



Anil Neerukonda Institute of Technology and Sciences
(UGC Autonomous)
(Permanently affiliated to Andhra University Approved by AICTE, accredited by
NBA and NAAC 'A' Grade)
Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam Dist, A.P.

Department of Electrical and Electronics Engineering
Annual News Letter 2017-2018

Chief Patron:

Dr.N.B.R.Prasad,

Chairman, ANES

Patron:

Prof.T.Subrahmanyam

Principal, ANITS

Advisor:

Prof.T.V.Hanumantha Rao

Dean, Academic Affairs

Hod:

Prof.G.Raja Rao

Editorial Board:

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Assistant Professor,



The Department of EEE, Anil Neerukonda Institute of Technology and Sciences (Autonomous), Visakhapatnam was established in 2001 with the approval of the All India Council for Technology Education (AICTE), New Delhi and the Government of Andhra Pradesh and is affiliated to Andhra University (AU) with an intake of 40 students and later increased to 60 in the year 2002-03. The intake further increased to 120 and 180 in the years 2009-10 and 2014-15 respectively. The UG program in EEE department was accredited by NBA in July 2008 for three years and was re-accredited in August 2013. A PG course with CONTROL SYSTEMS specialization is also being offered by the department with an intake of 18. The department was granted recognition as a research center to provide guidance to full time / part-time Ph. D. scholars.

News Letter 2017-2018

DEPARTMENT OF EEE

TESTIMONIAL

LIST OF FACULTY

1 Dr. G. Raja Rao Professor & HOD	21 Mr. V. Anil Kumar Assistant Professor
2 Mr. V. Murali Associate Professor	22 Mr. N. Kiran Assistant Professor
3 Mr. S. Bala Murali Associate Professor	23 Mr. J. Uday Venkatesh Assistant Professor
4 Dr. J. Vijay Kumar Associate Professor	24 Mr. Narayana Divakar R V L AsstProfessor
5 Mr. Kottala Kiran Kumar Assistant Professor	25 Mrs. T.V. Subhashini Assistant Professor
6 Mrs. K.V.R. Swathi Assistant Professor	26 Mr. E. Appanna Assistant Professor
7 Mr. Kavala Kiran Kumar Assistant Professor	27 Mr. G. Yedukondalu Assistant Professor
8 Mr. B. Raja Sekhar Assistant Professor	28 Mr. T. Subrahmanyam Assistant Professor
9 Mr. R. Satish Assistant Professor	29 Mr. B. Tulasi Rao Assistant Professor
10 Ms. K. Lavanya Assistant Professor	30 Mr. S.J.V. Prakash Assistant Professor
11 Mr. Ch.V. N. Raja Assistant Professor	31 Mr. P. Naresh Kumar Assistant Professor
12 Mr. M. Sudheer Kumar Assistant Professor	32 Mr. K. Naresh Kumar Assistant Professor
13 Mr. K. Trinadh Babu Assistant Professor	33 Mr. M. Divakar Assistant Professor
14 Mr. L. Dinesh Assistant Professor	34 Mr. B. Satyanarayana Assistant Professor
15 Mr. S. Harish Assistant Professor	35 Mr. Lolla Phani Raghav Assistant Professor
16 Mr. A. Dhanamjaya Apparao Asst Prof	36 Mr. Arardhi Venkata Praveen Asst Prof
17 Mr. L. Vijay Assistant Professor	37 Mr. Patnana Hema Kumar Assistant Professor
18 Ms. A.S. Anitha Nair Assistant Professor	38 Mr. Guna Naga Venkata Mohan Asst Prof
19 Ms. D. Sri Lakshmi Assistant Professor	39 Mr. Nishant Patnaik Assistant Professor
20 Ms. V. Rangavalli Assistant Professor	-

FACILITIES IN THE DEPARTMENT

No. of class rooms	12
No. of labs	Electrical Machines Lab (both DC and AC) 3 Power Electronic Lab 1 DEMP Lab 1 Network and Measurements Lab 1 Network Lab 1 Electrical Measurements Lab 1 Control System Lab 1
No. of Software lab	1 Simulation Lab

GUEST LECTURES ORGANIZED

✚ An Expert lecture on ‘Load Scheduling and Power Tariff’ by Sri A. Ramesh, D.E.(load despatch), APTRANSCO, Hyderabad has been arranged on 8th December 2017. The faculty of EEE and students of 4/4 EEE have attended the talk. This program aimed to raise the knowledge over load scheduling in power sector.



