KALASALINGAM
ACADEMY OF RESEARCH AND EDUCATION
(DEEMED TO BE UNIVERSITY)
Under sec. 3 of UGC Act 1956. Accredited by NAAC with "A" Grade

Anand Nagar, Krishnankoil - 626126, Srivilliputtur (via), Virudhunagar District, Tamilnadu.

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:28-02-2025

Department	PHYSICS	Application No.	2025010003
Area of Research	SUPERCAPATIORS	Research Mode	FULL TIME

Name :ARUNA DEVI N

Date of Birth / Age :30-11-2002 / 22 Years

Gender :FEMALE

Category :BC

e-Mail ID :arunadevinagaraj2002@gmail.com

Mobile :7904280042

Father's/Husband's Name	NAGARAJ M	Father's/Husband's Occupation	BUSINESS
Family Income	50,000	Residental Type	RURAL
Birth Place	TAMIL NADU	Mother Tongue	TAMIL
Religion	HINDU	Martial Status	SINGLE
Aadhaar No.	957109571644	PAN No.	DXTPA8412F
Physically Challenged	NO	Type of Disability	-

Address for Communication:
59/8
SOUTH CAR STREET
KALUGUMALAI
THOOTHUKUDI DISTRICT
TAMIL NADU
INDIA
Pin-628552

Permenant Address:
59/8
SOUTH CAR STREET
KALUGUMALAI
THOOTHUKUDI DISTRICT
TAMIL NADU
INDIA
Pin-628552

Qualification

Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
B.SC	PHYSICS	V V VANNIAPERUMAL COLLEGE FOR WOMEN	2023	8.12	FIRST CLASS	REGULAR
M.SC	PHYSICS	KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION	2025	9.63	FIRST	REGULAR

Experience

Organization	Designation	Experience From	Experience TO	Work Nature

Payment Details

Transaction ID	Reference	Date of transaction	Amount	Status
2025010003_250301210824	ZHD5GEY0E7FBGC	01-03-2025	600	SUCCESS

Research Proposal for PhD Program

Supercapacitors

1. Title:

"Design, Synthesis, and Characterization of Advanced Supercapacitor Materials for High-Energy and High-Power Density Applications"

2. Abstract:

The energy storage sector is rapidly evolving, with supercapacitors emerging as key players due to their ability to deliver high power density and long cycle life. However, their relatively low energy density compared to batteries limits their potential in many high-energy applications. This research aims to investigate novel materials and designs for supercapacitors, focusing on the enhancement of energy density without compromising power density and cycle life. The study will explore advanced materials such as nanostructured carbons, metal-organic frameworks (MOFs), conducting polymers, and hybrid materials to develop high-performance supercapacitors that can cater to both energy and power-demanding applications.

3. Context and justification:

Supercapacitors, also known as ultracapacitors, store energy through electrostatic charge accumulation on the surface of electrodes and can deliver power at rates much higher than conventional batteries. However, their energy density, which limits their ability to store large amounts of energy, is still a major challenge. With the growing demand for energy storage devices in applications ranging from electric vehicles (EVs) to portable electronics, enhancing the energy density of supercapacitors while maintaining their excellent power density and cycle stability is of critical importance.

Recent advancements in material science, particularly in nanotechnology and hybrid materials, have opened new avenues for improving the performance of supercapacitors. Research on two-dimensional materials, porous carbons, MOFs, and pseudocapacitive materials is expected to address these limitations by providing larger surface areas, enhanced charge storage mechanisms, and better conductivity.

This research will investigate the synthesis, characterization, and performance of novel materials for supercapacitors, with a focus on maximizing both energy and power densities while maintaining long-term cycling stability.

4. Research Objectives:

- To design and synthesize novel electrode materials with improved surface area and electrochemical properties for high-energy and high-power supercapacitors.

- To develop hybrid materials combining both capacitive and pseudocapacitive behaviors for enhanced performance.

- To evaluate the electrochemical performance of these materials, including capacitance, energy density, power density, and cycle stability.

- To investigate the influence of various electrolyte systems, including ionic liquids and gel electrolytes, on the performance of supercapacitors.

- To explore scalable fabrication techniques for the commercial production of high-performance supercapacitors.

5. Research Questions:

1. How can the surface area and porosity of electrode materials be optimized to enhance the energy density of supercapacitors?

