

A large, multi-story white building with red and green accents, identified as VSB ENGG. COLLEGE. The name is displayed in large red letters on a sign above the building. There are palm trees and other greenery in the foreground. A red flag is visible on the left, and a blue flag is on the right.

VSB ENGG. COLLEGE

NEWSLETTER

ELEXER'25

**Department of Electrical & Electronics
Engineering**



**V.S. Balsamy, Founder,
VSB Educational Trust**

CHAIRMAN'S MESSAGE

ABOUT EEE

- 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 higher education on a consistent basis. The campus has a cosmopolitan atmosphere with students from all corners of the globe. Experienced and learned teachers are strongly encouraged to nurture the 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 the campus are a constant source of pride. Electrical and Electronics Engineering (EEE) 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 personal interest in students' career development and preparing them for success.
- EEE has an ethos of its own, different from others. At a time when altruistic ideals and civic interests seem to have given way to power goals and heightened interest maintain status quo nor settle for observing change; they rather hope to be powerful instruments of change using their dynamic verve to make their contributions to the world. I look back with an enormous sense of pride, the amazing progress that the EEE 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 wishers. I strongly believe that serious, sincere and systematic services, surely secure supreme success.

PRINCIPAL'S MESSAGE

ABOUT EEE

- A Effective Source of Technical Manpower for the Nation and to contribute to the growth of the Nation by constantly upgrades the quality of Technical Education by meeting the challenges needs of the twenty first century and effectively coordinating and the activities of the Staff, Students and the Industry while keeping up the ethical and moral standards required.
- EEE is a continuously evolving subject. As technology has advanced, so have the challenges facing the modern engineer. A silicon chip containing over 100 million transistors in an area no larger than a postage stamp is yesterday's news. EEE is a subject that naturally partners with other disciplines to open whole new engineering avenues. Examples include Mechatronics with Mechanical Engineering, Biomedical Sciences with Medicine and Avionics with Aeronautics. The EEE Department at V.S.B. Engineering College prepares students in this field using new-age information and computer-intensive technologies.
- The undergraduate degree courses offered by the department provide a comprehensive foundation in the core topics of EEE coupled with an area of specialization relevant to emerging engineering challenges. The curriculum has been designed to create professional electrical and electronic engineers, who can serve in the fields of core electrical engineering, information and communication systems, and other related fields
- The faculty in the department is a rich blend of personnel with industrial and professional experience. The dedicated staff members have sound knowledge in emerging areas like embedded systems, power electronics applications in power systems, expert systems, etc .

VISION AND MISSION

Department of EEE

- **Vision**
- To create dynamic and challenging electrical engineers with social responsibilities.
- **Mission**
- To provide technical proficiency by adopting well defined teaching learning process.
- To create an environment to practice ethical codes.
- To prepare the graduates to be professionally competent to meet out the industrial needs.
- To motivate the students to pursue higher studies and research activities.



VISION



MISSION

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

Department of EEE

- **PEO#1:** Have a successful career in core and allied engineering or associated industries or in higher education or as entrepreneurs or in research.
- **PEO#2:** Provide the optimal solution for complex engineering problems in chosen Technical areas.
- **PEO#3:** Exhibit continuous improvement in their profession through life-long learning.

PROGRAM SPECIFIC OUTCOME (PSO)

Department of EEE

- **PSO#1:** Provide optimal solution in the field of Power sector.
- **PSO#2:** Apply suitable Electronic controllers for Power conversion, Control and Automation.
- **PSO#3:** Make use of appropriate technique and modern tools to analyze and evaluate the performance of Electrical machines and Electronic circuits



