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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
6	S.Sathya	Assistant Professor	NPTEL Online Course	Certified
7	M.Balamurugan	Assistant Professor	NPTEL Online Course	Certified

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 Interna-

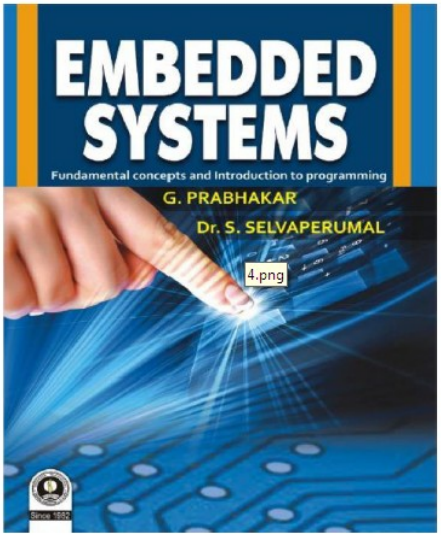
CENT PERCENT RESULT PRODUCER

1. Dr.K.Umamaheswari produced cent percent in Power Plant Engineering for III year EEE students
1. R.Sivakumar Produce Cent percent in Electric Energy Generation, Utilization and Conservation for IV year EEE students.
2. S.Muthukumar produce Cent percent in Power Electronics for Renewable Energy systems for IV year EEE students.
3. R.Arunkumar produce Cent percent in Professional Ethics in Engineering for IV year EEE students.

BOOKS PUBLICATION

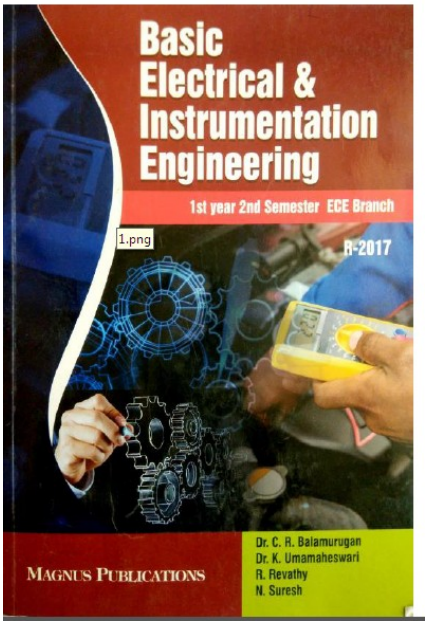
Dr.G.Prabhakar , Associate Professor

Book on Mechatronics published by Anuradha Publication

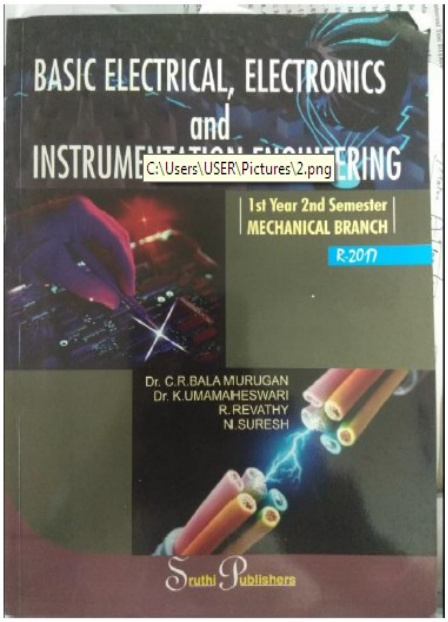


Book on Embedded Systems published by Anuradha Publication

Dr.K.Umamaheswari, Associate Professor



Book on Basic Electrical, Electronics and Instrumentation by Sruthi Publishers



Book on Basic Electrical, Electronics and Measurement Engineering by Magnus Publications

DEPARTMENT TOPPER'S LIST

JAYANTHI R

II EEE

KIRUPAVATHI J

III EEE

ALAGAPPAN P L

IV EEE

UNIVERSITY RANK HOLDERS

ALAGAPPAN .L

12th Rank

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**	**73.91**
2	**II EEE/ IV**	49.12
3	**III EEE / VI**	76.09
4	**IV EEE / VIII**	100

STUDENT'S ARTICLE

AVAILABILITY BASED TARIFF

This article provides detailed understanding on agriculture drone under logical headings and subheadings. **Availability Based Tariff** (ABT) is a frequency based pricing mechanism applicable in India for unscheduled electric power transactions. The ABT falls under electricity market mechanisms to charge and regulate power to achieve short term and long term network stability as well as incentives and dis-incentives to grid participants against deviations in committed supplies .As per the notification, ABT was initially made applicable to only central generating stations having more than one SEB/State/Union Territory as its beneficiary. Through this scheme, the Central Electricity Regulatory Commission looks forward to improve the quality of power and curtail the following disruptive trends in power sector: Unacceptably rapid and high frequency deviations (from 50 Hz) causing damage and disruption to large scale industrial consumers. Frequent grid disturbances resulting in generators tripping, power outages and power grid disintegration.

