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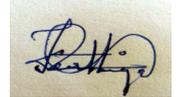Under sec. 3 of UGC Act 1956. Accredited by NAAC with "A" Grade

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

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:08-12-2020

Department	COMPUTER SCIENCE AND ENGINEERING	Application No.	202020074
Area of Research	NETWORKS	Research Mode	FULL TIME

Name :KEERTHIGA.S

Date of Birth / Age :07-08-1990 / 30 Years

Gender :FEMALE

Category :MBC

e-Mail ID :ayishasaranya@gmail.com

Mobile :8220172598

Father's/Husband's Name	SEKAR	Father's/Husband's Occupation	FARMER
Family Income	140000	Residental Type	RURAL
Birth Place	MADURAI	Mother Tongue	TAMIL
Religion	HINDU	Martial Status	SINGLE
Aadhaar No.	988094976869	PAN No.	EUAPK4220E
Physically Challenged	NO	Type of Disability	-

Address for Communication:	Permenant Address:
1/W-111 WEST STREET AUNDIPATTY THENI DISTRICT TAMIL NADU INDIA Pin-625512	1/W-111 WEST STREET AUNDIPATTY THENI DISTRICT TAMIL NADU INDIA Pin-625512

Qualification

Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
M.E`	CSE	ANNA UNIVERSITY	2015	7.3	FIRST CLASS	REGULAR
B.E	CSE	ANNA UNIVERSITY	2012	7.1	FIRST CLASS	REGULAR

Experience

Organization	Designation	Experience From	Experience TO	Work Nature
THENI KAMMAVAR SANGAM COLLEGE OF TECHNOLOGY	AP	2019-02-13	2020-12-08	TEACHING

Payment Details

Transaction ID	Reference	Date of transaction	Amount	Status
202020074_201210101513	VHMP9544415050	10-12-2020	600	SUCCESS

INCREASING QoS AND RELOCATING GATEWAY IN 4G NETWORK USING THRESHOLD: A GRAPH THEORITICAL APPORACH

ABSTRACT

1G technology is used to make a voice call only, this technology uses analog signals. In this technology signal quality is very less and it is not accurate so we move to the next generation. That is 2G technology; in this we can make a call and SMS to another node. In 2G we convert an analog signal into digital signals. It takes some time to convert analog in to digital, so the user have to wait until he/she get the replay from the other node. To overcome this we move to 3G technology. Internet was introduced in 3G. It is used to make a call, SMS and Internet. Packet switching was introduced in this technology. It transmits 384 kbps, i.e. for downloading a movie it will take min of 26 hrs. To overcome this limitation we move up to the next generation of technology that is 4G. This network was designed especially for making a video calls and fast browsing. So they introduced a latest technology LTE (Long Term Evaluation). By using this LTE, the network speed is better while comparing to the 3G technology (100 mbps), i.e. for downloading a movie it will take minimum of 6 min. But if a node gets a call from another node, it switches to 3G or 2G network. To overcome this VOLTE (Voice Over LTE) was introduced. By using this VOLTE we can browse and make a call at a time. So from this we can get a conclusion, the technologies are developed only to increase the speed of the internet. There is no focus on call quality and security of the data.

 4G, short for fourth generation, which is the current technology, is going to lead the mobile telecommunications technology. In our proposed system, the handoff/handover technique is implemented between gateway to gateway and base station to base station, to increase the speed by reducing the looping. Velocity based handoff scheme is introduced in 4G.In this method Stations will choose the Access Point based on the signal strength of Access Point and velocity of the moving node. Each Access Points propagates its coverage range; initially we set one threshold value for better handoff. When the node crosses the threshold value, it will scan the best Access Point for handoff. Threshold values are generated by signal strength of the Access Points. After select the Access Point, it will handoff / handover to the corresponding Access Point. Hence reducing the packet loss there by maintaining the signal strength stable during the handoff / handover.

Anna University

The Syndicate of the Anna University hereby makes known that **KEERTHIGA S** has been admitted to the **DEGREE OF MASTER OF ENGINEERING** in **COMPUTER SCIENCE AND 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 **JUNE 2015** .