2. What are the electrochemical properties of hybrid materials (e.g., carbon-nanomaterial composites, MOF-based composites) in supercapacitor applications?

3. How do the properties of various electrolyte systems impact the performance of supercapacitors in terms of energy and power density?

4. Can we improve the charge/discharge efficiency and cycle life of supercapacitors through novel material combinations and fabrication techniques?

6. Methodology:

Material Synthesis:

- **Nanostructured Carbon Materials**: Synthesis of activated carbon, carbon nanotubes, and graphene-based materials through chemical vapor deposition (CVD), hydrothermal, and sol-gel processes.

- **Pseudocapacitive Materials**: Synthesis of metal oxides (e.g., MnO_2, RuO_2) and conducting polymers (e.g., polyaniline, polypyrrole) using electrochemical deposition and chemical synthesis methods.

- **Hybrid Materials**: Fabrication of hybrid materials combining carbon materials with pseudocapacitive materials to enhance both power and energy density.

Electrochemical Testing:

- **Cyclic Voltammetry (CV)**: To evaluate the capacitive performance and electrochemical stability of materials.

- **Galvanostatic Charge/Discharge (GCD)**: To measure the specific capacitance, energy density, and power density.

- **Electrochemical Impedance Spectroscopy (EIS)**: To analyze the internal resistance, charge transport, and capacitance behaviour.

- **Long-Cycle Stability Tests**: To assess the material's long-term cycling performance and rate capability.

Electrolyte Optimization:

- Investigation of aqueous, organic, and ionic liquid-based electrolytes to determine their effect on the performance of supercapacitors.

Device Fabrication:

- Fabrication of symmetrical and asymmetrical supercapacitor cells and testing under varying charge/discharge rates.

7. Expected Outcomes:

- Development of high-energy-density supercapacitor materials with improved charge/discharge efficiency and cycle life.

- Identification of optimal material combinations and electrolyte systems for enhanced electrochemical performance.

- Fabrication of prototype supercapacitor devices demonstrating improved energy and power densities suitable for applications in electric vehicles, renewable energy systems, and portable electronics.

- A better understanding of the relationship between material properties (e.g., surface area, conductivity, porosity) and electrochemical performance.

8. Significance of the Research:

This research has the potential to significantly advance the performance of supercapacitors, bridging the gap between their high-power density and low energy density. By developing novel materials and device architectures, the project could lead to more efficient and cost-effective energy storage solutions for applications such as electric vehicles, energy storage systems for renewable energy, and consumer electronics. Furthermore, this work will contribute to the fundamental understanding of electrochemical energy storage mechanisms, which could open new pathways for the design of next-generation energy storage devices.

9. Timeline:

- **Year 1**: Literature review, material synthesis, initial electrochemical testing, and optimization of electrode material properties.

- **Year 2**: Fabrication of hybrid materials and exploration of electrolyte systems; continuation of electrochemical testing and performance optimization.

- **Year 3**: Long-term stability testing, device fabrication, refinement of materials for commercial applications, final evaluations, device testing, and dissertation writing.

V.V.VANNIAPERUMAL COLLEGE FOR WOMEN

(Belonging to Virudhunagar Hindu Nadars)

An Autonomous Institution Affiliated to Madurai Kamaraj University, Madurai

Re-accredited with 'A' Grade (3"Cycle) by NAAC

VIRUDHUNAGAR - 626 001

A00938417

BACHELOR OF SCIENCE - PHYSICS
CONSOLIDATED MARKS AND GRADES
(OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM)

NAME OF THE CANDIDATE	D.O.B	REGISTER NO.	EXAM. M & YR	DATE OF PUBLICATION
ARUNA DEVI.N	30-11-2002	202016102	APR 2023	22 MAY 2023
MEDIUM OF INSTRUCTION : ENGLISH				

