



V.S.B. ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

An ISO 9001:2015 Certified Institution

Accredited by NAAC, NBA Accredited Courses

CELESTRA

JUNE -2K23



<https://www.vsbece.com/ece/>

ECE

ELECTRONICS AND COMMUNICATION ENGINEERING

ABOUT DEPARTMENT:

- THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING WAS ESTABLISHED IN THE YEAR 2002. THE DEPARTMENT HAS WELL EQUIPPED LABORATORY AS 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 HAS HIGHLY EDUCATED FACULTY MEMBERS HAVING A VAST EXPERIENCE IN THEIR FIELD. THE DEPARTMENT HAS A WELL-BALANCED WORKFORCE HAVING EXPERIENCE IN ACADEMICS AND IN INDUSTRIES. STUDENTS ARE GIVEN EDUCATION AS WELL AS TRAINING EXPOSURE IN ORDER TO GET PLACED IN HIGHLY REPUTED INDUSTRIES.
- SYMBIOSIS BETWEEN PLACEMENT CELL AND THE DEPARTMENT HELPS THE STUDENTS TO ACHIEVE THE BEST OF THE JOBS FOR THEIR CAREERS. PROPER INDUSTRIAL INTERACTION IS GIVEN TO THE STUDENTS BY ORGANIZING NATIONAL LEVEL WORKSHOPS IN THE CAMPUS. IN THOSE EVENTS EMINENT PERSONALITIES FROM INDUSTRY AND EDUCATIONAL INSTITUTIONS ARE INVITED TO THE CAMPUS FOR STUDENT'S INTERACTION AND GUIDANCE. THE STUDENTS HAD PRESENTED THEIR TALENTS IN THE FORM OF PRACTICAL PROJECTS AND PAPERS, WHICH WERE SEEN AND ASSESSED BY THE INVITED PERSONALITIES; THEY ALSO HAD AN INTERACTION DIRECTLY WITH THE STUDENTS IN WHICH THEY SUGGESTED MEASURES TO FURTHER IMPROVE THE QUALITY OF THE CREATIVITY. EXPOSURE AS WELL AS TRAINING IS PROVIDED TO THE STUDENTS FOR ADVANCED STUDIES AND VARIOUS GUEST LECTURERS AND MOCK CAMPUS INTERVIEWS ARE CONDUCTED TIME TO TIME TO FACILITATE THE STUDENTS AND CREATE AWARENESS.
- INDUSTRY VISITS AND PRACTICAL PROJECTS ARE ALSO ENCOURAGED BY THE DEPARTMENT IN VARIOUS SECTORS; STUDENTS ARE TAKEN OUT TO INDUSTRIES FOR PRACTICAL UNDERSTANDING OF THE TECHNOLOGY. TO NAME A FEW, VISITS ARE MADE ON FREQUENT BASIS TO ORGANIZATIONS SUCH AS ACE COMPONENTS, JVS ELECTRONICS, EMBUZZ TECHNOLOGIES, TRACO CABLES, TECHNOVALLEY SOFTWARE COMPUTING, HAL MUSEUM AND ISRO ETC.
- THE STUDENTS OF THE DEPARTMENT HAVE PROVEN THE QUALITY OF EDUCATION PROVIDED TO THEM BY RECEIVING AWARDS IN NATIONAL AS WELL AS INTERNATIONAL LEVEL CONFERENCES. THEY HAVE ALSO RECEIVED RANKS (IN TOP 07) ON STATE LEVEL IN THE ANNA UNIVERSITY RESULTS OF ENGINEERING EXAMINATIONS. TO ADD ON THE FEATHERS IN THE CAP, STUDENTS ARE ALSO PLACED IN REPUTED COMPANIES SUCH AS TATA CONSULTANCY SERVICES (TCS), CAPGEMINI, WIPRO, ALTRAN, HCL, CTS, L&T INFOTECH, NTT DATA, IBM, TESSOLVE, INFOSYS, SONY, MIND TREE, ZOHOO CORPORATION AND INFOVIEW. THE DEPARTMENT HAS A VERY RICH HISTORY OF ITS PROVIDING TECHNICAL EDUCATION IN THE FIELD OF ENGINEERING AND ITS ACHIEVEMENTS IN A SMALL SPAN OF FOURTEEN YEARS OF ESTABLISHMENT. WITH THE SUPPORT OF THE EXCELLENT MANAGEMENT OF THE INSTITUTE AND THE STRONG BACKBONE OF THE FACULTY WE PLACE THE DEPARTMENT IN ONE OF THE BEST IN THE INSTITUTE.