Given under the Seal of the University

Chennai 600 025
India
January 2016

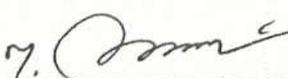Controller of Examinations   Registrar   Vice-Chancellor

Anna University

Reg.No. 98808132016/RG

The *Syndicate of the Anna University hereby makes known that*

KEERTHIGA S *has been admitted to the* **DEGREE OF BACHELOR OF ENGINEERING** *in* **COMPUTER SCIENCE AND 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* **NOVEMBER 2012.**
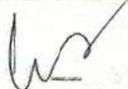
Given under the Seal of the University

Chennai 600 025
India
September 2013

Controller of Examinations   *Registrar*   *Vice-Chancellor*

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

K105021972527S   **Folio No.** AUY11667328

NAME OF THE CANDIDATE	KEERTHIGA S				REGISTER NO.			212213405017
DATE OF BIRTH	07-AUG-90	GENDER	FEMALE	MONTH & YEAR OF LAST APPEARANCE		JUN 2015		
COLLEGE OF STUDY	SAVEETHA ENGINEERING COLLEGE				REGULATIONS		2013	
PROGRAMME & SPECIALIZATION	M.E. Computer Science and Engineering							

SEM. NO.	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	MONTH & YEAR OF PASSING
01	CP7101	Design and Management of Computer Networks	3	C	7	JAN 2014
01	CP7102	Advanced Data Structures and Algorithms	3	E	5	JAN 2014
01	CP7103	Multicore Architectures	3	E	5	JAN 2014
01	MA7155	Applied Probability and Statistics	4	C	7	JAN 2014
01	CP7004	Image Processing and Analysis	3	C	7	JAN 2014
01	CP7007	Software Requirements Engineering	3	C	7	JAN 2014
01	CP7111	Advanced Data Structures Laboratory	2	S	10	JAN 2014
01	CP7112	Case Study - Network Design (Team Work)	1	S	10	JAN 2014
02	CP7201	Theoretical Foundations of Computer Science	4	C	7	JUN 2014
02	CP7202	Advanced Databases	3	E	5	JUN 2014
02	CP7203	Principles of Programming Languages	3	D	6	JUN 2014
02	CP7204	Advanced Operating Systems	3	E	5	JUN 2014
02	IF7202	Cloud Computing	3	E	5	JUN 2014
02	NE7202	Network and Information Security	3	C	7	JUN 2014
02	CP7211	Advanced Databases Laboratory	2	A	9	JUN 2014
02	CP7212	Case Study - Operating Systems Design (Team Work)	1	A	9	JUN 2014
03	CP7301	Software Process and Project Management	4	D	6	NOV 2014
03	CP7019	Managing Big Data	3	E	5	NOV 2014
03	CP7026	Software Quality Assurance	3	C	7	NOV 2014
03	CP7028	Enterprise Application Integration	3	D	6	NOV 2014
03	CP7311	Project Work (Phase I)	6	S	10	NOV 2014
04	CP7411	Project Work (Phase II)	12	S	10	JUN 2015

* * * End of Statement * * *

Cumulative Grade Point Average : 7.31

Classification : FIRST CLASS

Medium of Instruction : ENGLISH

Chennai - 25

Date 20/07/2015   **SIGNATURE OF THE STUDENT**   **CONTROLLER OF EXAMINATIONS**

ANNA UNIVERSITY, CHENNAI - 600 025

B.E. DEGREE EXAMINATIONS
CONSOLIDATED STATEMENT OF GRADES

Folio No. **TRIC107296**
K1052445211205

Field	Value
NAME OF THE CANDIDATE	KEERTHIGA S
COLLEGE OF STUDY	THENI KAMMAVAR SANGAM COLLEGE OF TECHNOLOGY
PROGRAMME & BRANCH	B.E. COMPUTER SCIENCE AND ENGINEERING
REGISTER NO.	95808132016
GENDER	FEMALE
MONTH & YEAR OF LAST APPEARANCE	November 2012
MEDIUM OF INSTRUCTION	English
DATE OF BIRTH	07-AUG-90
REGULATIONS	2008

