MOHAMED SATHAK ENGINEERING COLLEGE
AN AUTONOMOUS INSTITUTION
KILAKARAI-623 806, RAMANATHAPURAM DIST.
(Recognized under section 2(f) & 12B of UGC, NewDelhi)
Approved by AICTE, COA, New Delhi, DGS Mumbai, Affiliated to Anna University, An ISO 9001:2015 Institution, Sponsored by Mohamed Sathak Trust, Chennai - 06.

Electronics & Communication Engineering

News Letter 2023-2024

Alhaj. S.M. Mohamed Yousuf,

Chairman,
Mohamed Sathak Trust.

Dear Faculty, Students, and Staff of the Electronics and Communication Department, It gives me immense pleasure to address you all through this newsletter. The Electronics and Communication Department has always been one of the pillars of our institution, fostering innovation and academic excellence.

The advances made in this field are pivotal to shaping the future, and I am proud of the contributions that our department has been making. This year has been a remarkable journey, with numerous accolades achieved by both our students and faculty members. Whether it's in research, innovation, or academic performance, the progress of this department is truly commendable. I am continuously impressed by the dedication of the faculty, the curiosity and enthusiasm of the students, and the collective drive for innovation that is evident in all your endeavors. Together, let's continue to build a brighter future, not just for ourselves but for society as a whole.

Hajiyani. S.M.H. Sharmila,

Secretary,
Mohamed Sathak Trust.

Dear Students, Faculty, and Staff of the Electronics and Communication Department, It is an absolute honor to address all of you through our department's newsletter. The field of Electronics and Communication has always been at the forefront of innovation, continuously shaping the way we interact with the world.

The field of Electronics and Communication has always been at the forefront of innovation, continuously shaping the way we interact with the world. Our department's commitment to excellence, both in education and research, has been a testament to our shared passion for progress and growth. This academic year has brought with it many achievements that reflect the hard work and dedication of our students and faculty. It is our collective efforts that allow us to uphold the standards of excellence that our department is known for. The future of technology is bright, and I am confident that we will continue to be trailblazers in the field of electronics and communication.

Alhaj. P.R.L. Hamid Ibrahim,

Executive Director,
Mohamed Sathak Trust.

I am delighted to bring you the latest updates from our dynamic department. This year has been filled with exciting achievements from both our faculty and students, and we continue to grow stronger as a community.

Our department is not only excelling in academics and research but also fostering a spirit of collaboration and innovation that drives us forward.

We've seen increased participation in events, successful projects, and strong industry ties that are enhancing the learning experience for all. I encourage everyone to stay engaged, keep pushing boundaries, and contribute to the vibrant culture of our department.

Alhaj. S.M.A.J. Habeeb Mohamed,

Director,
Mohamed Sathak Trust.

Dear ECE Community,

It is a pleasure to share our department's remarkable progress in this edition of the newsletter.

Through innovative research, collaborative partnerships, and the hard work of our dedicated faculty and students, we are making significant contributions to both academia and industry.

As we look to the future, our focus remains on fostering a cutting-edge learning environment, driving impactful research, and strengthening our global connections. I extend my heartfelt thanks to everyone for your continued dedication to excellence.

Principal's Message:

Dear ECE Community,

I am thrilled to share the incredible accomplishments of our department in this edition of the newsletter. Our students, faculty, and staff have demonstrated exceptional commitment to advancing the fields of Electronics and Communication Engineering through cutting-edge research, innovative projects, and strong industry collaborations.

These efforts are not only pushing technological boundaries but also shaping the future of engineering education. As we continue to grow, our focus remains on fostering innovation, encouraging collaboration, and preparing our students for leadership in a rapidly evolving world. I thank each of you for your contributions and dedication to the success of our department.

Dr. V. Nirmal Kannan,
Principal,
Mohamed Sathak Engineering College.

HoD Message:

As the Head of the Department , I am pleased to share some of the exciting news in the Department of Electronics and Communication Engineering happened during the academic year 2023-24 through our newsletter. Newsletter is believed to be a focus of the inside activities i.e. academics, achievement of students and faculty as well as innovation occurring in the department.

In the era of engineering and technology, this newsletter will motivate the teachers and students of sharing their creativity and new ideas with the world and will help in their overall development. During this year, the staffs and students involved in various academic, cocurricular, extra-curricular as well as research & developments activities. I would like to thank all my colleagues for their tireless efforts for the progress of the department at a very steady pace.

Prof. H. Peer Oli,
Head, Department of ECE,
Mohamed Sathak Engineering College.

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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, 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 5I 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 Applied Electronics**

Department of Electronics & Communication Engineering

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

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.

ECE NEWS LETTER

Program Educational Objectives (PEO)

PEO1 To provide the students with a strong foundation in the required sciences in order to pursue studies in Electronics and Communication Engineering.

PEO2. To gain adequate knowledge to become good professional in electronic and communication engineering associated industries, higher education and research.

PEO3 To develop attitude in lifelong learning, applying and adapting new ideas and technologies as their field evolves.

PEO4 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.

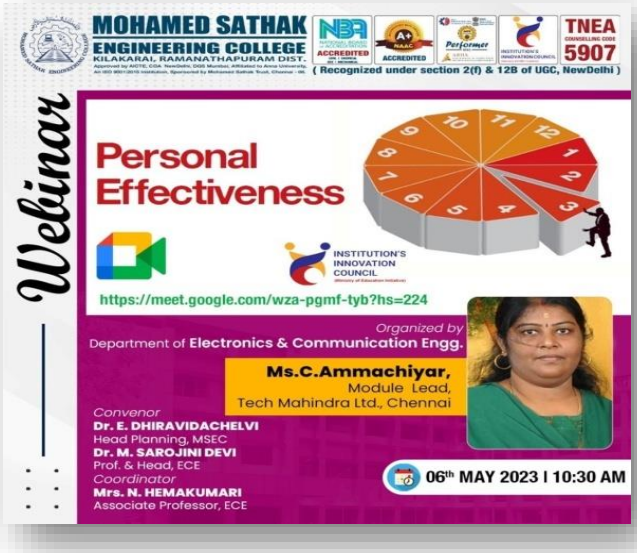
PEO5 To inculcate in the students a professional and ethical attitude and an ability to visualize the engineering issues in a broader social context.

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

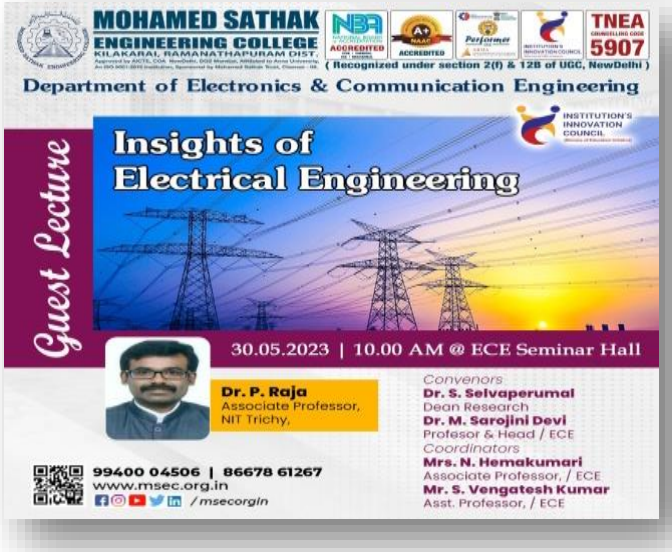
Events Organized

- One day webinar on "**Personal Effectiveness**" conducted by **Ms.C.Ammachiyar,Module lead, Tech Mahindra Ltd,Chennai** organized by Dr.E.Dhiravidachelvi,Dr.M.Sarojini devi and Ms.N.Hemakumari on **06/05/23**



- **Prof.H.Peer Oli/ECE,** Head Accreditation organized one day seminar on **"Outcome based education & How to write Quality Research Paper"on** 30.05.2023 **MBA Seminar** @10.30AM

- Guest lecture **Dr.M.Sarojini Devi, Mrs.N.HemaKumari,& Mr.S.Vengatesh Kumar** organized **Guest lecture** on "**Insights of Electrical Engineering**" on **30.05.2023 @ 10.00 AM** ECE Seminar Hall.