“THE NUMBER ONE BENEFIT OF ELECTRONIC AND COMMUNICTAION IS THAT IT EMPLOYERS PEOPLE TO DO WHAT THEY WANT TO DO, IT LETS PEOPLE BE CREATIVE .IT LETS PEOPLE BE PRODUCTIVE, IT LETS PEOPLE LEARN THINGS THEY DIDN'TTHINK THEY COULD LEARN BEFORE ,AND SO IN A SENSE IT IS ALL ABOUT POTENTIAL.”

-STEVE BALLMER

VISION

TO PRODUCE ACADEMICALLY EXCELLENT AND SOCIALLY RESPONSIBLE ENGINEERS IN ELECTRONICS AND COMMUNICATION ENGINEERING.

MISSION

THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION PAVES WAY TO THE UPLIFTED OF KNOWLEDGE AND LATEST TECHNOLOGIES IN ECE FIELDS BY,

- ① TO PROVIDE GOOD FUNDAMENTAL KNOWLEDGE IN ALL THERELATED SUB-DOMAINS OF ELECTRONICS ANDCOMMUNICATION ENGINEERING.**
 - ② TO OFFER AN EFFICIENT TEACHING-LEARNING PROCESS WITH A FOCUS ON PROBLEM SOLVING SKILLS,ANALYTICAL SKILLS AND TECHNICAL SKILLS.**
 - ③ TO INCULCATE COMPETENCY, INNOVATIVE SPIRIT, COMMUNICATION AND MANAGERIAL SKILLS TO CREATE SOCIALLY RESPONSIBLE ENGINEERS.**
 - ④ TO ENCOURAGE THE STUDENTS TO PURSUE HIGHER STUDIES AND RESEARCH ACTIVITIES.**
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PROGRAM EDUCATIONAL OBJECTIVES

PEO1: THE GRADUATES OF THE PROGRAMME WILL BE ABLE TO PROVIDE SOLUTIONS TO THE REAL WORLD COMPLEX PROBLEMS IN THE SOCIETY.

PEO2: THE GRADUATES OF THE PROGRAMME WILL BE ABLE TO ADAPT TO THE EMERGING TECHNOLOGIES WITH ACTIVE PARTICIPATION IN PROFESSIONAL ACTIVITIES TO BUILD CAREER SKILLS FOR PROSPEROUS CARRIER IN ORGANIZATION OR HIGHER STUDIES AND RESEARCH

PEO3: THE GRADUATES OF THE PROGRAMME WILL BE ABLE EXHIBIT AND DEMONSTRATE LEADERSHIP SKILLS WITH ETHICAL VALUES IN THEIR PROFESSION

PROGRAM SPECIFIC OUTCOMES

PS01: APPLY KNOWLEDGE RELATED TO CORE AND SPECIALIZED FIELDS LIKE ELECTRONIC CIRCUITS, EMBEDDED AND COMMUNICATION SYSTEMS TO SOLVE COMPLEX ENGINEERING/SOCIETAL PROBLEMS

PS02: ABLE TO EXPOSE STUDENTS PROGRAMMING SKILLS USING LATEST TOOLS TO ARRIVE COST EFFECTIVE AND APPROPRIATE SOLUTIONS

PS03: APPLY THE CONTEXTUAL KNOWLEDGE WITH PROFESSIONAL ETHICS TO MANAGE DIFFERENT PROJECTS IN MULTI DISCIPLINARY ENVIRONMEN