SEM	COURSE CODE	COURSE TITLE	C	LG	GP	MONTH & YEAR OF PASSING
01	CS1101	Fundamentals of Computing and Programming	4	C	7	NOV 2008
01	HS1101	Technical English I	3	E	5	NOV 2008
01	HS1102	Engineering Physics I	3	E	5	NOV 2008
01	HS1103	Engineering Chemistry I	3	D	6	NOV 2008
01	MA1101	Mathematics I	4	C	7	NOV 2008
01	ME1101	Engineering Graphics	5	C	7	NOV 2008
01	CS1102	Computer Practice Laboratory I	2	S	10	NOV 2008
01	GE1101	Engineering Practices Laboratory	2	A	9	NOV 2008
02	EE1152	Electric Circuits and Electron Devices	4	B	8	APR 2009
02	GE1151	Basic Civil and Mechanical Engineering	4	B	8	APR 2009
02	HS1151	Technical English II	3	C	7	APR 2009
02	HS1152	Engineering Physics II	3	E	5	APR 2009
02	HS1153	Engineering Chemistry II	3	E	5	APR 2009
02	MA1151	Mathematics II	4	E	5	APR 2009
02	CS1151	Computer Practice Laboratory II	2	A	9	APR 2009
02	EE1155	Circuits and Devices Laboratory	2	D	6	APR 2009
02	HS1154	Physics and Chemistry Laboratory II	2	A	9	APR 2009
03	CS1201	Data Structures	3	E	5	NOV 2009
03	CS1202	Object Oriented Programming	3	C	7	NOV 2009
03	CS1206	Digital Principles and Systems Design	4	A	9	NOV 2009
03	EC1207	Analog and Digital Communication	4	D	6	APR 2010
03	HS1201	Environmental Science and Engineering	3	D	6	NOV 2009
03	MA1201	Transforms and Partial Differential Equations	4	D	6	NOV 2012
03	CS1203	Data Structures Laboratory	2	S	10	NOV 2009
03	CS1204	Object Oriented Programming Laboratory	2	S	10	NOV 2009
03	EC1208	Digital Laboratory	2	A	9	NOV 2009
04	CS1251	Design and Analysis of Algorithms	4	E	5	APR 2010
04	CS1252	Computer Organization and Architecture	3	D	6	APR 2010
04	CS1253	Operating Systems	3	D	6	APR 2010
04	CS1254	Database Management Systems	3	E	5	APR 2010
04	EC1257	Microprocessors and Microcontrollers	4	C	7	APR 2010
04	MA1252	Probability and Queueing Theory	4	A	9	APR 2010
04	EC1258	Microprocessors Laboratory	2	S	10	APR 2010
04	CS1256	Database Management Systems Laboratory	2	S	10	APR 2010
05	CS1301	Software Engineering	4	C	7	NOV 2010
05	CS1302	Computer Networks	4	A	9	NOV 2010
05	CS1303	Theory of Computation	3	B	8	APR 2011
05	CS1304	System Software	3	B	8	NOV 2010
05	CS1305	Visual Programming	3	B	8	NOV 2010
05	MA1301	Discrete Mathematics	4	E	5	NOV 2010
05	CS1306	Networks Laboratory	2	S	10	NOV 2010
05	CS1307	System Software Laboratory	2	A	9	NOV 2010
05	CS1308	Visual Programming Laboratory	2	A	9	NOV 2010
06	CS1351	Artificial Intelligence	4	C	7	APR 2011
06	CS1352	Principles of Compiler Design	3	B	8	APR 2011

SEM	COURSE CODE	COURSE TITLE	C	LG	GP	MONTH & YEAR OF PASSING
06	CS1353	Distributed Systems	3	C	7	APR 2011
06	CS1354	Graphics and Multimedia	3	C	7	APR 2011
06	CS1355	Cryptography and Network Security	3	C	7	NOV 2011
06	MA1251	Numerical Methods	4	C	7	APR 2011
06	CS1356	Compiler Design Laboratory	2	S	10	APR 2011
06	CS1360	Graphics and Multimedia Laboratory	2	S	10	APR 2011
07	HS1301	Communication and Soft Skills Laboratory	2	A	9	NOV 2011
07	CS1310	Object Oriented Analysis and Design	4	D	6	NOV 2011
07	CS1401	Internet Computing	4	C	7	NOV 2011
07	IT1402	Middleware Technologies	3	E	5	NOV 2011
07	MG1301	Total Quality Management	3	C	7	NOV 2011
07	CS1007	Wireless Network Systems	3	C	7	NOV 2011
07	CS1011	Data Warehousing and Mining	3	D	6	NOV 2011
07	CS1311	CASE Tools Laboratory	2	S	10	NOV 2011
07	CS1402	Software Development Laboratory	2	A	9	NOV 2011
08	IT1404	Middleware Technologies Laboratory	2	C	7	APR 2012
08	CS1451	Network Protocols	3	D	6	APR 2012
08	IT1403	Mobile Computing	3	C	7	APR 2012
08	CS1014	User Interface Design	3	B	8	APR 2012
08	CS1023	Software Quality Management	3	B	8	APR 2012
08	CS1455	Project Work	6	S	10	APR 2012