✚ Mr. K. Venkateswara Rao, alumnus of EEE (2008-12 batch, 690652026) presently working as Senior Engineer at BGR Energy Systems Limited has interacted with the final year students and gave a guest talk on “Industrial Automation” on 28th July 2017.

✚ An Guest Lecture on “Fundamentals of power electronics based electrical drives” by Dr. Vinay Kumar T, Assistant Professor, NIT-Warangal has been arranged on 09-12-2017. The students of IV/IV EEE and faculty have attended the talk.

✚ Er. B. Ramesh Prasad, Executive Director (World Bank Projects), APEPDCL, Visakhapatnam has delivered a keynote lecture on ‘Restore Electrical Power Supply’ on 6th March 2018. In his address the chief guest mentioned the steps taken to restore electrical power supply after Hud Hud and advised the budding engineers to be ready to deal with any type of electrical emergencies.

ALUMNI STUDENT INTERACTION



Mr.V.Raghu Ram, Alumni of Dept of EEE currently working as an executive engineer in ONGC Mumbai on Network solutions has contributed a guest lecture on 17th February 2018 to the 3rd year EEE students on the topic of “**Sustainable Development in ONGC Industry**”. He has given a spotlight on new developments required for current industry era. A good interaction had happened with the students and they clarified for various doubts on their carrier.

ACADEMIC PLANNING & MONITORING COMMITTEE (APMC)

The Department of EEE, ANITS APMC committee is responsible for planning important agenda in the scope and limit of the department, simultaneously monitoring the activities and corresponding results emerging in due course from every other committee of the department as well. One of the important objective is to improve the overall quality of the department towards achieving an increasing trend in the progress rate of attaining the program outcomes(POs). The scopes of the committee include but not restricted to planning for the academic year ahead, review and analysis of last academic year, fixing of the PO attainment level, planning for seminars, conferences, faculty

development programs, planning student training events etc.

The APMC meeting for 2017-18 was organized in April-2017, July-2017, and February-2018. Main agenda for these meetings were CO analysis for 2016-17, PO attainment analysis for 2016-17, PSO analysis, and Modification of rules for identifying weak and strong students. The PO attainment level was increased from minimum level of 60% to 65% as a quantified improvement in the students' performance was observed. Few of the students who have not attained the PO level need to be taken care by the subject teachers and corresponding proctors. Identifying the weak students was decided to take those students securing less than 40% marks in the internal assessment exams. Another agenda was conducting remedial classes for those students who have backlogs. As part of other agenda, it was decided to encourage the faculty members and students as well to publish sufficient number of research papers in referred journals. Presently, the remedial classes is coordinated by Mr. L. Vijay

BOARD OF STUDIES MEETING



4th Board of Studies meeting was held on April 28 2018 at 10:30 a.m. in simulation lab with the agenda review of autonomous syllabus final year Sem I and II model curriculum was proposed by the following members Dr.G.Raja Rao Chairman BOS HOD EEE. Prof R.Govardhan Rao Prof EEE, Prof.B.M.Mohan Dept of EE IIT Kharagpur as Academic Council Nominee, Prof Debapriya Das Dept of EE IIT Kharagpur as Academic Council Nominee, Prof G.V.Siva Krishna Rao Dept of EE A.U as University Nominee, Sri B.Srinivas Reddy AGM RINL VSP as Industry Member. Sri P.Santosh Kumar Manager L&T Chennai as Alumni. Sri K.Anil Kumar Asst.Manager RINL VSP as Special Invitee, Associate Professor of EEE and group coordinates as members.

ORIENTATION PROGRAM

Orientation Program for First year students for the admitted batch 2017-18 was organized by the Department of EEE on 07th October 2017. HOD,EEE introduced the faculty and various facilities provided by the college to the students in their four years of engineering life. First year students were performed various activities like dancing and singing. Second Year students interacted with freshers and they gave an insight of career opportunities and student life at ANITS campus.

