



V.S.B. ENGINEERING COLLEGE

(AN AUTONOMOUS INSTITUTION)



DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

»»» ABOUT DEPARTMENT

- The Department of Electronics and Communication Engineering was established in the year 2002. The department has well-equipped laboratories, including Circuits and Devices Lab, Analog and Digital Circuits Lab, Circuits Design and Simulation Lab, Linear Integrated Circuits Lab, Communication Systems Lab, Communication Networks Lab, Digital Signal Processing Lab, Microprocessor and Microcontroller Lab, VLSI Design Lab, Advanced Communication Lab, and Embedded Lab.
- The department boasts highly educated faculty members with vast experience in their fields. It has a well-balanced workforce with experience in both academics and industry.
- Students receive a well-rounded education that combines theoretical knowledge with practical training, preparing them for placement in highly reputed industries.
- The symbiosis between the placement cell and the department helps students achieve the best career opportunities.
- The department fosters proper industrial interaction by organizing national-level workshops on campus. Eminent personalities from industry and educational institutions are invited to these events for student interaction and guidance.
- Students showcase their talents through practical projects and papers, which are reviewed and assessed by the guests. These guests also interact directly with students, suggesting ways to further enhance their creativity.
- The department provides exposure and training for advanced studies. Guest lectures and mock campus interviews are conducted regularly to prepare and inform students.
- The department's students demonstrate the quality of their education by receiving awards at national and international conferences. They also consistently rank among the top seven in the state at Anna University engineering examinations.
- Adding to their achievements, students are placed in renowned companies like Tata Consultancy Services (TCS), Capgemini, Wipro, Altran, HCL, CTS, L&T Infotech, NTT DATA, IBM, Tessolve, Infosys, Sony, Mind Tree, Zoho Corporation, and Infoview.
- The Department of Electronics and Communication Engineering has a rich history of providing technical education. With the support of the institute's excellent management and the strong foundation provided by the faculty, the department stands as one of the best within the institute.

»»» VISION

To produce academically excellent and socially responsible engineers in Electronics and Communication Engineering

»»» MISSION

The Department of Electronics and Communication paves the way to the uplifted knowledge and latest technologies in ECE fields by:

- To provide good fundamental knowledge in all related sub-domains of Electronics and Communication Engineering.
- To offer an efficient teaching-learning process with a focus on problem-solving skills, analytical skills, and technical skills.
- To inculcate competency, innovative spirit, communication, and managerial skills, in order to create socially responsible engineers.
- To encourage students to pursue higher studies and research activities.

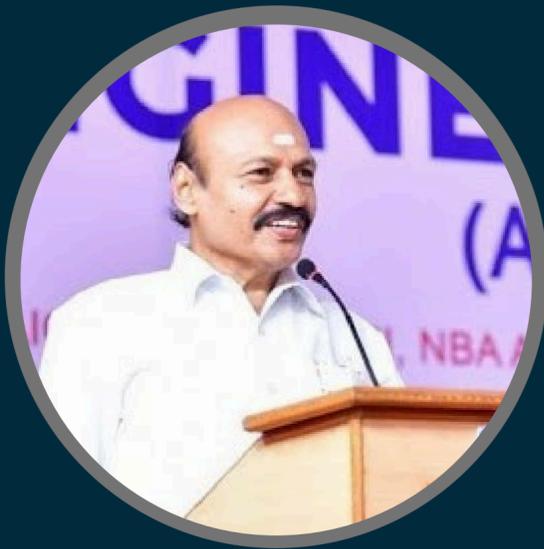
»»» PROGRAM EDUCATIONAL OBJECTIVES

- The graduates of the program will be equipped to provide solutions to real-world complex problems in society.
 - The graduates of the program will be equipped to adapt to emerging technologies through active participation in professional activities. this will allow them to develop the career skills necessary for success in organizations or for pursuing higher studies and research.
 - The graduates of the programme will be able exhibit and demonstrate leadership skills with ethical values in their profession
-

»»» PROGRAM SPECIFIC OUTCOMES

- Apply knowledge of core and specialized fields like electronic circuits, embedded systems, and communication systems, graduates will be prepared to tackle complex engineering and societal problems.
- Able to equip students with the latest programming tools, enabling them to develop cost-effective and practical solutions.
- Apply contextual knowledge and uphold professional ethics to effectively manage diverse projects in multidisciplinary environments.