- One day Seminar **"Automotive Embedded System" 0n 09.09.2023** organized by Dr.M.Sarojini Devi, Mrs.N.Hema kumari & Mr.S.Vengatesh Kumar

Events Organized

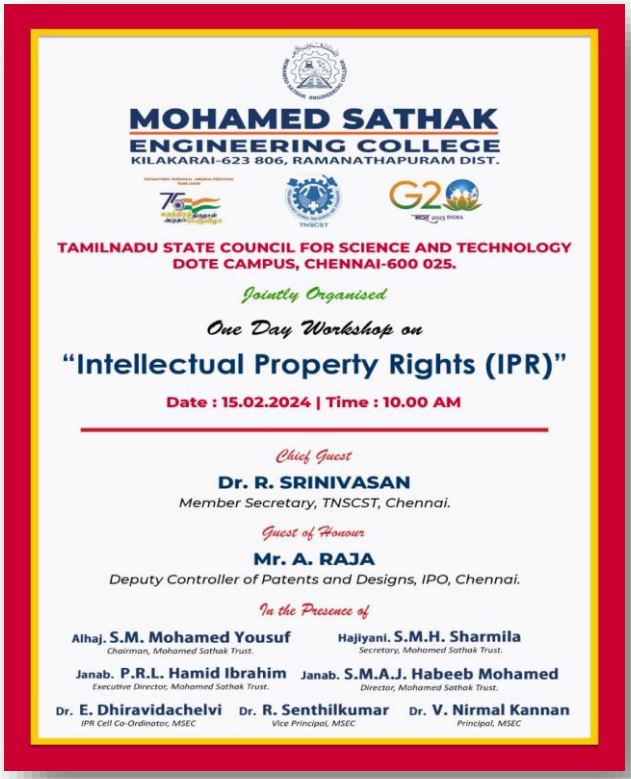
Two Days Hands on Training on **“Image Processing Using MATLAB”** on 19.09.23 to 20.09.23 Organized by Dr.M.Sarojini Devi, Ms.M.Shahana, Dr.A.Shyamala & Mr.A.Muthuvel

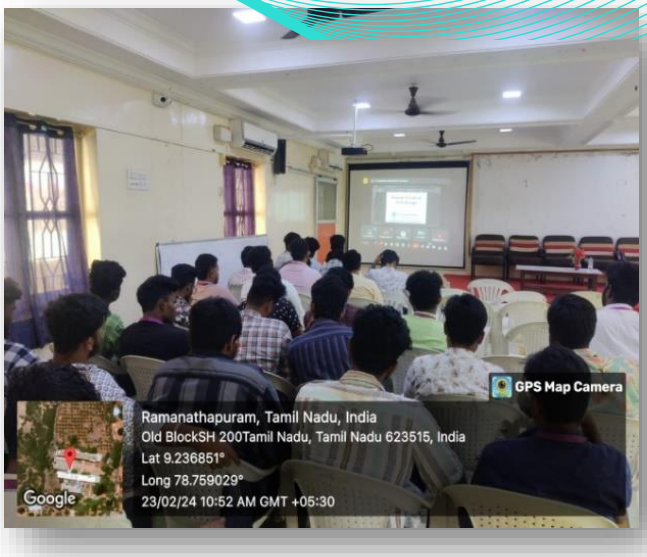
“**An Intra Institutional start up idea competition for students**” on **29.08.2023** Organized by Dr.M.Sarojii Devi, Mr.M.L.Syed Ali & Mr.S.Bismilla Khan.

One day workshop on **“Intellectual Property Rights (IPR)”** by **TNSCST** on 15.02.2024.

Chief Guest Dr.R.Srinivasan , Member Secretary,
TNSCST, Chennai and Guest of Honour Mr.A.Raja,
Deputy Controller of Patents & Designs,
IPO,Chennai

One day Guest lecture on **“Into the Silicon Jungle ”**on 23.02.2024, organised by
Mr.S.VengateshKumar,AP/ECE,
Ms.M.shahana,AP/ECE

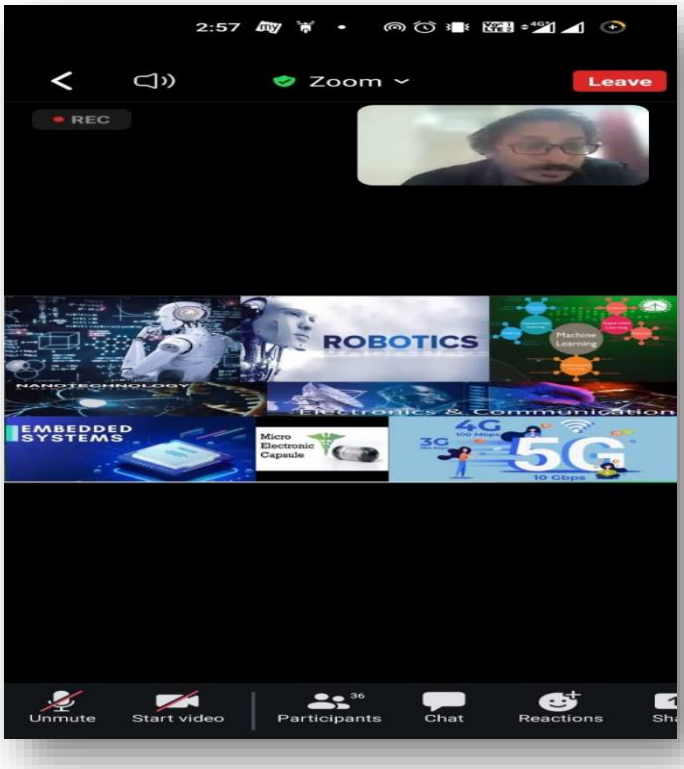




One day Guest Lecture on **"Opportunities after engineering through GATE ESE PSU"** by **TNSCST** on 24.04.2024, Organised by

Mrs.N.Hemakumari,ASP/ECE,

Ms.M.Shahana,AP/ECE

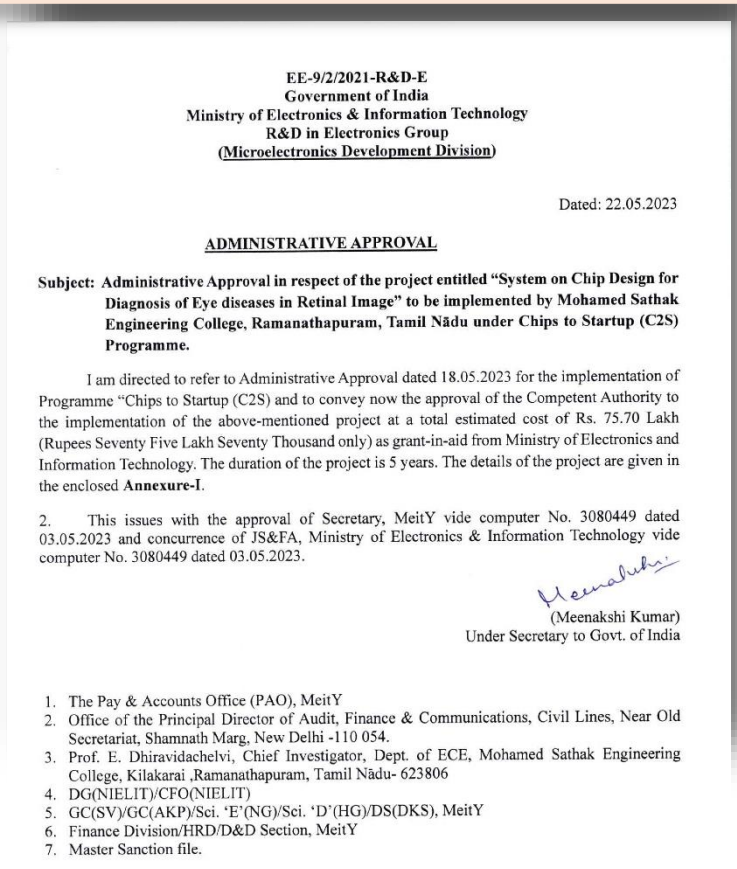


Research Proposals granted

Dr.E.Dhiravidachelvi, Mr.S.Vengatesh kumar, Mr.H.Peer Oli, Mr.A.Muthuvel & Ms.M.Shahana were Received **Rs.75.70 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 2024.



