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V.S.B. ENGINEERING COLLEGE
KARUR - 639 111
NBA & TCS Accredited, ISO 9001:2015 Certified Institution

ELEXER'18
Department of Electrical & Electronics Engineering

CHAIRMAN'S MESSAGE

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 with-out 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.

PRINICIPAL'S MESSAGE

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, Bio-medical 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 .

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Love thy neighbor as thyself because you are your neighbor. It is illusion that makes you think that your neighbor is someone other than yourself.

Sarvepalli Radhakrishnan

VISION AND MISSION

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.

Programme Educational Objectives (PEOs)

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)

PSO1: Provide optimal solution in the field of Power sector.
PSO2: Apply suitable Electronic controllers for Power conversion, Control and Automation.
PSO3: Make use of appropriate technique and modern tools to analyze and evaluate the performance of Electrical machines and Electronic circuits

ACHIEVEMENTS OF OUR DEPARTMENT

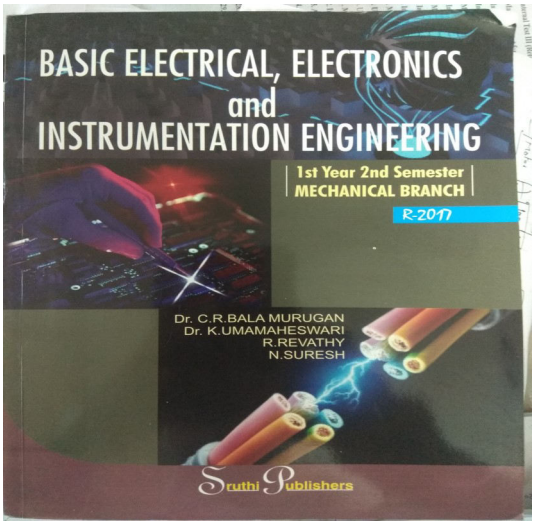
FACULTY PARTICIPATION

S. No	Name of the staff	Designation	Online Course / Events	Prize
1	R.Sivakumar	Assistant Professor	NPTEL Online Course	Certified
2	L.Sree vidya	Assistant Professor	NPTEL Online Course	Certified
3	Dr.K.Umamaheswari	Associate Professor	TNSCST Projects	Submitted
4	Sathya S	Assistant Professor	TNSCST Projects	Submitted
5	Guruvaran K	Assistant Professor	TNSCST Projects	Submitted

FACULTY PUBLICATION DETAILS

1. Dr.K.Umamaheswari, M.Ramachandran, S.Preetha and Sathiya S published a paper on Optimization Techniques for improved power factor and energy efficiency on International Journal of Soft Computing and Engineering (IJSCE) ISSN 2231-2307, Volume -8 , Issue –4, November 2018.
2. Preetha Sukumar , M. Ramachandran , K. Umamaheswari and A. Maryia Chithra Mary published a paper on Reduction of source current and source voltage harmonics using SHAPF on Asian Journal of Electrical Sciences on ISSN 2249-6297, Volume –7 , Issue –2, July-December 2018.
3. M.Ramachandran, Dr.Umamaheswari, S.Preetha published a paper on Matrix Converter Based Series Compensator For Mitigating Power Quality Disturbances International Journal of Emerging Technologies and Innovative Research Volume –5 , Issue –9, October 2018.
4. Sreevidya.L , S. Sathiya published a paper on Evaluation of The Reliability of Distribution System with Distributed Generation using ETAP International Journal of Soft Computing and Engineering ISSN 2231-2307, Volume –8 , Issue –5, January 2019.
5. R.Arun Kumar published a paper on Production of Power Using Wind Turbine New Model Journal of Applied Science and Computations, ISSN NO: 1076-5131, Volume 5, Issue 10, pp.1438-1444, Oct 2018.
6. S.Muthukumar published a paper on Nine Switch converter fed Induction motor with V/F control using PIC Micro controller International journal of Information and computer Science Volume:5, Issue: 11, November: 2018.
7. Sathiya.S, L. Sree vidya published a paper on Distributed Generation allocation in Distribution System using Optimization Techniques in International Journal of Emerging Technologies and Innovative Research Volume –5 , Issue –9, October 2018.
8. M.Balamurugan, R.Sivakumar, Arun Kumar R, S.Ramachandran published a paper on International Journal of Emerging Technologies and Innovative Research Volume –5 , Issue –9, October 2018.