CHAIRMAN'S MESSAGE



SHRI . V .S .BALSAMY

FOUNDER -CHAIRMAN



OUR COLLEGE WAS ESTABLISHED WITH THE AIM OF PROVIDING QUALITY HIGHER EDUCATION ON PAR WITH INTERNATIONAL STANDARDS. IT PERSISTENTLY SEEKS AND ADOPTS INNOVATIVE METHODS TO IMPROVE THE QUALITY OF THIS TO A CONSISTENT BASIS. THE CAMPUS HAS A HIGHER EDUCATION QUALITY OF COSMOPOLITAN ATMOSPHERE WITH STUDENTS FROM ALL CORNERS OF THE GLOBE. EXPERIENCED AND LEARNED TEACHERS ARE STRONGLY ENCOURAGED TO FUTURE OF STUDENTS.



THE GLOBAL STANDARDS SET IN THE FIELD OF TEACHING AND RESEARCHES SPUR US ON IN OUR RELENTLESS PURSUIT OF EXCELLENCE IN FACT, IT HAS BECOME A WAY OF LIFE FOR US. THE HIGHLY MOTIVATED YOUNGSTERS ON CAMPUS ARE A CONSTANT SOURCE OF PRIDE. ELECTRONICS AND THIS TO COMMUNICATION ENGINEERING (ECE) SHAPES ITS STUDENTS' FUTURE BY THIS TO FOSTERING A TEAMWORK APPROACH TO INSTRUCTION, ENCOURAGING INTERACTION WITH FACULTY, PROVIDE



IFG ACCESS TO HIGH TECH INFORMATION, MOTIVATING THEM TO DEVELOP NEW IDEAS AND CONCEPTS, TAKING PERSONAL INTEREST IN STUDENTS' CAREER DEVELOPMENT AND PREPARING THEM FOR SUCCESS.



ECE HAS A METHOD OF ITS OWN, DIFFERENT FROM OTHERS. AT A TIME WHEN ALTRUISTIC IDEALS AND CIVIC INTERESTS SEEM TO HAVE GIVEN WAY TO POWER POWER GOALS AID HEIGHTENED INTEREST MAINTAIN



THE STATUS QUO MOR SETTLE FOR OBSERVING CHANGE: THEY RATHER HOPE TO BE POWERFUL INSTRUMENTS OF CHANGE USING THEIR DYNAMIC URGE TO MAKE THEIR CONTRIBUTIONS TO THE WORLD. I LOOK BACK WITH AM OF THE EJORMOUS SENSE OF PRIDE, THE AMAZING PROGRESS THAT THE ECE DEPARTMENT HAS MADE WITHIN A SHORT SPAN OF TIME.



THIS WOULD NOT HAVE BEEN POSSIBLE WITHOUT THE VALUABLE SUPPORT AND CONTRIBUTION OF FACULTY. STUDENT COMMUNITY, PARENTS AND MY WELL TO WISHERS. I STRONGLY BELIEVE THAT SERIOUS, SINCERE AND SYSTEMATIC

HOD'S

MESSAGE

"STRIVE FOR PERFECTION IN EVERYTHING YOU DO. TAKE THE BEST THAT EXISTS AND MAKE BETTER. WHEN IT DOES NOT EXIST, DESIGN IT."