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

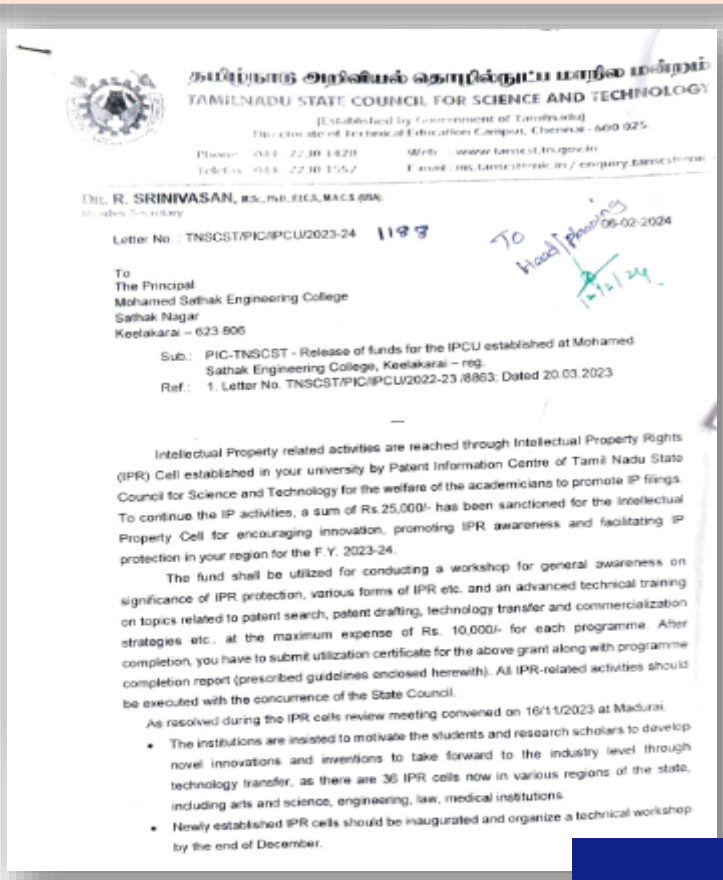
Subject: Administrative Approval in respect of the project entitled "System on Chip Design for Diagnosis of Eye diseases in Retinal Image" to be implemented by Mohamed Sathak Engineering College, Ramanathapuram, Tamil Nādu under Chips to Startup (C2S) Programme.

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.



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

Dr. R. SRINIVASAN, B.Sc., Ph.D., FICS, MACS (USA)
Member Secretary

Letter No. : TNSCST/PIC/IPCU/2023-24 1193 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.

Faculty Publications

S.No	Name of the Faculty	Journal name	SCI/WOS/SCOPUS/ANNEXURE I	TITLE	DOI	DATE OF PUBLICATION
1	Dr.M.Sarojini Devi	Solovyov studies	SCOPUS	IoT based accident detection system for smart vehicles and prevention system for E-Vehicle	–	Mar-24
2	Dr.M.Sarojini Devi	International Journal of Advanced Research in Science Communication and Technology	OTHERS	Solar Powered IoT based Waste management in Smart City	–	Oct-23
3	Dr.A.Shyamala	Computer methods in Bio Mechanics and Bio Medical Engineering	SCI	Hybrid Grey Assisted Whale optimization based Machine Learning for the COVID-19 Prediction	10.1080/10255842.2023.2292008	Dec-23
4	Mr.H.Peer Oli	International Journal of Creative Research Thoughts (IJCRT)	UGC	High Gain Patch Array antenna for future 5G applications	–	Mar-24
5	Mr.A.Muthuvel	Expert systems with applications	SCI	Crossover Smell agent Optimized multilayer perceptron for precise Brain tumour classification on MRI images	10.1016/J.ESWA.2023.121453	Mar-24
6	Mr.M.Amanullakhan	Journal of Intelligent & Fuzzy Systems	SCI	Multigait recognition using Clustering based Faster regions convolutional neural networks	10.3233/JIFS-224114	–
7	Mr.S.Vengatesh kumar	Optical and quantum electronics	SCI	Generating Higher order bright soliton pulse using integrated lithium Niobate wave guides for higher end super quantinum application.	10.1007/S11082-024-06888-5	May-24

Faculty Publications

S.No	Name of the Faculty	Journal name	SCI/WOS/SCOPUS/ ANNEXURE I	TITLE	DOI	DATE OF PUBLICATION
8	Ms.M.Shahana	International Journal for Modern Trends in Science and Technology	UGC	Implementation of FPGA in Detecting Glaucoma using Neural Networks	10.46501/JMTST1003064	Mar-24
9	Dr.E.Dhiravidaselvi	UGC Care Approved Journal	UGC	Design and fabrication of automatic pneumatic controlled bar feeding, clamping and cutting attachment using Arduino microcontroller	ISSN : 0971 - 2143	Jan-23
10	Dr.M.Sarojini Devi	International journal of Advanced Research in Science Communication and Technology (IJARSCT)	OTHERS	Power Theft Identifier with GSM Announcement	ISSN(Online) 2581-9429	Feb-24
11	Dr.M. Sarojini Mam	Solovyov studies	SCOPUS	An Implementation ANFIS Controller based GMPPT for Photovoltaoic Systems	ISSN : 2076-9210	-
12	Dr.E.Dhiravidaselvi	Signal, Image and Video processing	SPRINGER	Enhancing image classification using adaptive convolutional autoencoder-based snow avalanches algorithm	10.1007/s11760-024-03357-0	Feb-24

Faculty Publications

Journal of Intelligent & Fuzzy Systems 44 (2023) 8597–8606
DOI:10.3233/JIFS-224114
IOS Press

Multi gait recognition using Clustering based Faster Regions-Convolutional Neural Network

M. Amanulla Khan[a,*] and S.M.H. Sithi Shameem Fathima[b]
[a]Department of ECE, Mohamed Sathak Engineering College, Keelakarai, Tamil Nadu, India
[b]Department of CSE, Syed Ammal Engineering College, Landai, Ramanathapuram, Tamil Nadu, India

Abstract. Gait recognition is the process of recognizing a person based on their walking style. Each person's walking gait is distinctive and cannot be imitated by others. However, the walking motion of a person will be changed based on their behaviour but their walking pattern doesn't change. In this paper, a novel Clustering based Faster RCNN has been proposed to identify the single, double and multi-gait. The gait images from the publicly available dataset are pre-processed using Multi scale Retinex (MSR) to reduce the noise artifacts. The Faster RCNN is used for extracting the relevant features from the gait images via the two modules namely CNN and RPN. The CNN layers extract the most relevant features as feature maps and RPN is used for creating the bounding boxes for the extracted features. Fuzzy K-means clustering is used to group the features based on their labels, and it specifies the features acquired using CNN and RPN as input. Finally, the Fast RCNN is employed for classifying the gait images into suspicious and non-suspicious walking pattern. The proposed Clustering based Faster RCNN net achieves the high accuracy rate of 98.74% and 99.19% for suspicious and non-suspicious walking pattern respectively. The proposed Clustering based Faster RCNN model was compared with other traditional models like CNN, U-net, Fab net and Fast R-CNN. The proposed Clustering based Faster RCNN model improves the overall accuracy of 8.86%, 33.77%, 3.12% and 5.48% better than minGait, LSTM Net, STDNN and RNN respectively.

Keywords: Gait recognition, deep learning, faster R-CNN, fuzzy K-means clustering, multi scale Retinex

Purakala ISSN: 0971-2143
Vol 32 Issue 1, 2023 UGC CARE APPROVED JOURNAL

Received: 04th December 2022 *Revised: 30th December 2022* *Accepted: 24th January 2023*

DESIGN AND FABRICATION OF AUTOMATIC PNEUMATIC CONTROLLED BAR FEEDING, CLAMPING AND CUTTING ATTACHMENT USING ARDUINO MICROCONTROLLER

A Chockalingam[1], Dr. G.Ramesh[2], Dr.R.Senthilkumar[3], Dr.M.Muruganandam[4], Dr.E.Dhiravidaselvi[5], Mr. V.Vigneshwaran[6], Mr. L.Tharanikumar[7]
[1]Department of Mechanical Engineering, AMK Technological Polytechnic College, Sembarambakkam, Chennai, India.
[2,4,5] Department of Mechanical Engineering, Mohamed Sathak Engineering College, Sathak Nagar,East Coast Road, Kilakarai-623806, Ramanathapuram District, Tamil Nadu, India.
[3]Department of Electronics and Communication Engineering, Mohamed Sathak Engineering College, Sathak Nagar,East Coast Road, Kilakarai-623806, Ramanathapuram District, Tamil Nadu, India.
[2,6,7] Department of Mechanical Engineering, Mohamed Sathak A J College of Engineering, Chennai 603103, India