SEM	PART	COURSE CODE	COURSE TITLE	CREDIT	MAXIMUM INT	MAXIMUM EXT	MAXIMUM TOT	MARKS SECURED INT	MARKS SECURED EXT	MARKS SECURED TOT	G.P	GRADE	RESULT	M & YR OF PASSING
1	I	20UTAG11	Paper I-General Tamil	3	25	75	100	23	61	84	8.4	D+	P	NOV 2020
2	I	20UTAG21	Paper II-General Tamil	3	25	75	100	19	64	83	8.3	D+	P	APR 2021
3	I	20UTAG31	Paper III-General Tamil	3	25	75	100	21	64	85	8.5	D++	P	NOV 2021
4	I	20UTAG41	Paper IV-General Tamil	3	25	75	100	21	57	78	7.8	D	P	APR 2022
1	II	20UENG11	English Paper-I	3	25	75	100	19	53	72	7.2	A++	P	NOV 2020
2	II	20UENG21	English Paper-II	3	25	75	100	19	57	76	7.6	D	P	APR 2021
3	II	20UENG31	English Paper-III	3	25	75	100	23	58	81	8.1	D+	P	NOV 2021
4	II	20UENG41	English Paper-IV	3	25	75	100	21	64	85	8.5	D++	P	APR 2022
1	III	20UPHC11	Mechanics and Properties of Matter	4	25	75	100	19	63	82	8.2	D+	P	NOV 2020
1	III	20UPHC12	Electricity	4	25	75	100	19	66	85	8.5	D++	P	NOV 2020
1	III	20UMTA11	Allied Mathematics-I	4	25	75	100	22	59	81	8.1	D+	P	NOV 2020
2	III	20UPHC21	Electromagnetism	4	25	75	100	15	65	80	8.0	D+	P	APR 2021
2	III	20UPHC21P	General Physics Practical-I	2	40	60	100	36	56	92	9.2	O	P	APR 2021
2	III	20UPHC22	Heat and Thermodynamics	4	25	75	100	12	59	71	7.1	A++	P	APR 2021
2	III	20UMTA21	Allied Mathematics-II	3	25	75	100	23	58	81	8.1	D+	P	APR 2021
2	III	20UMTA22	Allied Mathematics-III	3	25	75	100	24	63	87	8.7	D++	P	APR 2021
3	III	20UPHC31	Optics	5	25	75	100	19	64	83	8.3	D+	P	NOV 2021
3	III	20UCHA31	General Chemistry-I	4	25	75	100	23	71	94	9.4	O	P	NOV 2021
4	III	20UPHC41	Mathematical Physics	5	25	75	100	24	44	68	6.8	A+	P	APR 2022
4	III	20UPHC41P	General Physics Practical-II	2	40	60	100	35	59	94	9.4	O	P	APR 2022
4	III	20UCHA41	General Chemistry-II	4	25	75	100	23	65	88	8.8	D++	P	APR 2022
4	III	20UCHA41P	Volumetric Analysis Practical	2	40	60	100	29	60	89	8.9	D++	P	APR 2022
5	III	20UPHC51	Classical and Statistical Mechanics	4	25	75	100	19	50	69	6.9	A+	P	NOV 2022
5	III	20UPHC52	Modern Physics	4	25	75	100	20	42	62	6.2	A	P	NOV 2022
5	III	20UPHC53	Solid State Physics	4	25	75	100	21	52	73	7.3	A++	P	NOV 2022
5	III	20UPHC5PR	Project	1	100	-	100	76	-	76	7.6	D	P	NOV 2022
5	III	20UPHE52	Nanoscience	4	25	75	100	17	30	47	4.7	C+	P	NOV 2022
6	III	20UPHC61	Analog Electronics	4	25	75	100	20	54	74	7.4	A++	P	APR 2023
6	III	20UPHC61P	General Physics Practical-III	3	40	60	100	32	58	90	9.0	O	P	APR 2023
6	III	20UPHC62	Nuclear and Particle Physics	4	25	75	100	17	49	66	6.6	A+	P	APR 2023
6	III	20UPHC62P	Electronics Practical	3	40	60	100	37	60	97	9.7	O+	P	APR 2023
6	III	20UPHC63	Digital Electronics	4	25	75	100	22	54	76	7.6	D	P	APR 2023
6	III	20UPHC63P	Digital Electronics Practical	2	40	60	100	36	60	96	9.6	O+	P	APR 2023
6	III	20UPHE62	Medical Physics	4	25	75	100	18	63	81	8.1	D+	P	APR 2023
6	III	20UPHQ61	Core Courses Quiz-Online	1	100	-	100	89	-	89	8.9	D++	P	APR 2023
1	IV	20UGVE11	Value Education	2	100	-	100	73	-	73	7.3	A++	P	NOV 2020
2	IV	20UPHS21	Programming in C	2	40	60	100	23	44	67	6.7	A+	P	APR 2021
3	IV	20UPHS31	Solar Energy	2	40	60	100	30	49	79	7.9	D	P	NOV 2021
3	IV	20UGEH31	Human Rights	1	100	-	100	66	-	66	6.6	A+	P	NOV 2021
3	IV	20UENN31	English for Professions-I	2	40	60	100	34	47	81	8.1	D+	P	NOV 2021
4	IV	20UGEC41	Constitution of India	1	100	-	100	87	-	87	8.7	D++	P	APR 2022
4	IV	20UPHS41	Astrophysics	2	40	60	100	34	41	75	7.5	D	P	APR 2022
4	IV	20UENN41	English for Professions-II	2	40	60	100	35	44	79	7.9	D	P	APR 2022
4	IV	20UPHI41G	Internship/Field Project	1	100	-	100	90	-	90	9.0	O	P	APR 2022
5	IV	20UGCE51	Practice for Competitive Examinations–Online	1	100	-	100	79	-	79	7.9	D	P	NOV 2022
5	IV	20UGES51	Environmental Studies	1	100	-	100	70	-	70	7.0	A++	P	NOV 2022
5	IV	20UPHS51	Microprocessor	2	40	60	100	29	44	73	7.3	A++	P	NOV 2022
5	IV	20UPHS52P	Programming in C Lab	2	40	60	100	36	58	94	9.4	O	P	NOV 2022
6	IV	20UPHS61P	Microprocessor Practical	2	40	60	100	39	60	99	9.9	O+	P	APR 2023
4	V	18UVLI1	Extension Activity - Library and Information Science	1	100	-	100	100	-	100	10.0	O+	P	APR 2022

