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

TABLE OF CONTENTS

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, µp 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 µp, 8051, 8096 µc 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**

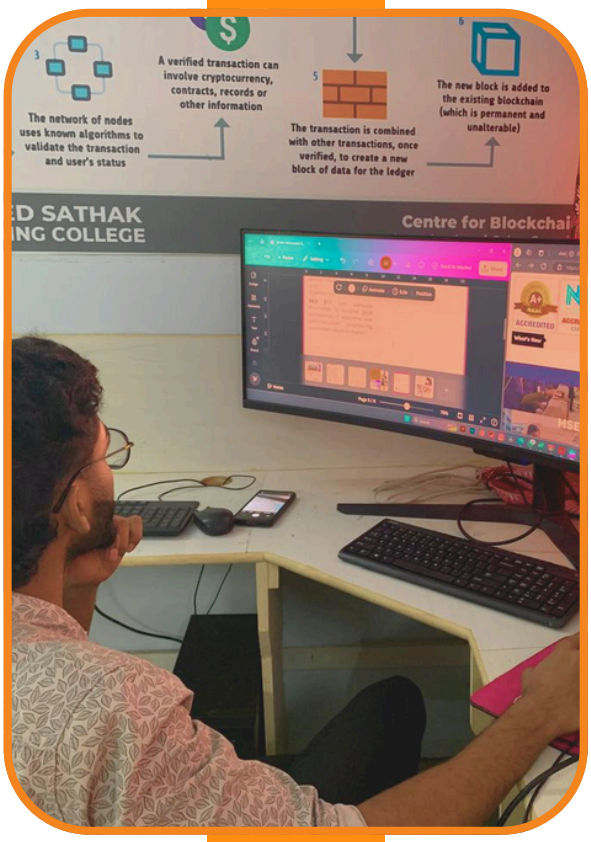
MISSION

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.

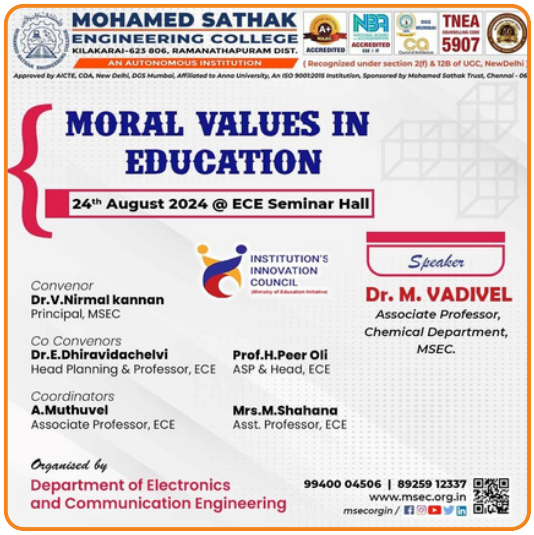
PEO 5:To inculcate in the students a professional and ethical attitude and an ability to visualize the engineering issues in a broader social context.

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

- Guest Lecture on Introduction to **Moral Values in Education** for Engineering Students delivered by Dr.M.Vadivel on **24.08.2024**



- Seminar on **"Accelerators/Incubation - Opportunities for Students & Faculties - Early-Stage Entrepreneurs"** delivered by S.Vengatesh Kumar on **17.08.2024**

- Workshop on "**IoT and Embedded System**" Presented by **Mrs.S.Indumathi** on **30.09.2024**

EVENT ORGANIZED

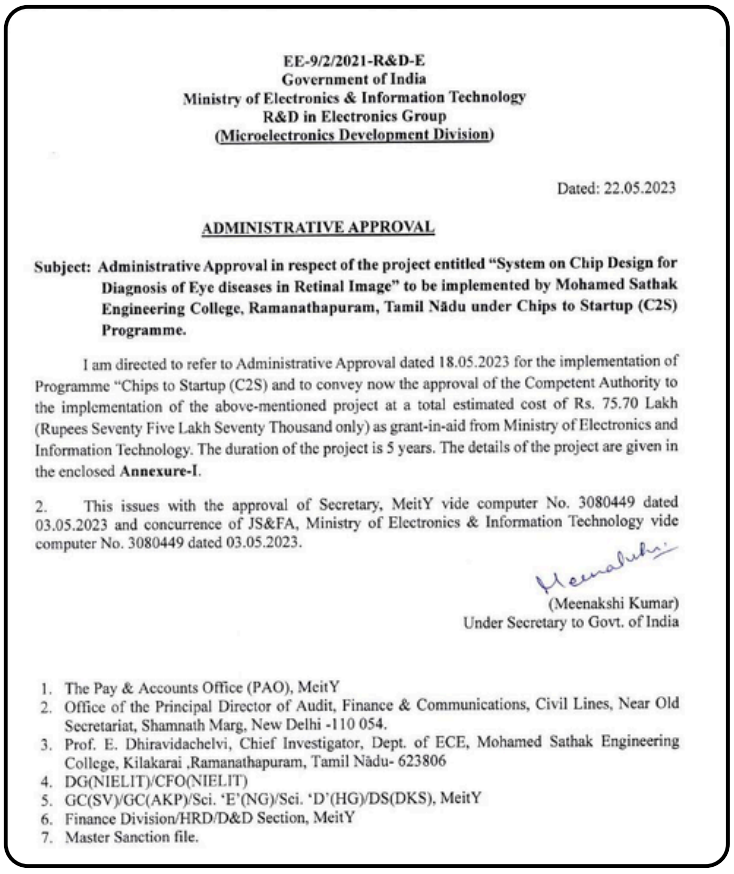
- Webinar on "**Empowerment talk on the entrepreneurs Odyssey**": The Journey From Concept To Impact presented by
  Ms Tamilselvi on **27.11.2024**

