

VEMU NEWS

NEWSLETTER/VOLUME 6/ ISSUE 2 /JULY-DECEMBER 2017



Chairman's Message



Chairman

Prof. K. Chandrasekhar Naidu

VEMU Institute of Technology is one of the leading institutions in Chittoor district, Andhra Pradesh. It is located at P. Kothakota 40 kms away from the Temple City, Tirupati. It is amidst rural area surrounded by hills and pastures. The institution is established to cater the needs of rural communities.

Its objective is to foster the pursuits of individual excellence among the students so as to make them participate in academic, spiritual, cultural, social and physical activities in order to develop them in all facets of life. It is our team of dedicated and highly qualified faculty who strive hard to widen the horizon of learning to the students so as to help every student taste success with high grades. We do have courses and training on Placement, Personality Development, Communication Skills and Soft Skills. Our college conducts a number of Workshops, Conferences, Seminars and Symposiums. In a short span, our college has bagged several University ranks and it has been maintaining remarkably high percentage pass every year. We assure commendable services for the progress of each student forever.

We acknowledge and thank the students, the parents, the faculty both teaching and non-teaching and the entire rural community for their support in taking this institution to greater heights. I am pleased to welcome you all to this VEMU IT. I pray to the Almighty to bless you all with great future.

Principal's Message



Principal

Dr. D. Obulesu

It is a matter of great pride that the College has made consistent progress, year on year, in academics, extra-curricular and co-curricular activities. Overall development of the individual is the goal of education and we all have to strive hard to equip the student of today for the challenges of tomorrow. This will require tremendous self-motivation on the part of all concerned. Challenges and Opportunities are two sides of the same coin. Modern education, curriculum development and teaching methodologies have to keep pace with the demand of the changing needs. Holistic education necessitates all round development of a student. The faculty at this college has always strived to be a trend setter but what has also been noteworthy is the excellent support and commitment of the non-teaching staff. I wish each one of you the very best for achieving greater success and for scaling newer heights in your education and careers ahead. It gives me immense pleasure in conveying my best wishes to the editorial board on bringing VEMU NEWS.

Vision

To be a premier institute for professional education producing dynamic and vibrant force of technocrats with competent skills, innovative ideas and leadership qualities to serve the society with ethical and benevolent approach.

Mission

- ❖ To Create a learning environment with state-of-the art infrastructure, well equipped laboratories, research facilities and qualified senior faculty to impart high quality technical education.
- ❖ To Facilitate the learners to inculcate competent research skills and innovative ideas by Industry-Institute Interaction.
- ❖ To Develop hard work, honesty, leadership qualities and sense of direction in rural youth by providing value based education.

COLLEGE LEVEL ACTIVITIES

NAAC PEER TEAM VISIT

The Committee members from the National Assessment and Accreditation Council (NAAC), UGC, Govt. of India visited to assess and accredit our VEMU IT. The objective of NAAC is to help the institution work continuously in order to improve the quality of education. This NAAC visit was co-ordinated by the HOD of the department of H&S Mrs.D.V.Sai Sireesha, Dean of Academics and NAAC Co-Ordinator. The team members were Dr.R.Subbaiah, former Vice-Chancellor, Bharathiyar University, Coimbatore, Tamil Nadu, Dr. Yash Pal Sharma, Principal, D.A.V. (PG) College, Karnal, Haryana, and Prof.S.P.Shukla, Professor, Civil Engineering, Institute of Engineering & Technology, Dr,A.P.J.Abdul Kalam Technical University, Lucknow. They visited to inspect the facilities provided by the college and also made a peer review of all the files. The department also arranged cultural programs wherein the I.B.Tech students took active participation. It is a matter of pride that the program was a grand success and it brought laurels to the college.



ENGINEERS' DAY

Engineer's day was celebrated on 15-09-2017 to commemorate the birth anniversary of country's legendary Engineer, Bharatratna Sir Mokshagundam Visvesaraya. The Staff and students paid floral tribute to the legendary engineer and conducted several events for the students and distributed the prizes.



NSS ACTIVITIES

The NSS Unit of VEMU Institute of Technology has conducted an awareness program on Road Safety at a fuel filling station situated at about 4kms from the college premises. The program was organized in co-ordination with Puthalapattu Police Station Officials. This program is aimed at creating awareness in the commuters so as to

- Minimize injuries and deaths because of road accidents by following road safety measures.
- Encourage the drivers of LMVs and HMVs to ensure that they will wear seat belts while driving the vehicles.
- Create awareness on road safety rules, including traffic lights, speed limits, pedestrian rules, etc.



MEMORANDAM OF UNDERSTANDING (MOUs)

VEMU Institute of Technology, P. Kothakota has signed a Memorandum of Understanding with VEE TECHNOLOGIES Solutions Private Limited, Chennai. The MoU was made on 28-10-2017. The MoU is valid for a period of 8 years from the date of agreement. The main objective of this MoU is to promote industry institute interaction in a meaningful way. The MoU was mainly aimed at benefiting the Faculty and Students of Department of ECE. Both the parties mutually agreed to support for Industrial / Institute visits, Internships, Projects Assistance, Faculty Development Programs, Technical Talks and Workshops etc.



SEMINAR SATELLITE COMMUNICATION

A One Day Seminar on “Satellite Communication” was conducted by the Department of ECE. The Seminar provided the knowledge on various types of Satellites like SLV, ASLV, PSLV and GSLV. The resource person for this program is Mr.T.Rajendra Prasad, Scientist / Engineer-SE, National Atmospheric Research Laboratory (NARL), Gadanki. From this seminar, the students are able to know about the important parameters for satellite communication and understood the difference between the different types of satellites and their applications.

