3.4.2 Details of PhD students registered per teacher (as per the data given w.r.t recognized PhD guides/ supervisors provided at 3.2.3 metric) during the year

Name of full-time teachers with PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt during the year	Qualification (PhD / D.M. / M.Ch. / D.N.B Super Specialty /DSc / DLitt) and Year of obtaining	Whether recognised as a research guide for PhD?	Year of recognition as a Research Guide	Is the teacher still serving the institution?/If not,when did he/she leave the institution?	Name of the scholar	Month and Year of registration of the scholar	PhD Scholar's Title of the Thesis
Dr.K.Umadevi	Ph.D	YES	2016	YES	Ms.S.S.SATHYA	2018	Dyanamic Rate Aware IE Strategic Classified Key Distribution Based Secure Routing for QoS Development in WMN
Dr.K.Umadevi	Ph.D	YES	2016	YES	Mr.N.Venkateswaran	2018	Wrapper Filter Based Deep Learning Methods For Efficient Intrusion Detection
Dr.K.Umadevi	Ph.D	YES	2016	YES	Mr.V.Vijayakumar	2018	Real Time Personalized Targetic Analysis With Multi Level Access Restriction For Impove Privacy Preservation In Cloud Environment
Dr.K.Umadevi	Ph.D	YES	2016	YES	Mr.A.Yogeshwaran	2018	Efficient Wideband Low Noise Amplifier
Dr.K.Umadevi	Ph.D	YES	2016	YES	Mr.A.Vijay	2018	Developing Optimal Spectrum Sharing Protocol and Optimal Linear Precoding For Multi-Carrier Codedivision Multiple Access Using Massive Multiple Input Multiple Output in 5G Wireless Networks
Dr.C.Venkatesh	Ph.D	YES	2015	NO/NOVEMBER 2021	P. SIVA SANKARAN	JANUARY'18	Smart mind reading through diverse inteligent techniques
Dr.C.Venkatesh	Ph.D	YES	2015	NO/NOVEMBER 2021	M.ARUN KUMAR	JANUARY'18	Application of IOT in auto mobiles
Dr.C.Venkatesh	Ph.D	YES	2015	NO/NOVEMBER 2021	V.P.INBAVALLI	JANUARY'18	Frequency selective surface to control the propagation of mutilple electromagnetic communication bands
Dr.C.Venkatesh	Ph.D	YES	2015	NO/NOVEMBER 2021	MAHENDRAN	Ι ΙΔΝΙΙΔΕΥΎΛ	An adaptive Method for Energy Management in Smart Grid Environment



DIRECTOR

CENTRE FOR RESEARCH

CHENNAI - 600 025

ANNA UNIVERSITY

1 9 MAY 2016

621



Telephone: +91-44-2235 7366/2235 0361 : +91-44-2220 1213 Fax

Email

dirresearch@annauniv.edu dirresearch@gmail.com

Date: 13.05.2016

Lr. No: SUPR/27th/DB

Dr. Sujatha B Professor

Department of Computer Science and Engineering Sengunthar Engineering College,

Tiruchengode - 637205

Sir/Madam,

Sub : Ph.D./M.S. (By Research) Programme - Supervisor Recognition - Orders - Issued.

Ref: Your application for Supervisor Recognition.

I am by direction to inform that you are recognized as a Supervisor (Ref.No: 2740126) for guiding Ph.D. and M.S. (By Research) scholars of this University under the faculty of Information and Communication Engineering.

Area of Specialization: "Data Mining, Cloud Computing, Networks, Image Processing"

The functions and responsibilities of the supervisor are described under clause (7) of the Ph.D./M.S. (By Research) regulations of this University and applicable as and when amendments are made to the Regulations from time to time.

Supervisors working in the recognized R&D Centre of Industries/non-recognized research Departments of Engineering College/Architecture Schools situated within Tamil Nadu shall function only as Joint Supervisor.

regulations (available in to adhere strictly the request you https://cfr.annauniv.edu/research/instructions.php) when you start guiding scholars.

In all future correspondence quote 2740126 for reference.

Copy to:

Department of Computer Science and Engineering Sengunthar Engineering College, Tiruchengode - 637205



ANNA UNIVERSITY CHENNAI - 600 025

Telephone: +91-44-2235 7366/2235 0361 Fax: +91-44-2220 1213

ail : dirresearch@annauniv.edu dirresearch@gmail.com

Date: 13.05.2016

Lr. No: SUPR/27th/DB

To
Dr. Venkatesh C
Professor
Department of Electronics and Communication Engineering
Sengunthar Engineering College,
Tiruchengode - 637205

Sir/Madam.

Sub : Ph.D./M.S. (By Research) Programme - Supervisor Recognition - Orders - Issued.

Ref: Your application for Supervisor Recognition.

I am by direction to inform that you are recognized as a Supervisor (Ref.No: 2740091) for guiding Ph.D. and M.S. (By Research) scholars of this University under the faculty of Information and Communication Engineering.

Area of Specialization: "Communication Systems, Wireless Sensor Networks, Soft Computing"

The functions and responsibilities of the supervisor are described under clause (7) of the Ph.D./M.S. (By Research) regulations of this University and applicable as and when amendments are made to the Regulations from time to time.

Supervisors working in the recognized R&D Centre of Industries/non-recognized research Departments of Engineering College/Architecture Schools situated within Tamil Nadu shall function only as Joint Supervisor.

I request you to adhere strictly the regulations (available in https://cfr.annauniv.edu/research/instructions.php) when you start guiding scholars.

In all future correspondence quote 2740091 for reference.

DIRECTOR

Copy to:

The Head
Department of Electronics and Communication Engineering
Sengunthar Engineering College,
Tiruchengode - 637205



ANNA UNIVERSITY CHENNAI - 600 025



Telephone: +91-44-2235 7366/2235 0361

Fax :+91-44-2220 1213

Email : dirresearch@annauniv.edu

Date: 31.03.2016

Lr. No: SUPR/27th/DB

To
Dr. Palanisamy K L
Professor
Department of Physics
Sengunthar Engineering College,
Tiruchengode - 637205

Sir/Madam,

Sub : Ph.D./M.S. (By Research) Programme - Supervisor Recognition - Orders - Issued.

Ref: Your application for Supervisor Recognition.

I am by direction to inform that you are recognized as a Supervisor (Ref.No: 2770066) for guiding Ph.D. and M.S. (By Research) scholars of this University under the faculty of Science and Humanities.