-SIR HENERY ROYCE



DR.R.POORNACHANDRAN
HOD/ECE

THE PAST YEAR, OUR STUDENTS LEARNED THROUGH REMOTE MODALITIES AND IN HYBRID MODE. IT WAS SURELY A CHALLENGE TO KEEP THE BOND AMONG THE TEACHERS AND THE STUDENTS, AND ALSO AMONG THE STUDENTS. WITH GRATITUDE, I CAN SAY THAT WE STILL STRIVE WITH THE SUPPORT OF OUR STUDENTS, TEACHERS, PARENTS, AND ALUMNI. IT GAVE US AN OPPORTUNITY TO CONNECT WITH OUR ALUMNI VIRTUALLY AND ALSO WITH OUR PARENTS. THE DEPARTMENT MAGAZINE IS A REFLECTION OF OUR DEPARTMENT'S CREATIVITY AND KNOWLEDGE. I BELIEVE THAT "CELESTRA -2K23" WILL BRING OUT THE EXPRESSIVENESS OF THE ECE FAMILY. I APPLAUD THE DEPARTMENT MAGAZINE IN CHARGE, THE SECRETARY, THE EDITORS, AND THEIR DEDICATED COMMITTEE FOR THEIR VALUABLE ENDEAVOR IN BRINGING OUT THIS ISSUE.

"THE MIND IS EVERYTHING. WHAT YOU THINK YOU BECOME."

-BUDHA



DR.P.S.GOMATHI
HOD/ECE

IT IS A PLEASURE TO HEAD THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION AT VSB ENGINEERING COLLEGE. THE DEPARTMENT OFFERS A B.E. (HONOURS) DEGREE PROGRAM IN ELECTRONICS COMMUNICATION. THE DEPARTMENT HAS A TEAM OF WELL-QUALIFIED, EXPERIENCED, AND COMPETITIVE STAFF. THE STUDENTS OF THE ECE DEPARTMENT ARE ALSO MOTIVATED AND PREPARED FOR THE ECE INDUSTRY WITH HANDS-ON EXPERIENCE IN CURRENT TECHNOLOGY AND PROGRAMMING LANGUAGES. THE GRADUATING STUDENTS OF THE DEPARTMENT REGULARLY ACHIEVE TOP POSITIONS IN THE UNIVERSITY AND MOSTLY WORK IN THE CORE FIELDS.

DEPARTMENT CONSTANTLY WORKS FOR OVERALL GROWTH OF STUDENTS AND INCULCATE THE QUALITIES / FEATURES THAT ARE REQUIRED AND ACCEPTABLE BY SOCIETY. FACULTY /STUDENTS TAKE INITIATIVE FOR SOCIAL CAUSES AT INDIVIDUAL LEVEL AND AS A TEAM UNDER DIFFRENT BANNER /CLUBS OF THE INSTITUTE. TURNING A STUDENT IN TO A GOOD AND PROFFICIENT CITIZEN IIS THE PRIME OF THE DEPARTMENT.

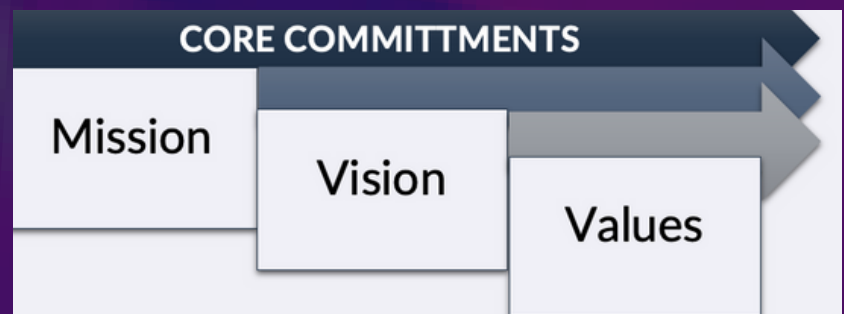
FACULTY ACHIEVEMENTS



NPTEL

ONLINE CERTIFICATION

S.NO	FACULTY NAME	NPTEL COURSES	DURATION	RESULT
1	DR.G.KALAIARASI	TEACHING & LEARNING IN ENGINEERING (NPTEL)	JAN 2023- FEB 2023	SUCCESSFULLY COMPLETED ELITE
2	S.RAJESKUMAR	TEACHING & LEARNING IN ENGINEERING (NPTEL)	JAN 2023- FEB 2023	SUCCESSFULLY COMPLETED ELITE
3	DR. R.POORNACHANDRAN	DATA ,DATA,EVERYWHERE (GOOGLE)	JAN 2023- FEB 2023	SUCCESSFULLY COMPLETED