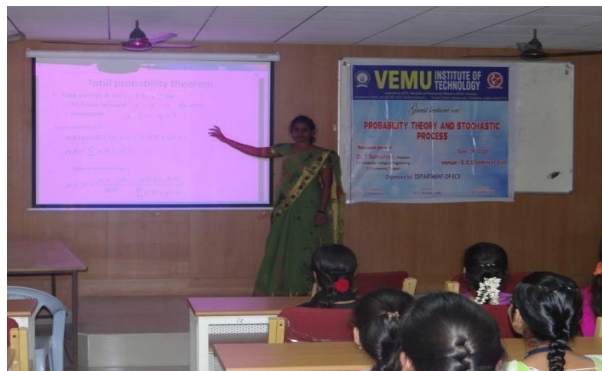


GUEST LECTURE

1. A Guest lecture on “Antenna Wave Propagation” was organized by ECE Department on 13th Sep 2017. Dr N.Radha Krishna Murthy, Professor, Department of ECE, Narayana Engineering College, Nellore is the speaker. This lecture session covered topics like Types of Antennas, Radiation Patterns, Wave Propagation, Antenna Measurements, Antenna arrays, Applications and advanced technologies used in antennas. A guest lecture on “Antenna Wave Propagation” was organized by ECE Department on 13th Sep 2017. Dr N.Radha Krishna Murthy, Professor, Department of ECE, Narayana Engineering College, Nellore is the speaker. This lecture session covered topics like Types of Antennas, Radiation Patterns, Wave Propagation, Antenna Measurements, Antenna arrays, Applications and advanced technologies used in antenna



2. A guest lecture on “Probability Theory and Stochastic Process” was organized by ECE Department on 18th Oct 2017. Dr T Ramashree, Professor, SV University College of Engineering, Tirupati is the speaker. This Lecture Session covered topics like Types of Antennas, Radiation Patterns, Wave Propagation, Antenna Measurements, Antenna arrays, Applications and advanced technologies using antennas.



FACULTY DEVELOPMENT PROGRAM

A one week faculty development program on “INTERNET OF THINGS” was conducted by the Department of ECE for the benefit of its faculty members. The resource person for this program is S. VISWAJEETH RANA, Application Engineer, “INNOVIANS TECHNOLOGIES”, Hyderabad. The program was aimed at knowing various IOT technologies. This program was useful to the faculty to enhance their skills.



PAPERS PUBLISHED BY THE FACULTY

1. H. Chandrasekhar of ECE Department published a paper titled “*Programmed Parking Space Detection and Tracking for Underground And Indoor Environments*” in IJSETR, DEC 2017, ISSN No 2319-8885, **Vol.6 (33)**.
2. R.Mallikarjuna Reddy of ECE Department published a paper titled “*Smart DRIP Irrigation System by Controlling ARM7*” In IJSETR, DEC 2017,ISSN No 2319-8885, **Vol.6 (33)**.
3. N. Kiran Kumar of ECE Department published a paper titled “*Advanced Wheel Chair Mechanism And Obstacle Sensing System*” In IJSETR, DEC 2017,ISSN No 2319-8885, **Vol.6 (33)**.
4. U.Somalatha of ECE Department published a paper titled “*VLSI Design of Low Power High Speed Parallel Self Timed Adder For ALU Processing Circuits*” In i-manager’s Journal on Circuits and Systems, Nov 2017,ISSN No 2321-7502, **Vol.5 (2)**, DOI <https://doi.org/10.26634/jcir.5.4.13942>

6. S. Chandana of ECE Department published a paper titled “*VLSI Design of Low Power High Speed Parallel Self Timed Adder For ALU Processing Circuits*” In i-manager’s Journal on Circuits and Systems, Nov 2017,ISSN No 2321-7502, **Vol.5 (2)**, DOI [https://doi.org/ 10.26634/jcir.5.4.13942](https://doi.org/10.26634/jcir.5.4.13942).
7. P.Lokesh of ECE Department published a paper titled “*VLSI Design of Low Power High Speed Parallel Self Timed Adder For ALU Processing Circuits*” In i-manager’s Journal on Circuits and Systems,Nov2017,ISSNNo 2321-7502, **Vol.5 (2)**, DOI <https://doi.org/10.26634/jcir.5.4.13942>
8. B. Saroja of ECE Department published a paper titled “*Adaptive Pillar K-Means Clustering-Based Colon Cancer Detection From Biopsy Samples With Outliers*” In Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization, Oct 2017, ISSN No 2168-1163,**Vol.7 (1)**, DOI 10.1080/ 21681163.2017.1350603
8. P. Lokesh of ECE Department published a paper titled “*VLSI Design of Pipelined ADC with Wide Range Operating Temperature for Wave Applications*” In i-manager’s Journal on Wireless Communication Networks, July 2017,ISSN No 2319-4839, **Vol.6 (2)**, DOI [https://doi.org/ 10.26634/jwcn.6.2.13965](https://doi.org/10.26634/jwcn.6.2.13965)
9. U. Somalatha of ECE Department published a paper titled “*VLSI Design of Pipelined ADC with Wide Range Operating Temperature for Wave Applications*” In i-manager’s Journal on Wireless Communication Networks, July 2017 ISSN No 2319-4839, **Vol.6 (2)**, DOI <https://doi.org/10.26634/jwcn.6.2.13965>
10. S. Chandana of ECE Department published a paper titled “*VLSI Design of Pipelined ADC with Wide Range Operating Temperature for Wave Applications*” In i-manager’s Journal on Wireless Communication Networks, July 2017 ISSN No 2319-4839, **Vol.6 (2)**, DOI [https://doi.org/ 10.26634/jwcn.6.2.13965](https://doi.org/10.26634/jwcn.6.2.13965)
11. M. Poornima of ECE Department published a paper titled “*VLSI Modeling of Low Power Razor Based Programmable Truncated Multiply And Accumulator For Efficient DSP*” In i-manager’s Journal on DSP, June 2017, ISSN No 2321-7480, **Vol.5 (2)**, DOI [https://doi.org/ 10.26634/jdp.5.2.13738](https://doi.org/10.26634/jdp.5.2.13738)
12. S. Chandana of ECE Department published a paper titled “*VLSI Modeling of High Performance DSP For Wireless Sensor Nodes*” In i-manager’s Journal on DSP, June 2017, ISSN No 2321-7480, **Vol.5 (2)**, DOI [https://doi.org/ 10.26634/jdp.5.2.13737](https://doi.org/10.26634/jdp.5.2.13737)
13. P. Lokesh of ECE Department published a paper titled “*VLSI Modeling of Low Power Razor Based Programmable Truncated Multiply And Accumulator For Efficient DSP*” In i-manager’s Journal on DSP, June 2017, ISSN No 2321-7480, **Vol.5 (2)**, DOI [https://doi.org/ 10.26634/jdp.5.2.13738](https://doi.org/10.26634/jdp.5.2.13738)
14. Muni Reddy. T of ECE Department published a paper titled “*VLSI Modeling of Low Power Razor Based Programmable Truncated Multiply And Accumulator For Efficient DSP*” In i-manager’s Journal on DSP, June 2017, ISSN No 2321-7480, **Vol.5 (2)**, DOI [https://doi.org/ 10.26634/jdp.5.2.13738](https://doi.org/10.26634/jdp.5.2.13738)
15. P. Lokesh of ECE Department published a paper titled “*VLSI Modeling of High Performance DSP For Wireless Sensor Nodes*” In i-manager’s Journal on DSP, June 2017, ISSN No 2321-7480, **Vol.5 (2)**, DOI [https://doi.org/ 10.26634/jdp.5.2.13737](https://doi.org/10.26634/jdp.5.2.13737)
16. U. Somalatha of ECE Department published a paper titled “*VLSI Modeling of High Performance DSP For Wireless Sensor Nodes*” In i-manager’s Journal on DSP, June 2017, ISSN No 2321-7480, **Vol.5 (2)**, DOI <https://doi.org/10.26634/jdp.5.2.13737>