»»» CHAIRMAN'S MESSAGE



Shri V.S. Balsamy

FOUNDER - CHAIRMAN

- Our college was established with the aim of providing high-quality higher education on par with international standards. We persistently seek and adopt innovative methods to consistently improve its quality. The
- campus fosters a high-quality educational experience with a cosmopolitan atmosphere, attracting students from all corners of the globe. Experienced and knowledgeable teachers are strongly committed to the future of their students. The global standards set in teaching and
- research inspire us in our relentless pursuit of excellence. In fact, it has become an ingrained value for us. The highly motivated young minds on campus are a constant source of pride. The Department of Electronics and Communication Engineering (ECE) shapes its students' future by
- fostering a teamwork approach to instruction, encouraging interaction with faculty, providing access to high-tech information, motivating them to develop new ideas and concepts, taking a personal interest in their career development, and preparing them for success. ECE's methodology sets it apart. At a time when altruistic ideals and civic interests seem to have given way to power-driven goals and a focus on
- maintaining the status quo, our students aspire to be powerful instruments of change. They aim to use their dynamic energy to make significant contributions to the world. Looking back, I am filled with an enormous sense of pride in the incredible progress the ECE department
- has made within a short timeframe. This achievement wouldn't have been possible without the invaluable support and contributions of the faculty, student community, parents, and well-wishers. I firmly believe that serious, sincere, and systematic efforts are key to achieving excellence.

»»» **HOD'S MESSAGE**



Dr. R. Poornachandran

HOD (ECE)

This past year has been unique, to say the least. Our students adapted remarkably, embracing both remote learning and hybrid models to continue their educational journeys. While maintaining strong bonds between teachers and students, as well as among students themselves, presented challenges, we persevered. I am incredibly grateful for the unwavering support of our students, faculty, parents, and alumni. This challenging time also presented unexpected opportunities. We fostered stronger virtual connections with our alumni and parents, further solidifying our department's community. This department magazine is a testament to the creativity and knowledge that thrives within our walls. As you delve into these pages, you'll discover the exceptional work of our faculty and students.

Dr. P. S. Gomathi

HOD (ECE)



It is my pleasure to lead the Department of Electronics and Communication Engineering at VSB Engineering College. We offer a B.E. (Honours) degree program in Electronics Communication, equipping students with the knowledge and skills they need for success in the ECE industry. Our department boasts a team of highly qualified, experienced, and dedicated faculty members. We foster a learning environment that emphasizes hands-on experience with current technologies and programming languages, ensuring our motivated students are well-prepared for their careers. The department consistently produces outstanding graduates who regularly achieve top positions in the university. Many of our graduates go on to work in core fields of Electronics and Communication Engineering.

EVENTS

V.S.B. ENGINEERING COLLEGE
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Anna University Recognized Research Institute
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NBA Accredited Courses, NAAC Accredited and ISO Certified Institution

INSTITUTION'S INNOVATION COUNCIL (IIC)

DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING
ORGANIZES

QUIZ PROGRAM ON
"STARTUP INDIA"
JUNE - 26 - 2024
[#startupindia](#)

Shri. V.S.BALSAMY Chairman Shri. B. SATHEESH KUMAR Vice Chairman Shri. B. VIJAY Secretary

The Department of Electronics and Communication Engineering (ECE) organized an engaging and informative Quiz Program on "Start-up India" on June 26, 2024, conducted in an online mode.

This program aimed to inspire and educate participants about the various opportunities and initiatives under the "Start-up India" campaign, fostering a deeper understanding of entrepreneurship and innovation. Students from various disciplines actively participated, showcasing their knowledge, creativity, and enthusiasm for startup ideas and concepts.