Area of Specialization: "Physics, Nanomaterials"

The functions and responsibilities of the supervisor are described under clause (7) of the Ph.D./M.S. (By Research) regulations of this University and applicable as and when amendments are made to the Regulations from time to time.

Supervisors working in the recognized R&D Centre of Industries/non-recognized research Departments of Engineering College/Architecture Schools situated within Tamil Nadu shall function only as Joint Supervisor.

I request you to adhere strictly the regulations (available in https://cfr.annauniv.edu/research/instructions.php) when you start guiding scholars.

In all future correspondence quote 2770066 for reference.

DIRECTOR

Copy to:

The Head
Department of Physics
Sengunthar Engineering College,
Tiruchengode - 637205



ANNA UNIVERSITY CHENNAI - 600 025

Telephone +91-44-2235 7366/2235 0361

Fax Email +91-44-2220 1213 dirresearch@annauniv.edu

dirresearch@gmail.com



Date: 31.12.2016

Lr. No: SUPR/27th/DB

To
Dr. Uma Devi K
Professor
Department of Electrical and Electronics Engineering
Sengunthar Engineering College,
Tiruchengode-637205

Sir/Madam,

Sub : Ph.D./M.S. (By Research) Programme - Supervisor Recognition - Orders - Issued.

Ref: Your application for Supervisor Recognition.

I am by direction to inform that you are recognized as a Supervisor (Ref.No: 2830071) for guiding Ph.D. and M.S. (By Research) scholars of this University under the faculty of Electrical Engineering.

Area of Specialization: "Brush less DC Machines, Finite Element Analysis, Exterior Rotor, Permanent Magnet"

The functions and responsibilities of the supervisor are described under clause (7) of the Ph.D./M.S. (By Research) regulations of this University and applicable as and when amendments are made to the Regulations from time to time.

Supervisors working in the recognized R&D Centre of Industries/non-recognized research Departments of Engineering College/Architecture Schools situated within Tamil Nadu shall function only as Joint Supervisor.

I request you to adhere strictly the regulations (available in https://cfr.annauniv.edu/research/instructions.php) when you start guiding scholars.

In all future correspondence quote 2830071 for reference.

DIRECTOR

Copy to:

The Head
Department of Electrical and Electronics Engineering
Sengunthar Engineering College,
Tiruchengode-637205

Lr. No: SUPR/32nd/DB

John 14

Date: 24.05.2019

To

Dr. Ponmurugan P
Assistant Professor
Electrical and Electronics Engineering
Sri Krishna College of Technology
Coimbatore-641042

Sir/Madam,

Sub: Ph.D.Programme - Supervisor Recognition - Orders - Issued, Ref: Your application for Supervisor Recognition.

I am by direction to inform that you are recognized as a Supervisor (Ref.No: 3330034) for guiding Ph.D. scholars of this University under the faculty of Electrical Engineering.

Area of Specialization: "Machine Design, Soft Computing, Control System"

The functions and responsibilities of the supervisor are described under clause (7) of the Ph.D.regulations of this University and applicable as and when amendments are made to the Regulations from time to time.

Supervisors working in the recognized R&D Centre of Industries/non-recognized research Departments of Engineering College/Architecture Schools situated within Tamil Nadu shall function only as Joint Supervisor.

I request you to adhere strictly the regulations (available in https://cfr.annauniv.edu/research/instructions.php) when you start guiding scholars.

In all future correspondence quote 3330034 for reference.

DIRECTOR

Copy to:

The Head Electrical and Electronics Engineering Sri Krishna College of Technology Coimbatore-641042

K. Enda

PROFILE

SCHOLAR DETAIL

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Minutes of the First Doctoral Committee Meeting

Minutes of the DC/MC

Minutes of the Synopsis DC ! Meeting for Confirmation Meeting & Examiner's Panel







Minutes for Thesis Resubmission



Panel of Subject Experts for Ph.D/M.S(Research) Public Viva-Voce Examination





Proceedings for Viva-Voce Examination

Particulars Submission

Claim form and Account Synopsis / Thesis Status





Yearly Progress Report Approval



Jan 2021 - Dec 2021

Document Despatched Status





Name

: VENKATESH C

Old / New Reco. No.: 704029 / 2740091

: Information and Communication Faculty

Engineering

Region : Anna University-CHENNAI

: 9842755552 Mobile

Email : prof.c.venkatesh@gmail.com

Office Address :

Sengunthar Engineering College

Tiruchengode Namakkal 637205

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SCHOLAR DETAIL

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NOTE:

SCHOLAR DETAILS

S.NO	REGNO	NAME	DEGREE	FACULTY	REG Year	REG SESS	SUPERVISOR	STATUS
1	18133691191	Sivasankaran P	Ph.D.	Elec	2018	JAN	Supervisor	Confirmation completed
2	18144691526	Arunkumar M	Ph.D.	Ice	2018	JAN	Supervisor	Confirmation completed
3	18244691132	Inbavalli V P	Ph.D.	Ice	2018	JAN	Supervisor	Confirmation completed
4	20143691108	Mahendran S	Ph.D.	Elec	2020	JAN	Supervisor	Course Work

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Minutes of the Synopsis DC Meeting & Examiner's Panel