SEMINAR

1. A Seminar on “Students Participation for Environment Protection” was conducted by the Department of CSE for the benefit of its students. The seminar was held on 30-12-2017. Dr. K. Jaya Raj, Scientist / Engineer, SB, NARL, Gadanki is the resource person. He emphasized on the need of everyone, in general and students, in particular about the participation for environment protection.



2. A Seminar on “Inspiring Students with Future Technology” was held on 11-10-2017 by the Department of CSE. All the B.Tech. CSE students have attended the seminar. Dr. Bhanu Prasad Pinnamaneni, Chief mentor, Jekson Vision USA is the speaker. He has deliberated on the future changes in the technology and how to bridge the gap between the academics and future technology.



3. The Department of Computer Science and Engineering has organized a seminar on “Parallel Computing Based Data Base Concepts & Database Management Systems”. The event was held on 31-08-2017. Mr J.Uday Kumar, Software Engineer, Tech Mahindra, Bangalore is the resource person. During his seminar he discussed about as to how to create a data base and the importance of database. Also, he clearly distinguished the difference between the virtual and manual data base and demonstrated the augmented reality data base management systems.



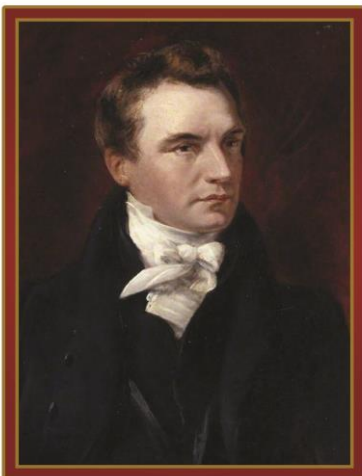
- Computer Science and Engineering Department has conducted a seminar on “Cloud Storage on Android with Firebase Mobile Application Development” for III and IV B.Tech CSE students. The seminar was organized on 19-10-2017. Mrs. V Lavanya, Software Developer, WIPRO, Bangalore is the speaker of the session. She clearly explained as to how to create a fire based mobile application. Also, discussed the importance of Android for mobile applications and the possible advancements that may take place in the days to come.



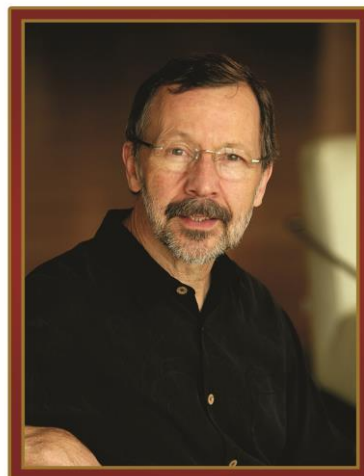
PAPERS PUBLISHED BY FACULTY

- V. Gowtham Prakash of CSE Department published a paper in International Journal of Engineering & Science Research and Development, IJESRD, Dec-17.
- A. Bhanu Prakash of CSE Department published a paper in International Journal of Engineering & Science Research and Development, IJESRD, Dec-17.
- B. Ram Ganesh of CSE Department published a paper in International Journal of Engineering & Science Research and Development, IJESRD, Dec-17.

SCIENTISTS OF CSE



BORN : 26 - 12 - 1791 Charles Babbage DIED : 18 - 10 - 1871
 He was an English polymath and mathematician, philosopher, and mechanical engineer. He was the "father of the computer". Babbage is credited with inventing the first mechanical computer that eventually led to more complex designs.



BORN : March 31, 1945 Edwin Catmull
 He is a computer scientist and current president of Walt Disney Animation Studios, DisneyToon Studios, and Pixar Animation Studios. As a computer scientist, Catmull has contributed to many important developments in computer graphics.



BORN : 28 - 10 - 1955 William Henry Bill Gates
 He is an American business magnate, philanthropist, investor, computer programmer, and inventor. Gates is the former chief executive and chairman of Microsoft, the world's largest personal-computer software company, which he co-founded with Paul Allen.

WORKSHOPS

A Work shop on “MATLAB Application to power systems “ was organized from 20/10/2017 to 22/10/2017. Dr.G.V.Marutheeshwar, Professor, S.V.University, Tirupathi and Mr.J.Sadasiva, Senior Engineer , Amaraja Electronics, Petamitta are the resource persons. The workshop helped the students to understand basics of MATLAB and its applications in Electrical Engineering.

SEMINARS

1. A Seminar on “Inspiring students with future technology” was organized for the benefit of EEE students UNDER Project Management and Finance by Dr. Bhanu Prasad Pinnamaneni, Chief Mentor, Zekson Vision, USA.
2. A Seminar on “Analysis of Electrical circuits using PSPICE “ was organized by the Department of EEE for the benefit of EEE students. The students were addressed by Mrs.B.Gamya, Assistant Professor, Dept. of EEE,VEMU IT.
3. A Seminar on “Need for students participation for environment protection” was arranged by the Department of EEE for its students. The resource person for the program is Dr. K. Jayaraj Scientist/Engineer SB,NARL, Gadanki.

