



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

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:27-05-2020

Department	PHYSICS	Application No.	20200026
Area of Research	NANOTECHNOLOGY	Research Mode	FULL TIME

Name :KANAGAPRIYA R
Date of Birth / Age :19-11-1993 / 26 Years
Gender :FEMALE
Category :BC
e-Mail ID :kanagapriyamsc@gmail.com
Mobile :9843822736



Father's/Husband's Name	KARTHIKEYAN K	Father's/Husband's Occupation	PHOTOGRAPHY
Family Income	80000	Residential Type	URBAN
Birth Place	TIRUNELVELI	Mother Tongue	TAMIL
Religion	HINDU	Martial Status	MARRIED
Aadhaar No.	2649 0865 4643	PAN No.	FMPPK2742K
Physically Challenged	NO	Type of Disability	-
Address for Communication: 3/472 SENAIYARPURAM COLONY PALLAPATTI ROAD, SIVAKASI VIRUDHUNAGAR DISTRICT TAMILNADU INDIA Pin-626189		Permenant Address: 3/472 SENAIYARPURAM COLONY PALLAPATTI ROAD, SIVAKASI VIRUDHUNAGAR DISTRICT TAMILNADU INDIA Pin-626189	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
B.SC	PHYSICS	THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN	2011-14	81.3	I	REGULAR
M.SC	PHYSICS	THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN	2014-16	79.7	I	REGULAR

Experience				
Organization	Designation	Experience From	Experience TO	Work Nature
THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN	ASSISTANT PROFESSOR	2016-05-01	2016-01-14	TEACHING

Payment Details

Transaction ID	Reference	Date of transaction	Amount	Status
20200026_200530113504	SHMP8846247418	30-05-2020	600	SUCCESS

OUTLINE OF PROPOSED RESEARCH SYNTHESIS AND CHARACTERIZATIONS OF FERRITE NANOPOWDER

Nanoparticles are those particles that are less than 100 nm in size . Nanotechnology is considered to be one of the most important future technologies involving several discipline of science including; solid state physics, solid state chemistry, materials engineering, medical science and biotechnology. The transition from bulk to nanoscale leads to a number of changes in structural, physical, magnetic and electrical properties. Due to high DC electrical resistivity and low dielectric losses, nanoparticles are potential candidates as high frequency electromagnetic wave absorbers. High transition temperature (ferrimagnetic to paramagnetic) makes them ideal for high temperature applications. Ferrites are iron containing complex oxide with interesting magnetic and electrical properties and have been studied extensively because of their important in basic as well as in applied research. The knowledge of cations distribution and spin alignment is essential to understand the magnetic and electrical properties of spinel ferrites. Ferrite nanoparticles or iron oxide nanoparticles (iron oxides in crystal structure of maghemite or magnetite) are the most explored magnetic nanoparticles up to date. Once the ferrite particles become smaller than 128 nm, they become superparamagnetic which prevents self agglomeration since they exhibit their magnetic behavior only when an external magnetic field is applied. The magnetic moment of ferrite nanoparticles can be greatly increased by controlled clustering of a number of individual superparamagnetic nanoparticles into superparamagnetic nanoparticle clusters, namely magnetic nanobeads. With the external magnetic field switched off, the remanence falls back to zero. Just like non-magnetic oxide nanoparticles, the surface of ferrite nanoparticles is often modified by surfactants, silica, silicones or phosphoric acid derivatives to increase their stability in solution

Importance:

Ferrite nano materials are chosen due to their high (>10⁶ -cm) DC electrical resistivity, good magnetic properties, chemically stable over wide temperature range and low eddy current losses. They have potential applications in: □ Electromagnetic absorbers, Data storage, Microwave devices, Core Material, Drug delivery etc.,

Objectives:

Synthesis and characterizations of Ferrite Nanopowder is the main objectives of this research proposal.

Technical programme:

Following technical studies are being involved in this research.