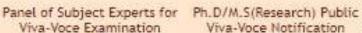






Minutes for Thesis Resubmission







Viva-Voce Notification



Proceedings for Viva-Voce Examination



Particulars Submission



Claim form and Account Synopsis / Thesis Status



Yearly Progress Report Approval



Document Despatched Status





Name

: UMADEVI K

Old / New Reco. No.: / 2830071

Faculty : Electrical Engineering

Region : Anna University-CHENNAI

Mobile : 9443035709

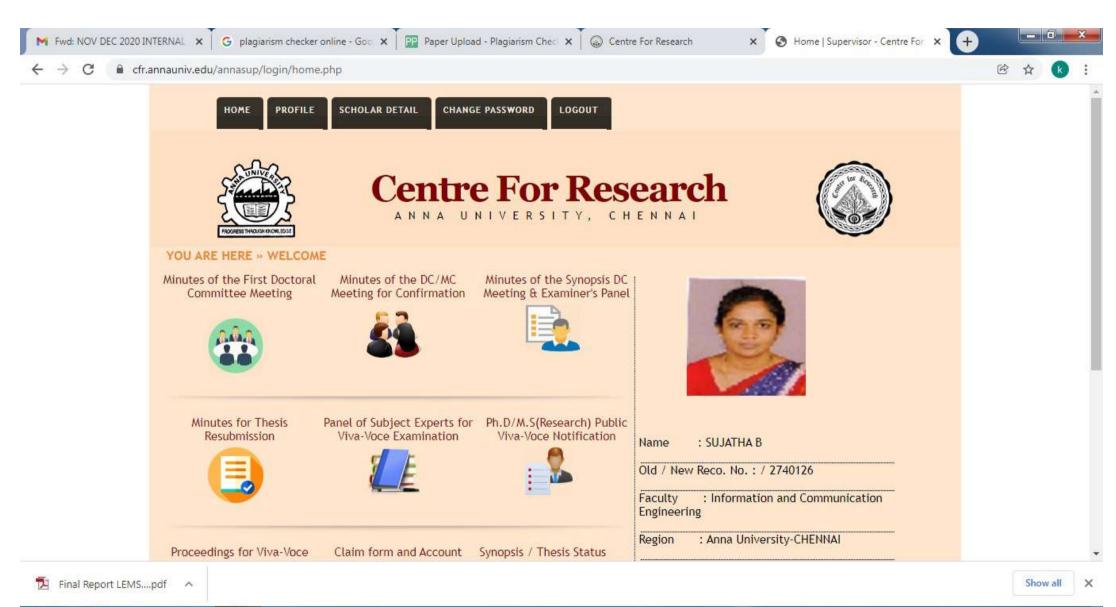
: kindlyuma@gmail.com Email

Office Address:

Sengunthar Engineering college Tiruchengode

Namakkal 637205

Jan 2021 - Dec 2021

























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Minutes for Thesis Resubmission



Panel of Subject Experts for Ph.D/M.S(Research) Public Viva-Voce Examination



Viva-Voce Notification



Proceedings for Viva-Voce Examination



Claim form and Account Synopsis / Thesis Status Particulars Submission







Yearly Progress Report. Approval



Document Despatched Status





Name : PONMURUGAN P

Old / New Reco. No.: / 3330034

Faculty : Electrical Engineering

Region : Anna University-CHENNAI

Mobile : 9698730088

Email : murugan.pmsm@gmail.com

Office Address:

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TIRUCHENGODE Namakkal 637205

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Minutes of the DC/MC Meeting for Confirmation

Minutes of the Synopsis DC Meeting & Examiner's Panel









Minutes for Thesis Resubmission



Viva-Voce Examination



Panel of Subject Experts for Ph.D/M.S(Research) Public **Viva-Voce Notification**



Proceedings for Viva-Voce Examination



Claim form and Account Particulars Submission



Synopsis / Thesis Status





Name

: PALANISAMY K L

Old / New Reco. No.: / 2770066

: Science and Humanities **Faculty**

Region : Anna University-CHENNAI

Mobile : 9965139339

Email : klpalanisamy@gmail.com

Office Address:

SENGUNTHAR ENGINEERING COLLEGE

TIRUCHENGODE Namakkal

637205

Yearly Progress Report Approval



Jan 2021 - Dec 2021

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AR13 - Dt: 04-12-2020 07:46:51

Registration No.: 18144691526

YEARLY PROGRESS REPORT January 2020 - December 2020

1. Particulars of Research Scholar

Name

: Arunkumar M

Faculty

: Information and Communication Engineering

Degree

Email

: arunkumar2908@gmail.com

Contact No.

: 9894093603

Designation & Institution where : Assistant Professor, Electronics And Communication

employed (if applicable)

Engineering, Sengunthar Engineering College,

TAMILNADU 637205

2. Registration Details

(a) Category of registration

: Part-Time

(b) Month & Year of Admission

: JAN & 2018

(c) Whether provisional registration confirmed? : Yes / No

If yes, give reference No. and date

: 18144691526/PL.D/AR13 . 8 18.3.2020

research is conducted

3. Name of the Deptartment / Centre where the : Department of Electronics and Communication Engineering

4. Particulars of the Supervisor / Joint Supervisor / Supervisor In-Charge /

Research Co-Ordinator SUPERVISOR DETAILS:

Name / Reference No. : Dr. Venkatesh C / 2740091

Designation

: Professor

Department

: Department of Electronics and Communication Engineering

Address

: Sengunthar Engineering College, Tiruchengode, Namakkal

Email / Mobile. Institute Code

: prof.c.venkatesh@gmail.com / 9842755552

: 4730007-Electronics and Communication Engineering Sengunthar Engineering College, Tiruchengode

JOINT SUPERVISOR / SUPERVISOR IN-CHARGE DETAILS:

Joint Supervisor / Supervisor In-Charge

: Not Applicable

- Tentative title of the Research work: Application of lot Concepts in Automation.
- 6. Duration of research outside the University (if applicable)
- 7. Break of study period (if applicable)



ANNA UNIVERSITY CHENNAL-600 025



AR11 - Dt: 10-12-2019 13:09:04

Registration No.: 18133691191

SEMESTER PROGRESS REPORT July - December 2019

Particulars of Research Scholar

Name

Siyasankaran P

Faculty

Electrical Engineering

Degree Email

Ph.D.

sivaarm05@gmail.com

Contact No.

9789689096

employed (if applicable)

Designation & Institution where : Assistant Professor Electronics And Communication

Engineering sengunthar engineering college.

NAMAKKAL TAMILNADU 637205



(a) Category of registration

: Part-Time

(b) Month & Year of Admission

JAN & 2018

(c) Whether provisional registration confirmed? : Yes / Ne If yes, give reference No, and date

:13

Name of the Deptartment: Centre where the research is conducted

Department of Electronics & Communication Engineering

4. Particulars of the Supervisor / Joint Supervisor / Supervisor In-Charge / Research Co-Ordinator

SUPERVISOR DETAILS:

Name Reference No.

Dr. Venkatesh C / 2740091

Designation

Department

Professor

ADD ESS

Department of Electronics & Communication Engineering Sengunthar Engineering College, Tiruchengode, Namakkal

Email Mobile.

proficivenkatesh@gmail.com 9842755552

institute Code

4730007-Electronics and Communication Engineering

Sengunthar Engineering College, Tiruchengode

JOINT SUPERVISOR / SUPERVISOR IN-CHARGE DETAILS:

Joint Supervisor / Supervisor In-Charge : Not Applicable

- 5. Tentative title of the Research work. SMART MIND READING THROUGH INTELLIGENCE TECHNIQUES 8.
- 6 Duration of research outside the University (if applicable) :
- Break of study period (if applicable)



ANNA UNIVERSITY, CHENNAI-600 025



AR13 - Dt: 10-12-2019 17:44:59

Registration No.: 18244691132

SEMESTER PROGRESS REPORT July - December 2019

1. Particulars of Research Scholar

Name

Faculty

: Inbavalli V P

Degree

: Information and Communication Engineering : Ph.D.