GUEST LECTURES

1. A Guest lecture on “Issues and Challenges in Power Stations” was conducted by the Department of EEE for the benefit of their students. Er.K.Kuppaiah, ADE, APTRANSCO, Pulivendula, Kadapa is the speaker. He has provided significant information about the issues and challenges faced in Power Stations and discussed the ways to overcome the problems.
2. A Guest lecture on “An Approach to Energy Safety and Management” was organized by the Department of EEE. Er. K. Vasantha Lakshmi, AE, APSPDCL, Tirupati is the resource person. She discussed about the approaches to be adopted for effective energy management and discussed about energy safety methods to be followed.

CAREER GUIDANCE PROGRAMS

An Awareness Program on “Career Opportunities for Engineering students” was conducted by EEE Department for the benefit of their students in association with “The International Association of Engineers(IAENG). Dr.G.V.Marutheeswar, Professor and HOD, S.V.University College of Engineering, Tirupati is the speaker for the program. He has given valuable insights to the students about various career options for EEE students and how to build prospective career.

INTERSHIPS

A Total of six students have attended for one month internship at S.S. Lab Equipments, Hyderabad from 08-12-2017 to 04-01-2018.

INDUSTRIAL VISITS

Students of fourth year E.E.E. have visited the SHAR, ISRO, SRIHARIKOTA on 03/08/2017. The students came to know about history of developing satellites in India, Video of SHAR center, various satellite models and their applications. Mr.K.Dilli Babu, Assistant Professor, Department of EEE accompanied the students during the industrial visit.



FACULTY DEVELOPMENT PROGRAMMES

A One week faculty development programme on MATLAB was organized by the department of EEE in association with INNOVIANS Technologies, Hyderabad from 11th Dec 2017 to 16th Dec 2017. Mr. VISWAJEET. S. RANA was the resource person. The workshop helped the faculty in understanding various mathematical functions and their applications in Electrical Engineering.



PAPERS PUBLISHED BY FACULTY

1. Y.Nagarjuna Reddy, Analysis of adaptive power system with DC motor type dynamic Loads International Conference (I2C2'17) June-2017.
2. D.Chandra Sekhar, Modeling and direct torque control of induction motor by Using fuzzy logic control technique, National conference (NCRIET) Dec-2017.
3. C.MD.Shareef, A multi level converter with a floating bridge for open ended winding motor drive applications, IJSRSET **Vol.3 (8)**, PP 654-662, ISSN: 2395-1990, DEC-2017.
4. Y.P.Swapna, Control of parallel three phase PWM converters under generalized unbalance operating conditions, IJSETR, **Vol.6 (32)**, PP 6598-6609, ISSN:2319-8885, NOV-2017.
5. Y.P.Swapna and M. Murali, Improvement of power quality with back propagation based fuzzy logic controller for wind-DG micro-grid, IJIT, **Vol. 5 (11)**, PP 2473-2482, ISSN:.2321-8665, NOV-2017.
6. T Rajasekhar, Implementation of a standalone solar photo voltaic hybrid system using ANFIS controller, IJIT, **Vol.5 (11)**, PP 2483-2489, ISSN: 2321-8665, NOV-2017.
7. B Gamyra, An adoptive neuro fuzzy based grid tied PV system with MPPT technique using a Z-source inverter, IJSETR, **Vol. 6 (32)**, PP 6436-6444, ISSN:2319-8885, NOV-2017.
8. Dr. D. Obulesu, Fuzzy logic controlling strategy for a three phase grid connective photo voltaic wind hybrid system, IJSETR, **Vol. 6 (29)**, PP 5804-5814, ISSN: 2319-8885, SEP-2017.
9. A.Hema Sekhar, Optimal Location of Advanced Model of UPFC Device for Analyzing the Performance of Transmission System: A Hybrid DA-PSO Approach, IJCTA, **Vol. 10 (22)**, ISSN: 0974-5572, SEP-2017.
10. M.Murali, Grid connected photo voltaic (PV)- wind- battery with five level multi inverter for house hold appliances, IJSETR, **Vol. 6 (29)**, PP 5737-5741, ISSN:2319-8885, SEP-2017.
11. C.MD. Shareef, Power quality enhancement of smart house holds using a multi level THSeAF with an advanced controller, IJSETR, **Vol.6 (27)**, PP 5394-5402, ISSN:2319-8885, AUG-2017.
12. Dr.D.Obulesu, Adaptive PI Control of STATCOM for Voltage Regulation, IOSR-JEEE, **Vol. 12 (4)**, PP 01-10 ISSN:2320-3331, AUG-2017.
13. C.M,D.Shareef, Switched Reluctance Motor Driven Plug In Hybrid Electric Vehicle With Fuzzy Logic Controller, IJSETR, **Vol.6 (24)**, PP 4653-4663, ISSN: 2319-8885, JULY 2017.

STUDENTS ACTIVITIES

1. Three Students viz. C. Pavithra, K.Naveen and M. Mahesh of I B.Tech. EEE Department have participated in EITRONS-2K17(A National Level Technical Symposium) held on 28-10-2017 and is organized by Narayana Engineering College, Nellore.
2. Mr. P. Lokanadha Reddy of IV B.Tech. EEE has participated in a National Level Technical Symposium held at Madanapalle Institute of Technology & Science, Madanapalle held on 04-07-2017.

STUDENTS ACHIVEMENTS

1. Mr.R. Poorna Chandra and P.S. Uday Kumar of IV B.Tech. EEE has won first prize in a National Level Technical Symposium held at SVP CET, Puttur on 6th & 7th October 2017.
2. M. Sujatha, P.Lokanadha Reddy, K. Chaitanya Krishna and K. Hari Prasad of IV B.Tech EEE have participated in a project exhibition held at SITAMS, Chittoor. They got Best Project Award for their project titled, "Automatic Energy Meter Billing System with Theft Detection".
3. B. Lava Kumar, R. Poorna Chandra and K. Narasimhulu have participated in a project exhibition held at SIETK, Puttur. They got second best project award for their project titled, "Automatic power factor detector and corrector".