BOOKS PUBLICATION



Our Faculty **Dr. K.Umamaheswari** published a book on **Basic Electrical, Electronics and Instrumentation Engineering** for I year II Semester Mechanical branch in Sruthi Publication.

STUDENT'S CO-CURRICULAR ACTIVITIES

S. No	Student Name	Year/ Branch	Workshop/ Seminar/ Symposium	Event Within the State	Date	College/Industry
1	S.Manjokumar	III/EEE	Workshop	Android	13.6.18	UNIQ Technology
2	K.Loghesh Kanna K.Ajay P.Jayaraman A.Kavin	III EEE	Workshop	Android in robotics	31.8.2018	CIT,CBE
3	M.Reenadevi D.Aarthi K.Monica M.Meena S.Sathya	III EEE	Workshop	Recent trends in green energy technologies and smart grid	31.8.2018	Sri Ramakrishna Engineering College,CBE
4	S.Manjokumar B.M.Niranjan kumar K.Nithesshkumar G.Nithish kumar	III EEE	Workshop	Design and Installation of Solar PV	30.8.18 to 31.8.18	Dr.Mahalingam Engineering College ,Pollachi
5	Lavanya.S Monica S Mounika S	II EEE	Workshop	Emerging Trends in Internet of Things	25.8.18	Kongunadu College of Engineering and Technology
6	Dharani G	II EEE	Workshop	Internet Of things	24.8.18	SNS College of Technology ,CBE
7	J.Kirupavathi R.Nijandhan J.Sanjay S.Surekha P.Vaishali	III EEE	Paper Presentation	Artificial Intelligence	4.9.18	Jai shriram Engg College, Tirupur
8	P.Kamalesh S.Bharath kumar T.Yuvankumar K.J.V.Prasannakumar	III EEE	Workshop	Recent technological Developments in Energy Conversion and Storage	14.9.18 to 15.9.18	Dr.Mahalingam Engineering college, Pollachi
9	J.Vasanthakumaran A.Kalaiyarasu R.Marimuthu R.Balakrishnan	III EEE	Workshop	IOT based Smart Energy Sytems	15.9.18	Kongunadu College of Engineering and Technology
10	Bharath B Cebu Anand A GoPi G Karthick C Manojkumar B Mukilan S Rajeshwaran M Sedhu Pathy S Subash S Tharanitharan C	II EEE	Workshop	Industry 4.0	19.9.18	SNS College of Technology ,CBE
11	Vasantha kumar A Praveen T Vikash Kumar R	II EEE	Workshop	IOTplatform using node-RED	26.9.18	SNS College of Technology ,CBE
12	Sri Dhar K Tamil Vanan R Vigneswaran A	II EEE	Workshop	Python and IOT Integrated ToolKit for LABVIEW	26.9.18	KSR Engg College,Erode

STUDENT'S INPLANT TRAINING

S. No	Student Name	Year/Branch	Inplant Training	Date	College/Industry
1	S.Manjokumar	III/EEE	Inplant Training	20.6.18 to 26.818	TNPL,Kagithapuram,Karur
2	S.Vijaya kumar	III/EEE	Inplant Training	20.6.18 to 26.818	TNPL,Kagithapuram,Karur
3	S.Suresh	III/EEE	Internship		NET Technology
4	S.Manjokumar	III/EEE	Inplant Training	11.6.18 to 13.6.18	UNIQ Technology
5	R.Sanjay	III/EEE	Inplant Training	28.05.18 to 1.06.2018	BSNL, Salem
6	R.Nijandhan	III/EEE	Inplant Training	06.06.18 to 12.06.18	TNPL,Kagithapuram,Karur