FACULTY ACHIEVEMENTS



1. Dr.K.Umamaheswari
2. Dr.G.Saravanan
3. Mr.R.Arunkumar
4. Mr.S.Rajesh
5. Mr.K.Karthi

PUBLICATION

SCI



2

SCOPUS



15

PATENT



Product : 5

Design : 2

PAPER PUBLICATION

Sl. No.	Title of the Paper	Name of the Author	Indexed	Year of publication
1	Deep Learning Based Solar Maximum Power Point Tracking System with Grid Connected System	Rajesh S	SCOPUS	July 2025
2.	Gravitation search based Optimal STATCOM location Identification Framework to minimize Power loss	Dr.K.Umamaheswari	SCOPUS	August 2025
3.	Solar Prediction for Reliable DC Microgrid Energy Supply	Rajesh S	SCOPUS	August 2025
4	Adaptive Facts Control For Voltage Instability Mitigation In Power Grids"	Dr.K.Umamaheswari	SCOPUS	August 2025
5	Design And Implementation of a Fault Tolerant Scheme For Brushless Dc Motor Drive	K.Karthi	SCOPUS	September 2025
6	Evaluation and Simulation of Oil-based Direct Cooling System in Series DC Motors for Electric Vehicle Applications	Prasanth.B	SCI	September 2025
7.	Artificial Neural Network Approach For Optimal Charging And Discharging Of Lithium-Ion Batteries In Microgrids	Dr.G.Saravanan	SCOPUS	September 2025
8	Automatic On-Road Electric Vehicle Battery Charging Using Solar Pv System	K.Karthi	SCOPUS	October 2025
9	Power Quality Improvement In Micro Grid By Using Apc And Renewable Energy Sources	R.Subramani Rao	SCOPUS	October 2025
10	IOT enabled embedded system for industrial automation: real time monitoring and control of electrical system:	R.Sivakumar	SCOPUS	October 2025
11	Smart iot enabled electric vehicle with wireless charging intergration"	R.Arunkumar	SCOPUS	October 2025
12	Design And Implementation Of A Fault Tolerant Scheme For Brushless Dc Motor Drive"	Gopi.P	SCOPUS	November 2025
13	Creating Electric Vehicle Battery Management with IoT: Using Intelligent Algorithms to Enhance Safety, Efficiency, and Charging Time	M.Sabitha	SCOPUS	November 2025
14	IOT based solar EV charging station	Mr.R.Sivakumar	SCOPUS	November 2025
15	AI Enabled fault detection and Isolation in smart power Distribution networks	Mr A.Antony Charles	SCOPUS	November 2025
16	Design of adaptive control framework for collaborative electric vehicle charging to improve hosting capacity in constrained distribution networks	P.Arunkumar	SCI	2025
17	Smart EV Charging Architecture using Predictive Machine Learning and Hybrid Renewable Energy Integration	Mr A.Antony Charles	Scopus	2025

PATENT PUBLICATION

Sl.No	Faculty Name	Patent Application Number	Title of the Patent	Patent Type (Design or Product)	Patent Published/Granted Date
1	A.Antony Charles	202541046390	Neural Network Driven Advanced Dynamic Solar Panel Orientation Systems for Optimal Energy Harvesting	Product Patent	13.06.2025
2	K.Karthi	202541076030	Automatic On Road Electric Vehicle Battery Management	Product Patent	22.08.2025
3	S.Rajesh	202541079184	Integration Of Programmable Controllers With AR/VR Using ML	Product Patent	05.09.2025
4	R.Subramani Rao	461893-001	Ai-Based Data Processing Device For Cybersecurity	Design Grant	28.08.2025
5	R.Sivakumar	202541088549	Identification And Prevention of Cyber Attacks in Industrial Smart Grid	Product Patent	17.10.2025
6	P Arulkumnar	202511095657 A	Nanoparticle-Based Smart Dressing for Real-Time Healing of Chronic and Diabetic Ulcers,	Product Patent	05.12.2025
7	P Arulkumnar	460114001	Device To Detect Power Consumption of Renewable Energy	Design Grant	18.09.2025

DSIR SPONSORED SEMINAR

National Level Seminar on the topic of “Next Generation Energy Efficient Machines for Renewable and Electric Mobility Applications”, at 23.01.2026 and 24.01.2026



