



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

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:27-06-2020

Department	PHYSICS	Application No.	20200152
Area of Research	PHIYSICS	Research Mode	FULL TIME

Name :B SANTHANAM
Date of Birth / Age :11-11-1980 / 39 Years
Gender :FEMALE
Category :MBC
e-Mail ID :santhanamtamil241@gmail.com
Mobile :9514377072



B. Santhar

Father's/Husband's Name	E BALUSAMY	Father's/Husband's Occupation	KOOLI
Family Income	60000	Residential Type	RURAL
Birth Place	RAMANATHAPURAM	Mother Tongue	TAMIL
Religion	HINDU	Martial Status	MARRIED
Aadhaar No.	626189255135	PAN No.	EZEPS2129P
Physically Challenged	NO	Type of Disability	-
Address for Communication: 73/154 PERIYASURAIKKAIPATTI STREET RAJAPALAYAM VIRUDHUNAGAR DISTRICT TAMILNADU INDIA Pin-626117		Permenant Address: 73/154 PERIYASURAIKKAIPATTI STREET RAJAPALAYAM VIRUDHUNAGAR DISTRICT TAMILNADU INDIA Pin-626117	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
BSC	ELECTRONICS SCIENCE	MADURAI KAMARAJAR UNIVERSITY	2003	55	THIRD	REGULAR
MSC	ELECTRONICS SCIENCE	BHARATHIDASAN UNIVERSITY	2007	76	FIRST	REGULAR
M TECH	NANO TECHNOLOGY	KALASALINGAM UNIVERSITY	2015	77	FIRST	REGULAR

Experience				
Organization	Designation	Experience From	Experience TO	Work Nature

Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
20200152_200627171745	SKVB8938441505	27-06-2020	600	SUCCESS

Short proposal- Fabrication of Flexible Electronics using Nanomaterials

Research on Flexible plasmonics has arisen from the realization of flexible electronics and photonics, which are expected to play a significant role in next generation electronic devices [1]. A tremendous amount of work on the design and fabrication of various cost efficient electronic devices on flexible substrates for daily life applications has already been performed by various research groups [2]. Innovations in materials science are key research for next generation. Transistors, interconnects, memory cells, passive components and other assorted devices all have challenging material demands for flexible electronics to become a reality. Nanomaterials of various kinds have been found to represent a tremendously powerful tool with nanoparticles [3], nanotubes, nanowires [4] and engineered organic molecules [5] contributing to the realization of high-performance semiconductors, dielectrics and conductors for flexible electronics applications. However, the research on flexible plasmonics is relatively new and it is quickly moving toward the fabrication of low-cost plasmonic devices for daily-life applications. In the future, it is expected that flexible plasmonics can be combined with electronics for new generation devices with multiple functions in a single device.

After joining Kalasalingam Academy of Research and Education, I would like to make an attempt for fabrication of Low cost Flexible electronics using available semiconductor based materials. It will be further analyzed using different characterization techniques and the working of the device will be either done through simulator or through some testing devices.

References

- [1] Gelinck G H *et al* 2004 Flexible active-matrix displays and shift registers based on solution-processed organic transistors *Nature Mater.* **3** 106–10.
- [2] Zhou L, Wang A, Wu S C, Sun J, Park S and Jackson T N 2006 All-organic active matrix flexible display *Appl. Phys. Lett.* **88** 083502.
- [3] Fan Z, Ho J C, Jacobson Z A, Razavi H and Javey A 2008 Large-scale, heterogeneous integration of nanowire arrays for image sensor circuitry *Proc. Natl. Acad. Sci.* **105** 11066.
- [4] Sekitani T *et al* 2009 Organic nonvolatile memory transistors for flexible sensor arrays *Science* **326** 1516–9.
- [5] Mannsfeld S C B *et al* 2010 Highly sensitive flexible pressure sensors with microstructured rubber dielectric layers *Nature Mater.* **9** 859–64



Bharathidasan University

(Accredited with 'A' Grade by NAAC)

Tiruchirappalli



2

CENTRE: 45

REGISTER NO : P 05360001

Folio No: PS 0147

PROVISIONAL CERTIFICATE
(CHOICE BASED CREDIT SYSTEM)

This is to certify that **SANTHANAM B**
has qualified for the **DEGREE of MASTER OF SCIENCE,**
he/she having passed the **M.Sc. DEGREE EXAMINATIONS**
held in **APRIL 2007.**

SUBJECT : ELECTRONICS

CLASSIFICATION : FIRST CLASS - DISTINCTION WITH D GRADE.