- Guest lecture on "**Recent Innovation in Antenna and Microwave Communication**" delivered by **Dr.G.Jeevagan Navukarasu Lenin** on **08.11.2024**

RESEARCH PROPOSAL GRANTED

Dr.E.Dhiravidachelvi, Mr.S.Vengatesh kumar, Mr.H.Peer Oli, Mr.A.Muthuvel & Ms.M.Shahana were Received **Rs.82.42 Lakhs** from Chip to Start up, Ministry of Electronics & Information Technology(MeitY) for the Project titled "**System on Chip Design for Diagnosis of Eye disease in Retinal Image**"
Date of Approval/Submitted and Reference No : **18.05.2023/3080449**

Dr.E.Dhiravidachelvi & Mr.S.Vengatesh kumar Received IPR Funds of Amount Rs.25,000 on Feb 2025



EE-9/2/2021-R&D-E
Government of India
Ministry of Electronics & Information Technology
R&D in Electronics Group
(Microelectronics Development Division)

Dated: 22.05.2023

ADMINISTRATIVE APPROVAL

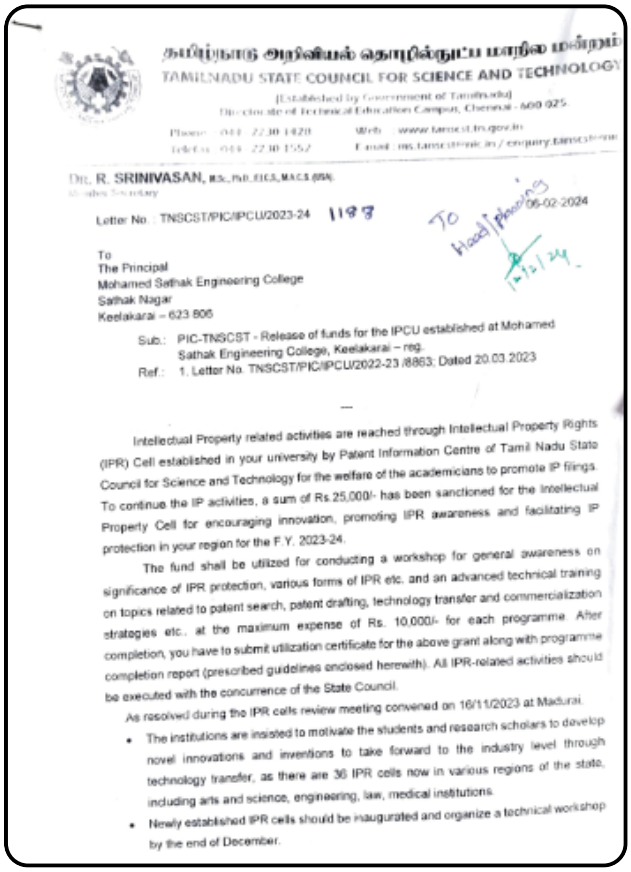
Subject: Administrative Approval in respect of the project entitled "System on Chip Design for Diagnosis of Eye diseases in Retinal Image" to be implemented by Mohamed Sathak Engineering College, Ramanathapuram, Tamil Nādu under Chips to Startup (C2S) Programme.

I am directed to refer to Administrative Approval dated 18.05.2023 for the implementation of Programme "Chips to Startup (C2S) and to convey now the approval of the Competent Authority to the implementation of the above-mentioned project at a total estimated cost of Rs. 75.70 Lakh (Rupees Seventy Five Lakh Seventy Thousand only) as grant-in-aid from Ministry of Electronics and Information Technology. The duration of the project is 5 years. The details of the project are given in the enclosed **Annexure-I**.

2. This issues with the approval of Secretary, MeitY vide computer No. 3080449 dated 03.05.2023 and concurrence of JS&FA, Ministry of Electronics & Information Technology vide computer No. 3080449 dated 03.05.2023.

(Meenakshi Kumar)
Under Secretary to Govt. of India

1. The Pay & Accounts Office (PAO), MeitY
2. Office of the Principal Director of Audit, Finance & Communications, Civil Lines, Near Old Secretariat, Shamnath Marg, New Delhi -110 054.
3. Prof. E. Dhiravidachelvi, Chief Investigator, Dept. of ECE, Mohamed Sathak Engineering College, Kilakarai ,Ramanathapuram, Tamil Nādu- 623806
4. DG(NIELIT)/CFO(NIELIT)
5. GC(SV)/GC(AKP)/Sci. 'E'(NG)/Sci. 'D'(HG)/DS(DKS), MeitY
6. Finance Division/HRD/D&D Section, MeitY
7. Master Sanction file.



தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்
TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
[Established by Government of Tamilnadu]
Directorate of Technical Education Campus, Chennai - 600 025.