STUDENT SYMPOSIUM



The Department of Electrical & Electronics Engineering, Anil Neerukonda Institute of Technology and Sciences (ANITS) has organized the 11th National Level Student Technical Symposium “ARC-18” during 6th & 7th March 2018. Mr. B. Ramesh Prasad, Executive Director (World Bank Projects), APEPDCL, VSKP is the chief guest for the Inaugural function on 6th March 2018. In his address the chief guest mentioned the steps taken to restore electrical power supply after Hud Hud and advised the budding engineers to be ready to deal with any type of electrical emergencies. **Dr. G. Raja Rao**, Convener ARC 2K18, in-charge Principal and HOD of EEE spoke on the events to be conducted during the symposium and advised the students to make use of this platform for enhancement of knowledge. **Prof. R. Govardhana Rao**, Senior Professor and other professors attended the inaugural function.



TECHNICAL EVENTS UNDER ARC 2K18



Ensemble



The Department of EEE conducted a technical event “ENSEMBLE” which was a perfect platform for the geeks to exercise their brains; a 2 hour contest was conducted for critical thinkers. Above 100 students have participated and were given model and will be hidden and the students should design the model the best would be awarded a prize amount of 2000/- The contest was executed for 2 days.

Paper Presentation

A Platform was provided to the participants to showcase the presentation skills and technical knowledge. A huge response was received by the students. Around 100 abstracts were thoroughly reviewed by the expert's team and they selected 50 abstracts for presenting on the day of the event which was conducted on 6th and 7th March 2018. The winners were awarded with cash prize amount of Rs.2000/-.



Technical Quiz

An Technical Quizis conducted on 7th March 2018 to enhance the technical knowledge of the students. A huge enthusiasm shown by the students to exhibit their technical skills in which 200 students participated and winners were appreciated with awards.



NON TECHNICAL EVENTS

Various non technical events were also conducted such as games(cricket, counter strike

etc),spot events, summit(a debate on spot given topic) to encourage the students in their interested fields. The stalls were being exhibited by the students to showcase their talents in making crafts, cooking, business models etc.

Cultural Event

The cultural event was conducted on 7th March 2018 to showcase the student performance like singing, solo dance, group dance, rock band etc.



The valedictory of ARC 2K18, was graced by, Prof.(Dr.) T.V.Hanumantha Rao, Principal, Prof.(Dr.) G. Raja Rao HOD,EEE and Mr. R. Govardhan Rao,Senior Professor shared the dais. The enthusiasm of the students in participating took the energy of the department up to a new

level. The effort put in by the faculties, students and with the support of college management has thus transformed into a successful event.

INSTITUTE OF ENGINEERS (INDIA) Student Chapter Activates:

The Student Chapter, Institute of Engineers(India) ,Department of EEE, Anil Neerukonda Institute of Technology and Sciences(ANITS) celebrated Engineer's Day on 15th September,2017to commemorate the birth anniversary of Sir Mokshagundam Visweswarayya, with a row of events that enlightened the budding engineers. ANITS which has always proved itself in providing smart & efficient technocrats to the country, acknowledged the work of the great engineer Sir Mokshagundam Visweswarayya by celebrating this day jubilantly. It gave an opportunity to everyone to remember and cherish the works of Sir Visveswarayya. Prof.R.Govardhana Rao, Director(Admin) of ANITS paid tributes to Sir.MokshagundamVisweswarayya, in all respects and expressed that the budding engineers should learn a lot from the life of that legendary engineer. He motivated all the students to be innovative in their pursuit of achieving their goals by strictly adhering to the basics. Dr.G.Raja Rao,Head of the Department,EEE said that every engineer has a great responsibility in the Nation building. He also inspired the budding engineers to show up their great intelligence and courage to tackle the challenges ahead in the technology. He also revealed how the society desperately needs the quality engineers to meet the requirements of the exponentially growing needs of the industry, and wished all the engineers to live up to such expectations.

The Technical events were organized by A.S.AnithaNair,Faculty Adviser, Student Chapter, EEE department. The session was ended up with distribution of prizes for winners in Technical Quiz and Technical poster presentation conducted prior.