PART	CURRENT SEMESTER CREDITS	CURRENT SEMESTER GPA	CUMULATIVE PERFORMANCE CREDITS	CUMULATIVE PERFORMANCE CGPA	CUMULATIVE PERFORMANCE GRADE	MARKS SECURED	CLASSIFICATION
I	-	-	12	8.25	D+	330/400	FIRST CLASS
II	-	-	12	7.85	D	314/400	FIRST CLASS
III	25	8.12	92	7.872826	D	2171/2700	FIRST CLASS
IV	2	9.90	23	7.965217	D	1112/1400	-
V	-	-	1	10	O+	100/100	-

To earn a UG Degree, a candidate has to score 140 credits

Signature of the Candidate

Any alteration or overwriting makes this statement invalid

Office Seal

Principal

Controller of Examinations

KALASALINGAM
ACADEMY OF RESEARCH AND EDUCATION
(DEEMED TO BE UNIVERSITY)
(Under Section 3 of UGC Act 1956)
Srivilliputtur (Via), Virudhunagar (Dt.) Tamil Nadu

Sl. № : **PG**   65850

SEMESTER GRADE CARD
M.Sc. Degree Examinations Nov/Dec 2023

Name of the Student: **ARUNA DEVI N**   Register № : 9923127002

Program   : Physics   Semester : 1

COURSE CODE	NAME OF THE COURSE	COURSE CATEGORY	CREDITS	LETTER GRADE
	CGPA COURSES			
221PHY0101	Research Methodology	SC	3.0	A
222PHY5101	Mathematical Physics	PC	4.0	S
222PHY5102	Atomic and Molecular Spectroscopy	PC	4.0	S
222PHY5103	Classical and Statistical Mechanics	PC	4.0	S
222PHY5201	General Physics Laboratory	PC	3.0	S
222PHY5301	Advanced Electronics	PC	4.0	A

CREDIT SUMMARY

Credits Earned (Current Semester) :	22.0	SGPA :	9.68
Cumulative Credits Earned :	22.0	CGPA :	9.68

Place : Krishnankoil

Date : 25/09/2024

Controller of Examinations

Please see overleaf for details

KALASALINGAM
ACADEMY OF RESEARCH AND EDUCATION
(DEEMED TO BE UNIVERSITY)
(Under Section 3 of UGC Act 1956)
Srivilliputtur (Via), Virudhunagar (Dt.) Tamil Nadu