The Department of Electronics and Communication Engineering successfully hosted "IDEATHON 2K24" on Thursday, September 26, 2024, at the Seminar Hall.

The event brought together students from various departments, creating a vibrant platform for brainstorming, collaboration, and innovation. Participants showcased their exceptional creativity and problem-solving abilities as they tackled real-world challenges with groundbreaking ideas.

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23
YEARS OF EXCELLENCE
THE EDUCATIONAL TRIP

iDEATH-N
2K24

DATE: 26 SEP 2024 | TIME: 10:00 AM

ONLY FOR FIRST YEAR

DO YOU HAVE AN IDEA

SCAN TO REGISTER

100% ADMISSION

Shri. V.S.BALSAMY Chairman Shri. B. SATHEESH KUMAR Vice Chairman Shri. B. VIJAY Secretary

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100% ADMISSION



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23 YEARS OF EXCELLENCE
VSB EDUCATIONAL TRUST

LINE FOLLOWER ROBOT COMPETITION

LiRo 2K24

1st Prize: ₹5000
2nd Prize: ₹3000
3rd Prize: ₹2000

26 OCTOBER 2024

📍 Dr.V.C.K Auditorium, VSBEK ⌚ 10.30 am - 2.00 pm

Open for all students | Minimum 1 - Maximum 4 per team | Participation Certificate will be provided

For more Information:
(student coordinators)
DEEPAK P : 6380165993, 6380352933
PRASATH K S : 9360007424, 8124760466
Email: licecevsb@gmail.com

Registration fee: ₹150 per person

Two-Stage Competition:
Stage 1: Qualifying Race
Stage 2: Final Race

📄 Register here

📍 NH - 67 Coval Road, Karudayampalayam
Po, Karur - 639111, Tamil Nadu, India.

<https://forms.gle/QRr2W2kJE44hWqQr9>

Shri. V.S.BALSAMY Chairman	Shri. B. SATHEESH KUMAR Vice Chairman	Shri. B. VIJAY Secretary
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The Department of Electronics and Communication Engineering proudly hosted the Line Follower Robot Competition - "LiRo 2K24" on October 26th, 2024, at the Dr. V.C.K Auditorium, VSBEK.

The event, held from 10:30 AM to 2:00 PM, brought together passionate robotics enthusiasts eager to showcase their robotic genius and compete for the top spot. It was an electrifying atmosphere as participants demonstrated their innovative designs, precision programming, and problem-solving skills.

The Department of Electronics and Communication Engineering (ECE) at V.S.B. Engineering College, Karur, hosted the thrilling Shark Tank Competition 2024 on 19th November 2024, at the Seminar Hall, as a prelude to National Entrepreneurship Day.

The event brought together some of the brightest student entrepreneurs, who showcased their innovative startup ideas to a panel of esteemed judges. With creativity, confidence, and entrepreneurial spirit on full display, the participants left the audience and judges impressed with their groundbreaking ideas and business strategies.



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23 YEARS OF EXCELLENCE
VSB EDUCATIONAL TRUST

"National Entrepreneurship Day!"

SHARK TANK COMPETITION

DATE: TUESDAY, 19 NOV 2024
VENUE: SEMINAR HALL

📄 REGISTER HERE

Shri. V.S.BALSAMY Chairman	Shri. B. SATHEESH KUMAR Vice Chairman	Shri. B. VIJAY Secretary	FOLLOW US NOW 	visit us at www.vsbec.edu.in
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ACHIEVEMENTS



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DEPT. OF ECE

Congratulations!
on receiving a grant from **TNSCST!**

The Department of **ELECTRONICS AND COMMUNICATION ENGINEERING** received a project grant from **TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY (TNSCST).**

-: TITLE :-
"DESIGN AND MICRO CONTROLLER IMPLEMENTATION OF CHAOS SECURE COMMUNICATION SYSTEM"

Dr. R. RAMESH BABU
(Associate Professor)
DEPT. OF ELECTRONICS AND COMMUNICATION ENGINEERING

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The Department of Electronics and Communication Engineering (ECE) at V.S.B. Engineering College, Karur, is proud to announce that it has received a prestigious project grant from the Tamil Nadu State Council for Science and Technology (TNSCST).