Email

: inbavalli@gmail.com

Contact No.

: 8072790817

Designation & Institution where : ,-,-, , 0

employed (if applicable)

2. Registration Details

(a) Category of registration

Full-Time

(b) Month & Year of Admission

JAN & 2018

(c) Whether provisional registration confirmed? :

Yes / No

If yes, give reference No. and date

Lr. No. 18244691132/Ph.D./ARI3

3. Name of the Deptartment / Centre where the

research is conducted

: Department of Electronics & Communication Engineering

Sengunthan Engineering Collège, Tiruchengo de

4. Particulars of the Supervisor / Joint Supervisor / Supervisor In-Charge /

Research Co-Ordinator SUPERVISOR DETAILS:

Name / Reference No. : Dr. Venkatesh C / 2740091

Designation

: Professor

Department

: Department of Electronics & Communication Engineering

Address

: Sengunthar Engineering College, Tiruchengode, Namakkal : prof.c.venkatesh@gmail.com / 9842755552

Email / Mobile. Institute Code

: 4730007-Electronics and Communication Engineering

Sengunthar Engineering College, Tiruchengode

JOINT SUPERVISOR / SUPERVISOR IN-CHARGE DETAILS:

Joint Supervisor / Supervisor In-Charge

: Not Applicable

5. Tentative title of the Research work: Frequency Selective Surface to Control the Propagation of Multiple

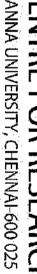
Electromagnetic Communication Bands

6. Duration of research outside the University (if applicable) :

7. Break of study period (if applicable) :

Date: 10-12-2019 05:12:00 | Page: 1 / 4







AR11 - Dt: 10-12-2020 09:30:10

Registration No.: 20143691108

YEARLY PROGRESS REPORT January 2020 - December 2020

Particulars of Research Scholar

Mahendran S

Faculty Electrical Engineering

Email Degree Ph.D. mahendran207@gmail.com

Contact No. 9942294499 PROPESSOR

employed (if applicable) Designation & Institution where : OASSISTANT

Registration Details Category of registration Part-Time

スアンの

アイダス

63810

MIPP

Month & Year of Admission Whether provisional registration confirmed? Yes / No **JAN & 2020**

If yes, give reference No. and date

3. Name of the Deptartment / Centre where the research is conducted Department of Electronics and Communication Engineering

Particulars of the Supervisor / Joint Supervisor / Supervisor In-Charge

Research Co-Ordinator

SUPERVISOR DETAILS:

Name / Reference No. Dr. Venkatesh C / 2740091

Designation Professor

Department Department of Electronics and Communication Engineering

Email / Mobile Address Sengunthar Engineering College, Tiruchengode, Namakkal

prof.c.venkatesh@gmail.com / 984275555;

Institute Code Sengunthar Engineering College, Tiruchengode 4730007-Electronics and Communication Engineering

JOINT SUPERVISOR / SUPERVISOR IN-CHARGE DETAILS:

Joint Supervisor / Supervisor In-Charge Not Applicable

Tentative title of the Research work: AN ADAPTIVE METHOD FOR ENERGY MANAGEMENT IN SMART

GRID ENVIRONMENT

Duration of research outside the University (if applicable)

7. Break of study period (if applicable)

Date: 10-12-2020 09:12:10 | Page: 1 / 4

œ Details of research progress

Details

ĕ

No. of presentation

Seminar presentation, If yes

Z

Papers published (if yes

중

No. of papers published)

of course works completed Yes/No ž Count ₹ attended) yes, No.of seminar/conference Attended seminar/conference (if Details Yes/No Yes Count

Registration No.: 20143691108

A typed report on the work carried out during this period (atleast 300 words) duly signed by the scholar and counter signed by the Supervisor and Joint Supervisor (if applicable) is enclosed.

Signature of the Scholar with Date (Name in Capitals)

Signature of the HoD of the Scholar *

(Namewith Sea)) (Then)
(* applicable for PT research scholars, it Scholar and Supervisor are from different Department/Institution)

Nathakadalyur, Kangayam-638 Tirupur Dt. Tamilmidu, India Kangayam-638 108.

	REMARKS O	REMARKS OF THE SUPERVISOR(s)
	Work Progress	Satisfactory
=:	If the progress is not satisfactory provide	
	appropriate comments/explanation (if needed, attach additional sheet)	
≣	Attendance	Satisfactory / Net-Satisfactory*
. ≤.	Expected time of completion	APR-2025

	RESARRO OF LIFE HOD / DIRECT	REMAKRY OF THE HOD! DIRECTOR OF THE CENTRE OF THE SUFFERVISOR
	Any Remarks (please specify)	
:	Signature of the HoD / Director of the Centre of the Supervisor * (Name with Seal)	Signature of the HoD / Director of the Centre of the Supervisor* (Name with Seal) Charthi, M.EPh.D (Name with Seal)

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Signature of the Scholar

(Name in Capitals)

Signature of the Superviso **(**)

Dr. C. (Wertelsottessh) M.E., Ph.D.

Professor

Note:

progress report. Supervisor is not from a recognised research Centre of Anna University, Joint **Senguirity of Engrysorthy College** Charge's/Research Co-Ordinator's Head of the Department has to approve. Failin**t/ResoftEngles/Engrysoph**e *The Signature of the Head of the Department or Director of the Centre of the Supervisor began the lift the

ENROLMENT FORM / REGISTRATION RENEWAL FORM January 2021 - June 2021

	l	
Name in Block Letters	- 1	Mahendran S
Registration No	••	20143691108
Month & Year of admission	••	JAN & 2020
Faculty	••	Electrical Engineering
Name of the Supervisor	••	Dr. Venkatesh C
Department of the Supervisor		Department of Electronics and Communication Engineering
Name of the Joint Supervisor (if applicable)	••	Dr
Department of the Joint Supervisor		
Category of Registration		Part-Time
Number of Courses completed	• • •	
No. of Courses registered in this semester	••	04,
Date of Confirmation	:	

DECLARATION

S
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97
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d
Ξ
궀