Sl. № : **PG**   76638

SEMESTER GRADE CARD
M.Sc. Degree Examinations Apr/May 2024

Name of the Student: ARUNA DEVI N

Program : Physics

Register № : 9923127002

Semester : 2

COURSE CODE	NAME OF THE COURSE	COURSE CATEGORY	CREDITS	LETTER GRADE
	CGPA COURSES			
221PHY0301	Programming in C++	SC	2.0	S
222PHY5104	Electromagnetic Theory	PC	4.0	S
222PHY5105	Quantum Mechanics	PC	4.0	S
222PHY5106	Condensed Matter Physics	PC	4.0	S
222PHY5107	Nuclear and Particle Physics	PC	4.0	S
222PHY5108	Electrical and Electronics Instrumentation	PC	3.0	S
222PHY5202	Advanced Physics Laboratory	PC	2.0	S

CREDIT SUMMARY

Credits Earned (Current Semester) :	23.0		
Cumulative Credits Earned :	45.0	SGPA :	10.00
		CGPA :	9.84

Place : Krishnankoil
Date : 25/09/2024

Controller of Examinations

Please see overleaf for details

சான்றிதழ் வ. எண்
CERTIFICATE SL. NO. SEC **9129934**

தமிழ்நாடு மாநிலப் பள்ளித் தேர்வுகள் குழுமம்
STATE BOARD OF SCHOOL EXAMINATIONS, TAMILNADU

அரசுத் தேர்வுகள் துறை, சென்னை – 600 006
DEPARTMENT OF GOVERNMENT EXAMINATIONS, CHENNAI - 600 006

இடைநிலைப் பள்ளி இறுதி வகுப்புச் சான்றிதழ்
SECONDARY SCHOOL LEAVING CERTIFICATE
பத்தாம் வகுப்பு / X STANDARD
தமிழ்நாடு அரசின் அதிகாரத்திற்கு உட்பட்டு வழங்கப்படுகிறது
ISSUED UNDER THE AUTHORITY OF THE GOVERNMENT OF TAMILNADU

தேர்வரின் பெயர் / NAME OF THE CANDIDATE	பருவம் / SESSION
அருணா தேவி நா **ARUNA DEVI N**	மார்ச் 2018 **MAR 2018**

இடைநிலைப் பள்ளி இறுதி வகுப்புச் சான்றிதழ் பொதுத் தேர்வெழுதிய மேற்காண் தேர்வர் கீழ்க்காணும் மதிப்பெண்களைப் பெற்றுள்ளார் என்று சான்றளிக்கப்படுகிறது.
Certified that the above mentioned candidate has appeared for the Secondary School Leaving Certificate Public Examination and obtained the following marks :

பாடம் SUBJECT	கருத்தியல் THEORY (075)	செய்முறை PRAC. (025)	பெற்ற மதிப்பெண்கள் 100க்கு MARKS OBTAINED FOR 100	
தமிழ் / TAMIL			095	ZERO NINE FIVE (P)
ஆங்கிலம் / ENGLISH			098	ZERO NINE EIGHT (P)
கணிதம் / MATHEMATICS			091	ZERO NINE ONE (P)
✴ அறிவியல் / SCIENCE	070	025	095	ZERO NINE FIVE (P)
சமூக அறிவியல் / SOCIAL SCIENCE			097	ZERO NINE SEVEN (P)
✴✴ விருப்ப மொழி / OPTIONAL LANGUAGE	**********		***	***************
மொத்த மதிப்பெண்கள் / **TOTAL MARKS :**			476	**FOUR SEVEN SIX**

பிறந்த தேதி / DATE OF BIRTH	தேர்வெண் / EXAM NO.	பயிற்று மொழி / MEDIUM OF INSTRUCTION
30.11.2002	5070124	ENGLISH

நிரந்தரப் பதிவெண் / PERMANENT REGISTER NO.	அ. ம. ப. குறியீட்டெண் & நாள் / TMR CODE NO. & DATE	
XM18R075070124	B1069235	23.05.2018

(07/KP1426/0706)

பள்ளியின் பெயர் / NAME OF THE SCHOOL
காமராஜ் மெட்ரிக் மேல்நிலைப் பள்ளி கோவில்பட்டி
KAMARAJ MATRIC HR SEC SCHOOL KOVILPATTI

