



**MOHAMED SATHAK
ENGINEERING COLLEGE**

KILAKARAI-623 806, RAMANATHAPURAM DIST.

AN AUTONOMOUS INSTITUTION



(Recognized under section 2(f) & 12B of UGC, NewDelhi)

NEWSLETTER



**DEPARTMENT OF
ELECTRONICS AND COMMUNICATION
ENGINEERING**

2024 - 2025

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ABOUT THE DEPARTMENT

This Department of **Electronics and Communication Engineering** was started in the year **1984** and so a large number of ECE engineers have been produced by this department who are all well employed at the National/ International companies. The department is offering BE in ECE and **Two ME Programmes** one in Applied Electronics and the other is in Communication Engineering.

All the faculty are well qualified and experienced and most of them are pursuing with **Ph.D programmes**. The students are very well encouraged and guided to present their technical papers at the conferences held in other institutions and as a result they bring awards/ prizes to the department/ college. The senior faculty members are involved in their Ph.D. programmes and publishing research papers at the International/National journals/ Conferences. The department arranges visits to **Radio / TV** stations for students to acquire practical knowledge with real pictures. This department often organizes special lecture programs with eminent scholars and conferences on latest topics in Optical Communication, Networking, Embedded systems etc. The department has several well equipped laboratories such as **Electronics Devices Lab, μ p Lab, Electronics Circuits Lab, Embedded Systems Lab, Network Lab, DSP Lab, VLSI Lab, PC Lab, Optical Fibre Lab, Communication Engineering Lab** etc.

Latest instruments/ equipment's such as **Digital Storage Oscilloscope, Spectrum Analyzer, Linear and Digital IC trainer, Microwave Benches, RF Communication Trainer, Antenna trainer, Optical fibre Communication Trainer, 8085/86 μ p, 8051, 8096 μ c and their interfacing cards, ARM 7 processor, PIC Micro Controller, Simulation S/W 89 C 51 RTOS kit, ZIGBEE Controller, LAN trainer kits, D-link Router, TMS320 DSP kits, MATLAB simulation software** etc. are available in the laboratories of ECE department.

The Department of ECE also offers Two Post Graduate ME Programmes:

- **ME COMMUNICATION SYSTEM**
- **ME VLSI DESIGN**

MISSION

To create centre of excellence for budding professionals show as to equip them with strong fundamental concept, programming and problem-solving skills with an exposure to emerging technologies.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION

VISION

Training the students to become innovators of tomorrow with the high patterns of discipline, knowledgeable and excellence in education through our dedicative staffs who shall make our students technologically superior and ethically strong



PROGRAM EDUCATIONAL OBJECTIVES (PEO)

PEO 1: To provide the students with a strong foundation in the required sciences in order to pursue studies in Electronics and Communication Engineering.

PEO 2: To gain adequate knowledge to become good professional in electronic and communication engineering associated industries higher education and research.

PEO 3: To develop attitude in lifelong learning, applying and adapting new ideas and technologies as their field evolves.

PEO 4: To prepare students to critically analyse existing literature in an area of specialization and ethically develop innovative and research-oriented methodologies to solve the problems identified.

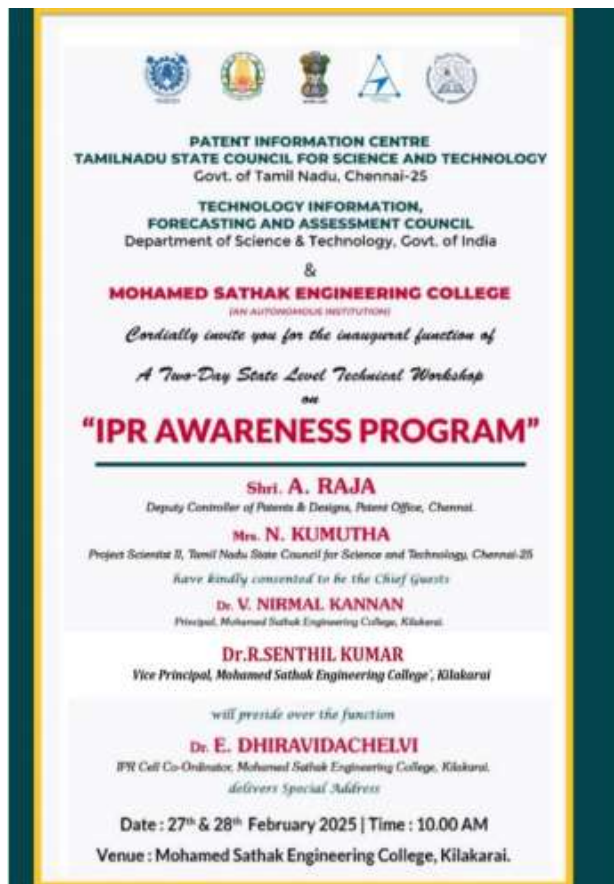
PEO 5: To inculcate in the students a professional and ethical attitude and an ability to visualize the engineering issues in a broader social context.