STUDENTS PUBLICATIONS

1. K Reddi Ekambaram, A multi level converter with a floating bridge for open ended winding motor drive applications, IJSRSET (International Journal of Scientific Research in Science, Engineering and Technology) **Vol.3 (8)**, PP 654-662, ISSN:2395-1990, DEC-2017.
2. M.Priya, Control of parallel three phase PWM converters under generalized unbalance operating conditions, IJSETR (International Journal Of Scientific Engineering And Technology Research) **Vol.6 (32)**, PP 6598-6609, ISSN:2319-8885, NOV-2017.
3. M.Dhanamjeya, Improvement of power quality with back propagation based fuzzy logic controller for wind-DG micro-grid, IJIT (International Journal of Innovative Technologies) **Vol.5 (11)**, PP 2473-2482, ISSN:2321-8665, NOV-2017.
4. G.Venkat Pavan, Implementation of a standalone solar photo voltaic hybrid system using ANFIS controller, IJIT (International Journal of Innovative Technologies) **Vol.5 (11)**, PP 2483-2489, ISSN:2321-8665, NOV-2017.
5. K.Gopi, An adoptive neuro fuzzy based grid tied PV system with MPPT technique using a Z-source inverter, IJSETR (International Journal of Scientific Engineering And Technology Research) **Vol.6 (32)**, PP 6436-6444, NOV-2017.
6. A.Hema Raj, Fuzzy logic controlling strategy for a three phase grid connective photo voltaic wind hybrid system, IJSETR (International Journal of Scientific Engineering And Technology Research) **Vol.6 (29)**, PP 5804-5814, ISSN: 2319-8885, SEP-2017.
7. K.Ayyappa, Grid connected photo voltaic (PV)- wind- battery with five level multi inverter for house hold appliances, IJSETR (International Journal of Scientific Engineering And Technology Research) **Vol.6 (29)**, PP 5737-5741, ISSN:2319-8885, SEP-2017.
8. N.Naresh, Power quality enhancement of smart house holds using a multi level THSeAF with an advanced controller ,IJSETR (International Journal of Scientific Engineering And Technology Research) **Vol.6 (27)**, PP 5394-5402, ISSN:2319-8885, AUG-2017.

9. G.Varaprasad, Adaptive PI Control of STATCOM for Voltage Regulation IOSR-JEEE (IOSR Journal Of Electrical And Electronics Engineering), **Vol.12 (4)**, 01-102320-3331,AUG-2017.
10. B.Pavan Kumar Reddy, Switched Reluctance Motor Driven Plug In Hybrid Electric Vehicle With Fuzzy Logic Controller, IJSETR (International Journal Of Scientific Engineering And Technology Research), **Vol.6 (24)**, PP 4653-4663, ISSN:2319-8885, JULY 2017.
11. C.K.Thulasimala, Harmonic reduction strategy of Z-Source inverter fed brushless DC motor using harmonic filter, IJSETR(International Journal Of Scientific Engineering And Technology Research), **Vol.7 (5)**, PP 1013-1017, ISSN:2311-8885 .
12. K Reddi Ekambaram, A multi level converter with a floating bridge for open ended winding motor drive applications, IJSRSET(International Journal of Scientific Research in Science, Engineering and Technology), **Vol.3 (8)**, PP 654-662, ISSN:2395-1990 , DEC-2017.

VIRTUAL LABORATORY

Students E.E.E. department have registered for Virtual Laboratory. It helps the students to understand the need for carrying out a particular experiment, its applications, procedure for conducting the experiment etc., as a pre-study before carrying out the experiments in regular laboratories.

PAVAN EMPOWER SOLUTIONS LAB



TRANSFORMER MANUFACTURING LAB



SR UNIQUE SOLUTIONS



WORKSHOP

The Department of Mechanical Engineering has organized a one week workshop on CATIA Modeling from 14-08-2017 to 18-08-2017 in association with Andhra Pradesh State Skill Development Corporation (APSSDC). The workshop was conducted for the benefit of IV B.Tech. Mechanical Engineering Students. The workshop has helped in understanding and utilizing the various tools used in sketcher module and assembling the parts. Mr. K. Balaji and Mr.G. Ramesh, Assistant Professors in the Department of Mechanical Engineering have co-ordinated the workshop.



GUEST LECTURE

A Guest lecture was conducted on Latest Trends in Automobile Engineering by the Department of Mechanical Engineering on 21-10-2017. Dr. S. Naveen kumar, Associate Professor in the Department of Mechanical Engineering, SVCET , Chittor is the resource person. IV B.Tech students got benefited from this lecture. After the lecture, the students are able to address the regular problems in Automobiles and came to know about the recent advancements in Automobile Engineering.



FDP ORGANIZED

The Department of Mechanical Engineering has organized a one week Faculty development program on CFD (Computational Fluid Dynamics) from 04-12-2017 to 9-12-2017. Mr. S. MOSEEB BASHA, Head, Training Division, CADD CENTRE, Chennai, is the resource person. All the faculty members of the department have attended the FDP. At the end of the FDP, the faculty members are able to use CFD for analyzing the problems of fluid flow.



PAPERS PUBLISHED BY FACULTY

1. P. Ajay Kumar, M. Dora Babu, G. Ramesh, K. Balaji of ME Department published a paper titled "*Development and Analysis of Wind Mill Blade*" in International Journal of Innovative Technology and Research (IJITR), June- July 2017, ISSN No-2320-5547.
2. M. Dilip Kumar, K. Sai Rohith, E. Anand Kumar of ME Department published a paper titled "*Fabrication of Auto roll Punching Machine*" in International Journal of Engineering Reaearch and Tehnology (IJERT), July 2017, ISSN No- 2278 – 0181
3. M. Narendra, K. Balaji, G. Ramesh of ME Department published a paper titled "*Design and Analysis of Load Carrying Trolley*" in International Journal for Scientific Research & Development, Aug 2017, ISSN No- 2321-0613

GUEST LECTURE

A Guest lecture on Intelligent Transportation System was organized by the Department of Civil Engineering. The guest lecture was held on 15-10-2017. The III & IV B.Tech Civil Engineering students got benefited from this guest lecture. Dr. S.V. Vasantha Kumar, Associate Professor, VIT University is the speaker.