Congratulations to the ECE department faculty members for your outstanding contributions to R&D activities! Your dedication and innovation are driving progress and inspiring future advancements in the field.



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Congratulations!

PAPER PUBLICATION

"Application of machine learning techniques for churn prediction in the telecom business"

Dr. K. Kavitha
(Professor)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DOI : <https://doi.org/10.1016/j.rineng.2024.103165>
DATE : **DECEMBER 2024**

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V.S.B. ENGINEERING COLLEGE, KARUR
(An Autonomous Institution)

DEPT. OF ECE

HEARTY COMMENDATIONS TO THE WINNERS OF National Level Technical Symposium SCIENSEA 2K24



27TH FEBRUARY 2024
VENUE: **KONGU ENGINEERING COLLEGE, PERUNDURAI.**

A.S. Varshini & K. Subhasri
PAPER PRESENTATION (Second Prize)

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Congratulations to A.S. Varshini and K. Subhasri from the Department of Electronics and Communication Engineering for winning the second prize in the Paper Presentation event at the National Level Technical Symposium SCIENSEA 2K24, held at Kongu Engineering College, Perundurai.

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23 YEARS OF EXCELLENCE

Congratulations

PAPER PUBLICATION

“Advanced vehicle speed control system: A next generation intelligent transport system”



Dr. Anumol Mathai
 (Assistant Professor)

DEPARTMENT OF
**ELECTRONICS AND COMMUNICATION
 ENGINEERING**

DOI : 10.1109/ICOSEG61587.2024.10722144
 DATE : SEPTEMBER 2024

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Congratulations

PAPER PUBLICATION

“Dynamic Analysis of a New Chaotic System with Multistability, Amplitude and Offset Boosting Control, Its Adaptive Synchronization”



Dr. R. Rameshbabu
 (Associate Professor)

DEPARTMENT OF
**ELECTRONICS AND COMMUNICATION
 ENGINEERING**

DOI : 10.1007/978-3-031-66874-6_53
 DATE : SEPTEMBER 2024

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23 YEARS OF EXCELLENCE

PATENT PUBLICATION

“HERBAL PLANT CLASSIFICATION FOR INDIAN SIDDHA AYURVEDIC HEALTH CARE SECTOR”




Dr P.S. GOMATHI / Professor/ ECE
DEPARTMENT OF ECE

Patent Application Number : 202441050454 A
 Patent Published Date : 05/07/2024

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23 YEARS OF EXCELLENCE

Congratulations

PAPER PUBLICATION

International Conference on Applied Artificial Intelligence and Computing

“A Survey on Cognitive Radio Network Spectrum Sensing using Deep Learning Methods”



Mrs. P. NANDHINI
 (Assistant Professor)

DEPARTMENT OF
**ELECTRONICS AND COMMUNICATION
 ENGINEERING**

DOI : 10.1109/ICAAIC60222.2024.10575583
 DATE : 02 July 2024

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PATENT PUBLICATION

“EXPERT INTELLIGENCE: AI-POWERED REAL-TIME KNOWLEDGE ACCESS”




R. PANDISELVAM
 3RD YEAR, ECE

DEPARTMENT OF
**ELECTRONICS AND
 COMMUNICATION ENGINEERING**

Patent Application Number : 202441079560 A
 Patent Published Date : 25/10/2024

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SPORTS

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23 YEARS OF EXCELLENCE
VSB EDUCATIONAL TRUST

DEPT. OF PHYSICAL EDUCATION

HEARTY COMMENDATIONS TO PARTICIPATED OF SILAMBAM

MASS WORLD RECORD

UNIVERSAL ACHIEVERS BOOK OF RECORDS

UNIVERSAL ACHIEVERS BOOK OF RECORDS
Certificate of Achievement

Most people to perform most varieties of Tamil Nadu's traditional sports, games, dance, music and various other art forms in a day in multiple locations