WHY ECE AT MSEC ?

- Well qualified, Experienced and dedicated team of faculty Members
- Specialized Embedded IOT incubation Center started in the year 2018
- Special labs with modern software's
- 90% Placement Achievements with leading companies every year
- Offering domain specific core placement trainings and value added courses
- Exclusive coaching to GATE, GRE, TOFEL and UPSC
- MoUs with leading industries for student projects and internships
- Seed money for product development and industrial consultancy
- Encouraging to participate in co-curricular and Extra-curricular activities
- Opportunities to participate in professional chapters activities like ISTE, IETE etc...
- Building Entrepreneurs through Innovation and startups

EVENT ORGANIZED

•The Intellectual Property Rights (IPR) Program was successfully conducted over two days, By Mrs.N.Kumutha and Shri.A.Raja on 27th and 28th February 2025.



JOURNAL PUBLICATIONS

S.no	Name of the faculty	Journal name	Title	DOI
1.	M.Shahana	ADVANCED TECHNOLOGIES AND SUSTAINABLE MATERIALS IN ELECTRONICS, SIGNAL PROCESSING AND CIRCUIT DESIGN	Generating higher order bright soliton pulse using integrated lithium niobate waveguides for higher end supercontinuum application	12-03-2025
2.	Dr.E.Dhiravidachelvi	ADVANCED TECHNOLOGIES AND SUSTAINABLE MATERIALS IN ELECTRONICS, SIGNAL PROCESSING AND CIRCUIT DESIGN	Machine Learning based image processing for Early Detection of Eye Diseases	12-03-2025
3.	Dr.M.Sarojini Devi	International Conference on recent Trends in Technology-2025-	HYBRID TECHNIQUES FOR VISION DETECTION	2-05-2025
4.	Dr.M.Sarojini Devi	International Journal of Research Publication and Reviews	AI-Powered Solutions for Efficient Fish Resource Detection	2-05-2025
5.	S.Vengatesh Kumar	International Journal of Creative Research Thoughts (IJCRT)	Low Power RTL Generation For Eye Disease Classification Using FPGA	6-06-2025

JOURNAL PUBLICATIONS

Optical and Quantum Electronics (2024) 56:1021
<https://doi.org/10.1007/s11082-024-06888-5>



Generating higher order bright soliton pulse using integrated lithium niobate waveguides for higher end supercontinuum application

S. Vengatesh Kumar¹ · R. Nagarajan² · S. Venkatesh Babu³ · J. Joseph Ignatious⁴

Received: 25 February 2024 / Accepted: 22 March 2024

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Abstract

The supercontinuum spectrum is generated through a wide range of wavelengths by sending a short and strong pulse to the nonlinear medium and spattering at the output and is used in optical measurements, spectroscopy, biological imaging, optical coherence photography, etc. Integrated photonics is an idea to realize low-cost and microscale communication, sensing, and fast computing methods. In addition, the miniaturization and integration of photonic structures make possible new designs and applications that are inaccessible in their large volumes. Lithium niobate is one of the most widely used and attractive materials in the field of photonics due to its extraordinary electro-optical, acoustic-optical, nonlinear optics, wide transparency window, and relatively high refractive index. In this work, a lithium niobate waveguide is designed by choosing basic solitons as the input pulse and considering various effects such as high-order scattering, self-phase modulation, second harmonic generation, Raman effect, self-downward effect, etc. The proposed waveguide has super-sustainable production. This supercontinuum spectrum is designed in the waveguide, for the 10th order bright soliton at a distance of 35 mm, 4 times the initial width, for the 20th order bright soliton at 9 mm, 4 times the initial width, and for the 30th order bright soliton at 4.5 mm, 5 times the initial pulse width in the frequency domain are created. Such dimensions are suitable for use in photonic integrated circuits.

