



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

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:23-11-2020

Department	ELECTRONICS AND COMMUNICATION ENGINEERING	Application No.	202020026
Area of Research	WIRELESS COMMUNICATION	Research Mode	FULL TIME

Name :SHOBANA.P
Date of Birth / Age :21-08-1987 / 33 Years
Gender :FEMALE
Category :SC
e-Mail ID :shobshobana@gmail.com
Mobile :9786696613



Father's/Husband's Name	S.NANDA KUMAR	Father's/Husband's Occupation	MOBILE SHOP
Family Income	360000	Residential Type	URBAN
Birth Place	RAMANATHAPURAM	Mother Tongue	TAMIL
Religion	HINDU	Martial Status	MARRIED
Aadhaar No.	302730725486	PAN No.	CGAPS5701E
Physically Challenged	NO	Type of Disability	-
Address for Communication: 3/1 MARUTHUPANDIYAR STREET THATHANERI MADURAI DISTRICT TAMILNADU INDIA Pin-625018		Permenant Address: 3/1 MARUTHUPANDIYAR STREET THATHANERI MADURAI DISTRICT TAMILNADU INDIA Pin-625018	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
B.E.	ECE	CHENNAI ANNA UNIVERSITY	2009	70	FIRST	REGULAR
M.E.	PED	CHENNAI ANNA UNIVERSITY	2012	75	FIRST	REGULAR

Experience				
Organization	Designation	Experience From	Experience TO	Work Nature
KARPAGAM COLLEGE OF ENGINEERING	ASSISTANT PROFESSOR	2012-07-30	2013-05-18	FACULTY

Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
202020026_201215151320	VSM29561111291	15-12-2020	600	SUCCESS

A DESIGN OF DUMBELL SHAPED ANTENNA TO ENHANCE CAPACITY OF WIRELESS MIMO ANTENNA

With the development of wireless communication technology, the channel's capacity is escalating, and the speed of transmission is rising. The diverse operating system is becoming well-suited with one another by tuning the modes of service more flexible, which in turn makes the bands of operation to expand repeatedly. From the global system of mobile communication (GSM), PCS, DCS to the 4th generation (4G) communication system as well as from WiMAX to WLAN, standards may be used more and more in various systems simultaneously, as a result, there is a vital necessitate for the small size, multiband and integrated antennas. Multi-Input Multi-Output (MIMO) is the need for recent communication system for the enhancement of channel capacity. While the number of antenna array elements increased, the spacing between the array elements and size of the antenna reduced. Hence high coupling between the elements occur, and thus the channel capacity reduced which. There were several existing methods employs, however there were some limitations like reduced gain, dielectric constant, and bandwidth. So as to overcome this and to increase the performance characteristics such as bandwidth, gain of MIMO antennas and to lessen the dielectric constant of substrate material this proposed scheme is introduced. Using these considerations and requirements, an array of two-element MIMO system will be designed and developed with a less dielectric material (<4). So in this Taconic RF-35 dumbell-Shaped antennas are employed for 2.45GHz (ISM band) with multiple modes of operation to achieve the improved bandwidth of about -10 db. Simulation is done by HFSS 13.0.

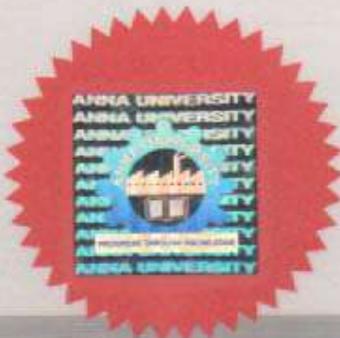
Anna University



Reg.No. 96010415014/RG

The Syndicate of the Anna University hereby makes known that
SHOBANA P *has been admitted to the* **DEGREE OF MASTER OF ENGINEERING** *in* **POWER ELECTRONICS AND DRIVES** *under the Faculty of Electrical Engineering, having completed the prescribed programme of study and having been certified by the duly appointed examiners to be qualified to receive the same, and has been placed in* **FIRST CLASS** *at the Examination held in* **JUNE 2012.**

Given under the Seal of the University



Anna University Chennai



Reg. No.92205106040/RG

The Syndicate of the Anna University Chennai hereby makes known that **SHOBANA P** has been admitted to the **DEGREE OF BACHELOR OF ENGINEERING** in **ELECTRONICS AND COMMUNICATION ENGINEERING** under the *Faculty of Information and Communication Engineering*, having completed the prescribed programme of study and having been certified by the duly appointed examiners to be qualified to receive the same, and has been placed in **FIRST CLASS** at the Examination held in **APRIL 2009**.