FACULTY PUBLICATIONS :

1. Mr. N. Kiran Asst. Professor has submitted a research paper entitled "Simulation of ZVS CUK Converter using PSIM" in the proceedings of **International Journal of Research in Electrical Engineering (IJREE)** January 2017, Vol. 4, Issue. 1, pp. 25-27. ISSN : 2349-2503.
2. Mr. A. Dhananjaya Apparao, Mr. N. Kiran and Mr. V. Anil Kumar Asst. Professors have submitted a research paper entitled "Identification of Faults on Transmission Lines using Wavelet Technique" in the proceedings of **International Journal of Trend in Research and Development (IJTRD)**, March / April 2017 Vol. 4, Issue. 2,

- pp. 32-36. ISSN: 2394-9333, Impact Factor: 4.0.
3. Dr. J. Vijaya Kumar, Assoc. Professor has submitted a research paper entitled "Fast and Real-Time Algorithm to Detect Impending Voltage Instability" in the proceedings of **International Journal of Computer Technology and Applications (IJCTA)**, April 2017 Vol. 10, Issue. 5, pp. 407-412. Impact Factor: 4.0
 4. Mr. J. Uday Venkatesh, Asst. Prof. has submitted a research paper entitled "Dual Boost Converter Design For Harmonic Reduction" in the International Journal of Creative Research Thoughts (IJCRT)– ISSN: 1311-8080 (Printed Version); ISSN: 1314-3395(Online Version), Volume: 114 No. 2017, 421-429
 5. Mr. N Kiran, Asst. Prof. has submitted a research paper entitled "Input Power Factor Correction in Single phase AC-DC circuit using Parallel Boost Converter" in the International Journal for Research in Applied Science and Engineering Technology .
 6. Ms. D. Sri Lakshmi, Asst. Prof. and K.V.R. Swathi , Asst. Prof has submitted a research paper entitled "Speed Control of Switched Reluctance Motor by Fuzzy PI Current Controller and State Space Modelling of Switched Reluctance Motor" in the International Journal of Latest Trends in Engineering and Technology (IJLTET).
 7. Mr. A.Dhanamjay, Asst. Prof. & Mr. Anil Kumar have submitted a research paper entitled "Three-Phase Three-Switch Two-Level Unidirectional PWM Rectifier using artificial neural networks" in the International Journal of Creative Research Thoughts (IJCRT).
 8. Mr. L.Dinesh, Asst. Prof. has submitted a research paper entitled "Simulation of Integrated Distributed Generation (PV WIND) for Unbalanced Loading" in the International Journal of Creative Research Thoughts (IJCRT)– ISSN: 1311-8080 (Printed Version); ISSN: 1314-3395(Online Version), Volume: 114 No. 2017,
 9. Mr. Trinadh Babu, Asst. Prof. has submitted a research paper entitled "speed control of bldc motor using pid controller and fuzzy pid controller" in the International Journal of Latest Trends in Engineering and Technology.
 10. Mr. CH.V.N Raja, Asst. Prof. has submitted a research paper entitled "Reduced order Modeling of Linearized Power Electronic Circuit" in the International Journal of Innovative Engineering and Physical Sciences (IEPS).
 11. Mr. CH.V.N Raja, Asst. Prof. has submitted a research paper entitled "Sensorless Induction Motor based on Model reference Adaptive Systems (MRAS) Simulation" in the International Journal of Emerging Technologies and Innovative Research (IRAJ)
 12. Mr. V. Murali, Assoc. Prof. has Published a research paper entitled "Price based fuzzy automatic generation control for Indian tariff system" in the International Journal of Energy Systems (IJES).
 13. Mr. Kottala Kiran Kumar, Asst. Prof. has submitted a research paper entitled "Sensorless Induction Motor based on Model reference Adaptive Systems (MRAS) Simulation" in the International Journal of Emerging Technologies and Innovative Research (IRAJ).
 14. Mrs. V. Rangavalli, Asst. Prof. has submitted a research paper entitled "Cost Benefit Analysis of Distribution Network By Allocating Renewable DG's Using PSO" in the International Journal of Pure and Applied Mathematics (IJPAM)
 15. Dr. Vijay Kumar, Assoc. Prof has published a research paper entitled "A Review on Applications of PMUs in Impedance-Based Fault Location in Transmission Lines" in the International Journal of Pure and Applied Mathematics (IJPAM) – Volume 114 No.8 PP. 93.100– July 2017.