STUDENTS EXTRA-CURRICULAR ACTIVITIES

S.No	Student Name	Year/Branch	Activities	Event Name	Date	College/Industry
1	Surekha S	III/EEE	ICT - Youth Talk	ICT-YOUTH Talk 2018 Tamil Nadu	28.9.18	Saranathan College of Engineering
2	Manoj Kumar S	III/EEE				
3	C.S.Thiruajan	IV/EEE				
4	Kishore Kumar A	II/EEE	Yoga	National Yoga Competition	26.9.18	National level yoga Programm in Namakkal

Kishore Kumar A , II year EEE Participated in the National level yoga Program in Namakkal on 26.9.18

PLACEMENT DETAILS

S.No	Name of the Students	Name of the Company
1	Alagappan P L	TCS, Capgemini, SONY
2	Bhoomamalleswari G S	TCS,Capgemini
3	Keerthana S	TCS,Capgemini,
4	Praveenkumar M	TCS
5	Sivaranjani S	TCS & Aricent
6	Harshini A	Aricent
7	Kaviya G	L&T Infotech
8	Praveenkumar S	L&T Infotech
9	Sowbarniga S	L&T Infotech, Capgemini, Tessolve
10	Tiruajan C.S.	L&T Infotech
11	Gokulnath S	Go Speedy Go
12	Karthee P M	Go Speedy Go
13	Gayathri.R	Capgemini
14	Kaviya R	Capgemini
15	Kumaran S	Capgemini
16	Malarvizhi M	Capgemini
17	Manjuthaa N	Capgemini & Wipro
18	Poovarasan S	Capgemini
19	Prakash G	Capgemini
20	Sabarinathan M	Capgemini
21	Sivasankaran K	Capgemini
22	Sneka V	Capgemini
23	Sowbarnica A	Capgemini
24	Thahirabanu M	Capgemini
25	Vaishali K	Capgemini
26	Yuvaraj P	Capgemini
27	Kathirvel G	NTT Data
28	Franklin J	Wipro
29	Mohanlal M	Wipro
30	Ananth M	Sood Towers
31	Soundarya D	Sood Towers

With 2 and more offers

S.No	Name of the Students	No of Offers
1	Alagappan P L	3
2	Sowbarniga S	3
3	Keerthana S	2
4	Sivaranjani S	2
5	Bhoomamalleswari G S	2
6	Manjuthaa N	2

With 3.75 above salary

S. No	Name of the Student	Salary Package
1	Gokulnath S	4 Lakhs
2	Karthee P M	4 Lakhs
3	Gayathri.R	3.75 lakhs
4	Kaviya R	3.75 lakhs
5	Kumaran S	3.75 lakhs
6	Malarvizhi M	3.75 lakhs
7	Manjuthaa N	3.75 lakhs
8	Poovarasan S	3.75 lakhs
9	Prakash G	3.75 lakhs
10	Sabarinathan M	3.75 lakhs
11	Sivasankaran K	3.75 lakhs
12	Sneka V	3.75 lakhs
13	Sowbarnica A	3.75 lakhs
14	Thahirabanu M	3.75 lakhs
15	Vaishali K	3.75 lakhs
16	Yuvaraj P	3.75 lakhs

EVENTS CONDUCTED

Technical Seminar

Resource person

Mr.M.Sakthivel

Specialist in automotive, from Robert Bosch on the dias duiring the Technical Seminar session on "Microprocessor and micro controller, actuators and sensor application in industry" in seminar hall on 03.09.18 for II and III year students.

Guest Lecture

Our resource person

Dr.T.GUNASEKARAN,

Associate Professor,

Higher College of Technology, Muscat, Sultanate of Oman conducted a Guest Lecture on Electromagnetic Theory on 27.08.2018 for the II year students.