Keywords Photonic integrated circuits · Lithium niobate · Super continuum · Photonic waveguide

Sign Image and Video Processing
<https://doi.org/10.1007/s11760-024-08530-0>

ORIGINAL PAPER

Enhancing image classification using adaptive convolutional autoencoder-based snow avalanche algorithm

E. Chinnaiyachandran¹ · T. J. Jeyaraj Varadachari² · P. J. Sathish Kumar³ · S. Senthil Pandi⁴

Received: 16 November 2023 / Revised: 12 February 2024 / Accepted: 28 February 2024

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Abstract

The disease that causes a large number of deaths annually across the world is brain cancer and it has become an important research topic in the field of medical image processing in recent times. There are various techniques for the detection of brain tumors (BT) but magnetic resonance imaging (MRI) diagnosis techniques show superior performance in the prognosis and examination of brain tumors in the early stages. The manual detection of brain tumors by radiologists leads to many limitations like errors and lack of detection accuracy. Hence, there is a need for computer-aided diagnostic techniques to help radiologists in detecting brain tumors accurately from the MRI images. To make this process more effective, the implementation of an automated detection is a preferred choice. In this paper, an effective detection and classification technique, Adaptive convolutional Autoencoder-based Snow Avalanche (ACA-E-SA) Algorithm is proposed. This algorithm comprises an Adaptive CNN component and an Autoencoder to detect and categorize BT from the MRI images. To mitigate the computational complexities in these components a Snow Avalanche algorithm is integrated into this work as an optimization technique. For the validation of the proposed architecture two MRI image datasets namely Brain and Brain T2W are used. The proposed technique proved its effectiveness in the detection and classification of brain tumors from the MRI images and outperformed the state-of-the-art techniques.

Keywords Adaptive CNN · AutoEncoder · Brain tumor · Medical image processing · MRI images · Snow avalanche algorithm

1 Introduction

An abnormal growth of the brain cells is known as a brain tumor which results in cancer. Gliomas are considered as the globally prevailing BT and it is generated by the Carcinogenesis of glial cells in the spinal cord as well as the brain. The lifetime of an average person is least ten months after the diagnosis of glioblastoma [1]. Brain tumor affects all

age groups including children and adults. Generally, MRI and CT techniques are used to detect the brain tumor. A biopsy is referred to as a practicable medical examination which utilized to extract the brain cells before the craniotomy surgery [2]. Recently, MRI has been employed commonly to detect and recognize brain tumors. As brain tumors are very dangerous, the proper diagnosis and effective treatment are required at an early stage. Each and every MRI approach has a different component that is used in detecting the brain tumor tissues [3]. Currently, the most used modality is considered the T1W because it enables the simple distinction between the tissues that are healthy [4]. The radiologist uses advanced machine learning techniques for the appropriate data in terms of the disease state. Advancement in Machine Learning, especially in Deep Learning which results in detection and classification of the clinical image patterns. Nowadays, Machine learning is widely used to enhance performance in terms of detecting and diagnosing cellular and molecular structures [5].

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An International Open Access, Peer-reviewed, Refereed Journal

Glaucoma Detection Using Deep Cnn Based On Neural Networks For Fpga Artix 7 Board

Geetha Sriranjani¹, S. Vengatesh Kumar², H. Poor Obi³, M. M. Subhana⁴

PG Scholar¹, Assistant Professor², Associate Professor³, Assistant Professor⁴, Mohamed Sathuk Engineering College

Abstract

Glaucoma, a leading cause of irreversible blindness, is characterized by progressive damage to the optic nerve, often linked to elevated intraocular pressure. Early and accurate detection is crucial for effective management and prevention of vision loss. This study presents a deep learning approach for glaucoma detection using Convolutional Neural Networks (CNNs), a powerful class of neural networks adept at analyzing visual data. The proposed method employs a deep CNN architecture to classify retinal fundus images into glaucoma and non-glaucoma categories. The CNN is trained on a dataset consisting of annotated retinal images, leveraging advanced techniques in data augmentation and transfer learning to enhance model robustness and accuracy. Performance metrics, including accuracy, precision, recall, and F1-score, are evaluated to assess the effectiveness of the model. The results demonstrate a promising potential for CNN-based systems in the early detection of glaucoma, offering a significant step towards automated and reliable ophthalmic diagnostics.