RESULT

YEAR	NO. OF STUDENTS APPEARED	NO. OF STUDENTS CLEARED	%PASS
I	63	23	36.51
II	61	35	57.38
III	50	48	96.00
IV	66	66	100
OVER ALL			71.67



RESULTS
EXAM



STUDENTS ACHIEVEMENTS



1. Conference - 3
2. Paper Presentation - 24
3. Project Presentation - 17
4. Technical event - 2
5. Workshop - 6



STUDENTS ACHIEVEMENTS

1. Chiddeshwar V – II EEE
2. Nithish A – II EEE
3. Anushvarthni S – II EEE
4. Jithu Kannan T J – II EEE (Elite + Silver)
5. Dheventhiran M – II EEE
6. Naveen kumar E G – II EEE (Elite)



Elite NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

JITHU KANNAN T J

for successfully completing the course



The Joy of Computing using Python

with a consolidated score of **84** %

Online Assignments	24.75/25	Proctored Exam	59.25/75
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Total number of candidates certified in this course: 20403



Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Oct 2025

(12 week course)



Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL25CS103S1070900687

To verify the certificate



No. of credits recommended: 3 or 4

PLACEMENT

2025 BATCH



Asahi India Glass Ltd.



Offer received from

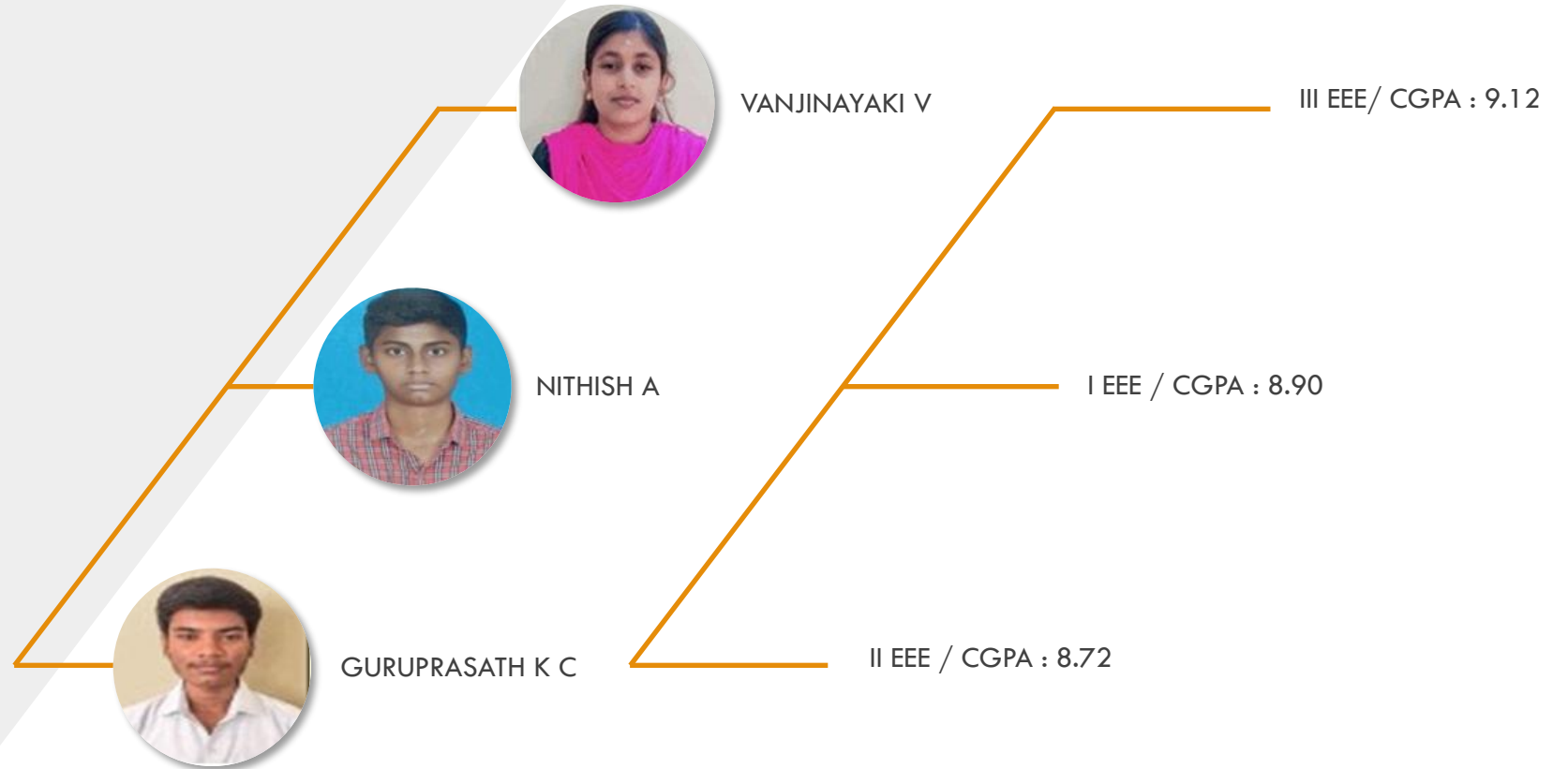
- CAPGEMINI – 24
- NISSI – 14
- KPIT – 3
- Zoho – 1
- LTI – 2
- QUEST GLOBAL – 2
- CTS - 1
- ASAHI – 1
- SCHNIDER ELECTRIC – 1
- SPIC – 1
- Others - 15