Industrial Visit

54 students of II year visited the Tamilnadu Newsprint and Paper Limited, Kagithapuram, Karur on 01/09/2018 and gained knowledge about the Electrical and Mechanical controls used in the industry.

DEPARTMENT TOPPER'S LIST

JAYANTHI R
II EEE

KIRUPAVATHI J
III EEE

ALAGAPPAN P L
IV EEE

UNIVERSITY RANK HOLDERS

NANDHINI B
20th Rank

SHRUTHE G S
48th Rank

MALATHI S
44th Rank

DEPARTMENT RESULT

S. NO.	CLASS/ SEMESTER	OVERALL PASS (%)
1	**I EEE / II**	**70.69**
2	**II EEE/ IV**	62.50
3	**III EEE / VI**	82.00
4	**IV EEE / VIII**	84.48

STUDENT'S ARTICLE

AGRICULTURAL DRONE

This article provides detailed understanding on agriculture drone under logical headings and subheadings. Article highlights the technological aspects of prominently used agricultural drones along with the advantages and disadvantages. This article will help the reader in interpreting the future scope of using drones in the agriculture sector. Keywords: Agriculture drone, aircraft, multispectral images Introduction Quad copter and wing aircraft drone are best suited for the agriculture industry. Drone are well equipped with an autopilot using GPS and a point to shoot camera that is also controlled by GPS. Importance of Drone can be understood from the fact that it can provide farmers with three detailed views. First, keeping eye on crop from the air can help reveal patterns that show a problem related to irrigation, soil variation and fungal infestations (1). Secondly, drone uses Satellite remote sensing method which is used to identify the crop growth by comparing multiple images taken by the satellite. Third, airborne cameras can take multispectral images, capturing data using visual spectrum as well as infrared, which shows the difference between the distressed and healthy plants which can't be viewed with naked eyes

—

Sanjay R
III year EEE

ANTI-THEFT HOME SECURITY SYSTEM

The project of "Anti Theft Home Security System" has been designed in order to tackle the increase in robbery cases in houses and offices. This system with the help of microcontrollers, sensors, and GSM can form elements to protect our houses from the astute minds of thieves. if there is any robbery happened in house or anywhere the sensor will detect the vibration over there if any vibration detected the notification will sent to the corresponding person through GSM. This module will GSM, microcontroller, LCD and a buzzer. immediately the buzzer will go ON and the user will come to know about the activity through LCD. This system can also be successfully brought into implementation at places like offices, shopping malls (for protection of products kept on display), ATM's etc .

—

Mahesh Boopathi
II year EEE

RAIN SENSING OF AUTOMATIC CAR WIPER

Over the past two decades, the automotive industry has aggressively researched ways to exploit modern computing and electronic advances in the development of safety, reliability, and entertainment technologies for vehicles With drivers exposed to an ever increasing number of distractions, automatic rain sensing wipers systems become an even more appealing feature, as they work to minimize the time the driver must take his/her hands of the wheel. Most traditional systems after intermittent as well as variable speed operation. The traditional wiper system however requires driver constant attention in adjusting the wiper speed Traditional windshield wiper speed constantly varies according to time and vehicles speed. Because the manual adjustment of the wiper distracts drivers attention, which may be a direct cause accidents .This is review paper for rain sensing of automatic Car wiper .the system activates to operate in full automatic mode and detect moisture.

—

Aarthi D
III year EEE

Education is the most powerful weapon which you can use to change the world.

- ***Nelson Mandela***

CHIEF EDITORS:

Mr.R.Sivakumar HoD/EEE

EDITOR:

Mrs.Preetha S AP/EEE
Mr.R.Arun Kumar AP/EEE

Student's Editor

IV EEE

Pavithra M
Surekha S
Suresh S

III EEE

Kaviya G
Harshini A
Tiruajan C S

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