Dr. R. SRINIVASAN, M.Sc., Ph.D., F.I.C.S., M.A.C.S. (USA)

Letter No. : TNSCST/PIC/IPCU/2023-24 1193 Dated: 06-02-2024

To
The Principal
Mohamed Sathak Engineering College
Sathak Nagar
Keelakarai – 623 806

Sub.: PIC-TNSCST - Release of funds for the IPCU established at Mohamed Sathak Engineering College, Keelakarai – reg.
Ref.: 1. Letter No. TNSCST/PIC/IPCU/2022-23 /8863: Dated 20.03.2023

Intellectual Property related activities are reached through Intellectual Property Rights (IPR) Cell established in your university by Patent Information Centre of Tamil Nadu State Council for Science and Technology for the welfare of the academicians to promote IP filings. To continue the IP activities, a sum of Rs.25,000/- has been sanctioned for the Intellectual Property Cell for encouraging innovation, promoting IPR awareness and facilitating IP protection in your region for the F.Y. 2023-24.

The fund shall be utilized for conducting a workshop for general awareness on significance of IPR protection, various forms of IPR etc. and an advanced technical training on topics related to patent search, patent drafting, technology transfer and commercialization strategies etc., at the maximum expense of Rs. 10,000/- for each programme. After completion, you have to submit utilization certificate for the above grant along with programme completion report (prescribed guidelines enclosed herewith). All IPR-related activities should be executed with the concurrence of the State Council.

As resolved during the IPR cells review meeting convened on 16/11/2023 at Madurai.

- The institutions are insisted to motivate the students and research scholars to develop novel innovations and inventions to take forward to the industry level through technology transfer, as there are 36 IPR cells now in various regions of the state, including arts and science, engineering, law, medical institutions.
- Newly established IPR cells should be inaugurated and organize a technical workshop by the end of December.

JOURNAL PUBLICATIONS

S.No	Name of the Faculty	Journal name	TITLE	DOI
1	Dr.E.Dhiravidachelvi	Signal,image and Video Processing	Enhancing image classification using adaptive convolutional autoencoder-based snow avalanches algorithm	6/1/2024
2	Dr.Amanullakhan M	Technology and Health Care Procesing	BCD TranNet: Automatic Breast Cancer Detection and Classification using Transfer learning Approch	30/9/24
3	S.Vengatesh Kumar	Optical and Quantum Electronics	Generating higher order bright soliton pulse using integrated lithium niobate waveguides for higher end supercontinuum application	5/3/2024
4	S.Vengatesh Kumar	International journal of creative research thoughts	Glaucoma Detection using Deep CNN based on Neural Networks for FPGA Artix 7 Board	10/08/2024

JOURNAL PUBLICATIONS

Signal, Image and Video Processing
https://doi.org/10.1007/s11760-024-03357-0

ORIGINAL PAPER

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

E. Dhiravidachelvi[1] · T. Joshva Devadas[2] · P. J. Sathish Kumar[3] · S. Senthil Pandi[4]

Received: 16 November 2023 / Revised: 12 February 2024 / Accepted: 21 February 2024

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) diagnosing 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 technique is a preferred choice. In this paper, an effective detection and classification technique Adaptive convolutional Autoencoder-based Snow Avalanches (ACAE-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 Avalanches algorithm is integrated into this work as an optimization technique. For the validation of the proposed architecture two MRI image datasets namely figshare and BraTS 2018 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 avalanches algorithm

1 Introduction

An abnormal growth of the brain cells is known as a brain tumor which results in cancer. Gliomas are considered 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 fourteen 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 preamble medical examination which is utilized to extract the brain cells before the cerebrum 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 composure time which is used in detecting the various brain tissues [3]. Generally, the most used modality is considered the T1W because it enables the simple annotation between the tissues that are healthy [4]. The radiologist uses advanced machine learning techniques for the appropriate data in terms of the disease status. Advancement in Machine Learning, especially in Deep Learning which results in detection and classification of the clinical image patterns. Nowadays, Machine learning is a highly used tool to enhance performance in terms of detecting, and diagnosing cellular and molecular structures [5].

✉ E. Dhiravidachelvi
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[2] School of Computer Science and Engineering, VIT University, Vellore, India
[3] Department of Computer Science and Engineering, Panimalar Engineering College, Chennai, Tamil Nadu, India
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INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

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

Gayatri Sivarajani[1], S. Vengatesh Kumar[2], H. Peer Ali[3], Mr.M.Shahana[4]

PG Scholar[1], Assistant Professor[2], Associate Professor[3], Assistant Professor[4], Mohamed Sathak 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

I. 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.

Research article

BCD-TransNet: Automatic breast cancer detection and classification using transfer learning approach

Technology and Health Care
1–20

DOI: 10.1177/09287329241296354
journals.sagepub.com/home/thc

Sage | IOS Press

Amanullakhan M[1], Sridhar P[2], Indra J[3] and Sridevi R[4]