ABSTRACT

This paper exploits the designing and fabrication of Automatic bar feeding, Clamping and cutting mechanism of pneumatically operated machines. The length of the work can be adjusted for required cutting length of bar. This model is fabricated for the institution workshop utility project. This automatic controlling operation is done by using Arduinomicro controller with pneumatic control system. This mechanism is effectively useful for clamping, feeding and cutting of PVC, aluminum and mild steel tubes. This attachment can be utilized with power hacksaw machine for automatic feeding the bar. Automatic control of this attachment consists of five pneumatic cylinders for clamping and feeding and the cutting the materials. The pipe cutting operation is done by portable hand operated electric grinding cut off Machine. This portable cutting machine is feeded through the hydro pneumatic cylinder unit. All the cylinders are actuated by four 5/2 way solenoid operated directional control valve. One pneumatic cylinder is used for drawing the bar pushing towards the cutting position, the second and third cylinders are used for clamping the bar, fourth and fifth cylinders are used for feeding the cut off machine. To limit the bar length, a stopper plate can be adjusted and locked by screwing a bolt. The whole operation is done automatically with the help of microcontroller based control system.

Keywords: Pneumatic control, microcontroller, limit switch, cylinders, automatic.

ScienceDirect

Expert Systems with Applications
Volume 238, Part B, 15 March 2024, 121453

Summarize Chat With This Website

Crossover smell agent optimized multilayer perceptron for precise brain tumor classification on MRI images

Muthuvel Arumugam [a], Arunprasath Thiyagarajan [b], Lakshmi Adhi [c], Shyamala Alagar [a]

Show more

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https://doi.org/10.1016/j.eswa.2023.121453
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Abstract

The Brain tumor is considered an unusual growth of cells in the nervous system that restricts the normal functionality of the brain. However, is generated in the skull and pressures the brain which affects the health of a person. So it is essential to detect and classify the brain tumor at an early stage before reaching the severity level. Meanwhile, brain tumor detection is performed based on MRI images which are considered an effective diagnosis system. But the detection and classification using MRI images is obtained as a complex task and cannot show the difference between normal and abnormal cells. So to overcome this issue the Crossover Smell Agent Optimized Multilayer Perception (CSA-MLP) is proposed to perform the exact detection and classification of tumor cells from MRI images. The images are collected from three datasets namely MR, Brain MRI, and Brain tumor datasets and they are preprocessed to remove the unwanted noise. After preprocessing the features of the images are extracted to perform the classification process. Moreover, the Convolutional Neural Network (CNN) classifier is used to classify healthy and unhealthy brain cells. The Multi-Layer Perceptron (MLP) is employed for the classification category that minimized the errors and enhanced the performance of the proposed method. The MLP is integrated with the CSA optimization algorithm to improve classification accuracy. The experimentation results revealed that the proposed method achieved a better accuracy of about 98.56% which enhanced the effectiveness compared to existing methods.

COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING
https://doi.org/10.1080/10255842.2023.2292008

Taylor & Francis
Taylor & Francis Group

Check for updates

Hybrid grey assisted whale optimization based machine learning for the COVID-19 prediction

A. Shyamala[a], S. Murugeswari[b], G. Mahendran[b] and R. Jothi Chitra[c]

[a]Department of Electronics and Communication Engineering, Mohamed Sathak Engineering College, Kilakarai, Ramanathapuram, Chennai, Tamil Nadu, India; [b]Department of Electronics and Communication Engineering, Syed Ammal Engineering College, Ramanathapuram, Tamil Nadu, India; [c]Department of Electronics and Communication Engineering, Velammal Institute of Technology, Thiruvallur, Chennai, Tamil Nadu, India

ABSTRACT

Recently, COVID-19 (coronavirus) has been a huge influence on the socio and economic field. COVID-19 cases are seriously increasing day-day and also don't identified proper vaccine for COVID-19. Hence, COVID-19 is fast spreading virus and it causes more deaths. In order to address this, the work has proposed a machine learning (ML) scheme for the prediction of COVID-19 positive, negative, and deceased instances. Initially, the data is pre-processed by eliminating redundant and missing values. Then, the features are selected using hybrid grey assisted whale optimization algorithm (H-GAWOA). Finally, the classifier ANFIS (adaptive network-based fuzzy inference systems) is used for investigating the confirmed, survival and death rate of COVID-19. The performance is analysed on John Hopkins University dataset and the performances like MSE, RMSE, MAPE, and R^2 are measured. In all the comparisons, the MSE value is very less for the proposed model. Particularly, in the deceased cases prediction, the MSE value is 0.00 for the proposed H-GAWOA-ANFIS. Finally, it is proved that the suggested model is able to generate the better results when contrast to the other approaches.

ARTICLE HISTORY
Received 18 April 2023
Accepted 3 December 2023

KEYWORDS
Covid-19; health issue; machine learning model; death rate; survival rate

Patents Received

S.No	Name of the Inventors	Title of the patent	Date of Grant	Patent Number
1	Dr.A.Shyamala	An Image Processing system based on IOT for Obstacle Detection on Roads	23.06.2023	202341033458
2	S.Vengatesh Kumar	Robot for Wire cutting and stripping	02.05.2024	406860001
3	Dr.M.Sarojini Devi	Multi layered image compression techniques for high efficiency storage	05.01.2024	202341083712
4	Mr.A.Muthuvel	Silencer for vehicles	07.02.2024	406861-001
5	Mr.M.Amanullakhan	Advanced Quantum Sensors for ultra- precise measurement and quantum metrology	16.02.2024	202441010912

पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 406860-001

तारीख / Date : 07/02/2024

परस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो ROBOT FOR WIRE CUTTING AND STRIPPING से संबंधित है, का पंजीकरण, वेणी 15-99 में 1.Mr S Vengatesh Kumar 2. Dr E Dhiravidachelvi 3.Dr A Shyamala 4.Mr H Peer Oli 5.Mr A Muthuvel 6.Mrs N Hema Kumari 7.Mr M L Syed Ali 8.Ms M Shahana के नाम में उपर्युक्त संख्या और तारीख में कर लिया

Certified that the design of which a copy is annexed hereto has been registered as ofthe number and date given above in class 15-99 in respect of the application of suchdesign to ROBOT FOR WIRE CUTTING AND STRIPPING in the name of 1.Mr S Vengatesh Kumar 2. Dr E Dhiravidachelvi 3.Dr A Shyamala 4.Mr H Peer Oli 5.Mr AMuthuvel 6.Mrs N Hema Kumari 7.Mr M L Syed Ali 8.Ms M Shahana.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रयवानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 406861-001

तारीख / Date : 07/02/2024

परस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो SILENCER FOR VEHICLES से संबंधित है, का पंजीकरण, वेणी 12-16 में 1.Dr.M.Vadivel 2. Mr.J.Mohammed Azharudeen 3.Mr.A.Muthu Vel के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 12-16 in respect of the application of such design to SILENCER FOR VEHICLES in the name of 1.Dr.M.Vadivel 2. Mr.J.Mohammed Azharudeen 3.Mr.A.Muthu Vel.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रयवानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

Copyrights Received

Sl.No.	Applicants Name	Authors Name	Date of Application	Diary No	Title of Work	Date of Approval	ROC Number
1	Dr.A.Shyamala Mr.A.Muthuvel Mr.S.Vengatesh Kumar	Dr.A.Shyamala Mr.A.Muthuvel Mr.S.Vengatesh Kumar	03/04/2023	8750/2023-CO/L	Microprocessor & Microcontroller Lab Manual	10/07/2023	L-1288114/2023