Index Terms - Glaucoma detection, Deep learning, Neural networks, CNN algorithm, Image processing, Optic nerve, Retinal fundus images

1. INTRODUCTION

Glaucoma is a chronic and progressive eye disease that leads to irreversible damage to the optic nerve, often resulting in vision loss and blindness if left untreated. It is one of the leading causes of visual impairment worldwide, particularly affecting older populations. The condition is commonly associated with elevated intraocular pressure (IOP), although it can occur with normal IOP levels as well. Early detection and diagnosis are crucial for effective intervention and management, as timely treatment can significantly slow the progression of the disease and preserve vision.

Traditional methods for diagnosing glaucoma involve a combination of clinical examinations, including intraocular pressure measurements, visual field tests, and imaging of the optic nerve head. While these methods are effective, they can be time-consuming, require specialized equipment, and are subject to human error. There is a growing interest in leveraging advanced technologies, such as artificial intelligence (AI) and machine learning, to improve the accuracy and efficiency of glaucoma detection.

Deep Convolutional Neural Networks (CNNs), a subset of neural networks, have shown remarkable performance in various image classification tasks, including medical image analysis. CNNs are particularly well-suited for analyzing retinal fundus images due to their ability to automatically extract hierarchical features from raw image data, reducing the need for manual feature engineering. By training a deep CNN model on a large dataset of retinal images, it is possible to develop an automated system capable of distinguishing between glaucomatous and non-glaucomatous images with high accuracy.

IJCRT 12 08 0238 | International Journal of Creative Research Thoughts (IJCRT) | www.ijcrt.org | 4331



NPTEL & OTHER ONLINE CERTIFICATIONS

S.No	Name of the faculty	FDP Title	Start Date & End Date	Duration	Score and Merit Details
1.	Rahmath Noor Nathira	Fundamentals of MIMO Wireless Communication	Jan 25 - May 25	8 Week Course	Elite
2.	H.Peer Oli	Outcome based pedagogic principles for effective teaching	Jan 25 - May 25	8 Week course	Elite
3.	M.Shahana	Remote Sensing Essentials_NPTEL	Jan 25 – May 26	8 Week course	Elite
4.	N.Dheenathayalan	NDT NPTEL Introduction To Internet Of Things	Jan 25 – May 27	8 Week course	Elite
5.	Rahmath Noor Nathira	Industrial Automation and Control	Jan 25 – May 28	8 Week course	Completed
6.	S.Vengatesh Kumar	Semiconductor Devices for Next Generation Field Effect Transistors (More than Moore): A Physics Perspective	Jan 25 – May 29	8 Week Course	Completed
7.	G.Arikaran	Fundamentals of MIMO Wireless Communication	Jan 25 – May 30	8 Week Course	Elite
8.	G.Arikaran	Introduction To Internet Of Things	Jan 25 – May 31	8 Week Course	Elite-Gold
9.	JEYA PUSHPA MALATHI	CMOS Digital VLSI Design	Jan 25 – May 32	8 week Course	Completed
10.	PANDI	CMOS Digital VLSI Design	Jan 25 – May 32	8 Week Course	Elite
11.	JEYA PUSHPA MALATHI	Introduction To Internet Of Things	Jan 25 – May 31	8 Week Course	Elite-Silver



NPTEL ONLINE CERTIFICATION

(Funded by the MHE, Govt. of India)

This certificate is awarded to
JEYA PUSHPA MALATHI
for successfully completing the course

CMOS Digital VLSI Design

with a consolidated score of **56 %**

Online Assignments	28.45/28	Practiced Exam	28/28
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Total number of candidates certified in this course: **1464**



Jan-Mar 2025
(8 week course)






NPTEL ONLINE CERTIFICATION

(Funded by the MHE, Govt. of India)

This certificate is awarded to
PANDI
for successfully completing the course

CMOS Digital VLSI Design

with a consolidated score of **60 %**

Online Assignments	18.58/28	Practiced Exam	48/78
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Total number of candidates certified in this course: **1464**