Abstract
Breast Cancer (BC) is a predominant form of cancer diagnosed in women and one of the deadliest diseases. The important cause of death owing to the cancer amongst women is BC. However, the existing ML techniques are very challenge evaluate the performance of the classification of BC and difficult task for early diagnosis. To overcome this challenge, transfer learning framework have been broadly applied to histopathological images for classifying tumour. So, in this research a novel BC Detection using Transfer learning network (BCD-TransNet) is introduced to identify and classify BC stages. Initially, the histopathological images from BreakHis dataset are pre-processed using stationary wavelet based Retinex (SWR) for eliminating the noise and progress the image quality. The noise-free images are segmented using the Hybrid Greedy Snake-Krill Herd Optimization (HGS-KHO) algorithm. The BCD-TransNet model that incorporates with five different pre-trained networks in which the knowledge attained by each model is transfer to next network for extracting the most relevant features. This detection model has two different phases namely first level classification for identifying benign and malignant cells and the second level classification for identifying the different types in benign and malignant. Finally, the ML-based Decision tree is used to detect the stages of breast tumour. From the simulation analysis, the BCD-TransNet present well accuracy of 99.31% for the classification of breast tumour. The proposed Transfer learning-based BCD-TransNet model improves the overall accuracy 2.11%, 13.31%, 1.82% better than DLA-EABA, Pa-DBN-BC, TTCNN respectively.

Keywords
breast cancer, stationary wavelet based Retinex, Greedy snake optimization, Krill Herd optimization algorithm, decision tree

Received: 13 June 2024; accepted: 30 September 2024

1 Introduction

Cancer is a leading fatal illness in every country and a important impairment to increase the life expectation. GLOBOCAN analyses the globally malignance burden in 2020 based on estimates of BC incidence and decease rates from the International Organization for Investigation on Carcinoma. Among 36 malignancies, female BC is estimated to be the most common, with 2,261,419 instances recorded and 684,996 newly reported deaths.[1] BC refers to a malignant tumour that progresses in breast cells. It is one of the top prevalent and well-known types of cancer in women, though it is also less common in men.[2] Hysterically growing and separating breast cells can identify as a tumour that invades surrounding

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[4]Department of Electronics and Communication Engineering, K. Ramakrishnan College of Technology, Samayapuram, Trichy, India

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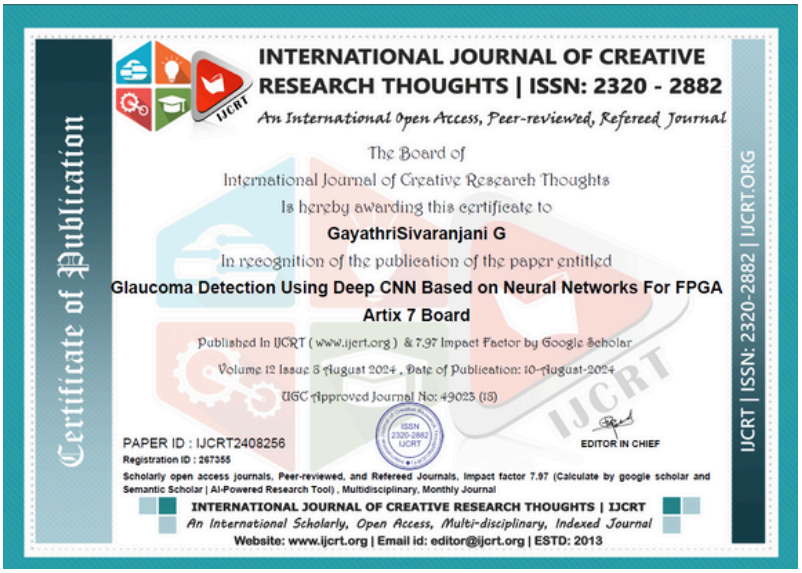
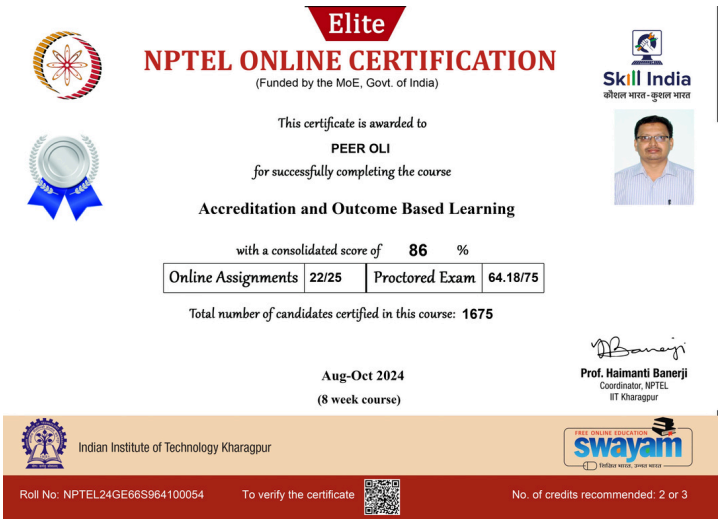
Email: amanulla82@gmail.com



NPTEL & OTHER ONLINE CERTIFICATIONS

S.NO	Name of the Faculty	FDP title	Start Date & End Date	Duration	Score and Merit Details (Elite/Silver/
1.	H.Peer Oli	Accreditation and Outcome Based Learning	Aug-Oct 2024	8 week course	Elite With Silver
2	S.Vengatesh Kumar	System Design Through Verilog	Jul-Sep 2024	8 week course	ELITE
3	S.Vengatesh Kumar	VLSI Design Flow:RTL to GDS	Jul-Oct 2024	12 week course	ELITE
4	S.Rahmath Noor NAthira	Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications	Aug-Oct 2024	8 week course	ELITE