—

Dhanajeyan
II year EEE

IOT Based Smart Grid Using Arduino

This project Titled "**IOT Based Smart Grid Using Arduino**" proposed an energy meter which measures the amount of power consumed and uploads it to Thingspeak cloud the concerned person can view the reading. Conventional Process of measuring energy is accomplished by the wattmeter, but a person from TNEB has to visit each customer's house for measuring the power consumption and for calculating the bill amount of customers. So it requires much manual work and consumes time. We have intended to construct an IoT based energy meter to each customer of TNEB. So the proposed . The power reading is sent to the cloud using ESP 8266, a Wi-Fi module. The power reading from digital wattmeter is read using the opt coupler and transmitted digitally to the Arduino. So it automates the process of measuring the power consumption at homes using IoT and thereby enabling remote access and digitalization for each customer of TNEB. .

—

Mahesh Boopathi.S

III year EEE

URINE POWERED GENERATOR

This article describes the method to harvest energy from urine. Urine consists of approximately 98 per cent water and 2 per cent urea, which is made up of carbon, oxygen, nitrogen, and hydrogen atoms. Human urine has been turned into all sorts of things over the centuries, ranging from phosphorous to gunpowder. The process of electrolysis uses a jolt of electricity to split the urea into hydrogen and oxygen atoms and then captures the hydrogen to produce energy. The urinal prototype uses fuel cells to generate a steady stream of electricity. This model can be developed based on the following (1)Urine is put into an electrolytic cell, which separates out the hydrogen.

(2)The hydrogen enters a water filter for purification, which then gets pushed into a gas cylinder (3)The gas cylinder pushes hydrogen into a cylinder of liquid borax, which is used to remove moisture from the hydrogen (4)This purified hydrogen gas is pushed into the generator

—

Manoj Kumar.A

IV year EEE

STUDENT'S CO-CURRICULAR ACTIVITIES

S. No	Student Name	Year/ Branch	Workshop/ Seminar/ Symposium	Event Within the State	Date	College/Industry
1	Karthick P Gowtham kumar	III/EEE	Project Presentation	Symposium	10.01.2019	CIT ,CBE
2	S.MaheshBoppathi N.Praveen Kumar P.Nagaraja	II/EEE	Seminar	Research trends on Smart waste management System for Batteries	11.01.2019	Kongu Engg College ,Erode
3	Manoj Kumar S Niranjan Kumar B M Nitheeshkumar K Kalaiyarasu A	III/EEE	Paper Presentation	Symposium	01.02.2019	Kongu Engg College ,Erode
4	Jayanthi.R Sharumathi.R Oviya.P Sowmiya.P	II/EEE	Paper Presentation	Symposium	01.02.2019	K.S.R College of Engg
5	K.Sangeetha D.Parkavi G.Swathi	I/EEE	Workshop	Matlab and its Applications	02.02.2019	Kongu Engg College ,Erode
6	K.Monica S.Sathya M.Meena D.Aarthi M.Reena Devi	III/EEE	Paper Presentation	Symposium	04.02.2019	Sri Ramakrishna Institute of Technology
7	R.Vignesh Praveen.T	II/EEE	Workshop	IOT based Automation	09.02.2019	M.Kumarsamy college of engineering
8	R.Santhoshkumar S.Prithiviraj	III/EEE	Project Presentation	Symposium	15.02.2019	N.S.N College of Engg and Technology
9	R.Santhoshkumar	III/EEE	Circuit Debugging	Symposium	15.02.2019	N.S.N College of Engg and Technology
10	G.sujatha Deepa jothi Lavanyaa prakathi	I/EEE	Paper Presentation	Symposium	15.02.2019	N.S.N College of Engg and Technology
11	Mahesh Boopathi.S Pragalathan.E G.Gopi Nagarajan.P	II/EEE	Project Presentation	Symposium	02.03.2019	KPR institute of engineering and technology
12	Pragalathan.E	II/EEE	Project Presentation	IEEE Student Chapter	22.02.2019	KPR institute of engineering and technology
13	Pavithra M Surekha S Vaishali P Priya V Swathi R	III/EEE	Paper Presentation	Symposium	07.03.2019	Rathinam group of Institution

