



## E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM – 611 002. TAMILNADU, INDIA

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai  
(Accredited by NAAC with 'A' Grade and NBA)

Email: principal@egspec.org website: www.egspec.org Ph: 04365-251112



### E. G. S Pillay Engineering College (Autonomous)

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Accredited by NBA (B.E CSE, ECE, EEE, MECH, CIVIL, B.Tech - IT)  
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NAGAPATTINAM – 611002 TAMIL NADU INDIA

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### Best Paper Award

This is to certify that the following Paper has been presented in the **2<sup>nd</sup> International Conference on Future Intelligent Computing (ICoFIC 2021)**, Organized by Department of Computer Applications on 24<sup>th</sup> and 25<sup>th</sup>, March 2021 and is awarded as a Best Paper.

STUDENT EXPERIENCE IN ONLINE CLASS

Ms. P. Akalya, **Dr. J. Vanitha**



Dr. P. Arunkumar  
Organizing Secretary

Dr. J. Vanitha  
Convener

Dr. S. Ramabalan  
Chairman

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.



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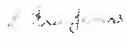
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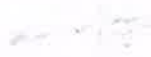
SECURE DATA TRANSFER OVER INTERNET USING IMAGE STEGANOGRAPHY

Ms. M. Bhuvaneshwari, Mrs. C. Mallika



  
Dr. P. Arunkumar  
Organizing Secretary

  
Dr. J. Vanitha  
Convener

  
Dr. S. Ramabalan  
Chairman

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
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**TREE LEAVES BASED DISEASE PREDICTION AND FERTILIZER RECOMMENDATION**

Ms. P. Janani, Mrs. A. Hema



*P. Arunkumar*

Dr. P. Arunkumar

Organizing Secretary

*J. Vanitha*

Dr. J. Vanitha

Convener

*S. Ramabalan*

Dr. S. Ramabalan

Chairman

*S. Ramabalan*

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

E.G.S. Pillay Engineering

College, Thethi, Nagore - 611 002

Nagapattinam (Dt) Tamil Nadu, India



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**IOT ENABLED SMART WATER DISTRIBUTION AND MONITORING SYSTEM**

Mr. D. Divakar, Dr. P. Arunkumar



*[Signature]*  
Dr. P. Arunkumar  
Organizing Secretary

*[Signature]*  
Dr. J. Vanitha  
Convener

*[Signature]*  
Dr. S. Ramabalan  
Chairman

*[Signature]*  
**Dr. S. RAMABALAN, M.E., PH.D.**  
**Dr. S. RAMABALAN**  
E.G.S. Pillay Engineering College.  
E.G Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



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VEHICLE ANTI THEFT SYSTEM USING FINGERPRINT RECOGNITION TECHNIQUE

Ms. K. Iswarya Mr. S. Selvaganapathy



Dr. P. Arunkumar  
Organizing Secretary

Dr. J. Vanitha  
Convener

Dr. S. Ramabalan  
Chairman

Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



International Scientist Awards on  
**Engineering, Science and Medicine**  
 16 & 17-Apr-2021 | Ooty, India.

# CERTIFICATE OF ACHIEVEMENT

This is to certify that

**Dr. GANESAN SUBRAMANIAN**

ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING,  
 E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS),  
 TAMIL NADU, INDIA.

Has been Awarded

## YOUNG SCIENTIST AWARD

to the International Scientist Awards on Engineering, Science and Medicine, held on 16 & 17-Apr-2021,  
 Ooty, India, Organized by VDG00D Professional Association.

*M. S. Divyesh*  
 Mr. M. Divyesh  
 Association Director



*Dr. S. Ramabalan*

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
 PRINCIPAL  
 E.G.S. Pillay Engineering College,  
 Thethi, Nagore - 611 002,  
 Nagapattinam (Dt) Tamil Nadu.