1. XRD (X-Ray Diffraction)
2. UV-Vis Spectroscopy
3. FT-IR Spectroscopy
4. SEM (Scanning Electron Microscope)
5. Magnetic Properties studies
6. Electric Properties studies

Views of Supervisor / Guide:

The proposed research work “SYNTHESIS AND CHARACTERIZATIONS OF FERRITE NANOPOWDER” Chosen by the research student has not been done earlier. The proposed work is possible one. Facilities to do this research work are available in our research laboratory.

Signature of Research student

Signature of Supervisor / Guide

RA 40117081



அறிவியற் புலம்
FACULTY OF SCIENCE

மதுரை காமராசர் பல்கலைக்கழக ஆட்சிப்பேரவை

கனகபிரியா. இரா.

இப்பல்கலைக்கழகத்தில் இணைந்த

தன்னாட்சிக் கல்லூரியான

தி ஸ்டாண்டர்டு பெயர் ஓர்க்ஸ் ராஜரத்தினம் மகளிர் கல்லூரி, சிவகாசி

விதித்திருந்த பாடப் பயிற்சியினையும் தேர்வினையும் நன்கு முடித்த பின்னர் ஏப்ரல் 2014 இல் நடைபெற்ற தேர்வில்

முதல் வகுப்பு

பெற்று தேர்வுற்றார் எனக் கல்லூரித் தேர்வு ஏற்புக்குழு பரிந்துரைத்தவாறு,

இயற்றியல் சிர்வில் அறிவியல் இணையர் பட்டம்

பெறுதற்கு உரியவர் ஆகின்றார் என இதன்வழி அறிவிக்கின்றது.

பல்கலைக்கழக இலச்சினையுடன் இது வழங்கப்படுகின்றது.

The Senate of the MADURAI KAMARAJ UNIVERSITY

hereby makes known that

KANAGAPRIYA R

has been admitted to the

DEGREE OF BACHELOR OF SCIENCE IN PHYSICS

he/she having successfully completed the course of studies and examination prescribed therefor by the

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI

(an Autonomous College of this University) and upon the recommendation by the College Awards Committee and

having been placed by them in the

FIRST CLASS

at the Examination held in

APRIL 2014

Register No. : 11UP015

Centre Code : 615

Given under the seal of the University



பல்கலைநகர், மதுரை - 625 021

Palkalainagar, Madurai - 625 021

நாள் Dated

28 October 2014

தேர்வாணையர்
Controller of Examinations

பதிவாளர்
Registrar

துணைவேந்தர்
Vice-Chancellor



THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI.
(An Autonomous Institution, Affiliated to Madurai Kamaraj University, Re-Accredited with "A" Grade by NAAC)