PAPER PUBLICATION SCI/SCOPUS JOURNALS

S.NO	NAME OF FACULTY MEMBER	DEPARTMENT/ NAME OF THE BOOK	PUBLICATION NAME	YEAR OF PUBLICATION
1	DR.J.ASHOK	POWER GENERATION - LIGHT THE WORLD	LAMBERT	2023
2	DR.K.KAVITHA	AI-POWERED IOY: TRANSFORMING INDUSTRIES WITH SMART & CONNECTED DEVICES	LAMBERT	2023
3	DR.J.ASHOK DR.G.KALAIARASI	ADVANCED ROBOTS USING AI AND ML	LAMBERT	2023
4	DR.J.ASHOK DR.G.KALAIARASI	REVOLUTIONIZING ROBOTICS: THE INTEGRATION OF AI AND MACHINCE LEARNING	LAMBERT	2023
5	DR.J.ASHOK	INTERNET OF THINGS SYSTEM AND APPLICATION	NLT TECHNOLOGY	2023

PATENT PUBLICATIONS

S. NO	INVENTOR	TITILE OF INVENTION	PATENT NUMBER	PATENT STATUS
1	Dr. S.PURUSOTHAMAN	IOT BASED SLEEP APNEA DETECTION BY USING INTER HEART BEAT PERIOD FOR HEALTH CARE	202241044554 A	PUBLISHED ON 19.08.2022
2	Dr. R.RAMESHBABU	DOCUMENT CLASIFICATION USING ARTIFICIAL INTELLIGENCE	202241052791 A	PUBLISHED ON 23.09.2022
3	Dr. ASHOK	ARTIFICIAL INTELIGENCE ON THE INTERNET OF THINGS FOR THE PURPOSE OF IMPROVING THE EFFICIENCY OF THE MEDICAL SERVICE CONSULTATION	202211053203 A	PUBLISHED ON 23.09.2022
4	Dr. R.POORNACHANDRAN	AN InAs BASED QUANTUM WELL WITH DOUBLE GATE FOR HIGH ELECTRON MOBILITY TRANSISTORS	202022105491	PUBLISHED ON 04.11.2022
5	K.KALAIARASI	CHEMICAL MIXING DEVICE FOR AGRICULTURE FARM	37334-001	PUBLISHED ON 03.02.2022

FACULTY PAPER PUBLICATIONS

NAME OF FACULTY	TITLE	NAME OF THE JOURNAL/ CONFERENCE/EVENT/ PUBLISHER	VOLUME/ISSUE/JOURNALS/ CONFERENCE	YEAR
Dr. R.RAMESHB ABU	DESIGN OF NEW CHAOTIC SYSTEM WITH SINE FUNCTION : DYNAMIC ANALYSIS AND OFFSET BOOSTING CONTROL	CHAOS THEORY AND APPLICATION	5(2),P.118-126	2023
Dr. R.RAMESHB ABU	A NEW DC OFFSET BOOSTABLE CHAOTIC SYSTEM WITH MULTI STABILITY AND COEXISTING ATTRACTORS: ITS ADAPTATIVE CONTROL AND ADAPTATIVE SYNCHRONIZATION	JOURNAL OF SCIENTIA IRANICA	ACCEPTED	2023

FACULTY DEVELOPMENT PROGRAM

S. NO	CONTENT	NO.OF CERTIFICATES
1	FACULTY ATTENDED FDP/STTP IN THE ACADEMIC YEAR 2022 - 2023	80
2	FACULTY ATTENDED FDP/STTP IN THE ACADEMIC YEAR 2021 - 2022	58
3	FACULTY ATTENDED FDP/STTP IN THE ACADEMIC YEAR 2020 - 2021	29