FDP PARTICIPATION

S.No	Name of the Faculty	FDP titlle	Duration	Organisation
1.	H.Peer Oli	Accreditation and Outcome Based Learning	(Aug-Oct 2024	NPTEL-AICTE
2.	A.Muthuvel	Project proposal development workshop for generating livelihood opportunities in ramanathapuram district	20.09.2024	RAJA COLLEGE OF ARTS AND SCIENCE
3.	A.Muthuvel	Smart Farming: Role of Technology in millets Production	13/01/2025 to 18/01/2025.	AICTE Training and Learning (ATAL) Academy
4.	Dheenathayalan	Faculty Development Program on Cloud architect	18.11.2024 to 22.11.2024	Vardhaman Eng College, Hyderabad
5.	Syed Ali M L	Faculty Development Program on Cloud architect	18.11.2024 to 22.11.2024	Vardhaman Eng College, Hyderabad
6.	Rahmath Noor Nathira S	Faculty Development Program on Cloud architect	18.11.2024 to 22.11.2024	Vardhaman Eng College, Hyderabad
7.	Dr.M.Sarojini Devi	EV Technology:battery Modeling,sensors,BMS,Motors and E-Bus Charging.	12.08.2024 to 17.08.2024	Vidya vikas institute of Engineering & Technology. MYSURU
8.	Dr.M Amanullah khan	Next generation Embedded systems	09.09.2024 to 14.09.2024	Rajalakshmi engineering college

FDP PARTICIPATION

S.No	Name of the Faculty	FDP titlle	Duration	Organisation
9.	Dr.M. SAROJINI DEVI	One week national level faculty development programme on RECENT ADVANCEMENTS IN AI & IOT - INDUSTRY PERSPECTIVE	25.11.2024 to 30.11.2024	periyar maniammai institute of science & Technology (PMIST)
10	M.Shahana	Microwave Remote Sensing Applications	19.08.2024 to 23.08.2024	NATIONAL REMOTE SENSING CENTRE
11.	S.Rahmath Noor Nathira	Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications	Aug-Oct 2024	NPTEL-AICTE
12.	S.Vengatesh Kumar	System Design Through Verilog	Jul-Sep 2024	NPTEL-AICTE
13.	S. Vengatesh Kumar	FPGA-BASED SOC DESIGN COVERING DIR-V ARCHITECTURE & APPLICATIOVS	09-12-2024 to 13-12-2024	National Institute of Electronics & Information Technology (NIELIT), Calicut
14.	S.Vengatesh kumar	VLSI Design Flow: RTL to GDS	Jul-Oct 2024	NPTEL-AICTE
15.	A.Muthuvel	Publishing Quality research in high quality journals	11.09.2024	Mahaguru Institute of Technology

FDP PARTICIPATION

Periyar Maniammai Institute of Science & Technology
(Deemed to be university) , Vallam , Thanjavur

CERTIFICATE OF COMPLETION

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FACULTY DEVELOPMENT PROGRAMME

proudly presented to

Dr.M. SAROJINI DEVI

MOHAMED SATHAK ENGINEERING COLLEGE

for successful participation and completion of

ONE WEEK NATIONAL LEVEL FACULTY DEVELOPMENT PROGRAMME on

RECENT ADVANCEMENTS IN AI & IOT – INDUSTRY PERSPECTIVE

organised by Department of Computer Applications ,

Periyar Maniammai Institute of Science & Technology (PMIST), Vallam,
Thanjavur in association with Pantech Solutions
during the Period 25/11/2024 - 30/11/2024.

Dr. G. Preethi, Co- Convenor, AP(SG) , PMIST
Mr. M. Anand, Co- Convenor, AP(SG) , PMIST
Dr. D. Ruby, HoD/CA, PMIST
Dr. D. Magesh Kumar, Dean / FCSA, PMIST
Mr.Senthilkumar.M R, Director - Technical , Pantech Group

भारत सरकार Government of India
अन्तरिक्ष विभाग Department of Space
भारतीय अन्तरिक्ष अनुसंधान संगठन Indian Space Research Organisation
राष्ट्रीय सुदूर संवेदन केन्द्र NATIONAL REMOTE SENSING CENTRE
हैदराबाद – 500 037 Hyderabad - 500 037

2024-15-S/13

प्रमाण पत्र /CERTIFICATE

प्रमाणित किया जाता है कि
सुश्री एम शहाना, सहायक प्रोफेसर, मोहम्मद सार्थक इंजीनियरिंग कॉलेज, किलकरै ने
अगस्त 19-23, 2024 के दौरान आयोजित
"सूक्ष्मतरंग सुदूर संवेदन अनुप्रयोगों"
प्रशिक्षण कार्यक्रम में भाग लिया।

This is to certify that
Ms. M Shahana, Assistant Professor, Dept. of ECE, Mohamed Sathak Engineering College, Kilakarai
has participated in the training program on
"Microwave Remote Sensing Applications"
conducted during August 19-23, 2024.