N. Aruna Devi

தேர்வரின் கையொப்பம்
SIGNATURE OF THE CANDIDATE

உறுப்பினர் செயலர்
மாநிலப் பள்ளித் தேர்வுகள் குழுமம் (இடைநிலை), தமிழ்நாடு
MEMBER SECRETARY
STATE BOARD OF SCHOOL EXAMINATIONS (SEC), TAMILNADU

சான்றிதழ் வ. எண்
CERTIFICATE SL. NO : HSS

2842654

தமிழ்நாடு மாநிலப் பள்ளித் தேர்வுகள் குழுமம்
STATE BOARD OF SCHOOL EXAMINATIONS, TAMILNADU
அரசுத் தேர்வுகள் துறை, சென்னை – 600 006
DEPARTMENT OF GOVERNMENT EXAMINATIONS, CHENNAI - 600 006
மேல்நிலைப் பள்ளிக் கல்வி இரண்டாமாண்டு மதிப்பெண் சான்றிதழ்
HIGHER SECONDARY COURSE - SECOND YEAR MARK CERTIFICATE
தமிழ்நாடு அரசின் அதிகாரத்திற்கு உட்பட்டு வழங்கப்படுகிறது
ISSUED UNDER THE AUTHORITY OF THE GOVERNMENT OF TAMILNADU

தேர்வரின் பெயர் / NAME OF THE CANDIDATE	மதிப்பெண் சான்றிதழ் வழங்கப்பட்ட பருவம் மற்றும் வருடம்/SESSION AND YEAR OF ISSUE OF MARK CERTIFICATE
அருணா தேவி நா ARUNA DEVI N	

பிறந்த தேதி / DATE OF BIRTH	நிரந்தரப் பதிவெண் / PERMANENT REGISTER NUMBER	மார்ச் 2020 MAR 2020
30/11/2002	1915064573	

மேல்நிலைப் பள்ளிக் கல்வி இரண்டாமாண்டு பொதுத் தேர்வெழுதிய மேற்காண் தேர்வர் கீழ்க்குறிப்பிட்டுள்ள பாடங்களில் தேர்வெழுதி தேர்ச்சி பெற்றுள்ளார் எனச் சான்றளிக்கப்படுகிறது.
Certified that the above mentioned candidate passed the following subjects in the Higher Secondary Second Year Examination.

பாடம் SUBJECT	கருத்தியல் THEORY 70/90	செய்முறை PRACTICAL 20/75	அகமதிப்பீடு INTERNAL 10/25	பெற்ற மதிப்பெண்கள் 100 க்கு MARKS OBTAINED FOR 100	தேர்ச்சி பெற்ற பருவம், வருடம் மற்றும் தேர்வெண் SESSION, YEAR AND ROLL NO. OF PASSING
தமிழ் TAMIL	086		010	096	2064264 MAR 2020
ஆங்கிலம் ENGLISH	081		010	091	2064264 MAR 2020
இயற்பியல் PHYSICS	028	020	010	058	2064264 MAR 2020
வேதியியல் CHEMISTRY	030	020	010	060	2064264 MAR 2020
உயிரியல் BIOLOGY	049	020	010	079	2064264 MAR 2020
கணிதவியல் MATHEMATICS	042		010	052	2064264 MAR 2020

மொத்த மதிப்பெண்கள் / TOTAL MARKS :	0436	ZERO FOUR THREE SIX

010/KVPI0056/010021

பள்ளியின் பெயர் / SCHOOL NAME
KAMARAJ MATRIC HR.SEC.SCHOOL KOVILPATTI
{

பாடத்தொகுப்பு எண் மற்றும் பெயர் / GROUP CODE AND NAME	பயிற்றுமொழி / MEDIUM OF INSTRUCTION
பொதுக்கல்வி / GENERAL EDUCATION 2503	ENGLISH
	அ.ம.ப. குறியீட்டெண் & நாள் / T.M.R.CODE NO.& DATE
	A1058443 16.07.2020

N. Aruna Devi

தேர்வரின் கையொப்பம்
SIGNATURE OF THE CANDIDATE

(M.RAMASAMY)
உறுப்பினர் செயலர்
மாநிலப் பள்ளித் தேர்வுகள் குழுமம் (மேல்நிலை) தமிழ்நாடு
MEMBER SECRETARY
STATE BOARD OF SCHOOL EXAMINATIONS (HR.SEC) TAMILNADU

Regarding Transfer Certificate of Post Graduate Degree

Respected Sir/Mam,

I haven't received my Transfer certificate of Post Graduate degree from my concerned university.