- 1. As a Full time scholar, I state that I am not employed any where*/ I have submitted NoC from my employer
- 2. As a Full time scholar working in a project, I state that I am still employed in the project
- As a Part time scholar, I am working as Assistant ASSEX/ECE at Rounders
- working place has been intimated to the office of the Director (Research) As a part time scholar, I am still working in the same college as mentioned in my application form* / the change of

(* Strike out whichever is not applicable)

Place:

Signature of the Scholar (Name in Capitals)

Mr.C. Venkatesh, M.E., Ph.D.,

Signature of the Supervisor (Name with Seal)

Dept. of ECE Frofessor

Sengunthar Engineering College Control of the Centre of the TIRUCHENGODE -

Supervisor

Dr. Quadanthibane.m.o. Head of the Department Department of ECE

thar Engineering College 12/18/14/848-11/03/14/05/4

COURSE WORK REGISTRATION FORM

January 2021 - June 2021

I. DETAILS OF THE SCHOLAR

1. Name of the Scholar / Registration No. Mahendran S / 20143691108

Address of the scholar SOSamiyappan, 13/48 D Paranjervazhi , Paranjervazhi Post

Tamilnadu 638701

Email / Contact No. mahendran207@gmail.com / 9942294499

Department and College in which the

Category of registration scholar is doing research Part-Time グロイ

II. COURSE WORK REGISTERED IN THE CURRENT SEMESTER

				·	•	
တ	Ch	4	3	2	1	on'is
·		£ಾ≷ರಾದು	19PCP2-06	।निरुटोक्टड.	19pct 105	Course code
		Embedded Safkwome Development	Real Time	Internet of	Machine Learning Techniques	Title of the course work
		03.	0.3	03.	, EQ	No of Credits
		Elective	* lective	العصول عمدي	هجمدهم عدهم	Core Course / Elective/ Special Elective
	-	Dry Ciel See NSDI Ciel See	De Cuentantes	Par 1:06/SEA	Dr. M. SARTHWEE ALP, ICEE SEC.	Signature, Name, Designation and Address of the Course Instructor

Recommended/Not-Re commended and Forwarded

Signature of the Scholar

(Name in Capitals)

Venkatesh, M.E., Ph.D

Signature of the Supervisor

Y

(Name with Seal)

Dept. of ECE
Sengunthar Engineering CollegeIOD/Director of the Centre of the TIRUCHENGODE - 637 205.

Supervisors Cane with Falls mo.

Sengunthar Engineering College Tiruchengode - 037 205. ead of the Department Department of ECE,

Research scholars should take PG Level course works only. Refer Clause 13.1 of Ph.D. Regulation carefully.

Progress Report (January – December 2020)

Name : MAHENDRAN S

Registration Number : 20143691108

Faculty : Electrical Engineering

Course : Ph.D. - Part Time

Session : Jan 2020

Period of report January - December 2020

Supervisor Name and Address : Dr.C. Venkatesh,

Professor, Dept. of ECE,

Sengunthar Engineering College, Tiruchengode

- Appearing for the following course-work exams on forthcoming ODD Sem, 2021.
- 19PCT105- Machine Learning Techniques
- 2) 19PCT203- Internet of Things
- 3) 19PCP206- Real Time Systems
- 19PCP307- Embedded Software Development
- Mitigation Methods for High Photovoltaic Penetration" organized by Department of EEE, Paavai Engineering college, Namakkal, during 23 - 28, November 2020. Participated STTP on "Solar PV Technology: Envisaged Future Challenges and
- Engineering College from 14 to 18 September 2020 Intelligence" Participated webinar series on "Recent Trends in Embedded Systems and Computational Engineering College, organized by IE(I) Erode Bannari Amman Institute Local Centre of Technology in association with Kongu and Sengunthar
- Department of Mechanical Engineering, Government college of Technology, Coimbatore from 27& 28 May 2020 Participated FDP on " DoE for Researchers" organized by faculty training centre
- Deemed to be University Hyderabad off Campus from 15 to 18 July 2020 Participated FDP on "Python Programming" organized by Department of CSE, K L

(Mahendran S)
Signature of the Candidate

(Dr.C. Venkatesh)
Signature of the Supervisor
Dr. C. Venkatesh, M.E.,Ph.D.,
Professor
Dopt. of ECE

Sengunthar Engineering College TJRUCHENGODE - 637 205.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU (Approved by AICTE, New Recognized Under S ction 2(f) & 12(8) of the UGC Act, 1956 ocredited with 'A' Grade



SEMESTER

19PCT105 MACHINE LEARNING TECHNIQUES

LTPC 003

- OBJECTIVES
- To introduce students to the basic concepts and techniques of Machine Learning. thorough understanding of the Supervised and Unsupervised learning
- To study the various probability based learning techniques

techniques

To understand graphical models of machine learning algorithms

UNIT I INTRODUCTION

Version Spaces and the Candidate Elimination Algorithm – Linear Discriminants – Perceptron -Linear Separability - Linear Regression. Neuron – Design a Learning System – Perspectives and Issues in Machine Learning – Concept Learning - Types of Machine Learning - Supervised Learning - The Brain and the Concept Learning as Search - Finding a Maximally Specific Hypothesis

UNIT II LINEAR MODELS

Multi- layer Perceptron in Practice - Examples of using the MLP - Overview - Deriving Back-Dimensionality - Interpolations and Basis Functions - Support Vector Machines Multi-layer Perceptron – Going Forwards – Going Backwards: Back Propagation Error – Radial Basis Functions and Splines Concepts RBF Network -Curse of

UNIT III TREE AND PROBABILISTIC MODELS

Mixture Models - Nearest Neighbor Methods - Unsupervised Learning - K means Algorithms Regression Trees - Ensemble Learning - Boosting - Bagging - Different ways to Combine Vector Quantization – Self Organizing Feature Map Classifiers - Probability and Learning - Data into Probabilities - Basic Statistics Learning with Trees - Decision Trees - Constructing Decision Trees - Classification and Gaussian

UNIT IV DIMENSIONALITY REDUCTION AND EVOLUTIONARY MODELS

Isomap - Least Squares Optimization - Evolutionary Learning -Overview – Getting Lost Example – Analysis - Factor Analysis -Independent Component Analysis - Locally Linear Embedding -Dimensionality Reduction Genetic Operators Using Markov Decision Process Linear Discriminant Analysis Genetic Algorithms Genetic algorithms -Reinforcement Learning Principal Component Genetic



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UNIT V GRAPHICAL MODELS

Markov Chain Monte Carlo Methods - Sampling - Proposal Distribution - Markov Chair