This is to certify and honor **A. JEEVA** (Silambam) - KARUR'S SILAMBAM, KARUR, TAMIL NADU, INDIA, for PARTICIPATING IN A MASS WORLD RECORD OF MOST PEOPLE TO PERFORM MOST VARIETIES OF TAMIL NADU'S TRADITIONAL SPORTS, GAMES, DANCE, MUSIC AND VARIOUS OTHER ART FORMS ON 14th APRIL, 2024 FOR 1 HOUR 24 SECONDS (ON THE OCCASION OF TAMIL NEW YEAR) IN MULTIPLE LOCATIONS ACROSS INDIA.

DATE: 14.04.2024

RECORD TIME!

A. JEEVA, I - ECE

01:24

DATE OF THE EVENT: **14.04.2024**

VENUE: **KARUR**

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Congratulations to A. Jeeva from the Department of Electronics and Communication Engineering for participating in the Silambam Mass World Record event on 14th April 2024 in Karur, recognized by the Universal Achievers Book of Records for performing Tamil Nadu's traditional arts and sports across multiple locations.

STUDENTS NPTEL

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NPTEL COURSE

 2024 A GOWTHAM IV TH YEAR ECE Elite +Silver	 2024 A GOWTHAM IV TH YEAR ECE Elite	 2024 VIVEKA IV TH YEAR ECE Elite	 2024 ROSHINI P IV TH YEAR ECE
COURSE NAME TECHNICAL ENGLISH FOR ENGINEERS	COURSE NAME DATA STRUCTURE AND ALGORITHMS USING JAVA	COURSE NAME PROBLEM SOLVING THROUGH PROGRAMMING IN C	COURSE NAME PROGRAMMING IN JAVA

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NAAC
Accredited

Congratulations!

DEPARTMENT OF INFORMATION TECHNOLOGY

NPTEL COURSE

 2024 MUTHUPANDI II YEAR ECE Elite	 2024 A. KADMIEL EBINAZER II YEAR ECE Elite
DIGITAL CIRCUITS	DIGITAL CIRCUITS

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NPTEL COURSE

(Programming In Java Course) (JUL - OCT 2024)

 Congratulations! G PREMI II YEAR - ECE	 Congratulations! M. R. RITHIGA II YEAR - ECE	 Congratulations! NIVETHITHA E II YEAR - ECE	 Congratulations! PRADEEPA G II YEAR - ECE	 Congratulations! SABITHA P II YEAR - ECE
 Congratulations! SELVANAYAKI S II YEAR - ECE	 Congratulations! SUBHASRI N M II YEAR - ECE	 Congratulations! T NIVETHA SRI II YEAR - ECE	 Congratulations! THARANYAA SREE C II YEAR - ECE	

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NPTEL COURSE

(DIGITAL CIRCUITS) (JUL - OCT 2024)

 <i>Congratulations!</i> G. LOGA BALAJI II YEAR - ECE	 <i>Congratulations!</i> HARISH RAVIKUMAR II YEAR - ECE	 <i>Congratulations!</i> JUDE ANTO M I II YEAR - ECE	 <i>Congratulations!</i> K. DHIVAGAR II YEAR - ECE	 <i>Congratulations!</i> K. GIRIDHARAN II YEAR - ECE
 <i>Congratulations!</i> M. AKASH II YEAR - ECE	 <i>Congratulations!</i> N. N. SURYA II YEAR - ECE	 <i>Congratulations!</i> P. DEEPAK II YEAR - ECE	 <i>Congratulations!</i> P. JEEVAKUMAR II YEAR - ECE	 <i>Congratulations!</i> P. S. HARINITHIN II YEAR - ECE
 <i>Congratulations!</i> R. GIRINATH II YEAR - ECE	 <i>Congratulations!</i> S. DHINA II YEAR - ECE	 <i>Congratulations!</i> S. JEYAKUMAR II YEAR - ECE	 <i>Congratulations!</i> T.P. BALAJI II YEAR - ECE	