STUDENT ACHEVIEMENTS

1. Mr. Sripada Shashikant of 3/4 B. Tech. (E.E.E-C) has participated in the event of Logo Hunter conducted as a part of ELECTRIQUE - 2K17 held at JNTU Kakinada, during 4th & 5th March 2017 and secured **2nd prize**.
2. Ms. M. Ratna Sirisha of III/IV B. Tech EEE has participated in National Women's Parliament and being a part of the Network of All-round and Spirited Women of India organized by Legislative Assembly, Pavitrasangamam, Amaravti, Andhra Pradesh, during 10th to 12th February 2017.
3. Mr. Y.V. Partha Sarathi of 3/4 B. Tech. (E.E.E-C) has participated in the event of Stepcone 2K17 organized by the department of Electrical & Electronics Engineering, GMRIT, Rajam during 27th & 28th January 2017 and secured **1st prize** in "PLC and SCADA" event.
4. Mr. Y.V. Partha Sarathi of 3/4 B. Tech. (E.E.E-C) has participated in the event of Stepcone 2K17 organized by the department of Electrical & Electronics Engineering, GMRIT, Rajam during 27th & 28th January 2017 and secured **1st prize** in "PLC and SCADA" event.
5. Mr. Y.V. Partha Sarathi and Ms. Y. Tejaswini of 3/4 B. Tech. (E.E.E-C) have secured **1st prize** in the 'Power Point Presentation' in the event of Stepcone 2K17 organized by the department of Electrical & Electronics Engineering, GMRIT, Rajam during 27th & 28th March 2017.
6. Mr. B. Prabhu Kumar, Mr. V.S. Saketh and Mr. R. Ravi Teja of IV/IV EEE and Mr. K. Viveyk, Mr. L. Naga Chaitanya of I/IV EEE have participated in Poster Presentation on "Traffic Jam in Space"

conducted by La Literati The Language Club of ANITS as a part of Republic Day Celebrations. They have won the **1st prize** and a rolling shield under the guidance of Mrs. K.V.R. Swathi, Asst. Professor, Dept. of EEE.

7. Ms. M.R. Sirisha, Ms. M. Usha, Mr. K. Yogesh, Mr. N. Sai Kumar and Ms. M. Lalitha of 3/4 B. Tech. (E.E.E) have participated in MEGA Competition at SRKREC, Bhimavaram organized by Robokart.com reach partner of E-Cell, IIT, Bombay during 20th to 21st December 2017. They were declared as Winner-up in the MEGA Competition.

PATICIPATION OF STUDENTS IN SEMINAR/WORKSHOP/ANY OTHER EVENTS:

✚ Mr. Sripada Shashikant of 3/4 B. Tech. (E.E.E-C) has participated in the event of Solar Workshop conducted as a part of ENCURSO 2K17, A National Level Technical Symposium held at JNTU Kakinada, during 4th & 5th March 2017.

✚ Ms. Devupalli Suma, Ms. Balasani Meghana, Ms. Buri Sowmya, Ms. Budhala Anitha Ms. Chimakurthi Sahithi, Ms. Godaba Tanuja, Ms. Challa Haritha, Ms. Cheemalapati Vineetha, Ms. Rishita Muvva, Mr. Pichuka Veerendra of 2/4 EEE and Mr. Sarisa Praveen Kumar, Ms. Kodi Vinay Tapaswi of III/IV EEE have participated in National Level Quiz Competition in the event of Explore – 2K17 held on 12th August 2017 conducted by IETE Students forum (ISF), dept. of ECE, ANITS as a part of republic day celebrations.

✚ Ms. M. Usha and Ms. M.R. Sirisha of III/IV EEE have participated in ELOCUTION competition held on 12th August 2017 conducted by La Literati The Language Club

of ANITS as a part of Independence Day Celebrations.

✚ Mr. Ch. Sarat, Mr. K. Ramesh, Mr. K.S. Kishore and Mr. J. Dhiraj of 1/4 B. Tech. (E.E.E) have participated as NSS Volunteer for the event NCC at ANITS, Sangivalasa on 26th January 2017.

✚ Mr. V. Teja Chandra Patnaik, Mr. N. Srinivas, Ms. U. Ramya Sri, Mr. S.V.V.D. Akhilesh, Ms. V.S. Sonica, Ms. T. Prathusha of 2/4 B. Tech. (E.E.E) have participated as NSS Volunteer for the event “The role of youth in social” at ANITS, Sangivalasa on 27th January 2017.