INTELLECTUAL PROPERTY INDIA

Extracts from the Register of Copyrights

कॉपीराइट कार्यालय, भारत सरकार | Copyright Office, Government Of India

Dated:10/07/2023

1.	पंजीकरण संख्या/Registration Number	L-128814/2023
2.	आवेदक का नाम, पता तथा राष्ट्रीयता Name, address and nationality of the applicant	SELVAPERUMAL S , PROFESSOR/EEE & DEAN-RESEARCH MOHAMED SATHAK ENGINEERING COLLEGE-623806 INDIAN SHYAMALA A , PROFESSOR/ECE MOHAMED SATHAK ENGINEERING COLLEGE-623806 INDIAN MUTHUVEL ARUMUGAM , ASSISTANT PROFESSOR/ECE MOHAMED SATHAK ENGINEERING COLLEGE-623806 INDIAN VENGATESH KUMAR S , ASSISTANT PROFESSOR/ECE MOHAMED SATHAK ENGINEERING COLLEGE-623806 INDIAN
3.	कार्य में कॉपीराइट के जोदावा की प्रकृति Nature of the applicant's interest in the copyright of the work	AUTHOR
4.	कार्य का वर्ग और विवरण Class and description of the work	LITERARY/DRAMATIC WORK OBJECTIVES TO INTRODUCE ALP CONCEPTS, FEATURES AND CODING METHODS, WRITE ALP FOR ARITHMETIC AND LOGICAL OPERATIONS IN 8086 AND 8051; BE FAMILIAR WITH MASM.
5.	कार्य का शीर्षक Title of the work	MICROPROCESSORS AND MICROCONTROLLERS LAB MANUAL
6.	कार्य की भाषा Language of the work	ENGLISH
7.	लेखक का नाम, पता और राष्ट्रीयता तथा यदि लेखक की मृत्यु हो गई है, तो मृत्यु की तिथि Name, address and nationality of the author and if the author is deceased, date of his decease	SELVAPERUMAL S , PROFESSOR/EEE & DEAN-RESEARCH MOHAMED SATHAK ENGINEERING COLLEGE-623806 INDIAN
8.	कार्य प्रकाशित है या अप्रकाशित Whether the work is published or unpublished	UNPUBLISHED
9.	प्रथम प्रकाशन का वर्ष और देश तथा प्रकाशक का नाम, पता और राष्ट्रीयता Year and country of first publication and name, address and nationality of the publisher	N.A.
10.	बाद के प्रकाशनों के वर्ष और देश, यदि कोई हो, और प्रकाशकों के नाम, पते और राष्ट्रीयताएं Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers.	N.A.
11.	कार्य में कॉपीराइट सहित विभिन्न अधिकारों के मालिकों के नाम, पते और राष्ट्रीयता और लाइसेंस और हकदारों के विवरण के साथ संलग्न की संक्षिप्त की सीमा, यदि कोई है Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any	SELVAPERUMAL S , PROFESSOR/EEE & DEAN-RESEARCH MOHAMED SATHAK ENGINEERING COLLEGE-623806 INDIAN
12.	कार्य व्यक्तियों के नाम पते और राष्ट्रीयताएं, यदि कोई हो जो कॉपीराइट वाले अधिकारों का कोई या लाइसेंस देने के लिए अधिकृत हो Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright	SELVAPERUMAL S , PROFESSOR/EEE & DEAN-RESEARCH MOHAMED SATHAK ENGINEERING COLLEGE-623806 INDIAN
13.	यदि कार्य एक 'कलात्मक कार्य' है, तो कार्य बनाने वाले व्यक्ति का नाम, पता और राष्ट्रीयता सहित मूल कार्य का स्थान। एक वास्तुशिल्प कार्य के मामले में कार्य पूरा होने का वर्ष भी दिखाया जाना चाहिए If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown).	N.A.
14.	यदि कार्य एक 'कलात्मक कार्य' है जो किसी भी वस्तु या सेवाओं के संबंध में उपयोग किया जाता है या उपयोग करने में सक्षम है, तो क्या/नहीं में कॉपीराइट अधिनियम, 1957 की धारा 45 उपधारा धारा (1) के प्रावधान के अनुसार व्यापार चिह्न रजिस्ट्रीकर्ता से प्रमाणन शामिल होना चाहिए। If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (1) of Section 45 of the Copyright Act, 1957.	N.A.
15.	यदि कार्य एक 'कलात्मक कार्य' है, तो क्या यह डिजाइन अधिनियम 2000 के अंतर्गत पंजीकृत है? यदि हां, तो विवरण दें If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details.	N.A.
16.	यदि कार्य एक 'कलात्मक कार्य' है, जो डिजाइन अधिनियम 2000 के तहत एक डिजाइन के रूप में संरक्षित होने में सक्षम है, तो क्या यह औद्योगिक प्रक्रिया के माध्यम से किसी वस्तु पर लागू नहीं है और यदि नहीं, तो इस किसी भी पुनः प्रस्तुत किया गया है? If the work is an 'Artistic work' capable of being registered as design under the Designs Act 2000 whether it has been applied article through an industrial process and if yes the number of it is reproduced.	N.A.
17.	टिप्पणी, यदि कोई हो/Remarks, if any	
	डायरी संख्या/Diary Number:	8750/2023-CO/L
	आवेदन की तिथि/Date of Application:	03/04/2023
	प्राप्ति की तिथि/Date of Receipt:	03/04/2023

Registrar of Copyrights

Conference Publications

S. No.	Name of the Faculty	Title of the Paper	Name of the Conference (and Sponsoring Agency)	Venue, Start Date & End Date	Date of Presentation	Year of Publication
1	Mrs.N.Hema kumari, Mr.A.Muthuvel Mr.S.Bismillah Khan Ms.M.Shahana	Cataloguing of Brain Tumour in MRI using Adaptive Deep Wavelet Auto Encoder (ADWE) and CNN	ICCSEA 2023	MSEC, 11.08.2023 & 12.08.2023	11.08.2023	2023
2	Dr.A.Shyamala, Mrs.N.Hema kumari, Mr.S.vengatesh kumar, Ms.M.Shahana	A Multistage Discriminative Model For Tumor And lymph Node Detection In Thoracic Images	ICCSEA 2023	MSEC, 11.08.2023 & 12.08.2023	11.08.2023	2023
3	Dr.A.Shyamala, Mr.H.Peer Oli, Mr.A.Muthuvel Mr.S.Vengatesh kumar	Performance Analysis of Moving Object Segmentation using Background Subtraction Algorithm	ICCSEA 2023	MSEC, 11.08.2023 & 12.08.2023	11.08.2023	2023
4	Mr.M.L.Syed Ali, Dr.M.Sarojini Devi, Mr.S.Bismillah khan	Industry oriented fabric identification Using RFID	ICCSEA 2023	MSEC, 11.08.2023 & 12.08.2023	11.08.2023	2023


MOHAMED SATHAK ENGINEERING COLLEGE
Kilakarai - 623806. Ramanathapuram Dist. Tamilnadu.
TNEA 5907
Certificate of Participation
This is to certify that Dr./Mr./Mrs. A. SHYAMALA ASSOCIATE PROFESSOR - ECE
of MOHAMED SATHAK ENGINEERING COLLEGE, KILAKARAI
has presented a paper titled PERFORMANCE ANALYSIS OF MOVING OBJECT SEGMENTATION USING BACKGROUND SUBTRACTION ALGORITHM
in the International Conference on Intelligent Computing, Communication Systems, Electronics and Applied Informatics ICCSEA 2023 held on 11th & 12 th August 2023 at Mohamed Sathak Engineering College,Kilakarai,Tamilnadu,India.
Convenor
Principal


MOHAMED SATHAK ENGINEERING COLLEGE
Kilakarai - 623806. Ramanathapuram Dist. Tamilnadu.
TNEA 5907
Certificate of Participation
This is to certify that Dr./Mr./Mrs. H PEER OLI ASSOCIATE PROFESSOR - ECE
of MOHAMED SATHAK ENGINEERING COLLEGE, KILAKARAI
has presented a paper titled PERFORMANCE ANALYSIS OF MOVING OBJECT SEGMENTATION USING BACKGROUND SUBTRACTION ALGORITHM
in the International Conference on Intelligent Computing, Communication Systems, Electronics and Applied Informatics ICCSEA 2023 held on 11th & 12 th August 2023 at Mohamed Sathak Engineering College,Kilakarai,Tamilnadu,India.
Convenor
Principal