TOPPERS



RAMYA R

IV EEE | CGPA : 9.28



SEMINAR



SEMINAR ON “START UP OPPORTUNITIES IN CORE ELECTRICAL DOMAIN - POWERED BY INNOVATION “ ON 09.08.25 ” BY ER.ARUL ANTONY JEYARAJ , SENIOR PROCESS ENGINEER ,ANDRITZ TECHNOLOGIES PVT LTD, CHENNAI.



SEMINAR ON “INNOVATION AND STARTUP ECOSYSTEM OF AUTOMOTIVE ELECTRONICS FOR 2-WHEELERS, 3-WHEELERS & AGRI-TECH VEHICLES “ ON 30.08.25 ” BY ER.GUGAN, INNOVATOR (R&D),SUPRAJIT AUTOMOTIVE PRIVATE LTD, BANGALORE

Innovation



INNOVATIVE SESSION ON “INTELLIGENT AUTOMATION WITH SAP PROCESS AUTOMATION” ON 25.10.25 ” BY ER.S.SATHIYANANDHAM, SENIOR PROGRAM DEVELOPER, INFOSYSIS , COIMBATORE.



INNOVATIVE WEBINAR SESSION ON “MACHINE LEARNING APPLICATION IN DEMAND SIDE MANAGEMENT” ON 28.11.25 ” BY DR.P.L SOMASUNDRAM , ASSISTANT PROFESSOR, SENIOR SCALE, PRESIDENCY UNIVERSITY, BANGALORE