Markov Models – Tracking Methods Graphical Models Bayesian Networks - Markov Random Fields - Hidden

TOTAL: 45 PERIODS

OUTCOMES

Upon completion of this course, the students should be able to

- Distinguish between, supervised, unsupervised and semi-supervised learning
- Apply the appropriate machine learning strategy for any given problem
- Suggest supervised, unsupervised or semi-supervised learning algorithms for any given problem
- Design systems that uses the appropriate graph models of machine learning
- Modify existing machine learning algorithms to improve classification efficiency

TEXT BOOKS

- Machine Learning Series)II, Third Edition, MIT Press, 2014. Ethem Alpaydin, Introduction to Machine Learning 3e (Adaptive Computation and
- ProfessionalsII, First Edition, Wiley, 2014. -Machine learning Hands 2 for Developers and Technica

REFERENCES

- Peter Flach, Datall, First Edition, Cambridge University Press, 2012. -Machine Learning: The Art and Science of Algorithms that Make Sense of
- Stephen Series, 2014. Second Edition, Chapman and Hall/CRC Machine Learning and Pattern Recognition Marsland, -Machine Learning ₽ Algorithmic Perspectivell.

E-RESOURCES

http://faculty.ucmerced.edu/mcarreira-perpinan/teaching/CSE176/lecturenotes.pdf

http://www.cs.cmu.edu/~yandongl/mlnotes.html

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Dr. C. Venkatesh, M.E.,Ph.D. Professor

Sengunthar Engineering College TIRUCHENGODE - 637 205 Dept. of ECE

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19PCT203

INTERNET OF THINGS SEMESTER II

LTPC 3003

OBJECTIVES

- To understand the fundamentals of Internet of Things
- To learn about the basics of IOT protocols
- To build a small low cost embedded system using Raspberry Pi.
- To apply the concept of Internet of Things in the real world scenario

UNIT I INTRODUCTION TO INT

Management with NETCONF-YANG- IoT Platforms Design Methodology. & Deployment Templates -Internet of Things - Physical Design- Logical Design- IoT Enabling Technologies Domain Specific loTs - loT and M2M - loT System _ OT

UNIT II IOT ARCHITECTURE

reference model - Domain model - information model - functional model - communication mode lo⊺ reference architecture M2M high-level ETSI architecture - IETF architecture for IoT - OGC architecture - IoT

UNIT III IOT PROTOCOLS

Modbus-Zigbee Architecture - Network layer - 6LowPAN - CoAP- Security. RFID Protocols - Unified Data Standards - Protocols - IEEE 802.15.4 - BACNet Protocol -Protocol Standardization for IoT - Efforts - M2M and WSN Protocols - SCADA and

UNIT IV BUILDING IOT WITH RASPBERRY PI & ARDUINO

Physical Devices & Endpoints - IoT Device -Building blocks -Raspberry Pi -Board - Linux on Raspberry Pi - Raspberry Pi Interfaces -Programming Raspberry Pi with Python - Other IoT Platforms - Arduino Building IOT with RASPERRY PI- IoT Systems - Logical Design using Python - IoT

UNIT V CASE STUDIES AND REAL-WORLD APPLICATIONS

for IoT - Software & Management Tools for IoT Cloud Storage Models & Communication APIs sman grid, Commercial building automation, Smart cities - participatory sensing - Data Analytics Cloud for IoT - Amazon Web Services for IoT. Real world design constraints - Applications -Asset management, Industrial automation,

TOTAL: 45 PERIODS

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OUTCOMES

Upon completion of this course, the students should be able to:

- Analyze various protocols for IoT
- Develop web services to access/control IoT devices
- Design a portable IoT using Rasperry Pi
- Deploy an IoT application and connect to the cloud
- Analyze applications of IoT in real time scenario

TEXT BOOKS

- Arshdeep Bahga, Vijay Madisetti, approachil, Universities Press, 2015 Bahga, Internet ್ಷ Things hands-on
- Dieter Uckelmann, Mark Harrison, Michahelles, Florian (Eds), the Internet of ThingsII, Springer, 2011. Architecting

REFERENCES

- Press, 2012. Jan Ho" ller, Honbo Zhou, The Internet of Things in the Cloud: A Middleware Perspectivell, CRC
- Introduction to a New Age of Intelligence", Elsevier, 2014 Avesand. ller, Vlasios Tsiatsis , Catherine wumgan, on David Boyle, "From Machine-to-Machine Catherine Mulligan, Stamatis ರ the Internet , Karnouskos, <u>으</u>, Things Stefan

E-RESOURCES

- https://csenotescorner.blogspot.com/2018/01/cp5292-internet-of-things.html
- Ņ https://lecturenotes.in/subject/370/internet-of-things-iot

Dr. C. Venkatesh, M.E.,Ph.D. Ò Š

Professor

Dept. of ECE

Sengunther Engineering College TIRUCHENGODE - 637 205.

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19PCP206

REAL TIME SYSTEMS SEMESTER II

LTP

OBJECTIVES Techniques. To learn real time operating system concepts, the associated issues

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- To understand design and synchronization problems in Real Time System
- To explore the concepts of real time databases
- To understand the evaluation techniques present in Real Time System.

UNIT I REAL TIME SYSTEM AND SCHEDULING

for Real Time Systems - Estimating Program Run Times - Issues in Real Time Computing -Tolerant Scheduling. Assignment and Scheduling - Classical uniprocessor scheduling algorithms Introduction- Structure of a Real Time System -Task classes - Performance Measures

UNIT II SOFTWARE REQUIREMENTS ENGINEERING

requirements document - organizing and writing documents -Design - object oriented analysis and design and unified modelling language for real time systems -Requirements engineering process – types of requirements – requirements specification Formal methods in software specification - structured Analysis and requirements validation organizing the

UNIT III INTERTASK COMMUNICATION AND MEMORY MANAGEMENT

arrangement - memory management in task control block - swapping - overlays - Block page collection – contiguous file systems. management - replacement algorithms process stack management - run time ring buffer - maximum stack size - multiple stack Buffering data - Time relative Buffering- Ring Buffers - Mailboxes Semaphores – other Synchronization mechanisms – deadlock – priority inversion – memory locking - working sets - real time garbage Critica

UNIT IV REAL TIME DATABASES

Disk Scheduling Algorithms, Two- phase Approach to improve Predictability Memory Databases, Serialization Consistency – Databases for Hard Real Time Systems. Real time Databases - Basic Definition, Real time Vs General Purpose Databases, Main Transaction priorities, Transaction Aborts, Concurrency control issues Maintaining



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UNIT V EVALUATION TECHNIQUES AND CLOCK SYNCHRONIZATION

Hardware - Fault Tolerant Synchronization in software Tolerant Synchronization Algorithm --Reliability Evaluation Techniques - Obtaining parameter values, Reliability models for Redundancy-Software error models. Impact of faults Clack Synchronization-Clock, Fault Tolerant Synchronization in ⋗ Nonfault-

TOTAL: 45 PERIODS

OUTCOMES

Upon completion of this course, the students should be able to

- applications Apply principles of real time system design techniques to develop real time
- Make use of database in real time applications
- Make use of architectures and behaviour of real time operating systems
- Apply evaluation techniques in application.