Jan-Mar 2025
(8 week course)




Indian Institute of Technology Madras

swayam

Ref No: NPTEL202511044100008 To verify the certificate

No. of credits recommended: 2 or 3

Indian Institute of Technology Madras

swayam

Ref No: NPTEL202511044100008 To verify the certificate

No. of credits recommended: 2 or 3



NPTEL ONLINE CERTIFICATION

(Funded by the MHE, Govt. of India)

This certificate is awarded to
ARUKARAN G
for successfully completing the course

Fundamentals of MEMO Wireless Communication

with a consolidated score of **65 %**

Online Assignments	26/28	Practiced Exam	48/78
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Total number of candidates certified in this course: **221**



Jan-Mar 2025
(8 week course)






NPTEL ONLINE CERTIFICATION

(Funded by the MHE, Govt. of India)

This certificate is awarded to
ARUKARAN G
for successfully completing the course

Introduction To Internet Of Things

with a consolidated score of **90 %**

Online Assignments	24.38/28	Practiced Exam	68.5/78
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Total number of candidates certified in this course: **38142**



Jan-Apr 2025
(11 week course)




Indian Institute of Technology Madras

swayam

Ref No: NPTEL202502030000009 To verify the certificate

No. of credits recommended: 2 or 3

Indian Institute of Technology Madras

swayam

Ref No: NPTEL202502030000009 To verify the certificate

No. of credits recommended: 2 or 3



NPTEL ONLINE CERTIFICATION

(Funded by the MHE, Govt. of India)

This certificate is awarded to
JEYA PUSHPA MALATHI
for successfully completing the course

Introduction To Internet Of Things

with a consolidated score of **76 %**

Online Assignments	23.53/28	Practiced Exam	52.5/78
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Total number of candidates certified in this course: **26143**



Jan-Apr 2025
(11 week course)






NPTEL ONLINE CERTIFICATION

(Funded by the MHE, Govt. of India)

This certificate is awarded to
RAJAMATH MOOR NATHIERA S
for successfully completing the course

Fundamentals of MIMO Wireless Communication

with a consolidated score of **62 %**

Online Assignments	20/28	Practiced Exam	51.5/78
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Total number of candidates certified in this course: **221**



Jan-Mar 2025
(8 week course)




Indian Institute of Technology Madras

swayam

Ref No: NPTEL202504403000004 To verify the certificate

No. of credits recommended: 2 or 3

Indian Institute of Technology Madras

swayam

Ref No: NPTEL202504403000004 To verify the certificate

No. of credits recommended: 2 or 3

Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
PEER GUJ
for successfully completing the course

Outcome Based Pedagogic Principles for Effective Teaching

with a consolidated score of **72 %**

Online Assignments	25/25	Proctored Exam	46.5/75
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Total number of candidates certified in this course: 1021

Feb-Mar 2025
(16 week course)

Prof. Rajanath Ramani
Coordinator (NPTEL)
IIT Madras

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL202427766000006 To verify the certificate

No. of credits recommended: 1 or 2

Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
SHAHANA M
for successfully completing the course

Remote Sensing Essentials

with a consolidated score of **84 %**

Online Assignments	25/25	Proctored Exam	58.5/71
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Total number of candidates certified in this course: 847

Jan-Apr 2025
(12 week course)

Prof. Kaushik Ghosh
Professor (Associate)
Coordinator (IIT)

Prof. Rajanath Ramani
Coordinator (NPTEL)
IIT Madras

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL202427540000000 To verify the certificate

No. of credits recommended: 3 or 4

Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
DHEENATHAYALAN N
for successfully completing the course

Introduction To Internet Of Things

with a consolidated score of **62 %**

Online Assignments	22.88/25	Proctored Exam	39/75
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Total number of candidates certified in this course: 35143

Jan-Apr 2025
(12 week course)

Prof. Rajanath Ramani
Coordinator (NPTEL)
IIT Madras

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL202440540000000 To verify the certificate

No. of credits recommended: 3 or 4

Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
RAHMATH NOOR NATHIA S
for successfully completing the course

Industrial Automation and Control

with a consolidated score of **58 %**

Online Assignments	26.8/25	Proctored Exam	37.8/75
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Total number of candidates certified in this course: 186

Jan-Apr 2025
(12 week course)