ARTICLES

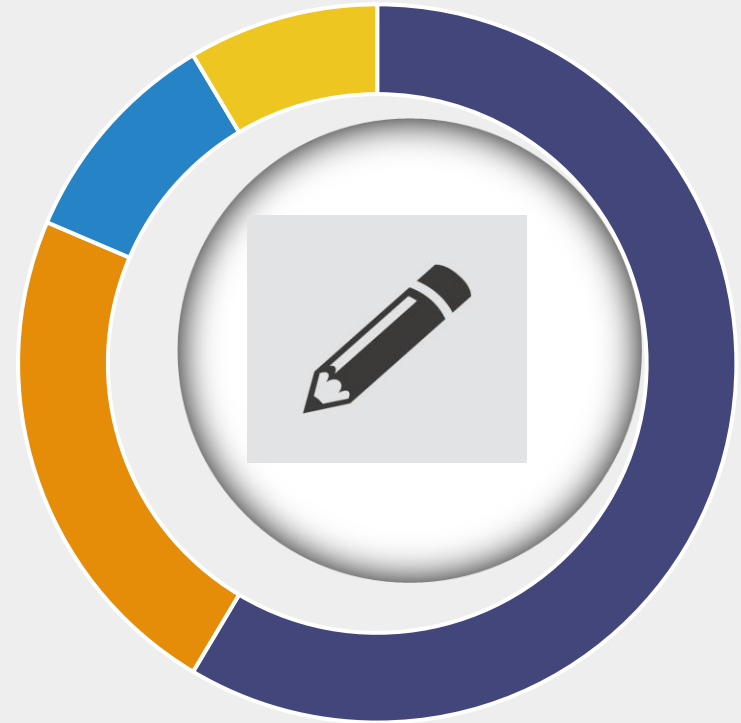
ELECTRIC VEHICLE : THE FUTURE IS NOW

The automotive world is currently undergoing its most significant transformation since the invention of the assembly line: the rapid transition to Electric Vehicles (EVs). For decades, internal combustion engines fueled by gasoline were the undisputed kings of the road, but a combination of climate urgency and technological breakthroughs has flipped the script. As of 2026, over a quarter of all new cars sold globally are electric, with countries like Norway and China leading the charge toward a zero-emission future. This shift is driven primarily by the environmental need to slash carbon dioxide emissions, as EVs produce no tailpipe exhaust, offering a direct solution to urban air pollution. Beyond the green credentials, the appeal for the modern driver—especially students and young professionals—lies in the "instant torque" of electric motors, which provides a silent yet powerful acceleration that traditional gas cars struggle to match.