✚ Mr. P. Naresh, Mr. K. SaiKrupa, Mr. D. Anil Kumar, Mr. K. Pradeep, Mr. M. Koteshand Mr. B. Harsha of 4/4 B. Tech. (E.E.E) have participated as NSS Volunteer for the event AIDS RALLY at Medical College, Sangivalasa (from Medical College to Thagarapuvalasa) on 1st December 2017.

✚ Around 15 students of III/IV EEE have participated in **embedded systems** workshop during TECHFEST 2017-18 conducted by IIT Bombay on 29th-31st Dec 2017

✚ Around 12 students of III/IV EEE have participated in **robotics** workshop during TECHFEST 2017-18 conducted by IIT Bombay on 29th-31st Dec 2017.

✚ Around 40 students of III/IV EEE have participated in **MSP 430** workshop during SHAASTRA 2018 conducted by IIT Madras on Jan 2018.

DEPARTMENT ASSOCIATIONS

ANITS ELECTRICAL AND ELECTRONICS ENGINEERING(AEEEA):



INSTITUTE OF ENGINEERS(IEI):



INDIAN SOCIETY OF TECHNICAL EDUCATION (ISTE):



BEST PRACTICES

The Department of EEE always strives to engage the students in active learning, and is witnessed with enthusiastic participation of students in some of the best practices like Wall Magazine,,NSS