Prof. Kaushik Ghosh
Professor (Associate)
Coordinator (IIT)

Prof. Rajanath Ramani
Coordinator (NPTEL)
IIT Madras

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL202426520000000 To verify the certificate

No. of credits recommended: 3 or 4

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
VENGATESH KUMAR
for successfully completing the course

Semiconductor Devices for Next Generation Field Effect Transistors (More than Moore): A Physics Perspective

with a consolidated score of **54 %**

Online Assignments	24.06/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 238

Jan-Apr 2025
(12 week course)

Prof. Kaushik Ghosh
Professor (Associate)
Coordinator (IIT)

Prof. Rajanath Ramani
Professor (JRC)
Coordinator (NPTEL)

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL202426670000000 To verify the certificate

No. of credits recommended: 3 or 4

FDP PARTICIPATION

S.No.	Name of the Faculty	Program Participated	Duration	Name of the Organisation
1.	N.Dheenathayalan	Cyber Security	14/02/2025 - 20/02/2025	Sapthagiri NPS University, Bangalore.
2.	AmanullaKhan	Cyber Security	14/02/2025 - 20/02/2025	Sapthagiri NPS University, Bangalore.
3.	M L Syed Ali	Cyber Security	14/02/2025 - 20/02/2025	Sapthagiri NPS University, Bangalore.
4.	Peer Oli	Cyber Security	14/02/2025 - 20/02/2025	Sapthagiri NPS University, Bangalore.
5.	S Rahmath Noor Nathira	Cyber Security	14/02/2025 - 20/02/2025	Sapthagiri NPS University, Bangalore.
6.	N Dheenathayalan	Gen AI & ChatGPT Application in Industry	27/01/2025 - 31/01/2025	SJC Institute of Technology, Chikkaballapur.
7.	M L Syed Ali	Gen AI & ChatGPT Application in Industry	27/01/2025 - 31/01/2025	SJC Institute of Technology, Chikkaballapur.
8.	AmanullaKhan	Gen AI & ChatGPT Application in Industry	27/01/2025 - 31/01/2025	SJC Institute of Technology, Chikkaballapur.
9.	S Rahmath Noor Nathira	BlockChain & Web3	10/03/2025 - 17/03/2025	Sri Siddhartha Institute of Technology. Karnataka.

FDP PARTICIPATION

S.No.	Name of the Faculty	Program Participated	Duration	Name of the Organisation
10.	M Shahana	Cyber Security	14/02/2025 - 20/02/2025	Sapthagiri NPS University, Bangalore.
11.	Peer Oli	Outcome based pedagogic Principles for Effective Teaching.	25/01/25 - 25/05/25	NPTEL - AICTE
12.	Amanullah Khan	Data Analytics using Python	09/06/25 - 13/06/25	Mohamed Sathak Engineering College.
13.	S Vengatesh Kumar	Artificial Intelligence and Machine Learning For Medical image Analysis	21/04/25 - 25/04/25	CMR Institute of Technology, Bengaluru.
14.	M Sarojini Devi	Data Analytics using Python	09/06/25 - 13/06/25	Mohamed Sathak Engineering College.
15.	Muthuvel Arumugam	The Foundation and Future of Quantum Computing.	05/05/25 - 09/05/25	Sri Sairam College of Engineering, Bengaluru.
16.	N Dheenathayalan	Data Analytics using Python	09/06/25 - 13/06/25	Mohamed Sathak Engineering College.
17.	M Shahana	Gen AI & ChatGPT Application in Industry	27/01/2025 - 31/01/2025	SJC Institute of Technology, Chikkaballapur.
18.	S Rahmath Noor Nathira	Machine Learning and Its applications in Image Processing and IOT	28/05/25 - 30/05/25	Sethu Institute of Technology, Pulloor.

FDP PARTICIPATION

S.No.	Name of the Faculty	Program Participated	Duration	Name of the Organisation
19.	Vengatesh Kumar	Semi Conductor devices for Next generation Field Effect Transistors(More than Moore): A Physics Perspective	25/01/25 - 29/05/25	NPTEL - AICTE
20.	Vengatesh Kumar	Analog ICs and Semiconductor Advancements in VLSI	10/02/25 - 15/02/25	National Institute of Technology, Delhi.
21.	Vengatesh Kumar	ASIC Analog Design using SCL 180nm PDK	03/02/25 - 07/02/25	ChipIN Centre at C-DAC, Bangalore.