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NPTEL COURSE

(DIGITAL CIRCUITS) (JUL - OCT 2024)

 <i>Congratulations!</i> D.M. DHARSHINI SHREE II YEAR - ECE	 <i>Congratulations!</i> D. KAVYA II YEAR - ECE	 <i>Congratulations!</i> K. ARCHANA II YEAR - ECE	 <i>Congratulations!</i> KARSHINI S II YEAR - ECE	 <i>Congratulations!</i> M. G. HARINITHA II YEAR - ECE
 <i>Congratulations!</i> M. S. BALAH II YEAR - ECE	 <i>Congratulations!</i> N. ILAKKIYA II YEAR - ECE	 <i>Congratulations!</i> S. BHARATHI II YEAR - ECE	 <i>Congratulations!</i> S. DHARANI II YEAR - ECE	 <i>Congratulations!</i> S. GIRINANDINI II YEAR - ECE
 <i>Congratulations!</i> S. HEMAMALINI II YEAR - ECE	 <i>Congratulations!</i> S. MARIYAMMA II YEAR - ECE	 <i>Congratulations!</i> P. BHAVADHARANI II YEAR - ECE	 <i>Congratulations!</i> ABUPAKKAR SITHICK II YEAR - ECE	 <i>Congratulations!</i> ANBARASU II YEAR - ECE

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FACULTY CERTIFICATIONS

Elite

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This certificate is awarded to
S RAJESH KUMAR
for successfully completing the course




Accreditation and Outcome Based Learning

with a consolidated score of **75** %

Online Assignments	17.71/25	Proctored Exam	57.22/75
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Total number of candidates certified in this course: **1675**

Aug-Oct 2024
(8 week course)




Roll No: NPTEL24GE66S952600444 To verify the certificate  No. of credits recommended: 2 or 3

Elite

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




This certificate is awarded to
C BHUVANESHWARI
for successfully completing the course




Digital Circuits

with a consolidated score of **75** %

Online Assignments	24.35/25	Proctored Exam	50.5/75
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Total number of candidates certified in this course: **3425**

Jul-Oct 2024
(12 week course)




Roll No: NPTEL24EE147S955401755 To verify the certificate  No. of credits recommended: 3 or 4

Elite

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




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




Digital Circuits

with a consolidated score of **73** %

Online Assignments	23.5/25	Proctored Exam	49.5/75
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Total number of candidates certified in this course: **3425**

Jul-Oct 2024
(12 week course)




Roll No: NPTEL24EE147S952600423 To verify the certificate  No. of credits recommended: 3 or 4

Elite

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




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




Digital Circuits

with a consolidated score of **67** %

Online Assignments	23.72/25	Proctored Exam	43.5/75
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Total number of candidates certified in this course: **3425**

Jul-Oct 2024
(12 week course)




Roll No: NPTEL24EE147S952600028 To verify the certificate  No. of credits recommended: 3 or 4

Elite

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




This certificate is awarded to
VIGNESHWARAN S
for successfully completing the course




Digital Circuits

with a consolidated score of **66** %

Online Assignments	24.35/25	Proctored Exam	42/75
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Total number of candidates certified in this course: **3425**

Jul-Oct 2024
(12 week course)



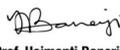

Roll No: NPTEL24EE147S1052600478 To verify the certificate  No. of credits recommended: 3 or 4

Elite

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




This certificate is awarded to
P GOMATHI
for successfully completing the course

Digital Circuits

with a consolidated score of **62** %

Online Assignments	22.91/25	Proctored Exam	39/75
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Total number of candidates certified in this course: **3425**

Jul-Oct 2024
(12 week course)




Roll No: NPTEL24EE147S1052600184 To verify the certificate  No. of credits recommended: 3 or 4



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Elite

This certificate is awarded to

MRS B ARTHI

for successfully completing the course

Digital Circuits

with a consolidated score of **63** %

Online Assignments	22.1/25	Proctored Exam	40.5/75
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Total number of candidates certified in this course: **3425**