TEXT BOOKS

- C.M. Krishna, Kang G. Shin, "Real-Time Systems", McGraw-Hill International Editions, 1997
- Ņ India, 3rd Edition, 2004 Philip.A.Laplante, "Real Time System Design and Analysis", Prentice Hall of

REFERENCES

- 1. Rajib Mall, "Real-time systems: theory and practice", Pearson Education, 2009
- 2. R.J.A Buhur, D.L Bailey, "An Introduction to Real-Time Systems", Prentice Hall International, 1999

E-RESOURCES

- https://lecturenotes.in/notes/73-notes-for-real-time-systems-rts-by-lopamudra-mishra
- https://lecturenotes.in/subject/63/real-time-systems-rts

Sengunthar Engineering College Dr. C. Venkatesh, w.E.,Ph.D., TIRUCHENGODE - 637 205 Dept. of ECE Professor

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OUTCOMES:

Upon completion of the course, the students should be able to

- Understand peripheral devices. Interface memory and peripherals with embedded systems. different architectures of embedded processor, microcontroller and
- Work with embedded network environment
- Understand challenges in Real time operating systems
- Design and analyze applications on embedded systems

TEXT BOOKS:

- Adrian McEwen, Publication, First edition, 2013 Hakim Cassimally, "Designing the Internet 앜 Things" Wiley
- MorganKauffman/Elsevier, 2006 z Sloss, O Symes, ဂ Wright, Arm system developers guide!

REFERENCES:

- 1. ArshdeepBahga, Vijay Madisetti, "Internet of Things: A Hands-on-Approach" VPT First Edition, 2014
- C.M.Krishna and K.G. Shin, -Real-Time Systems I, McGraw-Hill, 1997

E-RESOURCES

.https://nptel.ac.in/courses/108/105/108105057/

.https://onlinecourses.nptel.ac.in/noc20 cs14/preview

Dr. C. Venkatesh, M.E., Ph.D. Ž

Dept of ECE Professor

Sengunther Engineering College TIRUCHENGODE - 637 205

SEC -M.E.CSE -R2019/Aug-2020



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19PCP307

EMBEDDEDSOFTWAREDEVELOPMENT

TPC 3003

OBJECTIVES

- peripheral devices. To understand the architecture of embedded processor, microcontroller and
- To interface memory and peripherals with embedded systems
- To study the embedded network environment
- To understand challenges in Real time operating systems
- To study, analyze and design applications on embedded systems

UNITI EMBEDDED PROCESSORS

System Design - Structural Description - Behavioral Description - ARM Processor - Intel ATOM Embedded Computing System Design Embedded Computers -Characteristics of Embedded Computing Applications - Challenges Embedded System Design Process- Formalism for

UNITH EMBEDDED COMPUTINGPLATFORM

Alarm Clock - Analysis and Optimization of Performance - Power and Program Size System Design - Development and Debugging - Emulator - Simulator - JTAG Design Example CPU Bus Configuration - Memory Devices and Interfacing - Input/output Devices and Interfacing

UNITIII EMBEDDED NETWORK ENIVIRONMENT

Embedded Systems - I2C - CAN Bus - SHARC Link Supports - Ethernet - Myrinet - Internet -Distributed Embedded Architecture - Hardware And Software Architectures - Networks for Platform Design - Allocation and Scheduling - Design Example - Elevator Controller Network-based Design - Communication Analysis - System Performance Analysis - Hardware

UNITIV REAL-TIME CHARACTERISTICS

Systems - Off-Line versus On-Line Scheduling Deadline First (EDF) Algorithm - Challenges in Validating Timing Constraints in Priority Driven versus Static Systems - Effective Release Times and Deadlines - Optimality of the Earliest Clock Driven Approach - Weighted Round Robin Approach - Priority Driven Approach - Dynamic

UNITY SYSTEM DESIGN TECHNIQUES

Personal Digital Assistants - Set-Top Boxes Architecture Design - Quality Assurance - Design Examples - Telephone Design Methodologies Requirement Analysis Specification System PBX - Ink jet printer -Analysis and

TOTAL: 45 PERIODS

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SENGUNTHAR



ANNA UNIVERSITY, CHENNAI-600 025



AR13 - Dt: 27-11-2018 12:22:27

Registration No.: 18244691384

SEMESTER PROGRESS REPORT July - December 2018

1. Particulars of Research Scholar

Name

: Sathva S S

Faculty

: Information and Communication Engineering

Degree

: Ph.D.

Email

: sathyaspace@yahoo.co.in

Contact No.

: 9751347984

employed (if applicable)

Designation & Institution where : Assistant Professor, Electronics And Communication Engineering, Dhanalakshmi srinivasan engineering

college, PERAMBALUR, TAMILNADU 621212

2. Registration Details

(a) Category of registration

Part-Time

(b) Month & Year of Admission

JAN & 2018

(c) Whether provisional registration confirmed? :

If yes, give reference No. and date

Yes / No

3. Name of the Deptartment / Centre where the

research is conducted

Department of Electronics & Communication Engineering

4. Particulars of the Supervisor / Joint Supervisor

SUPERVISOR DETAILS:

Name / Reference No.

: Dr. Umadevi K / 2830071

Designation

: Professor

Department

: Department of Electronics & Communication Engineering : Sengunthar Engineering college, Tiruchengode, Namakkal

Address Email / Mobile.