After the guest lecture the students are able to understand that, the Intelligent Transport System is designed for the urban / state / private road transport organization and it provides an efficient solution for transport companies to schedule and monitor vehicles with the help of advanced technologies such as GPS, Wi-Fi and GPRS. The speaker stressed that, travel time estimation and mobility is an integral part of transportation management of any modern society. The use of advanced technologies in collecting travel time information has been a major concern for transportation engineers and system operators who rely on such data to improve safety and emergency response of the transportation system.

At the end, he discussed the importance of traffic congestion in designing an intelligent transportation system as the congestion is increasing worldwide as a result of increased motorization, urbanization, population growth and changes in population density.

FDP ORGANIZED

The Department of Civil engineering has conducted a one week Faculty Development Program on BIM with Revit from 28-12-2017 to 02-01-2018. Mr. Kumaran Raja and Mr. Basith Ahmed are the resource persons and are from KKM Soft, Hyderabad. In this FDP, the faculty members are exposed to the creation of 3D building modeling and design. Also, they are able to appreciate the difference and similarities between BIM and Revit. It is useful to civil engineers as it helps deliver the best performance by making virtual representation of building products. With Revit, we are able to design and develop a 3D Model. The FDP has provided valuable insights on individual product specifications of the building such as tolerance, color, cost and other information so as to make informal decisions.



FDP ATTENDED

1. Mr.M Vinod Kumar, Assistant Professor in the Department of Civil engineering has attended for Faculty Development Program on REPAIR and RETROFITTING ON RC STRUCTURES from 20/11/2017 to 02/12/2017. The FDP was organized by SVCET, Chittoor. This FDP has helped in understanding the modification methods to encounter the existing problems of RC structures.
2. S Padmaja, Assistant Professor in the Department of Civil Engineering has attended for a Faculty Development Program on Applications of ANSYS in Civil Engineering from 27/11/2017 to 02/12/2017. The FDP was organized by Vardhaman Engineering College, Hyderabad. The purpose of this FDP is to create awareness in the faculty about the applications of ANSYS in analyzing the structures.

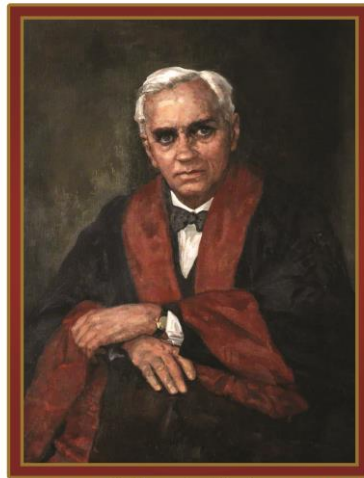
TOPPERS LIST

Name of the Student	Roll No.	Year/Sem	Percentage	Rank
C Thulasi	174M1A0108	II/I	85.125	First
A.Kiran	184M5A0101		83.5	Second
K.C.Swathi	174M5A0114	III/I	85.12	First
B.Vani	174M5A0102		80.87	Second
G.Sasikumar	154M1A0110	IV/I	81.44	First
V.Kumar	164M5A0112		76.2	Second

SCIENTISTS OF CE



BORN : 9 - 06 - 1781 George Stephenson DIED : 12 - 08 - 1848
 He was an English civil engineer and mechanical engineer who built the first public inter-city railway line in the world to use steam locomotives, the Liverpool and Manchester Railway which opened in 1825. Renowned as the "Father of Railways" and was the founder of the Institution of Mechanical Engineers



BORN : 6 - 08 - 1881 Sir Alexander Fleming DIED : 11 - 03 - 1955
 He was a Scottish biologist, pharmacologist and botanist. His known discoveries are substance penicillin in 1928, the Nobel Prize in Physiology or Medicine in 1945 with Howard Florey and Ernst Boris Chain



BORN : 5 - 07 - 1820 William John Macquorn Rankine DIED : 24 - 12 - 1872
 He was a Scottish civil engineer, physicist and mathematician. He was a founding contributor, with Rudolf Clausius and William Thomson (Lord Kelvin), to the science of thermodynamics, particularly focusing on the first of the three thermodynamic laws.

ORIENTATION PROGRAMME

The Department of H&S organized Orientation Program for I B.Tech students on 6th July, 2017 in VEMU IT auditorium. This program helped students gather information about the campus, resources available, provision of facilities, classroom activities, teaching methodology through Instructional Techniques, Interactive Patterns, academic data like pattern of examination, score of marks, scheme of evaluation and how to standardize professionalism. Mr. Sudheer Sandra, Impact Speaker and Personality Development Trainer was the Chief Guest of the function. He conducted sessions on Life Skills activities and gave awareness on how to develop skills. His inspiring speech encouraged the students. Dr. K. Chandra Sekhar Naidu, the Chairman of VEMU IT addressed the splendid gathering and shared his pearl of words.



FRESHER'S DAY



As a part of interactive activity and to develop interactive relationship and co-ordination among the I.B.Tech and the II B.Tech students, the department conducted Fresher's Day on 19th August, 2017. Sri. Lakshmi Narayana, IAS was the Honorable Chief Guest of this program. He inspired and motivated the students with his awe-some speech. His note on skill development and values of education was remarkable. The Guest of Honor, Dr. K.Chandra Sekhar Naidu also made a flowery speech. This event led to mutual understanding among students. It was a grand scale of celebration with a lot of pomp and show. The students exposed their hidden talents by performing group dances. One item of performance surpassed the other. All the performances of the students highlighted the occasion.



TEACHER'S DAY

The Students of I B.Tech of the department celebrated Teacher's Day on Sept. 5, 2017 to commemorate the accomplishments of the Great Teacher Sri Sarvepalli Radhakrishnan. The I.B.Tech students organized this program with due respect and regard to their teachers. This occasion enhanced intimacy among the faculty and students. Our Chairman Dr. K.Chandra Sekhar Naidu was the Chief Guest of the occasion. He highlighted the significance of the day and guided a few tips to students on How to be a Studious Student. He added 'Guru' is the first guide and teacher who paves a path to reach destiny. The Chairman also hallmarked the need to be obedient, disciplined and faithful in his noteworthy speech. As a part of fun, the students conducted a few competitions to teachers.