Jul-Oct 2024
(12 week course)






Indian Institute of Technology Kharagpur



Roll No: NPTEL24EE147S1059100159

To verify the certificate 

No. of credits recommended: 3 or 4



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

DR GOMATHI P S

for successfully completing the course

Accreditation and Outcome Based Learning

with a consolidated score of **58** %

Online Assignments	15.5/25	Proctored Exam	42/75
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Total number of candidates certified in this course: **1675**

Aug-Oct 2024
(8 week course)






Indian Institute of Technology Kharagpur



Roll No: NPTEL24GE66S1052600340

To verify the certificate 

No. of credits recommended: 2 or 3



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

ANUMOL MATHAI

for successfully completing the course

Digital Circuits

with a consolidated score of **55** %

Online Assignments	23.13/25	Proctored Exam	31.5/75
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Total number of candidates certified in this course: **3425**

Jul-Oct 2024
(12 week course)






Indian Institute of Technology Kharagpur



Roll No: NPTEL24EE147S1052600347

To verify the certificate 

No. of credits recommended: 3 or 4



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

YUVARANI S

for successfully completing the course

Digital Circuits

with a consolidated score of **54** %

Online Assignments	22.72/25	Proctored Exam	31.5/75
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Total number of candidates certified in this course: **3425**

Jul-Oct 2024
(12 week course)






Indian Institute of Technology Kharagpur



Roll No: NPTEL24EE147S951000659

To verify the certificate 

No. of credits recommended: 3 or 4



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

DR R RAMESHBABU

for successfully completing the course

Accreditation and Outcome Based Learning

with a consolidated score of **54** %

Online Assignments	15/25	Proctored Exam	39.44/75
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Total number of candidates certified in this course: **1675**

Aug-Oct 2024
(8 week course)






Indian Institute of Technology Kharagpur



Roll No: NPTEL24GE66S952600541

To verify the certificate 

No. of credits recommended: 2 or 3



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

UTHRADEVI K

for successfully completing the course

Digital Circuits

with a consolidated score of **47** %

Online Assignments	17.1/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **3425**

Jul-Oct 2024
(12 week course)






Indian Institute of Technology Kharagpur



Roll No: NPTEL24EE147S952600309

To verify the certificate 

No. of credits recommended: 3 or 4



Our Department faculties have completed certification courses in the NPTEL platform and other platforms like Altium with high percentages. Consistently updating their knowledge of new technologies and improving their skills.

»»» **PATENT RIGHTS**

S.No	Inventor Name	Title of the Invention	Patent Number	Patent Status
1	Dr. R.Poornachandran	Enhancing Productivity With Taskify: A Web Based Application	202441039822 A	Published on 31/05/2024
2	Dr. R.Poornachandran	Advanced Bus Tracking, Managing, And Advertising System Using Ai-Driven Algorithms	202441039190 A	Published on 31/05/2024
3	Dr Anu Mole Mathai	Advanced Vehicle Speed Control System For Next Generation Intelligent Transport System Using Rf Technology	202441040781 A	Published on 31/05/2024
4	Dr R Rameshbabu	Head-Way Navigated Wheelchair For Physically Disabled People	202441041959 A	Published on 07/06/2024
5	Dr P Surendar	Xai For Colorectal Lesion Classification Using Machinelearning On Medical Imaging	202441042794 A	Published on 07/06/2024
6	K Mohamed Younus	Enhancing Maritime Safety Using Iot And Underwater Communication	202441044168 A	Published on 14/06/2024
7	K. Kalaichelvi	Heartpredictnb: A Pioneering Approach To Predictive Modeling For Early Identification Of Cardiovascular Risks	202441042864 A	Published on 14/06/2024