Thanking you!

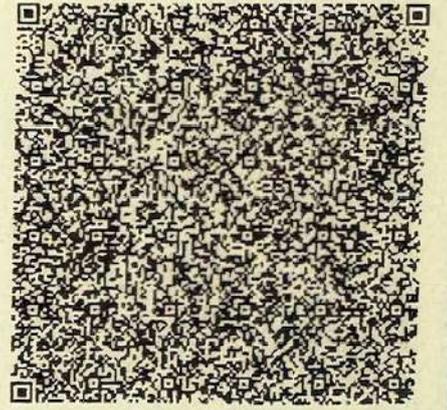Yours Faithfully

Aruna Devi N

आयकर विभाग
INCOME TAX DEPARTMENT

भारत सरकार
GOVT. OF INDIA

स्थायी लेखा संख्या कार्ड
Permanent Account Number Card

DXTPA8412F

24052024

नाम / Name
ARUNA DEVI N

पिता का नाम / Father's Name
NAGARAJ

जन्म की तारीख /
Date of Birth
30/11/2002

N. Aruna Devi

हस्ताक्षर / Signature

இந்திய தேர்தல் ஆணையம்
ELECTION COMMISSION OF INDIA

வாக்காளர் புகைப்பட அடையாள அட்டை – ELECTOR PHOTO IDENTITY CARD
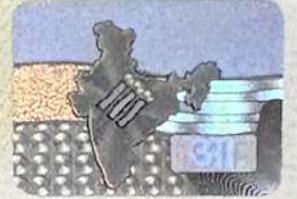
RMM2282473

RMM2282473

பெயர்: அருணா தேவி

Name: Aruna Devi

தந்தையின் பெயர்: நாகராஜ்

Father's Name: Nagaraj

பாலினம் / Gender: பெண் / Female

பிறந்த தேதி / வயது:

Date of Birth / Age: 30-11-2002

R.Dis : C 314 / 26-12-2015

माडल्‍क குறியீடு எண் / District Code : | 2 | 8 |

BC

வட்ட குறியீடு எண் / Taluk Code : | 0 | 6 |

சான்றிதழ் எண் /Certificate No
AAAE6E8E6A687B86

கிராமக குறியீடு எண் / Village Code : | 0 | 2 | 0 |

சாதிச சான்றிதழ்
COMMUNITY CERTIFICATE

<u>தூத்துக்குடி</u> மாவட்டம் <u>கோவில்பட்டி</u> வட்டம் <u>கழுகுமலை</u> கிராமம் / நகரய கதவு எண <u>59/8</u> , தெற்கு
<u>ரதவீ கழுகுமலை</u>, தெருவில வசிக்கும் செல்வி <u>அருணா தேவி கா</u> தந்தை பெயர் <u>நாகராஜ</u> என்பவர்
<u>வாணியர் - செக்கலர</u> வகுப்பைச சார்ந்தவர். அரச ஆணை நிலை எண்:28, பிறபட்ட மற்றும் மிகவும்
பிறபட்ட பிரிவினர நலத்துறை தாள 19.07.1994 வரிசை எண 121 படி பிறபட்ட பிரிவினரை சார்ந்தவர எனச
சான்றளிக்கப்படுகிறது.

This is to certify that **Aruna Devi N** daughter of Thiru **Nagaraj** residing at Door No **59/8 South Car Street
Kalugumalai**, Street, **KALUGUMALAI** Village / Town of **Kovilpatty** Taluk of **Thoothukudi** District of the State of
Tamil Nadu belongs to **Vaniyar - Chekkalar** Community, which is recognized as a Backward Class as per
Government Order (Ms.) No. 28, Backward Classes and Most Backward Classes Welfare, dated 19th July 1994 vide
Serial No. 121 .

1. செல்வி <u>அருணா தேவி கா</u> என்பவரும் அவருடைய குடும்பத்தினரும் தமிழ்நாட்டில <u>தூத்துக்குடி</u>
மாவட்டத்தில <u>கோவில்பட்டி</u> வட்டத்தில <u>கழுகுமலை</u> கிராமத்தில/நகரத்தில,கதவு எண <u>59/8,</u> தெற்கு
<u>ரதவீ கழுகுமலை</u> தெரு, என்ற விலாசத்தில வந்து வருகிறார்கள என சான்றளிக்கப்படுகிறது.