M.Sc., DEGREE EXAMINATIONS, APRIL 2016

STATEMENT OF MARKS AND GRADES

NAME : KANAGAPRIYA R

REGISTER No. : 14PP008

PROGRAMME : PHYSICS

DATE OF PUBLICATION : 10/05/2016

CODE	TITLE OF THE COURSE	CREDITS	MAXIMUM			MARKS SECURED			GRADE POINT	GRADE	RESULT	M&YR
			INT	EXT	TOT	INT	EXT	TOT				
CORE COURSES												
SEMESTER - I:												
14PPH11	MATHEMATICAL PHYSICS	5	25	75	100	23	69	82	8.2	D+	P	N14
14PPH12	ADVANCED CLASSICAL MECHANICS	4	25	75	100	25	51	76	7.6	D	P	N14
14PPH13	LINEAR INTEGRATED CIRCUITS	4	25	75	100	22	66	88	8.8	D++	P	N14
14PPH1L	PRACTICAL - I	4	40	60	100	39	55	94	9.4	O	P	N14
SEMESTER - II:												
14PPH21	QUANTUM MECHANICS - I	5	25	75	100	22	39	61	6.1	A	P	A15
14PPH22	STATISTICAL MECHANICS	4	25	75	100	24	56	80	8.0	D+	P	A15
14PPH23	ELECTROMAGNETIC THEORY	4	25	75	100	21	34	55	5.5	B+	P	A15
14PPH2L	PRACTICAL - II	4	40	60	100	40	59	99	9.9	O+	P	A15
SEMESTER - III:												
14PPH31	SOLID STATE PHYSICS - I	5	25	75	100	20	55	76	7.5	D	P	N15
14PPH32	QUANTUM MECHANICS - II	4	25	75	100	22	43	65	6.5	A+	P	N15
14PPH33	COMPUTER ORIENTED NUMERICAL METHODS	4	25	75	100	24	62	86	8.6	D++	P	N15
14PPH3L	PRACTICAL - III	4	40	60	100	40	60	100	10.0	O+	P	N15
SEMESTER - IV:												
14PPH41	SOLID STATE PHYSICS - II	5	25	75	100	24	49	73	7.3	A++	P	A16
14PPH42	NUCLEAR PHYSICS	5	25	75	100	23	56	79	7.9	D	P	A16
14PPH43	MOLECULAR SPECTROSCOPY	4	25	75	100	20	48	68	6.8	A+	P	A16
14PPH4P	PROJECT AND VIVA VOCE	5		100	100		98	98	9.8	O+	P	A16
<< END OF STATEMENT >>												
MEDIUM OF INSTRUCTIONS : ENGLISH												
ELECTIVE COURSES												
14PPH1E1	NANO PHYSICS	5	25	75	100	20	46	66	6.6	A+	P	N14
14PMT2E	NUMERICAL METHODS AND SOLUTIONS	5	25	75	100	24	67	91	9.1	O	P	A15
14PCH3E	MATERIALS SCIENCE	5	25	75	100	21	58	79	7.9	D	P	N15
14PPH4E1	ADVANCED DIGITAL ELECTRONICS	5	25	75	100	20	52	72	7.2	A++	P	A16
<< END OF STATEMENT >>												

SIGNATURE OF THE CANDIDATE	COURSES	CGPA	CREDITS	GRADE	CLASS	CREDITS	
						Earned	Required
<i>R. Kanagapriya</i>	CORE	7.97	70	D	FIRST	90	90
	ELECTIVE					20	



K. P. Radha
Dr. K. P. Radha

CONTROLLER OF EXAMINATIONS



D. Sasirekha
Dr. D. Sasirekha
PRINCIPAL

Note: Any alteration or overwriting makes this Statement of Marks and Grades invalid.

Government of Tamil Nadu
Department of Collegiate Education
TRANSFER CUM CONDUCT CERTIFICATE



Serial No . **9741**

Admission No . **8140**

1. (a) Name of the College : **THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI.**
(NATIONALLY REACCREDITED WITH A GRADE BY NAAC)
 COLLEGE WITH POTENTIAL FOR EXCELLENCE BY UGC
- (b) Name of the District : **VIRUDHUNAGAR DISTRICT.**
2. Name of the Pupil **(in BLOCK LETTERS)** : **KANAGAPRIYA R**
(as entered in +2 or equivalent certificate)
3. a) Name of the Father : RAMASAMY U
 b) Name of the Mother : MAHALAKSHMI R
4. Nationality, Religion and Caste : INDIAN, HINDU, VEERAKODI VELLALAR
5. Community **(SC/ST/OC/BC/MBC/DNC)** : BC
6. Sex : **Female**
7. Date of Birth as entered in the Admission Register (in figures and words) : 19-Nov-1993
(NINETEEN NOVEMBER ONE THOUSAND NINE HUNDRED NINETY-THREE)
8. Personal Marks of Identification :
- a) A BLACK MOLE ON LEFT ELBOW
- b) A BLACK MOLE ON LEFT SIDE OF NECK
9. Date of admission and Class in which admitted : 15-May-2014 I MASTER OF SCIENCE IN PHYSICS
10. a) Class in which the pupil was studying at the time of leaving : II MASTER OF SCIENCE IN PHYSICS
 b) The Course Offered Main : PHYSICS
 c) Ancillary : NIL
11. Whether the student has paid all the fees due to the College : YES
12. Whether the student was in receipt of any Scholarship (Nature of the scholarship to be specified) or any Educational Concessions : NIL
13. Whether the student has undergone Medical Inspection if any, during the academic year (first or repeat to be specified) : NIL
14. Date on which the student actually left the college : 01-Apr-2016
15. The Student's Conduct and Character : GOOD
16. Date on which application for Transfer Certificate was made on behalf of the Student by her parents or guardian : 30-Apr-2016
17. Date of the Transfer Certificate : 30-Apr-2016

18. Course of Study:-

Academic Year	Class Studied	First Language	Medium of Instruction
2014 - 2016	M.Sc. Physics	NIL	English
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19. Signature of the Principal with date and College Seal :

Dr. Sasireka
30/4/16

Dr. D. SASIREKA
PRINCIPAL.
The Standard Fireworks Rajaratnam
College for Women
SIVAKASI.