SIAA 2021 NOMINEE

**Academic Circuit Faculty Award  
2021 Nominee**



**Manikandan S**

**E. G. S. Pillay Engineering College,  
India**

[www.si.asdfawards.com](http://www.si.asdfawards.com)

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#ASDF wishes **Manikandan S** of **E.G.S Pillay University** to be a winner of Academic Circuit Faculty of the year 2021 in #SIAA2021. Like, Share, Retweet this post to make him a popular nominee. #India #EGSPillay #Research #Awards #Puducherry #Award



**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College.  
Thethi, Nagore - 611 002  
Nagapattinam (Dt) Tamil Nadu.**

# CERTIFICATE OF EXCELLENCE



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To  
P BOOPATHY  
234/2  
VELLALAR STREET KADUVANGUDI KOLLUMANGUDI  
THIRUVARUR  
TAMILNADU - 609403  
PH. NO :9488372768

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:2  
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**P BOOPATHY**

for successfully completing the course

## Evolution of Air Interface towards 5G

with a consolidated score of **68** %

Online Assignments	17.33/25	Proctored Exam	50.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 126

  
Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Feb-Apr 2021  
(8 week course)

  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No. NPTEL21EE12S14440772

To validate and check scores. <https://nptel.ac.in/noc>

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**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

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To  
S VASUNDARAA  
27/47 D  
SIVAN EAST STREET, NAGORE  
NAGAPATTINAM  
TAMIL NADU - 611002  
PH. NO :7402167853

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



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# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**S VASUNDARAA**  
for successfully completing the course

## Evolution of Air Interface towards 5G

with a consolidated score of **62** %

Online Assignments	17.63/25	Proctored Exam	44.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **126**

  
Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Feb-Apr 2021  
(8 week course)

  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21EE12S14440769

To validate and check scores: <https://nptel.ac.in/noc>

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

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Roll No: NPTEL21EE18S14440785  
To  
UDHAYANILA K  
4 501  
NORTH SALLI KULAM  
NAGAPATTINAM  
TAMILNADU - 611112  
PH. NO :9123556407

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**UDHAYANILA K**

for successfully completing the course

## Microprocessors and Microcontrollers

with a consolidated score of **55** %

Online Assignments	23.94/25	Proctored Exam	31.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **197**

  
Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jan-Apr 2021  
(12 week course)

  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21EE18S14440785

To validate and check scores: <https://nptel.ac.in/noc/>

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# WILEY

## REVIEWER CERTIFICATE

This certificate is awarded to

**ARUNKUMAR PANNEERSELVAM**

For serving as a reviewer for

**INTERNATIONAL JOURNAL OF COMMUNICATION  
SYSTEMS**

International  
COMMUNICATION

Thank you for reviewing 2 Manuscripts in 2020

23 February 2021  
Date

Prof. Mohammad S. Obaidat  
Editor-In-Chief

  
**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



ELSEVIER



MICPRO

Microprocessors and Microsystems

# Certificate of Reviewing

Awarded since December 2020 (1 review)  
presented to

**MANIKANDAN S**

in recognition of the review contributed to the journal

The Editors of Microprocessors and Microsystems



**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## CERTIFICATE OF APPRECIATION

This Certificate is proudly presented to

**MANIKANDAN S**

of Institute

**E. G. S. PILLAY ENGINEERING COLLEGE**

*for role of Reviewer*

in

2020 IEEE International Conference for Innovation in Technology (INOCON)

*Technically Cosponsored by IEEE Bangalore Section*

06<sup>th</sup> - 08<sup>th</sup> November 2020

  
**Dr. Anitha Patil**  
Convener

  
**Dr. Jitendranath Mungara**  
Conference Chair

  
**Dr. S G Gopala Krishna**  
General Chair



  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL

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To  
RAMIYA R  
57 ATTUKARA STREET  
M.CHAVADI  
THANJAVUR  
TAMIL NADU - 613001  
PH. NO :7598092876

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



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This certificate is awarded to  
**RAMIYA R**  
for successfully completing the course

## Digital Circuits

with a consolidated score of **75** %

Online Assignments	23.94/25	Proctored Exam	51/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 1369

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20EE70S62390088

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PRINCIPAL  
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Nagapattinam (DT) Tamil Nadu.

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