8	V. Jamuna	Smart Aquarium Control Using IoT	202441044431 A	Published on 14/06/2024
9	Dr. P. Gomathi	Block Diagram Of Breast Cancer Detection Using Ultrasound Images Using Resnet 50 Algorithm	202441044231 A	Published on 14/06/2024
10	M. Parvathi	Enhanced Face Spoofing Detection Through Geometric Temporal Dynamic Analysis	202441042889 A	Published on 14/06/2024
11	C.Bhuvaneshwari	Soil Texture Analysis For Uncontrolled Field	202441043239 A	Published on 14/06/2024
12	V. Elumalai	IOT- Based Digital Lpg Gas Cylinder To Prevent Hazards With Blynk Application Features	202441042863 A	Published on 14/06/2024
13	Dr P Surendar	Novel Detecting Thyroid Cancer From Ultrasound And Histopathological Images Using Salp Swarm Optimization	202441043142 A	Published on 14/06/2024
14	G. Mohanavel	Innovative Solutions For Safeguarding Crops And Wild Animals With Intelligent Surveillance System	202441046299 A	Published on 21/06/2024
15	Aayisha Begam A	An Eight-Element Mimo Antenna With High Gainfor Iot Applications	202441046665 A	Published on 21/06/2024

16	Lakshmi R	A Phenomenal Tactics To Protect Vanets From Grey Hole Attack	202441046351 A	Published on 21/06/2024
17	Arthi B	Identifying flaws and categorizing them use deep neural networks to an essential part in the inspection of sewer pipeline videos	202441046324 A	Published on 21/06/2024
18	K. Maheshkumar	Reconstruction Of 3d Tooth Model Using Deep learning	202441045934 A	Published on 21/06/2024
19	Vigneswaran S	Diagnosis Of The Tumor Region From Mri And Ct Images Using A Novel Amalgamation Of Optimization based Fuzzy Entropy Clustering	202441048019 A	Published on 28/06/2024
20	Dr. P. Gomathi	automated timetable generator using generative algorithms and web technologies	202441052132 A	Published on 12/07/2024
21	Rajesh Kumar S	Dual Band Dual Circularly Polarized Patch Antenna For Wireless Lan Application	202441050534 A	Published on 05/07/2024
22	Rajesh Kumar S	Performance Enhancement Of Multihop D2d Communications In Wireless Sensor Networks	202441050575 A	Published on 05/07/2024
23	Dr. P. S. Gomathi	Herbal Plant Classification For Indian Siddha Ayurvedic Health Care Sector	202441050454 A	Published on 05/07/2024

FACULTY PUBLICATION

S. No	Name of the Faculty	Title	Name of the Journal/Conference /Event /Publisher	Year
1	Mrs. P Nandhini	A Survey on Cognitive Radio Network Spectrum Sensing using Deep Learning Methods	IEEE Xplore	2024
2	Mohammed Younus K	Enhancing Maritime Safety Using Underwater Communication and IoT	International Journal of Technical Research & Science	2024
3	Dr.Kavitha	Analysis of nano sheet field effect transistor based on performance	Micro and Nanostructures	2024
4	Rameshbabu R,G.Mohanavel	Dynamic analysis of new chaotic system with five scroll and two scroll attractors: Offset boosting and total amplitude control,Adaptive synchronisation.	Journal of applied nonlinear dynamics	2024

5	R Rameshbabu	Dynamic Analysis of a New Chaotic System with Multistability, Amplitude and Offset Boosting Control, Its Adaptive Synchronization	Springer Nature Switzerland	2024
6	Dr.K.Kavitha	Application of machine learning techniques for churn prediction in the telecom business	ELSEVIER	2024
7	Dr.Anamol mathai	Advanced vehicle speed control system: A next generation intelligent trasport system	IEEE Xplore	2024
8	Dr.R.Poornachandiran	Developing a wireless network for optimum distance learning assistant	An international quarterly journal of life science	2024
9	Dr.P,Rameshbabu R	Complex Dynamics of Novel Chaotic System with No Equilibrium Point: Amplitude Control and Offset Boosting Control, Its Adaptive Synchronization	Nonlinear Dynamics and Systems Theory, 24 (5)	2024
10	Mrs.S.Yuvarani	Model Predictive Control For Hybrid Power Plant Optimization	african journal of biomedical research	2024