पाठ्यक्रम समन्वयकर्ता / Course Coordinator
निदेशक / Director

Certificate Of Participation

Awarded To

Syed Ali M L

Participated in 5 Days
Faculty Development Program on Cloud Architect
Jointly organized by Vardhaman Engineering College, Shamshabad - Hyderabad,
AVS Engineering College, Salem – Tamil Nadu, JSS Science and Technology University, Mysore – Karnataka,
JB Institute of Engineering & Technology, Ranga Reddy – Telangana, GMR Institute of Technology, Vizianagaram -
Andhra Pradesh, Santhiram Engineering College, Nandyal - Andhra Pradesh
in Collaboration with ExcelR Edtech Pvt. Ltd.
Date: 18th Nov to 22nd Nov 2024.

Prof. JVR Ravindra, Principal, Vardhaman Engineering College
Dr. J Sundararajan, Principal, AVS Engineering College
Prof. Dr. S A Dhanaraj, Registrar, JSS Science and Technology University
Dr. G Sreenivasulu, HOD, JB Institute of Engineering and Technology
Dr. A V Ramana, HOD, GMR Institute of Technology
N Ramadevi, HOD, Santhiram Engineering College
Ram Tavva, CEO, ExcelR Edtech Pvt. Ltd.

Cert No: EXCELR-FDP-83928/30112024

RAJALAKSHMI ENGINEERING COLLEGE
INSTITUTION'S INNOVATION COUNCIL

CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./Ms. Dr. M. Amanulla Khan
of Mohamed Sathak Engineering College
has attended six days National Level Faculty Development Program (Virtual Mode) on "Next Generation Embedded Systems" from 09/09/2024 to 14/09/2024 organized by the Department of Electronics and Communication Engineering, Rajalakshmi Engineering College in association with Institute Innovation Council (IIC) and IEEE Microwave Theory and Technology Society (MTTS).

Dr. L. BHAGYALAKSHMI
Professor & HEAD, ECE- REC

Dr. S. N. MURUGESAN
PRINCIPAL, REC

Paint X Lite

Certificate Of Participation

Awarded To

Dheenathayalan

Participated in 5 Days
Faculty Development Program on Cloud Architect
Jointly organized by Vardhaman Engineering College, Shamshabad - Hyderabad,
AVS Engineering College, Salem – Tamil Nadu, JSS Science and Technology University, Mysore – Karnataka,
JB Institute of Engineering & Technology, Ranga Reddy – Telangana, GMR Institute of Technology, Vizianagaram -
Andhra Pradesh, Santhiram Engineering College, Nandyal - Andhra Pradesh
in Collaboration with ExcelR Edtech Pvt. Ltd.
Date: 18th Nov to 22nd Nov 2024.

Prof. JVR Ravindra, Principal, Vardhaman Engineering College
Dr. J Sundararajan, Principal, AVS Engineering College
Prof. Dr. S A Dhanaraj, Registrar, JSS Science and Technology University
Dr. G Sreenivasulu, HOD, JB Institute of Engineering and Technology
Dr. A V Ramana, HOD, GMR Institute of Technology
N Ramadevi, HOD, Santhiram Engineering College
Ram Tavva, CEO, ExcelR Edtech Pvt. Ltd.

Cert No: EXCELR-FDP-83928/30112024

1/1

NIELIT-IEP/03/DIR-V/043

Chips to Startup Programme

Ministry of Electronics and Information Technology Government of India

NIELIT

Certificate of Completion

It is certified that

VENGATESH KUMAR S

has successfully completed the Instruction Enhancement Program (IEP) on

FPGA-BASED SOC DESIGN COVERING DIR-V ARCHITECTURE & APPLICATIONS

Organized by

National Institute of Electronics & Information Technology (NIELIT), Calicut

under 'Chips to Start-up (C2S) Programme of Ministry of Electronics and Information Technology, Govt. of India

held from 09-12-2024 to 13-12-2024

IEP Coordinator

FACULTY ACHEIVEMENTS

Dr.E.Dhiravidachelvi appointed as company representative of National Institution for Quality and Reliability

Mrs.M.Hema kumari received a certificate for organizer from spoken tutorial IIT Bombay

Dr.M.Amanullah khan received a certificate of excellence from Ramanathapuram Economic Chamber.

MoU

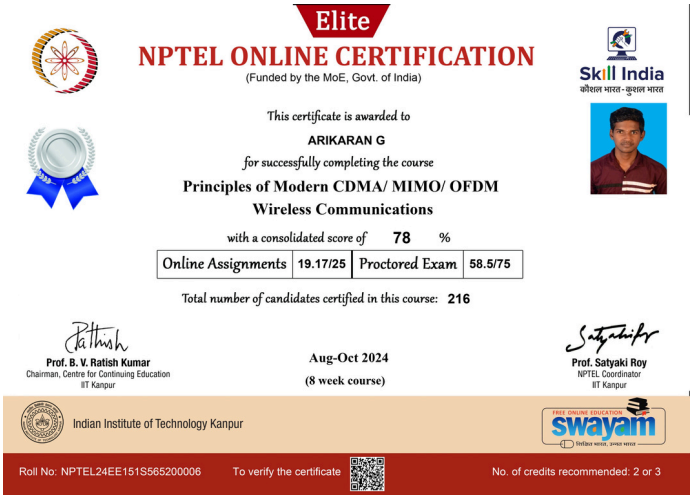
The ECE department has signed a Memorandum of Understanding (MoU) with **Abhijith Electronic Solution, Madurai,** to foster academic-industry collaboration. This partnership aims to enhance student training, internships, and real-time project opportunities.

