTITUTE

(An autonomous society of the Government of Tamil Nadu)  
Parthasarathy Koil Street, SIDCO Industrial Estate,  
Ekkaduthangal, Guindy, Chennai 600032, Tamil Nadu  
Tel : +91-44-2225-2081/82/83/84 Web : [www.editn.in](http://www.editn.in)



Roc.No.II-01/44/2022/EDII/2022

Date : 05.07.2022

Sir,

**Sub:** EDII - Innovation Voucher Programme (IVP) - Proposal submitted under IVP – Sanctioned Order Issued – Reg.

**Ref:** 1. IVP Proposal sent by **M/S Plasto Pavers**.  
2. Minutes of the Screening Committee meeting held on 28.06.2022.

\*\*\*\*\*

As per the above references, this is to inform that your proposal has been approved by the Screening Committee under “**Innovation Voucher Programme**”.

In this regard, the details of the recommendations and terms and conditions are as follows :

1. Name of the Company : Plasto Pavers
2. Project Title : Plastic pavers and bricks using waste plastics
3. Voucher Type : Voucher – A
4. Maximum Project Duration : 12 Months
5. Knowledge Partner : Pandian Saraswathi Yadav Engineering College
6. Total Project Cost : Rs.1,40,000/-

Break up of Project Cost (In Rs.) :				
EDII Contribution			Company's Contribution	Total
1 <sup>st</sup> Installment 50%	2 <sup>nd</sup> Installment 40%	3 <sup>rd</sup> Installment 10%		
56,000	35,000	21,000	28,000	1,40,000

### Terms and Conditions of the grant :

- I. 1<sup>st</sup> Installment: 50 percent of the eligible grant will be released on signing of the Tripartite agreement.
- II. 2<sup>nd</sup> Installment: 40 percent will be released on submission of the Progress report, Utilization Certificate, Photos & Videos, etc. and its acceptance by the EDII within the time frame stipulated in the agreement
- III. 3<sup>rd</sup> Installment: (Remaining 10 percent) will be released on completion of the project and presentation of the final report being made before the Screening committee and the completion report found acceptable.
- IV. Contribution of the company has to be paid in full to the knowledge partner before the release of 2<sup>nd</sup> Installment.





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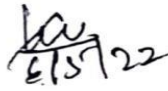
- V. Knowledge partner should release the fund to the company without any delay based on the achievement of milestones as envisaged in the project by the company.
- VI. The company should periodically furnish progress report and utilization certificate to EDII for releasing of 2<sup>nd</sup> and 3<sup>rd</sup> installment.
- VII. The company with attestation of the Knowledge Partner must submit monthly progress reports of the project to EDII regularly.
- VIII. Any deviation of the project has to be reported promptly to EDII.
- IX. The sanction project should be completed within the time stipulated in the agreement. For factors beyond the control of the Company given the assignment, suitable extension in time may, however, be granted at the request of the institution.
- X. The EDII shall not pay any extra amount for any escalation in the cost of the assignment beyond the time period stipulated in the agreement.
- XI. The total grant for the study as agreed with the organization will include service tax and other tax, if any, and the liability of payment of the tax will be of the Institution conducting the study.
- XII. TWO hard copies of the final report, FIVE hard copies of the executive summary and soft copy containing the final report shall be submitted before releasing the final installment of payment.
- XIII. During the period of the implementation of the project, EDII may modify the TOR and other terms and conditions of the project, if necessary, in order to strengthen/deepen its scope/coverage. As far as possible, such modifications will not be made more than once during the period of study and with the due concurrence of the Company concerned.
- XIV. In case of change of contact person during the period of study, the new contact person may be nominated by the Company with the prior approval of the EDII.
- XV. Any changes in the proposed work plan should be intimated to EDII and get prior approval from the Screening Committee
- XVI. If the performance of the Company during the period of the study is not found to be satisfactory, the agreement will be terminated.
- XVII. The Knowledge partner should have empanelled with EDII.