FDP PARTICIPATION



FDP PARTICIPATION



FDP PARTICIPATION



NPTEL AND OTHER CERTIFICATIONS

S.N o	Name of the Attendant	FDP Title	Start Date & End Date	Duration
1.	G. Arikaran	Fundamentals of MIMO Communications	Jan 25 - May 30	8 week Course
2.	G. Arikaran	Introduction to Internet of Things	Jan 25 - May 31	8 Week Course
3.	JEYA PUSHPA MALATHI	CMOS Digital VLSI Design	Jan 25 - May 32	8 week Course
4.	PANDI	CMOS Digital VLSI Design	Jan 25 - May 32	8 Week Course
5.	JEYA PUSHPA MALATHI	Introduction To Internet Of Things	Jan 25 - May 31	8 Week Course
6.	Muthuvel Arumugam	Masterclass series Under IP utsav	Apr 21 - Apr 26	1 Week Course
7.	Rahmath Noor Nathira	IPR Awareness Program	Feb 27 - Feb 28	2 Day Course
8.	Syed Ali	IPR Awareness Program	Feb 27 - Feb 28	2 Day Course

NPTEL AND OTHER CERTIFICATIONS

S.No	Name of the Attendant	FDP Title	Start Date & End Date	Duration
9.	Amanulla Khan	IPR Awareness Program	Feb 27 - Feb 28	2 Day Course
10.	Peer Oli	IPR Awareness Program	Feb 27 - Feb 28	2 Day Course
11.	Dheenathayalan	IPR Awareness Program	Feb 27 - Feb 28	2 Day Course
12.	Sarojini Devi	IPR Awareness Program	Feb 27 - Feb 28	2 Day Course
13.	Muthuvel	IPR Awareness Program	Feb 27 - Feb 28	2 Day Course
14.	Shahana	IPR Awareness Program	Feb 27 - Feb 28	2 Day Course
15.	Sabitha Banu	Image Recognition using Machine Learning	Jan 24 - Jan 25	2 Day Course
16.	Shahana	Satellite Data Processing Of Open-source Data For Agriculture	Apr 5	1 Day Course

NPTEL AND OTHER CERTIFICATIONS

S.No	Name of the Attendant	FDP Title	Start Date & End Date	Duration
17.	Shahana	The Power of Taking Charge: Breaking Barriers, Building Futures	Mar 8	1 Day Course
18.	Muthuvel Arumugam	Artificial Intelligence in Wireless Communication and Sensor Networks: Networking to Application Perspectives	Jan 23 - Jan 24	2 Day Course
19.	Vengatesh Kumar	Masterclass series Under IP utsav	Apr 21 - Apr 26	1 Week Course
20.	Alameen	VLSI System on Chip Design - Overview	Mar 16	1 Day Course
21.	Alameen	GUVI's – UI/UX	Mar 07	1 Day Course
22.	Dharma Sudharsanan	Masterclass on FPGA Design	Mar 10 - Apr 05	3 Week Course
23.	Pandi	Embedded System Design - Overview	Mar 27	1 Day Course
24.	Parsana Begam	Verilog HDL – Hands on	Mar 20	1 Day Course

NPTEL AND OTHER CERTIFICATIONS

S.No	Name of the Attendant	FDP Title	Start Date & End Date	Duration
25.	Mufliha	Digital Design – Hands on	Mar 21	1 Day Course
26.	Mohamed Shahin Ali	GUVI's – UI/UX	Mar 07	1 Day Course
27.	Jananieswari	Verilog HDL – Hands on	Mar 20	1 Day Course
28.	Mohamed Shahin Ali	Design Thinking	Mar 17	1 Day Course
29.	Dharma Sudharsanan	Python Beginner Skill test	Mar 31	1 Day Course
30.	Pandi	VLSI System On Chip Design - Overview	Mar 21	1 Day Course
31.	Dharma Sudharsanan	VLSI System On Chip Design - Overview	Mar 21	1 Day Course



NPTEL AND OTHER CERTIFICATIONS



NPTEL AND OTHER CERTIFICATIONS



NPTEL ONLINE CERTIFICATION
(Presented by the MHRD, Govt. of India)