STUDENT'S INPLANT TRAINING

S. No	Student Name	Year/Branch	Inplant Training/ Internship	Date	College/Industry
1	Prabha.R Navi.J Madhumitha.S Anushya.M	II/EEE	Inplant Training	05.06.19 to 07.06.19	Unique Technologies
2	Vasanthakumar.A	II/EEE	Inplant Training	10.06.19 to 14.06.19	BSNL
3	Mahesh boopathi S	II/EEE	Internship	10.06.19 to 21.06.19	Learn Bench
4	Vignesh.R CebuAnand.A Kanagaraj.S Rajeshwaran.M Karthick.C Aravinthan.D	II/EEE	Internship	03.06.19 to 11.06.19	Enbest Pumps
5	A.Hariprasath N.Gobigaramanan D.Jebachristy R.Lavanya Pragathi V.S.Prathiyangaradevi K.Sobika A.P.Praveen V.Sridhar	I/EEE	Inplant Training	12.06.19 to 18.06.19	TNPL
6	M.KavinRaj	I/EEE	Internship	19.06.19 to 05.07.19	TNPL
7	V.Maheshwari S.Harini G.Sujatha S.Saranya M.Salmankhan G.G.Dharaneesh	I/EEE	Internship	24.06.19 to 28.06.19	Live Wire

STUDENTS EXTRA-CURRICULAR ACTIVITIES

S.No	Student Name	Year/Branch	Activities	Event Name	Date	College/Industry
1	Ravindran	II/EEE	Soft ball	Senior State level soft ball tournament	03.02.19	Rajiv Gandhi Institute of technology Sriperambadur
2	V.Aravinth	II/EEE				
3	N.Praveen Kumar	II/EEE				
4	Dhilipan	II/EEE	Athletics	State Level Athletic Meet	17.02.19	Tamilnadu & Sports Develoment Association
5	R.Ananthakrishnan	II/EEE	Volley-ball	Volleyball-men	17.02.19	Tamilnadu & Sports Develoment Association
6	S.Tharanitharan	II/EEE	Kabadi	Kabadi	17.02.19	Tamilnadu & Sports Develoment Association

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, Capgemini
5	Sivaranjani S	TCS & Aricent
6	Harshini A	Aricent,Tessolve
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,Mallow
13	Gayathri.R	Capgemini
14	Kaviya R	Capgemini
15	Kumaran S	Capgemini
16	Malarvizhi M	Capgemini
17	Manjuthaa N	Capgemini & Wipro
18	Poovarasan S	TCS, Capgemini
19	Prakash G	
20	Sabarinathan M	Capgemini
21	Sivasankaran K	TCS, 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,TCS
31	Soundarya D	, CTS, Sood Towers
32	Ajith kumar P	Mobivle
33	Giri prasath S	TCS
34	Kowsalya G	TCS
35	Manobharathi.S	Mind tree
36	Mohanlal M	Wipro
37	Ramya J	Mind Tree
38	Subidsha S	Mobivle
39	Santhosh S	Aasshay Glass

With 2 and more offers

S.No	Name of the Students	No of Offers
1	Alagappan P L	5
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.R.Ravi,

Engineer Senior Certification Aerospace Domain, Honeywell Technologies, Madurai is on the dias during the Technical Seminar session " Embedded system and its application in industry" in seminar hall on 09.03.19 for III year EEE students.

Guest Lecture

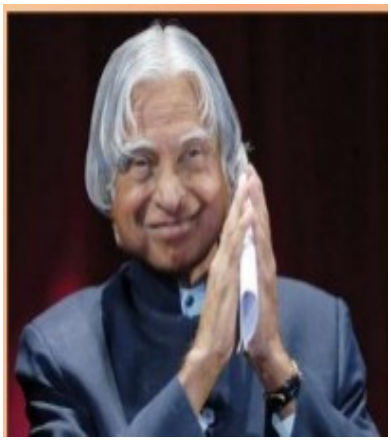
Our resource person

Dr.P.ANBAZHAKAN

Associate Professor, Anna University, BIT Campus, Trichy

Conducted Guest Lecture on "Transmission and Distribution" for II Year EEE Students

Learning gives creativity, creativity leads to thinking, thinking provides knowledge, Knowledge makes you great -
APJ.ABDUL KALAM



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Mr.R.Arun Kumar AP/EEE

Student's Editor

IV EEE

Pavithra M
Surekha S

III EEE

Karthick.C
Cebu Anand.A

II EEE

Dhananjeyan.S
Pravin.D

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