STUDENTS NPTEL RESULTS

S.NO	NAME OF STUDENT	NPTEL COURSE NAME	RESULT
1	VIDHYA.P	PROGRAMMING IN JAVA	COMPLETED WITH ELITE SILVER
2	GOPIKA M . M	PROGRAMMING IN JAVA	COMPLETED WITH ELITE
3	PRIYANKA .B	PROGRAMMING IN JAVA	COMPLETED WITH ELITE
4	SIVA SELVARAJ .M	PROBLEM SOLVING THROUGH PROGRAMMING IN C	COMPLETED WITH ELITE SILVER
5	BHAVADHARANI G.K	PROGRAMMING IN JAVA	SUCCESSFULLY COMPLETED

STUDENT NPTEL RESULT

S.NO	NAME OF STUDENT	NPTEL COURSE NAME	RESULT
6	MANSOOR ALI	INTRODUCTION TO MACHINE LEARNING (TAMIL)	SUCCESSFULLY COMPLETED
7	MARISELVAM.V	PROBLEM SOLVING THROUGH PROGRAMMING C	COMPLETED WITH ELITE SILVER
8	KAVIYA T	PROBLEM SOLVING THROUGH PROGRAMMING C	COMPLETED WITH ELITE
9	BANUPRIYA T	PROBLEM SOLVING THROUGH PROGRAMMING IN C	SUCCESSFULLY COMPLETED
10	POORANI V	PROGRAMMING IN JAVA	COMPLETED WITH ELITE SILVER

SPORTS ACHIVEMENTS



SPORTS ACHIEVEMENTS



ELANCHEZHIAN

3RD YEAR

**BODY BUILDING
CHAMPIONSHIP**



MOTHISH

3RD YEAR

**NATIONAL PLAYER
-SOFT BALL**



AYYA PANDI

3RD YEAR

**NATIONAL PLAYER
-SOFT BALL**

SPORTS ACHIEVEMENTS



PREMKUMAR

2ND YEAR

**NATIONAL PLAYER –SOFT BALL
YSPA CHAMPIONSHIP–WINNERS**



ROHAN

2ND YEAR

**STATE PLAYER
–SOFT BALL**



SANJAY

2ND YEAR

**STATE PLAYER
–SOFT BALL**

AWARDS



SKATING ACHIEVEMENTS



MUGIL

2ND YEAR

- NATIONAL LEVEL SKATING PLAYER
COMPLETED HINDHUSTAN BOOK OF RECORD
ROLLER SKATING CHAMPIONSHIP –WINNER

PANDISELVAM

2ND YEAR

- NATIONAL LEVEL SKATING PLAYER
- ROLLER SKATING CHAMPIONSHIP – WINNER



HARIHARAN

2ND YEAR

- NATIONAL LEVEL SKATING PLAYER
- ROLLER SKATING CHAMPIONSHIP – WINNER
- ANNA UNIVERSITY-ROLLER HOCKEY





VEERAMANI

2ND YEAR

- NATIONAL LEVEL SKATING PLAYER
- ANNA UNIVERSITY -ROLLER SPEED SKATING

AWARDS



KABADDI

ACHIEVEMENTS



DHIVAKAR

2ND YEAR

- NATIONAL LEVEL KABADDI PLAYER
- YSPA CHAMPIONSHIP – WINNERS

SAJITH

2ND YEAR

- NATIONAL LEVEL KABADDI PLAYER
- YSPA CHAMPIONSHIP – WINNERS



SPORTS ACHIEVEMENTS (WOMENS)



NAGESHWARI

2ND YEAR

**INTER COLLEGE VOLLEYBALL
CHAMPIONSHIP**

NANDHINI PRIYA

2ND YEAR

**INTER COLLEGE VOLLEYBALL
CHAMPIONSHIP**



CELESTRA

2 K 2 3









STUDENT INTERNSHIP





Thank you