2. It is certified that _**Aruna Devi N**_ and her family ordinarily reside(s) at Door No. **59/8, South Car Street
Kalugumalai Street, , KALUGUMALAI** Village / Town of **Kovilpatty** Taluk of **Thoothukudi** District of Tamil Nadu.

டிஜிடல்/ஓபப்பம்/Digital Signature : **26-12-2015** அன்று **7:12:28 PM** நேரத்தில இடப்பட்டது.
பெயர்/Name : Saravana Perumal
பதவி /Designation : மண்டல துணை வட்டாட்சியர் / Zonal Deputy Tahsildar
இடம் /Place : கோவில்பட்டி வட்டம் / Kovilpatty Taluk , தூத்துக்குடி மாவட்டம் / Thoothukudi District

குறிப்பு/ Remarks :

1. இந்தகவல்கள 28-12-2015 அன்று 4:1:17 PM நேரத்தில அச்சடிக்கப்பட்டது.
The certificate was printed on **28-12-2015** at **4:1:17 PM** hrs.

2. ஆவண விபரங்களை மேலும் உறுதி செய்துக்கொள்ள வேண்டுமெனில தாங்கள வட்டாட்சியர்
அலுவலகத்தை அணுகி உறுதி படுத்திக்கொள்ளவும்.
For further certificate confirmation and details,you may approach the Tahsildar concerned.

ஆவண விபரங்களை உறுதி செய்ய :
(அ) **AAAE6E8E6A687B86** என்ற தனிப்பட்ட சான்றிதழ் எண்ணை
https://edistricts.tn.gov.in/revenue/verifyCertificate.html ல் உள்ளீடு செய்து
சரிபார்க்கவும்.
(ஆ) கைபேசி கேமராவின2D barcode படிப்பான மூலம் படித்து 3G/GPRS வழி
இணையப்பழுத்தில சரிபார்க்கவும்.
Genuineness of the certificate can be verified by
(a) Keying in the unique certificate number **AAAE6E8E6A687B86** in the URL
https://edistricts.tn.gov.in/revenue/verifyCertificate.html
(b) Reading the 2D barcode with mobile barcode reader and seeing online using 3G/GPRS.

ARUNA DEVI N

CONTACT

📞 +91 7904280042

✉️ arunadevinagaraj2002@gmail.com

📍 59/8, South car street,
Kalugumalai,
Tuticorin district - 628552

SKILLS

- Project Management
- Public Relations
- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

LANGUAGES

- English
- Tamil

SOFTWARE EXPERTISE

- Microsoft Office Package (Word, Excel, Powerpoint)
- C++
- Experience in Origin

OBJECTIVE

To pursue a PhD in the area of Supercapacitors at Kalasalingam Academy of Research and Education, where I can further my research in the field of supercapcitors, contributing to further development in that area while building on my academic background.

EDUCATION

2023 - Present

Master of Physics

Kalasalingam Academy of Research and Education

96.3 % (As per third semester results)

2020 - 2023

Bachelor of Physics

V V Vanniaperumal college for Women, (Madurai Kamaraj University)

80.2 %

2018 - 2020

Higher Secondary

Kamaraj Matriculation Higher Secondary School, Kovilpatti

73% (State Board)

2018

SSLC

Kamaraj Matriculation Higher Secondary School, Kovilpatti

95% (State Board)

ACADEMIC ACHIEVEMENTS

- Won Gold Medals for Undergraduate Degree.
- Secured Outstanding student award from the institution where I completed my Bachelor's Degree.
- Appeared and scored State Topper rank in National Graduate Physics Examination conducted by IAPT on March 2022.
- Secured First rank in Post Graduate degree and won Medal.

REFERENCE

Dr. A. Arivarasan
Assistant Professor,
Department of Physics,
Kalasalingam Academy of Research
and Education,
Krishnankoil - 626126,
Tamil Nadu, India.
Email-
arivarasan.nanotech@gmail.com

DECALARATION

I hereby declare that all the information furnished above is true to the best of my knowledge.

Yours Sincerely
Aruna Devi N