[Handwritten Signature]

OFFICE SEAL

A S Begum
DEPUTY/ASSISTANT REGISTRAR

CONTROLLER OF EXAMINATIONS

DATE: 24-7-2007



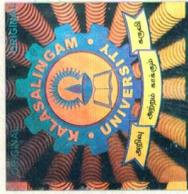
KALASALINGAM UNIVERSITY

Kalasalingam Academy of Research and Education

(Under Section 3 of UGC Act 1956)

Anand Nagar, Krishnankoil - 626 126, Tamil Nadu, INDIA

Sl. No : **172834**



Provisional Certificate

Register No: 9911123002

This is to certify that..... **SANTHANAM B**

has qualified for the Degree of **M.Tech.(Nanotechnology)**
..... he/she having passed the final examination

held in **June 2019** He/She has secured a CGPA of **7.67**

and placed in **Pass**



M. Prayash

Place: **Krishnankoil**

Date: **17/07/2019**

Controller of Examinations

THANTHAI HANS ROEVER COLLEGE

An ISO 9001 : 2000 CERTIFIED INSTITUTION

PERAMBALUR - 621 212.

ISO 9001 : 2000 CERTIFIED



TRANSFER-CUM-CONDUCT CERTIFICATE

Adm. No.: 563/2005-06

Sl.No.: 9842

Roll No. : PEL05A01

1. Name of the Student : SANTHANAM . B
2. Father's Name : E. BALUCHAMY
3. Nationality : INDIAN
4. Date of Birth as entered in the Admission Register : 11-11-1980
5. Religion, Caste : HINDU. MARAVAR
6. Date on which the Student was admitted in the College : 08-07-2005
7. Name of the Course / Subject : M. Sc. ELECTRONICS
8. Whether qualified for promotion to a higher class : REFER MARK SHEET
9. Whether the student has paid all fees due to the college : YES
10. Date on which the student actually left the college : APRIL - 2007
11. Conduct of the Student : GOOD



Date : 25/05/2007

[Signature]
Principal

THANTHAI HANS ROEVER COLLEGE,
PERAMBALUR - 621 212.
PERAMBALUR DISTRICT.

Original Verified
True copy/Attested

[Signature]
K. KALIDASS, M.A., B.L.,
Advocate & Notary Public
No.3, Koorai Pillaiyarkoil St.,
Rajapalayam - 626 117.



KALASALINGAM

Academy of Research and Education
DEEMED TO BE UNIVERSITY

(Under Section 3 of UGC Act 1956)

Anand Nagar, Krishnankoil - 626 126.
Srivilliputtur (Via), Virudhunagar (Dt), Tamil Nadu, India

TRANSFER CERTIFICATE

1. Name of the pupil : SANTHANAM B
2. Date of Birth : 11/11/1980
3. Nationality, Religion and Caste : Indian, Hindu and Maravar
4. Date of joining to the university : 01/07/2011
5. Course Details
 - a) Registration no. : 9911123002
 - b) Degree : M.Tech
 - c) Specialization : Nanotechnology
 - d) Batch : 2011 - 2013
6. Whether qualified for promotion to a higher class : Yes (Refer the Grade Sheet)
7. Is there any break during the studies (if so specify the period) : No
8. Whether the pupil has paid all the fees to the University : Yes
9. Date on which application for TC was made : 17/07/2019
10. Date on which actually the pupil left the university : 16/04/2013
11. Medium of instruction : English

Date: 17/07/2019



REGISTRAR

THANTHAI HANS ROEVER COLLEGE

An ISO 9001 : 2000 CERTIFIED INSTITUTION

PERAMBALUR - 621 212.

ISO 9001 : 2000 CERTIFIED



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Principal

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PERAMBALUR - 621 212.
PERAMBALUR DISTRICT.

Original Verified
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Rajapalayam - 626 117.