**You are requested to furnish us the following documents immediately:**

- Tripartite Agreement (Model Enclosed)
- Advance Stamp receipt from the Knowledge Partner Institution for the 1<sup>st</sup> Installment.
- Bank Account details of the Knowledge Partner Institution to which the amount is to be released in Letterhead with signature of Knowledge Partner.
- Detailed milestones with signature of company and Knowledge Partner.
- Detailed Budget split-up with signature of company and Knowledge Partner.
- Consent letter from Knowledge Partner and service cost charged by the Knowledge Partner for various services
- UAM Registration/Startup India DPIIT Registration Certificate

To,  
1. M/s. Plasto Pavers  
2. Pandian Saraswathi Yadav Engineering College

  
Additional Director (FAC)

  
ETS/22







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City Office : 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile : 98423-02628

Date:07.09.2022

To

EMBIEN TECHNOLOGIES (INDIA) PRIVATE LIMITED,

2<sup>ND</sup> FLOOR, 13/10 Alagar Kovil Main Road,

Surveyor Colony,

Madurai - 625 007.

Dear Sir,

**Sub:** Request for approval and support for funded Project-reg

We, the Electronics and Communication Department at Pandian Saraswathi Yadav Engineering College, have been functioning effectively since 2000. We are excited to collaborate with your organization on a funded project titled "Design and Development of Panel Key Controller." This project will be led by our faculty investigator, Dr. S. Manikandan, Associate Professor in the ECE Department. We believe this innovative project will have significant social relevance. We kindly request your approval for this collaboration.

Thanking you,



  
PRINCIPAL  
Dr. R. RAJA M.E., Ph.D.,  
PRINCIPAL  
PANDIAN SARASWATHI YADAV  
ENGINEERING COLLEGE  
Arasanoor, Thirumansolai P.O-630 561,  
Sivagangai Dist, Tamil Nadu





# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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TO

Dr.S. Manikandan,  
Associate Professor,  
Department of Electronics and Communication,  
Pandian Saraswathi Yadav Engineering College,  
Arasanoor-630561.

Dear Sir/Madam,

**Subject: Letter of Acceptance & Providing Support for Funded Project-Reg**

I am happy to inform that the proposal submitted by the Department of Electronics and Communication Engineering under the work titled "**Design and development of Panel Key Controller**" has selected and approved by our organization and sanctioned Rs. 2,06,000 (Two Lakh and six Thousand only) as the project seems to be innovative and would be highly social relevance.

In this regard, The Principal Investigator is registered to complete the work and submit the monthly report of the completion status along with the presentation file to the company address without fail.

Thanking you

For Embien Technologies India Pvt. Ltd.,

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## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING** **PROJECT PROPOSAL FOR POSSIBLE FUND**

S.No	Items	Details
1.	Project Title	Design and development of Panel Key Controller
2.	Project Type	It involves designing the physical components of the panel key controller. It focuses on designing the user interface of the panel key controller. It involves Prototyping and Testing its functionality and performance and documenting the design specifications. Providing support for the transition from prototype to mass production.
3.	Objectives	The objective is to design a controller that accurately controls targeted functions, provides an intuitive user interface, ensures reliability and durability, and integrates seamlessly with other systems.  To design and develop Panel Key Controller aims to deliver a reliable, user-friendly, and cost-effective solution for controlling specific functions or systems in various applications.
4.	Summary	From this proposal, the scope of the project encompasses various industries and applications where the Panel Key Controller can be utilized. Key features include robust hardware design, embedded systems development, user interface optimization, prototyping, testing, and compliance with safety standards.
5.	Methodology	To design the hardware components of the Panel Key Controller, that includes selecting appropriate components such as microcontrollers, switches, LEDs, and designing the circuitry layout and schematics.
6.	Total Cost Required	Rs. 2,06,000/-





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## PURCHASE ORDER

### Vendor:

Pandian Saraswathi Yadav College of Engineering  
Arasanoor, Thirumansolai Post,  
Sivagangai District - 630 561.