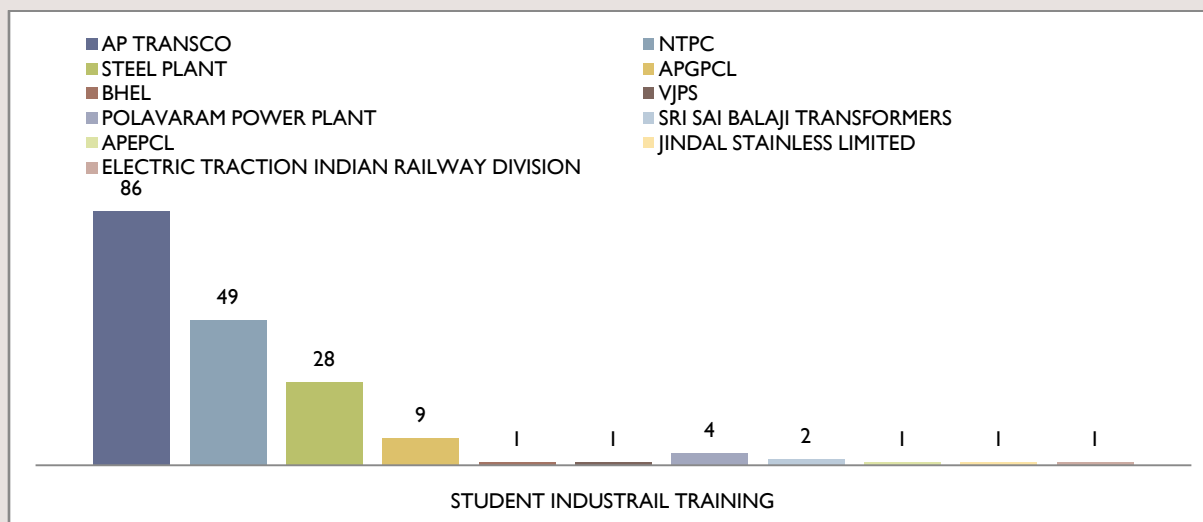


STUDENT SCHOLARSHIP

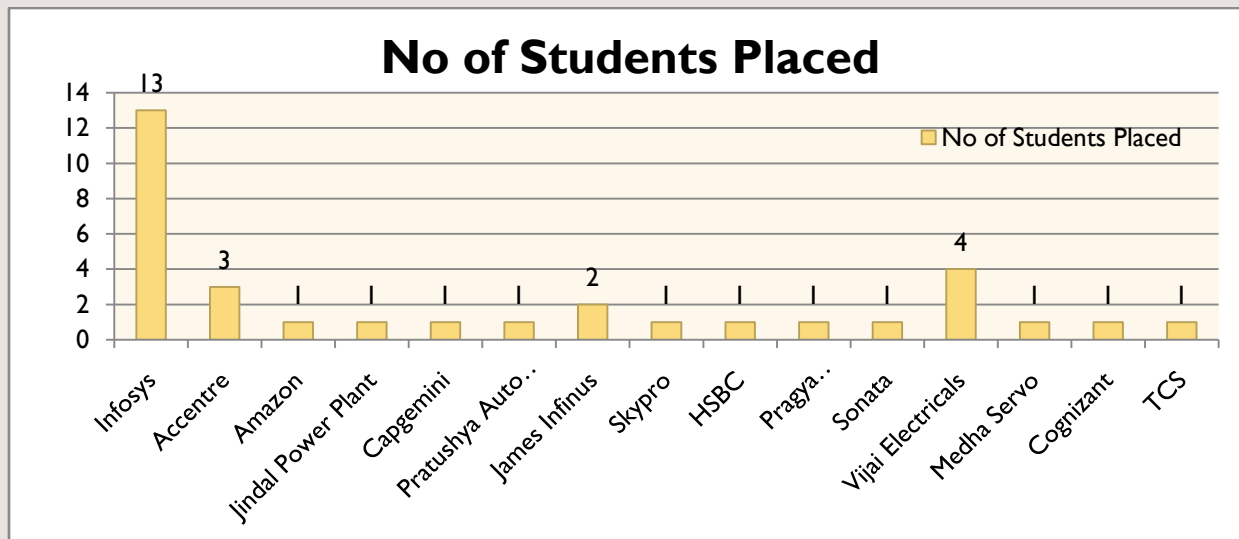


The faculty of department of EEE Anits initiated EEE department Scholarship on the Teachers Day . There awarded schlorships to two of the outgoing batch students who are academically strong and need financial assistance and were given 20,000 each . Mr Bhuvana Chandra and Mr.Guru Naidu has availed this opportunity.

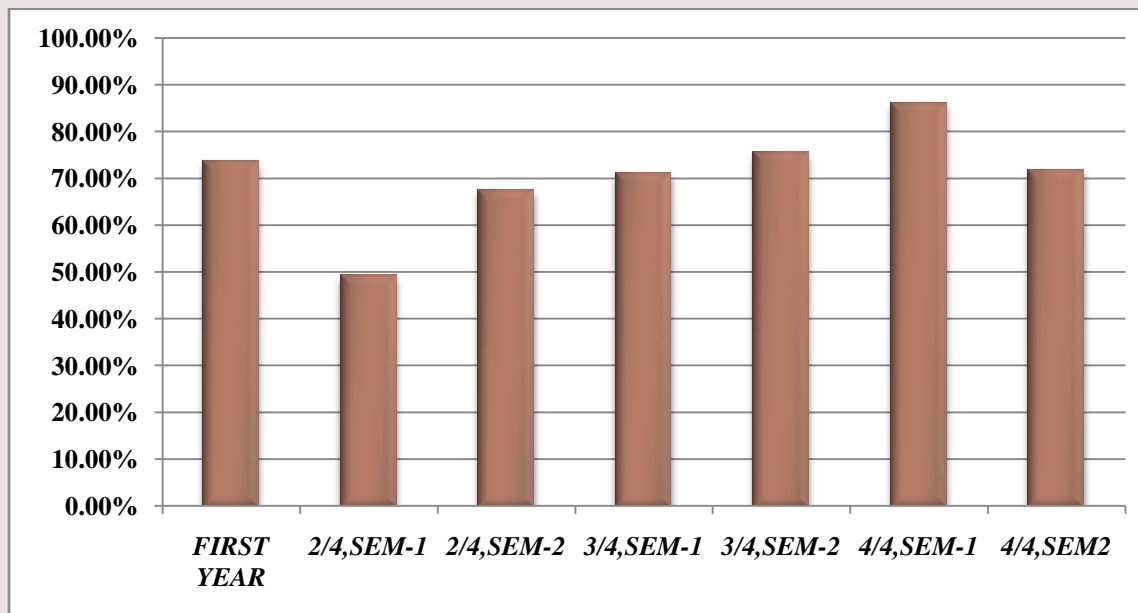
STUDENT INDUSTRY TRAINING



CAMPUS SELECTIES



RESULT ANALYSIS OF 2014-18





14th Batch (2014-18) EEE