NPTEL & Other Online Certifications

	Name of the Faculty	FDP title	Start Date & End Date	Duration	Score and Merit Details (Elite/Silver/
1	S.Bismillah khan	Python for Data Science	Jul'23 to Oct'23	4 WEEKS	Elite
		Deep Learning	Jul'23 to Oct'23	12 Weeks	Elite
2	S.Vengatesh Kumar	Introduction to IOT	Jul'23 to Oct'23	12 Weeks	Elite with Silver
		Nano Bio Photonics	Jul'23 to Oct'23	12 Weeks	Elite
3	Dr.E.Dhiravidachelvi	Medical Image Analysis	Jul'23 to Oct'23	12 Weeks	Elite
4	Mr.H.Peer Oli	Teaching and learning in engineering	Jul'23 to Oct'23	12 Weeks	Elite
		Integrated circuits and applications			
5	Mrs.N.Hema Kumar	Digital System Design	Jul'23 to Oct'23	12 Weeks	Elite
6	Mr.A.Muthuvel	Medical Image Analysis	Jul'23 to Oct'23	12 Weeks	Elite
7	Mr.M.L.Syed Ali	Integrated circuits and applications	Jul'23 to Oct'23	12 Weeks	Elite
8	Ms.M.Shahana	Remote Sensing essentials	Jul'23 to Oct'23	12 Weeks	Elite

NPTEL & Other Online Certifications

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

PEER OLI

for successfully completing the course

Integrated Circuits and Applications

with a consolidated score of 71 %

Online Assignments	22.66/25	Proctored Exam	48/75

Total number of candidates certified in this course: 126

Jan-Apr 2024

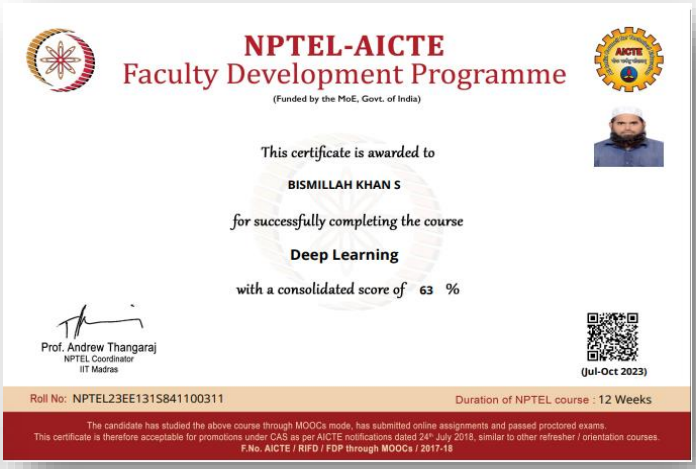
(12 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati

Indian Institute of Technology Guwahati

swayam

Roll No: NPTEL24EE73S568000017 To verify the certificate No. of credits recommended: 3 or 4



NPTEL-AICTE
Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to

BISMILLAH KHAN S

for successfully completing the course

Deep Learning

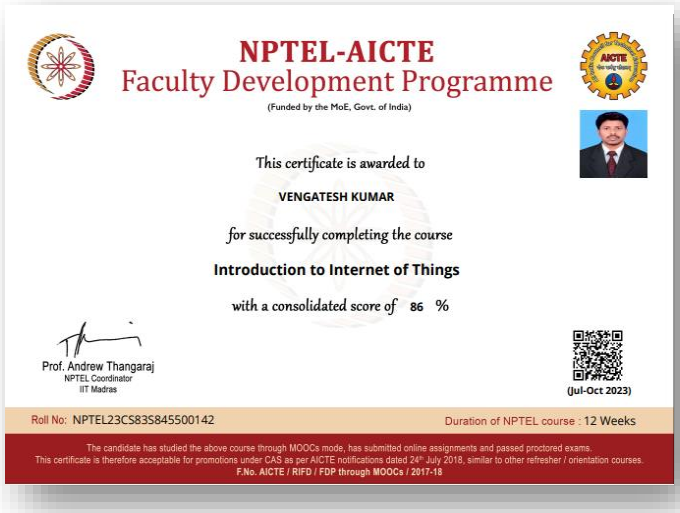
with a consolidated score of 63 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jul-Oct 2023)

Roll No: NPTEL23EE131S841100311 Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



NPTEL-AICTE
Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to

VENGATESH KUMAR

for successfully completing the course

Introduction to Internet of Things

with a consolidated score of 86 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jul-Oct 2023)

Roll No: NPTEL23CS83S845500142 Duration of NPTEL course : 12 Weeks

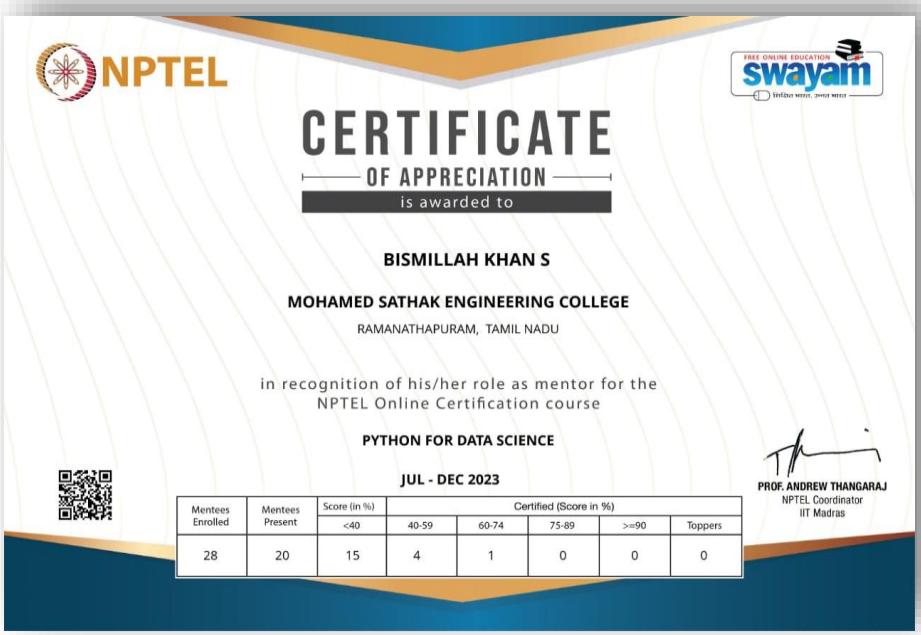
The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

FDP Participation

S.No	Name of the Faculty	FDP Title	Duration	Organisation
1.	Dr.A.Shyamala,	Design flow approach from inductor to antenna and filter at PCB level-2023"	Five Days	Bharath Institute of Higher Education and Research
2	Mr.S.Vengatesh Kumar			
3	Dr.A.Shyamala	Research Tools	Two weeks	Easwari Engineering College
4	Mr.S.Vengatesh Kumar			
5	Ms.M.Shahana			
6	S.Bismillah khan	Python for Data Science	4 Weeks	NPTEL – SWAYAM
		Deep Learning	12 Weeks	
7	Dr.E. Dhiravidachelvi	Medical Image Analysis	4 Weeks	NPTEL – SWAYAM
8	Mr.A.Muthuvel			
9.	Mr.H.Peer Oli	Teaching and Learning in Engineering	4 Weeks	NPTEL - SWAYAM
		Integrated Circuits and Applications	12 Weeks	NPTEL – SWAYAM
		IOTs and Embedded Systems	1 Week	NITTTR
10	S.Vengatesh Kumar	Introduction to IOT	12 Weeks	NPTEL – SWAYAM
		Industrial IOT and Industry 4.0	1 Week	UCE, TNSDC
		IOTs and Embedded Systems	1 Week	NITTTR
11	Dr.M.Amanulla Khan	Digital Pedagogy Unleashed	1 Week	KPR Institute of Engg. & Tech.
12	Mr.M.L.Syed Ali			
13	Mr.M.L.Syed Ali	Integrated circuits and applications	12 Weeks	NPTEL
14	Dr.M.Sarojini Devi	Emerging technologies in computer science	1 Week	Easwari Engineering College
		Python	1 Week	Star International
15	Ms.M.Shahana	Research Tools	2 Weeks	Easwari Engineering College
		IOTs and Embedded Systems	1 Week	NITTTR

NPTEL Achievements

Mr.Bismillah Khan awarded **"Certificate of Appreciation"** in recognition role as Mentor for the NPTEL online Certification courses **"Python for Data Science" Jul-Dec 2023**



NPTEL

swayam

CERTIFICATE

OF APPRECIATION

is awarded to

BISMILLAH KHAN S

MOHAMED SATHAK ENGINEERING COLLEGE

RAMANATHAPURAM, TAMIL NADU

in recognition of his/her role as mentor for the NPTEL Online Certification course

PYTHON FOR DATA SCIENCE

JUL - DEC 2023

Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)				
		<40	40-59	60-74	75-89	>=90	Toppers
28	20	15	4	1	0	0	0

PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

Mr.Bismillah Khan recognized as **"NPTEL ENTHUSIAST"** Jul – Dec 2023

NPTEL ENTHUSIAST

CERTIFICATE OF APPRECIATION

TO

BISMILLAHKHAN S

for being recognized as NPTEL ENTHUSIAST

JUL-DEC 2023

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

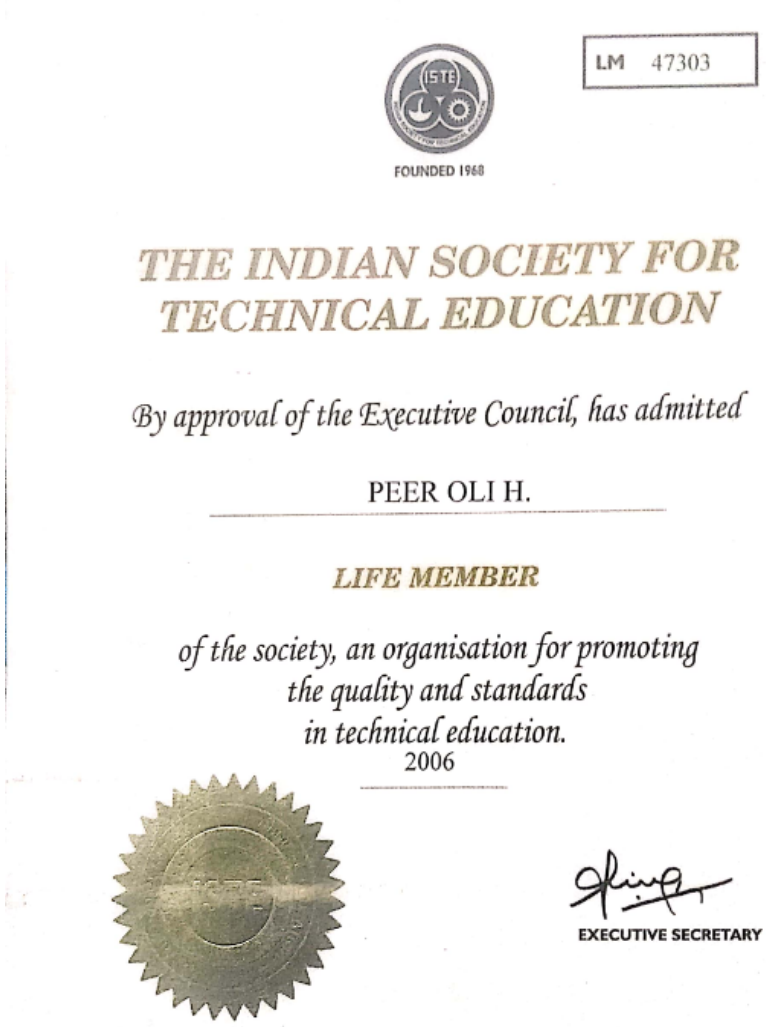
NPTEL ENTHUSIAST
Candidate has to appear in atleast 8 exams in Jul 2021 - Jan 2023, passed in 75% of courses appeared (not looking for continuity here)

NPTEL

swayam

Professional Membership Registered by Faculties

- All the Faculty Members are having Life Time Membership in **ISTE**



FOUNDED 1968

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THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By approval of the Executive Council, has admitted

PEER OLI H.

LIFE MEMBER

of the society, an organisation for promoting the quality and standards in technical education.

2006

EXECUTIVE SECRETARY

Students Achievements

G.Sabareeswaran - II ECE & Manoj-IV ECE were participated **in Chess competition** conducted by **Anna University Sports Board -zonal Tournaments 2023-2024** secured **Second Place in Chess held at SRM Madurai College for Engineering & Technology, Sivagangai on18-10-2023**


ANNA UNIVERSITY

ANNA UNIVERSITY SPORTS BOARD
CHENNAI - 600 025

ZONAL TOURNAMENTS 2023 - 2024
CERTIFICATE OF MERIT

This is to certify that G. SABAREESWARAN son / daughter
of Register no 911522106026 year II
branch ECE College Mohamed Sathak Engineering College, Kilakarai
zone 16 was a member of CHESS team
secured First / Second / Third Position in the Anna University Zonal Tournaments 2023 - 2024
held at SRM MADURAI COLLEGE FOR ENGINEERING & TECHNOLOGY, SIVAGANGAI
from 18-10-2023 to event
classification

Local Sports Coordinator | Local Sports Secretary | Zonal Sports Coordinator | Zonal Sports Secretary


Rotary

RAMANATHAPURAM DISTRICT CHESS ASSOCIATION
Affiliated to Tamil Nadu State Chess Association
RAMANATHAPURAM.

20th Ramanathapuram District
Chess Tournament-2023

Merit Certificate

This is to certify that MANOJ.M.
MSEC, KEELAKARAI has
participated in the 20th Ramanathapuram District Chess Tournament held at Velumanoharan Arts and Science College for Women, Ramanathapuram on 28.10.2023.
She / he has scored 3½ points in category OPEN and won IV th place in the above tournament.

Dr. S. SUNDARAM President RDCA | Dr. DEVI MEENAKSHI Organising Director | C. GUNASEKARAN Treasurer RDCA | S. AJIJILAN (International Arbiter) Chief Arbiter | M. RAMESH Secretary RDCA | A. ATHISAYABARU President RC of Ramnad

Manoj, Final year student was secured **Fourth place** in chess which was held at Velumanoharan Arts & Science college for women,Ramanathapuram on 28.10.2023.


Merit Certificate

RAMANATHAPURAM DISTRICT CHESS ASSOCIATION
Affiliated to Tamil Nadu State Chess Association

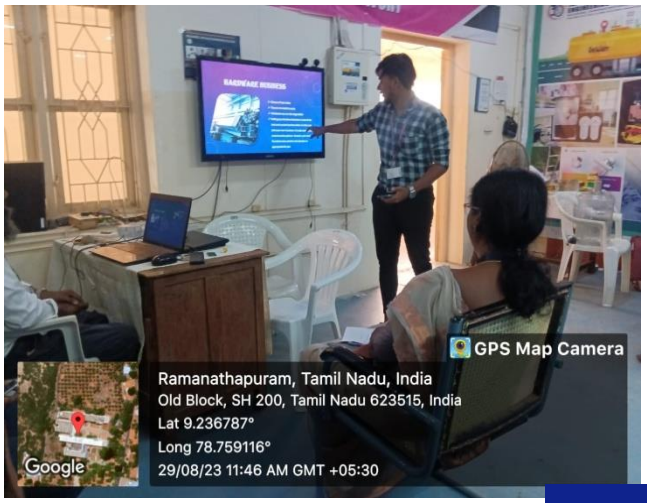
19th Ramanathapuram District
Chess Tournament-2023

This is to certify that MANOJ.M.
MSEC, KEELAKARAI
has participated in the 19th Ramanathapuram District Chess Tournament held at Jerome Badminton Academy, Rameswaram on 26.02.2023.
She / he has scored 3 points in category U-25 B in the above tournament. SECOND

Dr. S. SUNDARAM President RDCA | Dr. DEVI MEENAKSHI Organising Director | S. AJIJILAN (International Arbiter) Chief Arbiter | M. RAMESH Secretary RDCA | A. JEROME WILLIAM JAYAKUMAR JBA Rameswaram

Manoj, Final year student was secured **second place** in chess which was held at Jerome Badminton Academy,Rameswaram on 26.02.23.