ENGINEER'S DAY

The Department of H&S organized Engineers' Day on Sept. 15, 2017. Dr. Manas Ranjan Padhy was the Chief guest of the function. This occasion was conducted to memorize the accomplishments and contributions of Dr. Mokshagundam Viswesvaraya, Civil Engineer, the Icon of India. The first year students learnt the significance of the day. They made the day remarkable by participating in Poster Presentation, Power Point Presentation and other activities. The best performers were given mementos as a token of appreciation.



EXTRA-CURRICULAR & CO-CURRICULAR ACTIVITIES

The Department of H&S usually allots one class on Saturdays for conducting Extra-Curricular and Co-Curricular activities. All the activities are interactive. Literary Competitions like Elocution, Debate, Essay Writing, Extempore, Quiz and Cultural Competitions like Dumb Charade, Anthyashari, Dance and Singing Competitions were conducted. It was a recreation and most entertained program with a source of inspiration and encouragement to the students. This program enhanced the skills and confidence among students.



FACULTY ACHIEVEMENTS

Ms. Y.Sailakshmi, Associate Professor in English participated in the 12 -Day Master Trainer Training Program conducted by APSICHE & British Council from 15th to 20th May, 2017 & 29th May to 3rd June, 2017. She got certified as the Master Trainer and cascaded training to the teachers of SPMVV as a part of the Andhra Pradesh Higher Education English Communication Skills Project.

TOPPERS LIST

2017-2018 SEM-I

It is a matter of great pride that the academic outstanding performance of our students has brought laurels to the institution. They moved heaven and earth by securing distinction marks and bagging up university ranks in the end examinations.

The following students are the academic toppers of their respective branches. They proved their academic excellence in the external examinations conducted during 2017-2018, semester I.



K NAGESWARI
164M1A0441
ECE-A
90.38 %



S. YOGENDRA
164M1A0347
ME
84.13 %



V. T. TARUN
164M1A0244
EEE
87.00 %



S. SAI PRATHAP
164M1A0495
ECE-B
84.75 %



M. TARUN
164M1A05B0
CSE-A
83.00 %



S. LAKSHMI PRIYA
164M1A0132
77.38 %



V.T. TAPAN
164M1A0556
83.88 %

DEPARTMENT OF MBA

GUEST LECTURE

A Guest lecture on “Impact of social media in commerce” was organized by the department of MBA. Dr..Harshavardhan, Manager, ITCOT consultancy, Chennai, is the speaker. The lecture was concentrated on the impact of social media on banking. Also, how the social media influenced the existence and survival of commerce in the competitive society. M.Praveen Kumar, Assistant Professor and C.Bhupathi, Assistant Professor Department of MBA Co-ordinated this programme



FRESHER'S DAY



Fresher's Day is celebrated in a memorable way. It is a custom in VEMU IT to invite the juniors to VEMU family by celebrating fresher's day in a grand way. MBA freshers have received a wonderful welcome by their seniors and interacted with each other in a cordial manner. The senior students have shared their experiences with juniors. Dr.K.Chandrasekhar Naidu, Honourable Chairman of VEMU IT, Principal and HOD grace the occasion with their future endowment.

TEACHER'S DAY

Teacher is one who always inspires and stimulates the minds of disciples”. The department of MBA celebrated Teacher's day on 5th September 2017. The students expressed their opinions about their best teachers. As a part of celebrations the department conducted Teachers day best message contest in association with ICFAI. Winners are appreciated by distributing prizes.



ASSOCIATION ACTIVITIES



The Department of MBA has realized that, acquiring and developing practical exposure in the field of management is essential to become a successful MBA graduate. To achieve this, the department organizes various association activities. Business quiz activity was conducted for the Junior & Senior MBA students on 23rd November 2017. The students have participated with lot of enthusiasm and the winners were given prizes.

AIMS NATIONAL MANAGEMENT WEEK

Association of Institution of Management Schools is a well known association in India. Most of the top business schools are members in this association. AIMS has conducted a week long program in SV University, Tirupathi. The program was held from 17-12-2017 to 22-12-2017. The program is aimed at creating awareness in the management students about the modern trends in management. During the program, the students are made to practice case studies on various management techniques. About 32 students from II MBA have participated in the event.



TOPPERS LIST

II SEM RESULTS



B. RUPA
164M1E0012
MBA I SEM
708



C. NEERAJA
164M1E0024
MBA I SEM
699



G. P. KEERTHY
164M1E0030
MBA I SEM
692



G. SUMA
164M1E0035
MBA I SEM
685



K. SUNEEL
164M1E0065
MBA I SEM
682



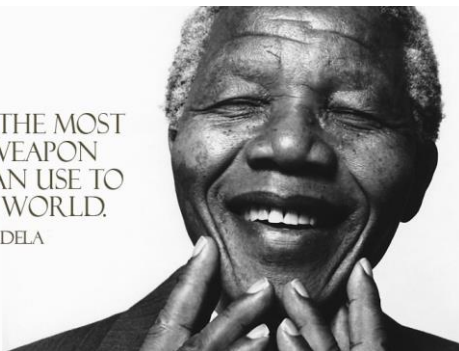
Purpose of Education is to
moralize and socialize
the people.

- Dr. B. R. Ambedkar

PLACED STUDENTS DATA

S. No	Name of the Company	Date	Total	Package
1	GLENWOOD	25-10-2017	6	3.2 LPA
2	VEE Technologies	17-10-2017	15	1.8 LPA
3	ESTES	12-10-2017	7	1.8 LPA
4	Sutherland	22-12-2017	3	2.5 LPA
5	Sphere Soft India Pvt Ltd	20-12-2017	4	2.4 LPA
6	GGK Technologies	30-07-2017	3	3.6 LPA
7	Accurate Steel Forgings	12-09-2017	10	1.6 LPA
8	Go Speedy Go	22-12-2017	5	4.2 LPA
9	Eligo Health	23-12-2017	10	1.8 LPA
10	ILM	23-12-2017	45	2.0 LPA
Total			108	

EDUCATION IS THE MOST
POWERFUL WEAPON
WHICH YOU CAN USE TO
CHANGE THE WORLD.
NELSON MANDELA



QUALITIES OF EFFECTIVE TEACHERS

Several specific characteristics of teacher responsibilities and behaviors that contribute directly to effective teaching are listed for each of the following categories:

I. THE TEACHER AS A PERSON

- Assumes ownership for the classroom and the student's success
- Uses personal experiences as examples in teaching
- Understand feelings of students
- Communicates clearly
- Admits to mistakes and corrects them immediately
- Thinks about and reflects on practice
- Displays a sense of humor
- Dresses appropriately for the position
- Maintains confidential trust and respect
- Is structured, yet flexible and spontaneous
- Is responsive to situations and students' needs
- Enjoys teaching and expects students to enjoy learning
- Looks for the win-win solution in conflict situations
- Listens attentively to student questions and comments.
- Responds to students with respect, even in difficult situations
- Communicates high expectations consistently
- Conducts one-on-one conversations with students
- Treats students equally and fairly
- Has positive dialogue and interactions with students outside the classroom
- Invests time with single students or small groups of students outside the classroom
- Maintains a professional manner at all times

II. CLASSROOM MANAGEMENT AND ORGANIZATION

- Positions chairs in groups or around tables to promote interaction
- Manages classroom procedures to facilitate smooth transitions, instructional groups, procurement of materials and supplies, and supervision of volunteers and paraprofessionals in the classroom
- Manages student behavior through clear expectations and firm and consistent responses to student actions
- Covers walls with student work, student made signs, memos, and calendars of student events
- Has students welcome visitors and observers and explain activities
- Emphasizes students addressing one another in a positive and respectful manner
- Encourages interactions and allows low hum of conversations about activities or tasks
- Manages emergency situations as they occur
- Maintains acceptable personal work space
- Provides positive reinforcement and feedback
- Disciplines students with dignity and respect
- Posts appropriate safety procedures

III. ORGANIZING AND ORIENTING FOR INSTRUCTION

A. Positive Qualities

- Lesson plans are written for every school day
- Students know the daily plan because an agenda of objectives and activities is given
- Student assessment and diagnostic data are available
- Assessment data and pretest results are included in the preparation of lesson plans
- Lesson plans are aligned with division curriculum guides
- Teacher-developed assessments are aligned with curriculum guides
- State learning objectives are incorporated into lesson plans

- Lesson plans have clearly stated objectives
- Lesson plans include use of available materials
- Lesson plans include activities and strategies to engage students of various ability levels
- Lesson plans include required accommodations for students with special needs
- State standards are posted in classroom

IV. IMPLEMENTING INSTRUCTION

- Uses student questions to guide the lesson
- Uses pre-assessments to guide instruction
- Develops elements of an effective lesson
- Uses established routines to capture more class time (e.g., students have roles to play, such as passing out materials so the teacher need not stop the momentum of the lesson)
- Incorporates higher-order thinking strategies
- Uses a variety of activities and strategies to engage students
- Monitors student engagement in all activities and strategies
- Has high numbers of students actively engaged in the class continuously
- Adjusts the delivery and pacing of the lesson in response to student cues
- Student-centered classroom rather than teacher-centered classroom
- Provides feedback (verbal, nonverbal, and written)
- Designs and bases assignments on objectives

V. MONITORING STUDENT PROGRESS AND POTENTIAL

- Enables students to track their own performances
- Grades homework, oral and written feedback
- Documents student progress and achievement
- Makes instructional decisions based on student achievement data analysis
- Circulates in the room to assist students and provide praise
- Keeps a log of parent communication
- Records team conference or teacher conference with students
- Gives assessments on a regular basis
- Uses rubrics for student assignments, products, and projects
- Practices differentiated instruction based on assessment analysis
- Exercises testing accommodations for special-needs students
- Maintains copies of all correspondence (written, e-mail,) concerning student progress
- Holds teacher-parent-student conferences and meetings
- Produces class newsletters
- Invites parents and guests to special class events

VI. PROFESSIONALISM

- Practices honest two-way communication between teacher and administrators
- Communicates with families of students
- Maintains accurate records
- Reflects on teaching, personally and with peers
- Attends grade-level meetings; is a team player
- Attends and participates in faculty and other school committee meetings
- Implements school and school district goals and policies
- Acts “globally” around the school for the benefit of the whole school
- Seeks leadership roles on school committees and teams
- Works collaboratively with faculty and staff
- Attends professional development opportunities (e.g., conferences, graduate classes, workshops)
- Writes constructive, grammatically correct communications
- Submits grades on time



VEMU INSTITUTE OF TECHNOLOGY

NEWSLETTER

NEWSLETTER | VOLUME 6 | ISSUE 2 | JULY-DECEMBER 2017

EDITORIAL BOARD

Chief Editor	:	Dr. K V N V N Rao, Prof. & HoD, ME Department
Editor(s)	:	Mr. P.H. Chandra Mouli, Assistant Professor, ECE Department
		Mr. P. Bhanu Prakash, Assistant Professor, CSE Department
		Miss. V. Geetha, Assistant Professor, EEE Department
		Mr. P. Bhaskara, Assistant Professor, ME Department
		Miss. M. Nohitha, Assistant Professor, CE Department
		Mrs. Y. Sai Lakshmi, Associate Professor, H&S Department
		Mr. C. Bhupathi, Associate Professor, MBA Department
		Miss. N. Jyothsna, Student, ECE Department
		Mr. R. Pavithran, Student, ECE Department
		Miss. L. Kusuma, Student, CSE Department
		Miss. S. Giritha, Student, CSE Department
		Mr. B. Venkat, Student, EEE Department
		Mr. E. Reddy Chandu, Student, EEE Department
		Miss. M. Pooja, Student, ME Department
		Mr. K. Munna Mustaq, Student, ME Department
		Miss. K. Lasya, Student, CE Department
		Miss. S. Rajya Lakshmi, Student, CE Department
		Miss. C. Neeraj, Student, MBA Department
		Mr. T. Dhananjay, Student, MBA Department

VEMU INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi and Permanently Affiliated to JNTUA, Anantapuram
Accredited by NAAC and Recognized Under 2 (f) and 12 (B) UGC ACT
(An ISO 9001:2015 Certified Institution)

Tirupati-Chittoor Highway Road, P. Kothakota, Chittoor Dist-517112

Phone: 8886661148, 8886661149, 8886661150

vemu.org