*** End of Statement ***

Cumulative Grade Point Average : 7.07

Classification : FIRST CLASS

Range of Marks	90 - 100	80 - 89	70 - 79	60 - 69	55 - 59	50 - 54	< 50
Letter Grade	S	A	B	C	D	E	U
Grade Point	10	9	8	7	6	5	0

SEM - Semester, C - Credits, LG - Letter Grade, GP - Grade Point

$$CGPA = \frac{\sum_{i=1}^{n} C_i \, GP_i}{\sum_{i=1}^{n} C_i}$$

where
C_i is the credits assigned to the course
GP_i is the point corresponding to the grade obtained for each course
n - is number of all courses successfully cleared during all the semesters

Chennai - 600 025
Date : 12/03/2013

SIGNATURE OF THE STUDENT

CONTROLLER OF EXAMINATIONS

SAVEETHA ENGINEERING COLLEGE

Approved by AICTE I Affiliated to Anna University I Accredited by NBA

www.saveetha.ac.in

Saveetha Nagar, Thandalam. Chennai - 602 105. Ph.: 044 26811499 / 66726672. Email : principal@saveetha.ac.in

S.No.: 5931   Reg. No.: 212213405017

TRANSFER CERTIFICATE

1. Name of the Student (in Block Letters) : S. KEERTHIGA

2. Date of Birth as entered in the Admission Register : 07 - 08 - 1990

3. Name of the Father / Mother / Guardian : N.K.V. SEKAR

4. Nationality, Religion : Indian, Hindu

5. Sex : Female

6. Community : OC / BC / MBC / SC / ST

7. Date of Admission in this College : 13-09-2013

8. Course, Year & Semester in which the Student was admitted : M.E - Computer Science & Engineering / Sep'2013/ I Semester.

9. Course, Year & Semester in which the Student was studying at the time of leaving : M.E. -Computer Science & Engineering / June 2015/ IV Semester.

10. Whether the student qualified for promotion to higher studies : Refer Mark Sheet.

11. Date on which the student actually left the College : 25|6|15

12. Character and Conduct of the Student : Good

College Seal

15 JUL 2015

R-Vachat 15|7|15

Principal
PRINCIPAL
SAVEETHA ENGINEERING COLLEGE
SAVEETHA NAGAR,
THANDALAM, CHENNAI - 602 105.

Declaration by the Student

I hereby declare that the particulars recorded against Serial No. 1 to 7 are correct and that no change will be demanded by me in future.
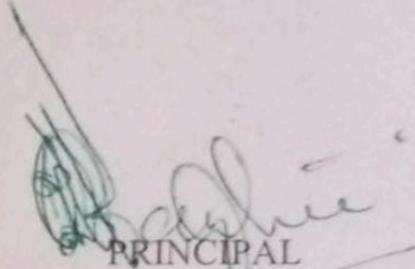
Signature of the Student

Date: 08.12.2020

CERTIFICATE

Ms.S.Keerthiga, is working in this institution from 13.02.2019 to till date as

an Assistant Professor in Computer Science and Engineering Department.