This certificate is awarded to
JEYA PURNIMA BALATH
for successfully completing the course
CMOS Digital VLSI Design
with a cumulative score of **58 %**

Online Assignments	50.40/55	Practical Exam	10/15
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Total number of candidates certified in this course: **5488**

Prof. Anand Kumar
Prof. Anand Kumar
Department of Electrical Engineering
Indian Institute of Technology Madras

Prof. Ravindra Subramanian
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swamyam

For use: NPTEL 2022-23 (Semester I) For work by the candidate For use: NPTEL 2022-23 (Semester I) For use: NPTEL 2022-23 (Semester I)



NPTEL AND OTHER CERTIFICATIONS



STUDENT ACHIEVEMENTS

Sl. n o	Register Number	Name of the Student	Dept / Branch	Event Type	Name of the Event	Position Secured
1.	911523106004	Ahamed Hamdhan	ECE	Sports	Cricket	RUNNER
2.	911522106023	Pandi	ECE	Sports	Cricket	RUNNER

CSK-RDCA inter-collegiate T20 tournament.

The scores: Syed Ammal EC 215/7 in 20 overs (N. Naveen Kumar 42, V.S. Ramesh Babu 38, S. Shihab Karunai 31) bt UCE (Ramanathapuram) 46 in 11.4 overs (M. Saarukesh 3/14). Bharat Ratna Dr. A.P.J. Abdul Kalam GASC 128/6 in 20.overs bt GASC (Mudukulathur) 24 in 7.4 overs. Mohamed Sathak EC 95/8 in 20 overs (J. John Joyal 45) bt Syed Ammal ASC 63 in 13 overs (S. Kavil Kumar 3/14, V. Deepak 3/21). Syed Hameedha ASC 154/7 in 20 overs (M. Gungan 43, S. Mathan Kumar 3/28) bt Caussanel CAS 100/8 in 20 overs (D. Stephen Mano 47, S. Vadivel 3/14).

STUDENT INTERNSHIPS

Sl. No	Register No.	Name of the Student	Name of the Company for Internship	Domain Name	Location
1	911521106001	A.ARAVINTHAN	Brainery Spot Technology	Full Stack Web Development	Coimbatore
2	911521106002	S.BAHIR JAMAN	KEVELL	Web Development	Thirunelveli
3	911521106003	HASAN IBRAHIM RAFIAAN.M	Brainery Spot Technology	Full Stack Web Development	Coimbatore
4	911521106004	V. JOTHEES WARAN	AK Infopark	Full Stack Web Development	Nagercoil
5	911521106005	M.KALEES RAJ	Brainery Spot Technology	Full Stack Web Development	Coimbatore
6	911521106006	S.S.KLINGTON	KEVELL	Web Development	Thirunelveli
7	911521106007	S.LAKSHMANAN	VEI Technologies	Full Stack in Python	Chennai
8	911521106009	B.MOHAMED IMRAN KHAN	AK Infopark	Full Stack Web Development	Nagercoil
9	911521106010	M. MOHAMED IRFAN	AK Infopark	Full Stack Web Development	Nagercoil
10	911521106011	MUHAMMED FAYIS P M	SMEC	Cyber Security	Kochi
11	911521106012	J.PREETHIGA	Techvolt Software	Full Stack Web Development	Coimbatore
12	911521106013	S.SABARIKA	Techvolt Software	Full Stack Web Development	Coimbatore
13	911521106014	P.SUBASH	Brainery Spot Technology	Full Stack Web Development	Coimbatore

STUDENT INTERNSHIPS

Sl. No	Register No.	Name of the Student	Name of the Company for Internship	Domain Name	Location
14	911521106301	M.MANOJKUMAR	Valuthur Gas Turbine Power Station	Power Generation Combine Cycle	Ramanathapuram
15	911521106302	K. SUYAMBULINGAM	AK Infopark	Full Stack Web Development	Nagercoil
16	911521106008	MOHAMED FIYAS M	ATS	Full Stack Web Development	Coimbatore



Editorial team:

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Prof.H.Peer Oli, HOD/ECE

Team Coordinators:

Mrs.S.Rahmath Noor Nathira,
Assistant Professor/ECE

Team Members:

S.Seeni Ihuthizam
III Year ECE

M.Mohamed Shahin Ali
IV Year ECE