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Srivilliputtur (Via), Virudhunagar (Dt), Tamil Nadu, India

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11. Medium of instruction : English

Date: 17/07/2019



REGISTRAR



B. Santhanam


 இந்திய தேர்தல் ஆணையம்
 வாக்காளர் அடையாள அட்டை
ELECTION COMMISSION OF INDIA
IDENTITY CARD
 SKU1070499




வாக்காளர் பெயர் : சந்தானம்
Elector's Name : Santhanam
 கணவர் பெயர் : தமிழ்மொழிஅரசு
Husband's Name : Tamilmozhiarasu
 பாலினம் / Sex : பெண் / Female
 பிறந்த தேதி / Date of Birth: 11/11/1980

SKU1070499

முகவரி: 154 / 73
 பெரியசுரைக்காய்பட்டி தெரு
 இராஜபாளையம் நகராட்சி
 இராஜபாளையம்

Address : ..154 / 73
Periya Suraikepatti Street
Rajapalayam Municipality
Rajapalayam

நாள் / Date : 07/01/2014
 வாக்காளர் பதிவு அதிகாரியின்
 கையொப்ப முத்திரை
 202 - ராஜபாளையம்
 சட்டமன்ற தொகுதி

Facsimile Signature of
Electoral Registration Officer
202 - Rajapalayam
Assembly Constituency

முகவரியில் மாற்றம் ஏற்பட்டால் வாக்காளர்
 பட்டியலில் பதிவு முகவரியில் உள்ள பெயரைச்
 சேர்ப்பதற்கான உரிய படிவத்தில் இந்த
 அட்டையின் எண்ணை குறிப்பிட்டு இதே
 எண்ணுள்ள அட்டையை பெறவும்.
 In case of change of address, mention this card
 No. in the relevant form for including your name
 in the roll at the changed address and to obtain
 the card with same number. 68/ 895

B. Santhanam

DNC

சான்றிதழ் எண்:
Certificate No.



S.L.No.10/97

மாவட்ட குறியீடு எண்:
District Code:

16

வட்ட குறியீடு எண்:
Taluk Code:

01

கிராமக் குறியீடு எண்:
Village Code:

66

05693

சாதிச்சான்றிதழ்
COMMUNITY CERTIFICATE

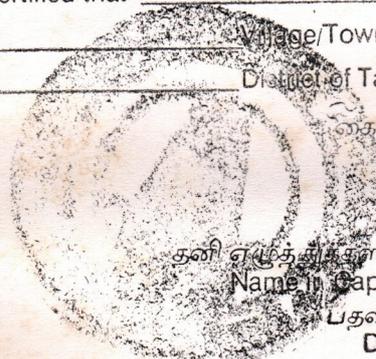
இலங்கையம் மாவட்டம் இலங்கையம் வட்டம்
மண்டலம் கிராமம் / நகரம், திரு/திருமதி / செல்வன் /
செல்வி சீதீதானம், தகப்பனார் /
கணவர் பெயர் மாணிக்கசாமி, இத்த-மறவர்
வகுப்பைச் சார்ந்தவர். அரசு (நிலை) ஆணை எண். 1567, சமூகநலத்துறை, நாள்
30-7-85 வரிசை எண் 219, படி. சீர் மரபினர் பிரிவினைச் சார்ந்தவர்
என சான்றளிக்கப்படுகிறது.

This is to Certify that _____ Son/Daughter of
_____ of _____ Village/Town
_____ Taluk _____ District of the State of
Tamil Nadu belongs to _____ Community, which is recognised
as a Denotified Community as per Government Orders (Manuscript Series)No.1567,
Social Welfare Dept., dated 30-7-85 vide Serial No. _____

2. திரு / திருமதி / செல்வன் / செல்வி சீதீதானம்
என்பவரும் அவருடைய குடும்பத்தினரும் தமிழ்நாட்டில் இலங்கையம்
மாவட்டத்தில் இலங்கையம் வட்டத்தில் மண்டலம்
கிராமத்தில் / நகரத்தில் வசித்து வருகிறார்கள் என சான்றளிக்கப்படுகிறது.

2. It is certified that _____ and his/her family ordinarily
reside(s) at _____ Village/Town
_____ Taluk _____ District of Tamil Nadu.

முத்திரை:
Seal:



கையொப்பம்:
Signature:

நாள்:
Date:

தனி எழுத்துகளில் பெயர்:
Name in Capital Letters:

பதவிப் பெயர்:
Designation:

M. MADASAMY

REGIONAL DEPUTY TAHSILDAR-4
BAMANATHAPURAM.

29-21

B. Sathar
25/6/2020