: kindlyuma@gmail.com / 9443035709

JOINT SUPERVISOR DETAILS:

Joint Supervisor

: Not Applicable

5. Tentative title of the Research work: AN POLYNOMIAL AND REFUGE KEY PREDISTRIBUTIONS FOR

SECURE ROUTING IN WIRELESS MESH NETWORK

6. Duration of research outside the University (if applicable) :

7. Break of study period (if applicable)

Date: 27-11-2018 12:11:28 | Page: 1 / 4



ANNA UNIVERSITY, CHENNAI-600 025



AR13 - Dt: 03-12-2018 08:28:37

Registration No.: 18144691155

SEMESTER PROGRESS REPORT July - December 2018

1. Particulars of Research Scholar

Name

: Vijayakumar V

Faculty

: Information and Communication Engineering

Degree

: Ph.D.

Email

: vksece2007@gmail.com

Contact No.

9750082949

employed (if applicable)

Designation & Institution where : Assistant Professor, Electronics And Communication

Engineering, dhanalakshmi srinivasan engineering

college, PERAMBALUR, TAMILNADU 621212

2. Registration Details

(a) Category of registration

Part-Time

(b) Month & Year of Admission

JAN & 2018

· (c) Whether provisional registration confirmed? If yes, give reference No. and date

Yes-/ No

3. Name of the Deptartment / Centre where the research is conducted

: Department of Electronics and Communication Engineering

4. Particulars of the Supervisor / Joint Supervisor

SUPERVISOR DETAILS:

Name / Reference No.

: Dr. Umadevi K / 2830071

Designation

: Professor

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: Department of Electronics and Communication Engineering : Sengunthar Engineering college, Tiruchengode, Namakkal

Email / Mobile.

: kindlyuma@gmail.com / 9443035709

JOINT SUPERVISOR DETAILS:

Joint Supervisor

: Not Applicable

5. Tentative title of the Research work: MSP S: MULTILEVEL STARVATION BASED PRIVACY PRESERVING

USING SECURE KEYWORD SEARCHABLE ENCRYPTION

STANDARD IN CLOUD ENVIRONMENT

6. Duration of research outside the University (if applicable):

7. Break of study period (if applicable)



ANNA UNIVERSITY, CHENNAI-600 025



AR13 - Dt: 13-12-2018 14:29:05

Registration No.: 18134691183

SEMESTER PROGRESS REPORT July - December 2018

1. Particulars of Research Scholar

Name

: Yogeshwaran A

Faculty

: Information and Communication Engineering

Degree

: Ph.D.

Email

: er.yogesh85@gmail.com

Contact No.

: 9944877208

Designation & Institution where: Assistant Professor, Electronics And Communication

employed (if applicable)

Engineering, Dhanalakshmi Srinivasan Engineering,

. TAMILNADU 621212

2. Registration Details

(a) Category of registration

Part-Time

(b) Month & Year of Admission

JAN & 2018

(c) Whether provisional registration confirmed?

If yes, give reference No. and date

Yes / No

3. Name of the Deptartment / Centre where the

: Department of Electronics and Communication Engineering

research is conducted

4. Particulars of the Supervisor / Joint Supervisor

SUPERVISOR DETAILS:

Name / Reference No.

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Address

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Email / Mobile.

: kindlyuma@gmail.com / 9443035709

JOINT SUPERVISOR DETAILS:

Joint Supervisor

: Not Applicable

5. Tentative title of the Research work: DESIGN OF RECONFIGURABLE MICRO STRIP ANTENNA FOR

RADAR APPLICATION

6. Duration of research outside the University (if applicable) :

7. Break of study period (if applicable)

Date: 13-12-2018 02:12:06 | Page: 1 / 4



ANNA UNIVERSITY, CHENNAI-600 025



Registration No.: 17144697403

AR15 - Dt: 17-12-2018 17:51:24

SEMESTER PROGRESS REPORT July - December 2018

1. Particulars of Research Scholar

Name

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Faculty

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Degree

: Ph.D.

Email

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Contact No.

: 8903674011

employed (if applicable)

Designation & Institution where: Assistant Professor, Department of Electronics and

Communication Engineering, Ambal Professional Group of Institutions, Palladam, Coimbatore,

Tamilnadu 64166

2. Registration Details

(a) Category of registration

Part-Time

(b) Month & Year of Admission

JUL & 2017

(c) Whether provisional registration confirmed? If yes, give reference No. and date

Yes/No

3. Name of the Deptartment / Centre where the Department of Electronics & Communication Engineering

4. Particulars of the Supervisor / Joint Supervisor SUPERVISOR DETAILS:

Name / Reference No.

: Dr. Umadevi K / 2830071

Designation

: Professor

Department Address

: Department of Electronics & Communication Engineering : Sengunthar Engineering College, Tiruchengode, Namakkal

Email / Mobile.

: kindlyuma@gmail.com / 9443035709

JOINT SUPERVISOR DETAILS:

Joint Supervisor

: Not Applicable

5. Tentative title of the Research work: Performance analysis of MC-CDMA using MIMO in 5G Wireless

Networks

6. Duration of research outside the University (if applicable) :

Nil -

7. Break of study period (if applicable) :

- Nil-



ANNA UNIVERSITY, CHENNAI-600 025





AR13 - Dt: 31-05-2018 18:57:08

Registration No.: 18144691366

SEMESTER PROGRESS REPORT January - June 2018

1. Particulars of Research Scholar

Name

: Venkateswaran N

Faculty

: Information and Communication Engineering

Degree

: Ph.D.

Email

: venkywn@gmail.com

Contact No.

: 9440188403

Designation & Institution where: Associate

And Science Professor, Computer Engineering college,

Engineering, Annapoorana SALEM, TAMILNADU 636308

employed (if applicable) 2. Registration Details

(a) Category of registration

: Part-Time

(b) Month & Year of Admission

JAN & 2018

(c) Whether provisional registration confirmed? : Yes-/ No V If yes, give reference No. and date

: NOT applicable

3. Name of the Deptartment / Centre where the

research is conducted

: Department of Electronics & Communication Engineering

4. Particulars of the Supervisor / Joint Supervisor

SUPERVISOR DETAILS:

Name / Reference No.

: Dr. Umadevi K / 2830071

Designation

: Professor

Department

: Department of Electronics & Communication Engineering : Sengunthar Engineering College, Tiruchengode, Namakkal

Address

: kindlyuma@gmail.com / 9443035709

JOINT SUPERVISOR DETAILS:

Joint Supervisor

Email / Mobile.

: Not Applicable

5. Tentative title of the Research work: Pattern Matching Inside the Context of Network Intrusion Detection

Systems in Mobile AD HOC Network

6. Duration of research outside the University (if applicable):

- NIL -

7. Break of study period (if applicable)

NIL-