Final year students **Musthak ahamed, Mohamed Thameem ansari, Mr.N.Suhail sabran** secured **second place** in**"Intra institutional start-up competition"** held on **29.08.23**



Students Achievements

Student Industry Internship

Karthik Kumar, Final year successfully completing Internship on **"EMBEDDED SYSTEMS"** on Foundation programming skills in C & Micro controllers, SDLC based project building in Embedded Systems at **EMERTXE, Bangalore.**

Students Online Certification

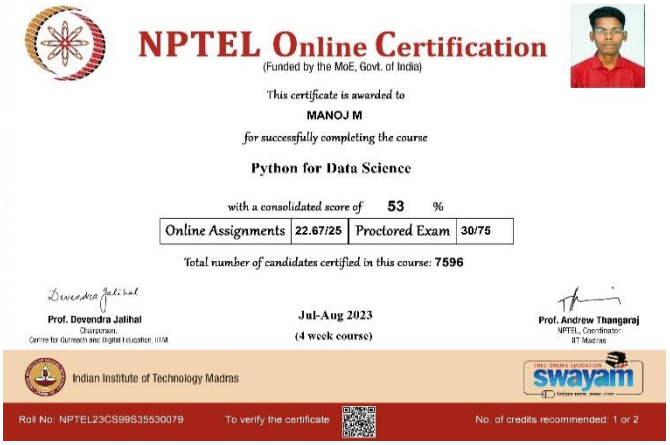
S.No	Register Number	Name of the student	Course Name	Course Duration/Mode	Learning Platform	Month & Year of Completion
1	911520106001	S.Dharshini	Python	1 Month/online	EduPrep	Aug 2023
2	911520106002	S.M.Fathima lufna	Python	1 Month/online	EduPrep	Aug 2023
3	911520106004	Karthik Kumar S	Microcontroller Embedded C Programming	1 Month/online	Udemy	Jul 2023
4	911520106006	P.Malathi	Python	1 Month/online	EduPrep	Aug 2023
5	911520106007	M.Manoj	Python	1 Month/online	GUVI	Aug 2023
6	911520106011	S.Mohamed Thameem Ansari	Python	1 Month/online	GUVI	Aug 2023
			Introduction to MS Excel	1 Month/online	Skill Up	Sep 2023
7	911520106013	J Nasrin Banu	Python	1 Month/online	EduPrep	Aug 2023
8	911520106014	I.Priya Dharshini	Python	1 Month/online	EduPrep	Aug 2023
9	911520106015	A.Rehana Shifan	Python	1 Month/online	EduPrep	Aug 2023
10	911520106017	S. Sridharshini	Python	1 Month/online	EduPrep	Aug 2023
11	911520106019	P Tamilselvi	Python	1 Month/online	EduPrep	Aug 2023

Students Online Certification

SPOKEN TUTORIAL						
S.No	**Register Number**	**Name of the student**	**Course Name**	**Course Duration/Mode**	**Learning Platform**	**Month & Year of Completion**
1	911521106001	Aravinthan	e-sim	3 Months	Spoken tutorial	Dec 2023
2	911521106002	Bahir Jaman	e-sim	3 Months	Spoken tutorial	Dec 2023
3	911521106009	Mohamed Imran khan	e-sim	3 Months	Spoken tutorial	Dec 2023
4	911521106003	Hasan Ibrahim Rafiaan	e-sim	3 Months	Spoken tutorial	Dec 2023
5	911521106005	Kaleesraj	e-sim	3 Months	Spoken tutorial	Dec 2023
6	911521106004	Jothesswaran	e-sim	3 Months	Spoken tutorial	Dec 2023
7	911521106008	Mohamed Fiyas	e-sim	3 Months	Spoken tutorial	Dec 2023
8	911521106011	Mohamed Fayis	e-sim	3 Months	Spoken tutorial	Dec 2023
9	911521106013	Sabarika	e-sim	3 Months	Spoken tutorial	Dec 2023
10	911521106014	Subash	e-sim	3 Months	Spoken tutorial	Dec 2023
11	911521106302	Suyambulingam	e-sim	3 Months	Spoken tutorial	Dec 2023
12	911521106301	Manojkumar	e-sim	3 Months	Spoken tutorial	Dec 2023
13	911521106007	Lakshmanan	e-sim	3 Months	Spoken tutorial	Dec 2023
14	911520106002	Fathima Lufna	e-sim	3 Months	Spoken tutorial	Nov 2023
15	911520106004	Karthik Kumar	e-sim	3 Months	Spoken tutorial	Nov 2023
16	911520106006	Malathi	e-sim	3 Months	Spoken tutorial	Nov 2023
17	911520106007	Manoj	e-sim	3 Months	Spoken tutorial	Nov 2023
18	911520106011	Mohamed Thameem Ansari	e-sim	3 Months	Spoken tutorial	Nov 2023
19	911520106012	Mustak Ahamed	e-sim	3 Months	Spoken tutorial	Nov 2023
20	911520106302	Pravin Kumar	e-sim	3 Months	Spoken tutorial	Nov 2023
21	911520106014	Priyadharshini	e-sim	3 Months	Spoken tutorial	Nov 2023
22	911520106015	Rehana Shifan	e-sim	3 Months	Spoken tutorial	Nov 2023
23	911520106017	Sridarshini	e-sim	3 Months	Spoken tutorial	Nov 2023
24	911520106018	Suhail Sabran	e-sim	3 Months	Spoken tutorial	Nov 2023
25	911520106005	Lingeswaran	e-sim	3 Months	Spoken tutorial	Nov 2023
26	911520106009	Mohamed Ashif	e-sim	3 Months	Spoken tutorial	Nov 2023
27	911520106016	Sivasakthivel	e-sim	3 Months	Spoken tutorial	Nov 2023

Students Online Certification

NPTEL						
S.No	**Register Number**	**Name of the student**	**Course Name**	**Course Duration/Mode**	**Learning Platform**	**Month & Year of Completion**
1	911521106005	Kaleesraj	Python for Data Science	4 weeks	NPTEL	Jul 2023 – Oct 2023
2	911521106011	Mohamed Fayis	Python for Data Science	4 weeks	NPTEL	Jul 2023 – Oct 2023
3	911520106013	J Nasrin Banu	Python for Data Science	4 weeks	NPTEL	Jul 2023 – Oct 2023
4	911520106017	S. Sridharshini	Python for Data Science	4 weeks	NPTEL	Jul 2023 – Oct 2023
5	911520106015	A.Rehana Shifan	Python for Data Science	4 weeks	NPTEL	Jul 2023 – Oct 2023
6	911520106007	M.Manoj	Python for Data Science	4 weeks	NPTEL	Jul 2023 – Oct 2023



NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

MANOJ M

for successfully completing the course

Python for Data Science

with a consolidated score of 53 %

Online Assignments	22.67/25	Proctored Exam	30/75

Total number of candidates certified in this course: 7596

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jul-Aug 2023
(4 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL23CS99S35530079 To verify the certificate No. of credits recommended: 1 or 2

Certificate for Completion of eSim Training

Spoken Tutorial Project at IIT Bombay

This is to certify that **SIVASAKTHIVEL B** has successfully completed **eSim** 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: 1 **Score:** 85.71%

November 28th 2023

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.

STUDENT PLACEMENTS

DELPHI-TVS
Diesel Systems Limited

S.No	Name of the student	Job Role	Company name
1.	S. Dharshini	Short-Term Trainee/Apprentice	Delphi TVS Technologies Ltd, Oragadam
2.	P. Malathi	Short-Term Trainee/Apprentice	Delphi TVS Technologies Ltd, Oragadam
3.	M. Manoj	Short-Term Trainee/Apprentice	Delphi TVS Technologies Ltd, Oragadam
4.	S.M. Fathima Lufna	Short-Term Trainee/Apprentice	Delphi TVS Technologies Ltd, Oragadam
5.	S. Sridharshini	Short-Term Trainee/Apprentice	Delphi TVS Technologies Ltd, Oragadam
6.	S. Mohamed Thameem Ansari	Short-Term Trainee/Apprentice	Delphi TVS Technologies Ltd, Oragadam

CVE&WD Centre for Vocational Education and Workforce Development India Private Limited

Delphi - TVS Technologies

The Principal / Placement Officer
Mohamed Sathak Engineering College
Sathak Nagar, East Coast Road,
Kilakarai, Ramanathapuram District 623806

Dear Sir

Based on the selection process conducted at your campus on **01.04.2024**, we wish to inform you that **Delphi TVS Technologies** has shortlisted and selected the following candidates to join their manufacturing sites (at Kanchipuram / Tiruvallur Districts) on dates mentioned here below.

Kindly note that they have been selected in the post as Trainee and will be paid a salary of Rs.17,000/- p.m. As per statutory norms there will be standard deductions of ESI and PF.

The company will provide hostel facilities for all women candidates.

We look forward to receiving all selected candidates at the Kanchipuram (Oragadam) site on the specified joining dates.

Kindly note that students with arrears need to complete their papers before joining.

Thank you for your cooperation and look forward to your continuous support

Best Regards

for Centre for Vocational Education and Workforce Development (I) Pvt Ltd

K.J.Alex
Director, CVE & WD (I) Pvt Ltd

Managing Director

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

S.Al Ameen II Year ECE