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Chennai 600 025
India
February 2010
UNIVERSITY

V. Jayaram
Controller of Examinations

S. Sankaranarayanan
Registrar

P. Sankaranarayanan
Vice-Chancellor

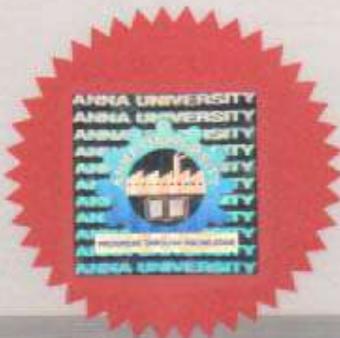
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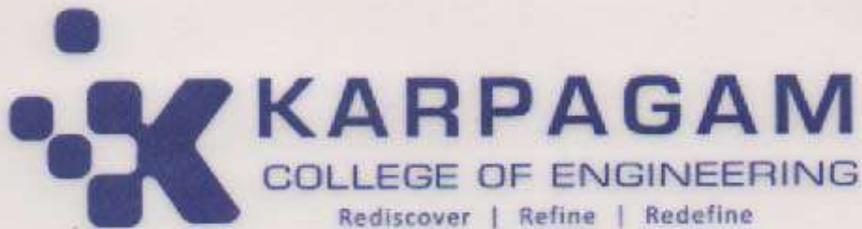


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Vice-Chancellor



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(AUTONOMOUS)

(AFFILIATED TO ANNA UNIVERSITY, CHENNAI / ACCREDITED BY NBA-AICTE, NEW DELHI)

S.F.No. 758, 759, 760, Othakkal Mandapam
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E-mail : karpagam@vsni.net

Web : www.kce.ac.in

Administrative Office :

Pollachi Main Road,

Eachanari Post,

Coimbatore - 641 021.

Phone : 0422 - 261 1146, 261 1082

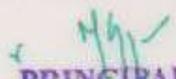
Fax : 0422 - 261 1043, 261 1646

May 18, 2013

SERVICE CERTIFICATE

This is to certify that **Ms. P. Shobana** worked as **Assistant Professor** in the **Department of Electronics and Communication Engineering** in our college from **30.07.2012** to **18.05.2013**. During the period of service, her character and conduct were good. We wish her all success in her future endeavours.




PRINCIPAL
KARPAGAM COLLEGE OF ENGINEERING
COIMBATORE - 32.

18/5

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प्लॉट नं: ३, सेक्टर ११, सी.बी.डी. बेलपुर,
नवी मुंबई-४०० ६१४.

आयकर विभाग

INCOME TAX DEPARTMENT



भारत सरकार

GOVT. OF INDIA

SHOBANA P

PANDI

21/08/1987

Permanent Account Number

CGAPS5701E

Signature

P. Shobana



भारतीय विशिष्ट पहचान प्राधिकरण
UNIQUE IDENTIFICATION AUTHORITY OF INDIA

முகவரி:

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மதுரை வடக்கு, மதுரை,
தமிழ் நாடு - 625018

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KEELAVAITHIYANATHAPURAM,
Madurai North, Madurai,
Tamil Nadu - 625018

Aadhaar-Aam Admi ka Adhikar



भारत सरकार

GOVERNMENT OF INDIA



சோபனா பி

Shobana P

பிறந்த நாள்/ DOB: 21/08/1987

பெண் / FEMALE



3027 3072 5486

ஆதார் - சாதாரண மனிதனின் அதிகாரம்

P.A.



ANNA UNIVERSITY, CHENNAI - 25
M.E. DEGREE EXAMINATIONS
CONSOLIDATED STATEMENT OF GRADES



SI. No. : **CSG 08317**

S116037451375P

Folio No. TVLP63043

NAME OF THE CANDIDATE	SHOBANA P	REGISTER NO.	96010415014
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DATE OF BIRTH	21-AUG-87	GENDER	FEMALE	MONTH & YEAR OF LAST APPEARANCE	JUN 2012
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COLLEGE OF STUDY	MEPCO SCHLENK ENGINEERING COLLEGE	REGULATIONS	2009
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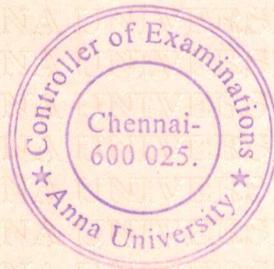
PROGRAMME & SPECIALIZATION	M.E. Power Electronics and Drives
----------------------------	-----------------------------------