### Purchase Order:

PO No: ET/PO/23/01/001  
Date: 07-10-2022  
Reference: Email Quote dt 04-10-2022

### Shipping & Billing Address:

EMBIEN TECHNOLOGIES (INDIA) PRIVATE LIMITED  
2nd Floor, 13/10 Alagar Kovil Main Road,  
Surveyor Colony,  
Madurai - 625 007,  
Tel: +91 452 4961900  
**GST number: 33AACCE4288K1ZG**

Please acknowledge this Purchase Order and supply the below mentioned items.  
Your supplies are subject to the conditions mentioned below.

S.No	MFG NAME	Part Description	Qty	U/P	Total
1	PSYCE	Design and development of Panel Key Controller	1	206000	206000
					<b>Total 206000</b>
					<b>Grand total 206000</b>
<b>Amount in words:</b>		<b>Two Lakh Six Thousand Rupees Only</b>			

**For Embien Technologies India Pvt. Ltd.,**

This PO is electronically generated and does not require any signature

### Terms and Conditions of Purchase:

- All items of the PO should be delivered simultaneously. Part Delivery will not be accepted.
  - Items should be packed and shipped as recommended by the manufacturer.  
Items which are not in standard and appropriate packing will be rejected.
  - Goods supplied in excess quantity will not be accepted. Such material should be taken back at your cost.
  - Goods should be accompanied by a proper invoice and delivery challan
  - Invoice should indicate individual full ordering part number or such details to distinguish the individual part.
  - Invoice should clearly indicate our Purchase Order Number and Date
  - Shipping at your cost.
  - Any delay in delivery must be communicated.
- The PO is subject to cancellation if the goods are delayed beyond two weeks of the quoted delivery period.
- Taxes included, unless otherwise stated
  - It is important that VENDOR signs and returns the Purchase Order copy within Seven(7) days of receipt.  
Failure to return the Order acceptance within a week will be automatically treated as accepted by Vendor.

**EMBIEN TECHNOLOGIES (INDIA) PRIVATE LIMITED**

2nd Floor, 13/10 Alagar Kovil Main Road, Surveyor Colony, Madurai - 625 007, Tel: +91 452 4961900



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## **EMPLOYABILITY SKILLS TRAINING**





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**ALUMINI INTERACTION**



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## PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

**PSY ALUMNI**  
**10 SERIAL ENTREPRENEURS TO INSPIRE YOU**

**VENUE :**  
**Clubhouse**

**CLUBHOUSE NAME:**  
**PSYEC Voice**

**TIME:**  
**7-8 PM IST**

Mr. RAJA PRASANA KUMAR,  
Santricals Service India  
Pvt. Ltd

Mr. M. MAHARAJAN,  
CEO, Maha Fabricators

Er. MANIKANDAN SHANMUGAM  
Director  
SEPC Pvt.Ltd

NOOR IBRAHIM,  
Century Minds

Mr. C. JACKSON CHELLADURAI,  
CWJ Academy

Er. M. SONDRAKUMAR  
Brink Construction

Mr. BALA VIGNESH,  
Simperry Pvt.Ltd

Mr. K. SANKARALINGAM  
Founder & CEO, Greenscart

Mr. K. SAKTHIVEL,  
Founder & CEO,  
Rainman Enviro Solutions.

Mr. MAYAKANNAN,  
Vel construction

**DATE OF ATTEMPT : JULY 7-16, 2021**

INSTITUTION'S  
INNOVATION  
COUNCIL

**CENTRE FOR INNOVATION AND  
ENTREPRENEURSHIP(C-FIE)**  
(Powered by Ministry of MSME, Govt of India)

MHRD'S  
INNOVATION CELL  
(GOVERNMENT OF  
INDIA)

## Our Alumni Entrepreneurs

Patience and smartness: the key factors of any successful entrepreneur; and, we are glad that PSYEC played a role in enhancing the same in the successful entrepreneurs. We still remember their first step towards their goal, their first tumble and their first success; we are glad that we were a part in some way or the other!

Our PSYEC Alumni's give a speech on many areas like motivation, certification courses, Entrepreneurs etc., Their juniors students get benefits and knowledge from them.





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## ALUMNI INTERACTION





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**ONLINE COURSE FOR  
STUDENTS**





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