- Erasures and unauthenticated of fraudulent alternations in the certificate will lead to its cancellation.
- Should be signed in ink by the Head of the Institution who will be hold responsible for the correctness of the entries.
- I hereby declare that the particulars recorded against items 2 to 8 are correct and that no change will be demanded by me in future.

U. Ram
Signature of the Parent / Guardian

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI.

Affiliated to Madurai Kamaraj University

Reaccredited with 'A' Grade by NAAC & College with Potential for Excellence by UGC

Mrs. A.Aruna, B.Sc.,
Secretary



Dr.(Mrs.)D.Sasireka, M.Sc.,M.Phil.,Ph.D.
Principal

Ref. No. _____ SFRC / SF / APPT /2016-2017/11

30.05.2016

PROCEEDINGS OF THE SECRETARY, THE S.F.R. COLLEGE FOR WOMEN, SIVAKASI.

PRESENT : TMT. A. ARUNA, B.Sc.

APPOINTMENT ORDER

Sub:- The S.F.R.College For Women, Sivakasi –Teaching Staff - Temporary Appointment – Assistant Professor - Issue of Appointment Order – Reg.

* * * * *

Ms.R.KANAGAPRIYA, M.Sc. is appointed temporarily as Assistant Professor of Physics (Self financed) in this College for the academic year 2016-2017 from 01.06.2016.

She is directed to join duty on the forenoon of 01.06.2016.

RB

A. Aruna
SECRETARY
SECRETARY
The Standard Fireworks
Rajaratnam College
for Women,
SIVAKASI.

★ Enrichment with knowledge ★ Empowerment of women ★

Phone : 04562 - 220389
Fax : 04562 - 226695

E-Mail : sfrc@sfrcollege.org
Website : www.sfrcollege.org

आयकर विभाग
INCOME TAX DEPARTMENT



भारत सरकार
GOVT. OF INDIA



स्थायी लेखा संख्या कार्ड
Permanent Account Number Card

FMPPK2742K



नाम / Name
R KANAGAPRIYA

पिता का नाम / Father's Name
RAMASAMY

जन्म की तारीख / Date of Birth
19/11/1993

R. Kanagapriya
हस्ताक्षर / Signature



30052017



இந்திய தேர்தல் ஆணையம்
வாக்காளர் அடையாள அட்டை

ELECTION COMMISSION OF INDIA
IDENTITY CARD

SKU0816728



வாக்காளர் பெயர் : கனகபிரியா

Elector's Name : Kanagapriya

தந்தை பெயர் : ராமசாமி

Father's Name : Ramasamy

பாலினம் / Sex : பெண் / Female

பிறந்த தேதி / Date of Birth: 19/11/1993

SKU0816728

முகவரி: 110 / 38

தம்பாபிள்ளை தெரு

இராஜபாளையம் நகராட்சி

இராஜபாளையம்

Address : 110 / 38

Thambapillai st

Rajapalayam Municipality

Rajapalayam

நாள் / Date : 29/12/2011

வாக்காளர் பதிவு அதிகாரியின்
கையொப்ப முத்திரை

202 - ராஜபாளையம்
சட்டமன்ற தொகுதி

Facsimile Signature of
Electoral Registration Officer
202 - Rajapalayam
Assembly Constituency

முகவரியில் மாற்றம் ஏற்பட்டால் வாக்காளர்
பட்டியலில் புதிய முகவரியில் உங்கள் பெயரைச்
சேர்ப்பதற்கான உரிய படிவத்தில் இந்த
அட்டையின் எண்ணைக் குறிப்பிட்டு, இதே
எண்ணுள்ள அட்டையை பெறலாம்

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.

39/ 952