PRINCIPAL

Dr. D.NAGARATHINAM, M.E., Ph.D.,
Principal
Theni Kammavar Sangam
College of Technology
Koduvilarpatti, THENI - 625534

आयकर विभाग
INCOME TAX DEPARTMENT

भारत सरकार
GOVT. OF INDIA

KEERTHIGA

SEKAR

07/08/1990

Permanent Account Number

EUAPK4220E

Signature

31122016

இந்திய தேர்தல் ஆணையம்

வாக்காளர் அடையாள அட்டை

ELECTION COMMISSION OF INDIA
IDENTITY CARD

NNH0712612

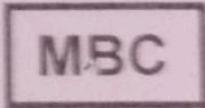வாக்காளர் பெயர் : கீர்த்திகா

Elector's Name : Keerthika

தந்தை பெயர் : சேகர்

Father's Name : SEkar

பாலினம் / Sex : பெண் / Female

பிறந்த தேதி / Date of Birth: 07/08/1990

GCP(ET3)-26-5-4,74,300 Cps.-10-5-39

R.Dis. 86 A/க? dt.

MBC

சான்றிதழ் எண் :
Certificate No :

மாவட்டக் குறியிடு எண்
District Code | 2 9

வட்டக் குறியிடு எண்
Taluk Code | 0 3

கிராமக் குறியிடு எண்
Village Code | 0 0 8

1926369

சாதிச் சான்றிதழ்
COMMUNITY CERTIFICATE

தேனி மாவட்டம் ஆண்டிபட்டி வட்டம்

கிராஜதானி கிராமம்/நகர திரு / திருமதி செல்வி

செல்வன் கீர்த்திகா தகப்பனார்/கணவர்

பெயர் சேகர்

இந்து - ராஜகம்பளம்

வகுப்பைச் சார்ந்தவர், அரசு ஆணை நிலை எண். 28 பிறப்பட்ட மற்றும்
மிகவும் பிறப்பட்ட பிரிவின் நலத்துறை நாள் 19.7 படி வரிசை எண் 178 படி
மிகவும் பிறப்பட்ட பிரிவினைச் சார்ந்தவர் எனச் சான்றளிக்கப்படுகிறது.

This is to certify that __Keerthiga__ Son / Daughter
of Thiru. __Sekar__ of __Rajathani__
Village / Town __Aundipatty__ Taluk
__Theni__ District of the State of Tamil Nadu belongs to
Hindu - Raja Kambalam community, which is recognised as a
Most Backward Class as per Government Order (Manuscript Series) No. 28,
Backward Classes and Most Backward Classes Welfare dated 19th July 1994
vide Serial No. __178__

2. திரு / திருமதி / செல்வன் / செல்வி __கீர்த்திகா__
என்பவரும் அவருடைய குடும்பத்தினரும் தமிழ்நாடு தேனி
மாவட்டத்தில் ஆண்டிபட்டி த்தில் தக்கம்மாப்பட்டி கிராமத்தில்
நகரத்தில் வசித்து வருகிறார்கள் எனச் சான்றளிக்கப்படுகிறது.

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

முத்திரை.
Seal.

கையொப்பம்
Signature

நாள்
Date

தனி சார்பதிக்களின் பெயர்
Name in Capital Letters

பதவிப் பெயர்
Designation

31/5/02

<center>**ANNEXURE-I**</center>

<center><u>CERTIFICATE FROM THE ORGANISATION WHERE THE CANDIDATE IS EMPLOYED</u></center>

Certified that Mr./Ms./Mrs. _____ S. KEERTHIGA _____ is employed as _____ Assistant Professor _____ (Designation) in the _____ Computer Science & Engineering _____ (Department/Division Name) of _____ Theni Kammavar Sangam College of Technology. _____ (Institution/Industry Name).

We have no objection in forwarding his/her application for the Ph.D. Research Programme.

FOR FULL TIME:

The candidate will be sanctioned leave for the duration of the research programme and will be relieved from duty from _____ to _____ to undertake the full time research work in the University.

FOR PART TIME:

The candidate will be permitted to undertake part time study in the University/College and will be allowed to be present for discussions with the supervisor, attending course works, conduct of experiments and participations in seminars and related presentations. Further the required facilities at our organization will also be provided to the candidate for doing research.

Date: 09.12.2020

Signature of the Head of Organization with office seal

Dr. D.NAGARATHINAM, M.E., Ph.D.,
Principal
Theni Kammavar Sangam
College of Technology
Koduvilarpatti, THENI - 625534