SEM. NO.	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	MONTH & YEAR OF PASSING
01	MA902	Applied Mathematics for Electrical Engineers	4	D	6	JUN 2012
01	PE911	Analysis of Electrical Machines	3	B	8	DEC 2010
01	PE912	Analysis of Power Converters	3	E	5	DEC 2010
01	PE913	Analysis of Inverters	3	C	7	DEC 2010
01	PE914	Electromagnetic Field Computation and Modelling	4	B	8	DEC 2010
01	PS914	System theory	3	D	6	DEC 2010
02	PE921	Solid State DC Drives	3	C	7	NOV 2011
02	PE922	Solid State AC Drives	3	B	8	APR 2011
02	PE923	Special Electrical Machines	3	C	7	NOV 2011
02	PE924	Microcontroller and DSP Based System Design	3	C	7	APR 2011
02	PE961	Power Quality	3	B	8	APR 2011
02	PS923	Flexible AC Transmission Systems	3	D	6	APR 2011
02	PE926	Power Electronics and Drives Lab	2	S	10	APR 2011
03	CO951	Soft Computing Techniques	3	B	8	NOV 2011
03	PE972	Power Electronics for Renewable Energy Systems	3	C	7	NOV 2011
03	PS975	High Voltage Direct Current Transmission	3	A	9	NOV 2011
03	PE931	Project - (Phase I)	6	A	9	NOV 2011
04	PE941	Project - (Phase II)	12	A	9	JUN 2012

*** End of Statement ***

Cumulative Grade Point Average : 7.72

Classification : FIRST CLASS



Medium of Instruction : **ENGLISH**

Chennai - 25.

Date : 10/10/2012



[Signature]

CONTROLLER OF EXAMINATIONS



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மதுரை வடக்கு, மதுரை,
தமிழ் நாடு - 625018

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Tamil Nadu - 625018



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சோபனா பி

Shobana P

பிறந்த நாள்/ DOB: 21/08/1987

பெண் / FEMALE



3027 3072 5486

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आधार -साधारण मनीतलिन अतिकारम

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नवी मुंबई-४०० ६१४.

आयकर विभाग
INCOME TAX DEPARTMENT



भारत सरकार
GOVT. OF INDIA

SHOBANA P

PANDI

21/08/1987

Permanent Account Number

CGAPS5701E

Signature

P. Shobana

R.Dis...../9 dt

GCP(ET3)-26-4-5,51,500Cps.-10-5-99

SC



சான்றிதழ் எண் :
Certificate No

2256767

237/02 1/2

சாதிச் சான்றிதழ்

COMMUNITY CERTIFICATE

மாவட்டக் குறியீடு எண் :
District Code

14

வட்டக் குறியீடு எண் :
Taluk Code

02

கிராமக் குறியீடு எண் :
Village Code

021

மதுரை மாவட்டம் மதுரை வட்டம்
தத்தேனா கிராமம்/நகரம், திரு./திருமதி/செல்வி/
செல்வன் P. சோமனா தகப்பனார்/கணவர்
பெயர் P. சரணியா
கி.வ. - மதுரை

வகுப்பைச் சார்ந்தவர், தாழ்த்தப்பட்டோர் மற்றும் பழங்குடியினர் உத்தரவுகள் (திருத்தப்பட்ட) சட்டம், 1976, வரிசை எண் 56 படி தாழ்த்தப்பட்ட பிரிவைச் சார்ந்தவர் எனச் சான்றளிக்கப்படுகிறது.

This is to certify that Son / Daughter of Thiru of Village / Town, Taluk, District of the State of Tamil Nadu belongs to Community, which is recognised as a Scheduled Caste as per the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 1976, vide Serial No

2. திரு./திருமதி/செல்வன்/செல்வி P. சோமனா என்பவரும் அவருடைய குடும்பத்தினரும் தமிழ்நாட்டில் மதுரை மாவட்டத்தில் மதுரை வட்டத்தில் 21/16 மருதமங்குடி கால கிராமத்தில்/நகரத்தில் வசித்து வருகிறார்கள் எனச் சான்றளிக்கப்படுகிறது.

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



கையொப்பம் :
Signature

நாள் :
Date

தனி எழுத்துக்களில் பெயர் :
Name in Capital Letters

பதவிப் பெயர் :
Designation

TAHSILDAR,
Madurai North.

145-
14/1/2002



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கீழவைத்திய நாடபுரம்,
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Tamil Nadu - 625018



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GOVERNMENT OF INDIA



சோபனா பி

Shobana P

பிறந்த நாள் / DOB: 21/08/1987

பெண் / FEMALE



3027 3072 5486

Aadhaar-Aam Admi ka Adhikar

ஆடார் -சாதாரண மனிதனின் அதிகாரம்

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प्लॉट नं: ३, सेक्टर ११, सीडीडी बेलपुर,
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आयकर विभाग
INCOME TAX DEPARTMENT



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