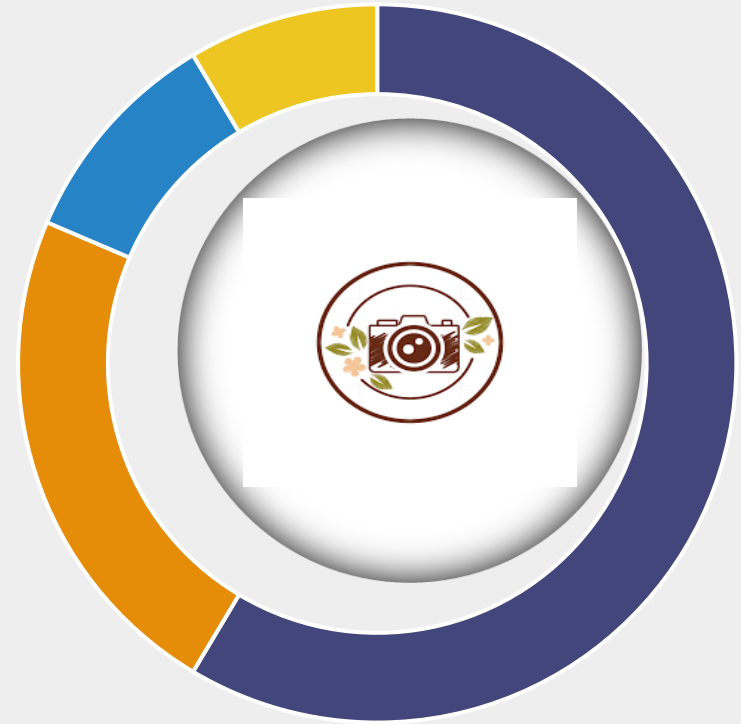
By Logesh S – IV EEE

PENCIL ART

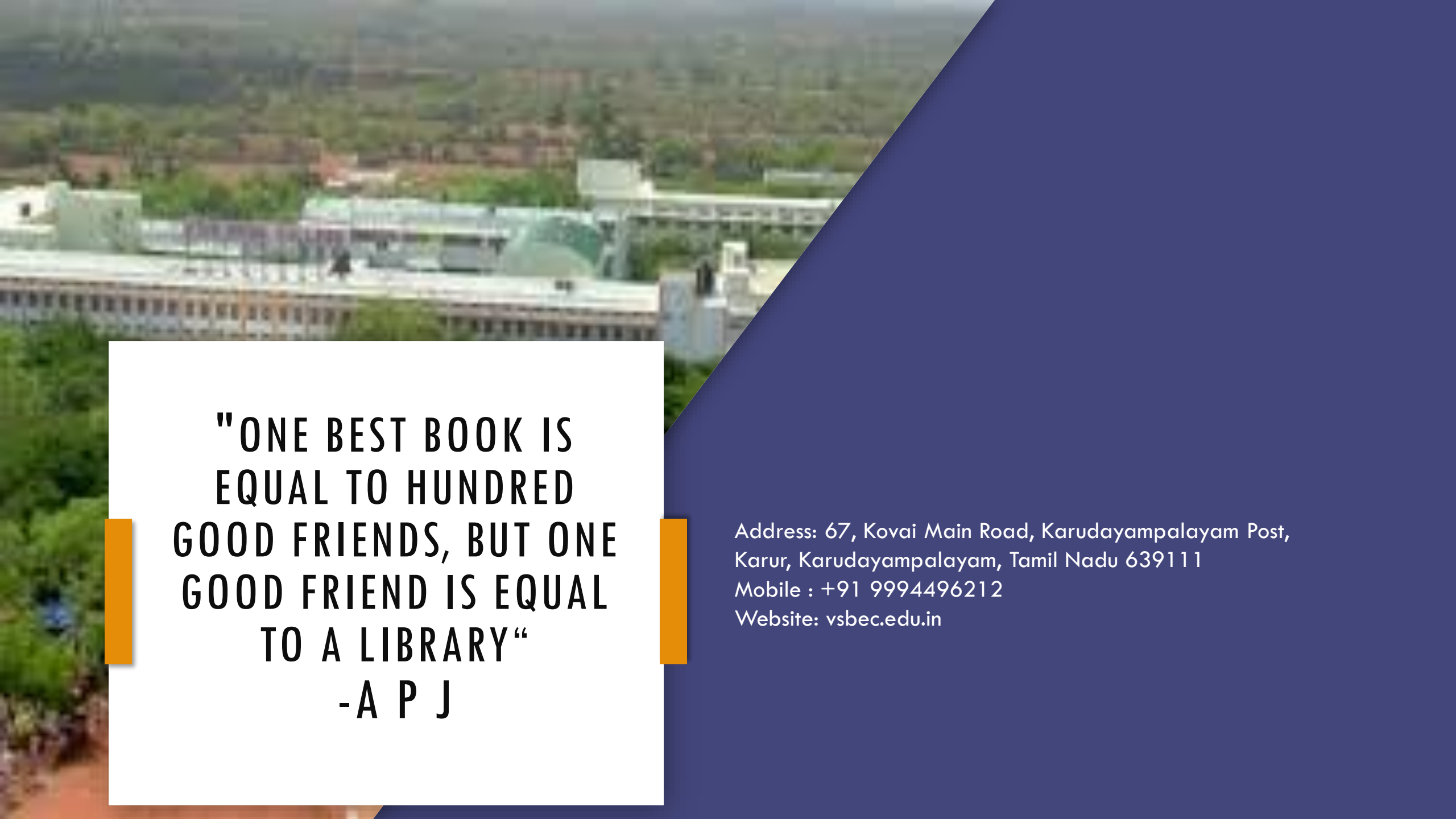


By Bharath S – III EEE

PHOTOGRAPHY



By Hariharan M – II EEE



**"ONE BEST BOOK IS
EQUAL TO HUNDRED
GOOD FRIENDS, BUT ONE
GOOD FRIEND IS EQUAL
TO A LIBRARY"
-A P J**

Address: 67, Kovai Main Road, Karudayampalayam Post,
Karur, Karudayampalayam, Tamil Nadu 639111
Mobile : +91 9994496212
Website: vsbec.edu.in