The ECE department signed an MoU with **Space Zee Technologies, Chennai**, to promote industry-driven learning and innovation. This collaboration will provide students with hands-on experience through internships and technical workshops.

NPTEL & OTHER ONLINE CERTIFICATIONS

S.NO	Name of the student	FDP title	Start Date & End Date	Duration
1.	ARIKARAN G	Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications	AUG-OCT 2024	8 week course
2.	ARIKARAN G	Basics of Software Defined Radios and Practical Applications	JUL-AUG 2024	4 week course
3.	ARIKARAN G	Thee complete python bootcamp from zero to hero in python	21 NOV 2024	22 hours course
4.	III YEAR ECE (NETWORK ESSSENTIALS)	NETWORK ESSENTIALS FROM CISCO ACADEMY	19 NOV 2024	3 MONTHS
5.	II YEAR ECE (C PROGRAMMING)	C PROGRAMMING FROM IIT BOMBAY	14 NOV 2024	3 MONTHS
6.	III ECE	eSim (from IIT BOMBAY)	15 NOV 2024	3 MONTHS
7.	IV ECE	PYTHON 3.4.3	15 NOV 2024	3 MONTHS

NPTEL & OTHER ONLINE CERTIFICATIONS



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

ARIKARAN G

for successfully completing the course

Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications

with a consolidated score of 78 %

Online Assignments	19.17/25	Proctored Exam	58.5/75

Total number of candidates certified in this course: 216

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

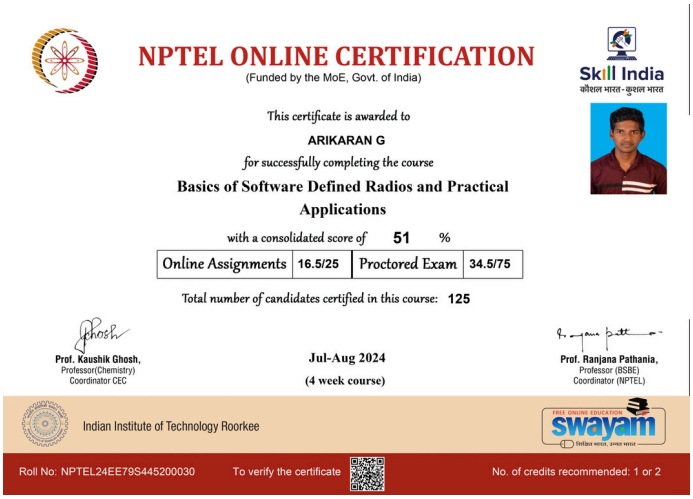
Aug-Oct 2024
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL24EE151S565200006 To verify the certificate No. of credits recommended: 2 or 3



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

ARIKARAN G

for successfully completing the course

Basics of Software Defined Radios and Practical Applications

with a consolidated score of 51 %

Online Assignments	16.5/25	Proctored Exam	34.5/75

Total number of candidates certified in this course: 125

Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

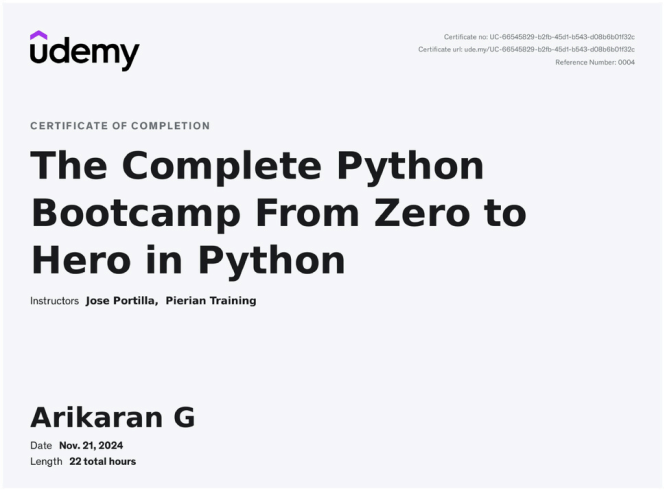
Jul-Aug 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

swayam

Roll No: NPTEL24EE79S445200030 To verify the certificate No. of credits recommended: 1 or 2



udemy

Certificate no: UC-66545829-b2fb-45d1-b543-d08b6b01f32c
Certificate url: ude.my/UC-66545829-b2fb-45d1-b543-d08b6b01f32c
Reference Number: 0004

CERTIFICATE OF COMPLETION

The Complete Python Bootcamp From Zero to Hero in Python

Instructors Jose Portilla, Pierian Training

Arikaran G

Date Nov. 21, 2024
Length 22 total hours

Networking Academy
CISCO

Certificate of Completion

Mohamed Shahin ali

has successfully achieved student level credential for completing the Network Technician Career Path.

The student was able to proficiently:

- Explain the importance of standards and protocols in network communications.
- Explain how communication occurs on Ethernet networks.
- Explain the features of IPv4 and IPv6 addresses.
- Configure an integrated wireless router and wireless client to connect securely to the internet.
- Explain how Ethernet operates in a switched network.
- Compare the operations of transport layer protocols in supporting end-to-end communication.
- Explain how DNS and DHCP services operate and diagnose basic network connectivity issues.
- Explain how routers use network layer protocols and services to enable end-to-end connectivity.
- Demonstrate effective troubleshooting methodologies and help desk best practices.
- Configure secure user access on a network.

Verified

Scan to Verify

November 19, 2024

Laura Quintana
Vice President and General Manager
Cisco Networking Academy

Spoken Tutorial Project at IIT Bombay

Certificate for the Completion of Cpp Training

This is to certify that **ALAMEEN S** has successfully completed **Cpp** test organized at **Mohamed Sathak Engineering College** by **N.Hema kumari** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.

RUBA A from **Mohamed Sathak Engineering College** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

Credits: 2 **Score:** 65.00%

November 14th 2024

Prof. Kannan M Moudgalya
IIT Bombay

Credits for the Spoken Tutorial courses are based on our estimates of the work required to complete them. Recipient institutions are required to apply due diligence and get them ratified/modified by their own duly formed academic/assessment body. Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India.

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Spoken Tutorial Project at IIT Bombay

Certificate for Completion of Python 3.4.3 Training

This is to certify that **BAHIR JAMAN S** has successfully completed **Python 3.4.3** test organized at **Mohamed Sathak Engineering College** by **N.Hema kumari** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.

RUBA A at **Mohamed Sathak Engineering College** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

Credits: 4 **Score:** 65.00%

November 15th 2024

Prof. Kannan M Moudgalya
IIT Bombay

Credits for the Spoken Tutorial courses are based on our estimates of the work required to complete them. Recipient institutions are required to apply due diligence and get them ratified/modified by their own duly formed academic/assessment body. Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India.

STUDENTS ACHEIVEMENTS

SI. NO	REGISTER NUMBER	NAME OF THE STUDENT	DEPT/BRANCH	EVENT TYPE	NAME OF THE EVENT	POSITION SECURED
1	911522106006	Mr.R.Dharma Sudharsan	ECE	CULTURAL	Solo Dance	RUNNER
2	911522106028	Mr.Shangar Dhayalan	ECE	SPORTS	Handball Championship	RUNNER
3	911522106023	Mr.Pandi	ECE	SPORTS	Handball Championship	RUNNER
4	911522106027	Mr.Seeniyappa	ECE	SPORTS	Handball Championship	RUNNER
5	911522106019	Mr.M.Mohamed Shahin Ali	ECE	TECHNICAL	Unlocking Innovation with IoT and AI	RUNNER
6	911523106042	Mr.Seeni Ihuthizam	ECE	TECHNICAL	Line Following Robot Competition	RUNNER
7	911522106034	Mr.Olith Mirsha	ECE	TECHNICAL	Line Following Robot Competition	RUNNER
8	911522106007	Mr.AlAmeen	ECE	TECHNICAL	Line Following Robot Competition	RUNNER
9	911522106004	Mr.Hamdhan	ECE	TECHNICAL	Line Following Robot Competition	RUNNER

STUDENTS ACHEIVEMENTS

STUDENTS INTERNSHIP

SI.NO	Register no	Name of the student	Name of the company for internship	Domain name like VLSI, embedded, IoT....	Location
1	911521106001	A.ARAVINTHAN	BRAINERYSPOT TECHNOLOGY	Full Stack Web Development	Coimbatore
2	911521106002	S.BAHIR JAMAN	KEVELL	Web development	Thirunelveli
3	911521106003	HASAN IBRAHIM RAFIAAN.M	BRAINERYSPOT TECHNOLOGY	Full Stack Web Development	Coimbatore
4	911521106004	V. JOTHEES WARAN	AK INFOPARK	Full stack Web Development	Nagercoil
5	911521106005	M.KALEES RAJ	BRAINERYSPOT 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	911521106008	M.MOHAMED FIYAS	Aititude Software	Full stack Web Development	Coimbatore
9	911521106009	B.MOHAMED IMRAN KHAN	AK INFOPARK	Full stack Web Development	Nagercoil
10	911521106010	M. MOHAMED IRFAN	AK INFOPARK	Full stack Web Development	Nagercoil
11	911521106011	MUHAMMED FAYIS P M	SMEC	Cyber security	Kochi
12	911521106012	J.PREETHIGA	Techvolt software	Full stack web development	Coimbatore
13	911521106013	S.SABARIKA	Techvolt software	Full stack web development	Coimbatore
14	911521106014	P.SUBASH	BRAINERYSPOT TECHNOLOGY	Full Stack Web Development	Coimbatore
15	911521106301	M.MANOJKUMAR	VALUTHUR GAS TURBINE POWER STATION	Power generation combine cycle,control room operation and monitoring system	Ramanathapuram
16	911521106302	K. SUYAMBULINGAM	AK INFOPARK	Full stack Web Development	Nagercoil

Editorial team:

Team head:

Prof.H.Peer Oli, HOD/ECE

Team Coordinators:

Mr.S.Vengatesh Kumar,
Assistant Professor/ECE

Ms.M.Shahana ,
Assistant Professor/ECE

Team Members:

M.Mohamed Shahin Ali
III Year ECE

S.Seeni Ihuthizam
II Year ECE