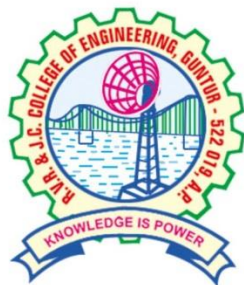


# SPARK



# News LETTER

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

July - December, 2023

### GATEWAY TO JOBS

**1. It's your job to sell yourself.** If you don't do it, then you can be sure that no one else will. Most of us understand this, but that doesn't mean that we're all comfortable with it. There is no need to bloat your accomplishments or make false claims, but there is every need to paint the best picture of yourself. If you're feeling apprehensive about this idea, then remember: it's not bragging if you did it.

**2. Apply to fewer jobs.** When you need a job, it's easy to shotgun your resume in 100 different directions. And that is exactly why the stack of resumes is so high for that job you want. Everyone is sending out the same resume to every job they can find. Slow down. Focus on a few jobs that you actually want. Then tailor everything about your application to each specific job.

**3. You're interviewing them too.** Your goal should be to find a job that you actually care about and a company that you want to be a part of. If you focus on jobs like that, then the interview will be much better. You'll be genuinely engaged. You'll ask more questions because you're interested and not because —that's what you're supposed to do in an interview. Plus and here's a crazy bonus if you only apply to jobs that you look interesting, then you aren't going to end up in a job that you never actually wanted. Sort of makes you wonder why you're applying to a bunch of jobs that you aren't going to enjoy, right.

**4. Realize that some things are of minimal benefit.** If you really wanted, you could write out a list of 1000 things to remember for a job interview. Of course, most of them wouldn't really help you because some things just aren't that important. Your focus should be on solving problems for the company, on proving why you're the best candidate for the job.

**Academic Results:**

<b>Year</b>	<b>Total appeared</b>	<b>Total Passed</b>	<b>Pass%</b>
IV/IV B.Tech (VII Semester)	167	157	94.01
III/IV B.Tech (VII Semester)	180	164	91.11
II/IV B.Tech (IV Semester)	116	90	77.58
I/IV B.Tech (II Semester)	94	49	52.12

**List of the students who won prizes in Paper Presentations & other events :-**

<b>Sl. No</b>	<b>Roll No</b>	<b>Name of the student</b>	<b>Name of the meet/ Contest</b>	<b>Date</b>	<b>Organized Institution</b>	<b>Activity</b>	<b>Awards</b>
1	Y21EE062	P.RAJ KUMAR	ENGINEERS DAY	15 <sup>th</sup> -16 <sup>th</sup> September-2023	R.V.R&J.C COLLEGE OF ENGINEERING	SMART IDEA CHALLENGE	FIRST PRIZE
2	Y21EE060	CH.PAVAN TEJA	ENGINEERS DAY	15 <sup>th</sup> -16 <sup>th</sup> September-2023	R.V.R&J.C COLLEGE OF ENGINEERING	SMART IDEA CHALLENGE	FIRST PRIZE
3	Y21EE097	Y.LAKSHMAN	ENGINEERS DAY	15 <sup>th</sup> -16 <sup>th</sup> September-2023	R.V.R&J.C COLLEGE OF ENGINEERING	SMART IDEA CHALLENGE	FIRST PRIZE
4	Y21EE088	V.LOKESH	ENGINEERS DAY	15 <sup>th</sup> -16 <sup>th</sup> September-2023	R.V.R&J.C COLLEGE OF ENGINEERING	SMART IDEA CHALLENGE	FIRST PRIZE
5	Y22EE004	B.DEEPTHI	ENGINEERS DAY	15 <sup>th</sup> -16 <sup>th</sup> September-2023	R.V.R&J.C COLLEGE OF ENGINEERING	SMART IDEA CHALLENGE	FIRST PRIZE

### List of the students who are participated in Paper Presentations & other events :-

S.NO	Roll No	Name of the student	Name of the meet/ Contest	Date	Organized Institution	Activity	Awards
1.	Y21EE062	P.RAJ KUMAR	AIKYA-2K23	21 <sup>st</sup> September 2023	VVIT, NAMBUR	PICTIONARY	PARTICIPATION
2.	Y21EE053	N.BHANUSRI	AIKYA-2K23	21 <sup>st</sup> September 2023	VVIT, NAMBUR	PAPER PRESENTATION	PARTICIPATION
3.	Y21EE053	N.BHANUSRI	AIKYA-2K23	21 <sup>st</sup> September 2023	VVIT, NAMBUR	TECH QUIZ	PARTICIPATION
4.	Y22EE014	D.V.S.R.K.MURTHI	AIKYA-2K23	21 <sup>st</sup> September 2023	VVIT, NAMBUR	PICTIONARY	PARTICIPATION
5.	Y22EE029	K.ABHINAV	AIKYA-2K23	21 <sup>st</sup> September 2023	VVIT, NAMBUR	PICTIONARY	PARTICIPATION

### Workshop Organized

- Three week online workshop for faculty members on ‘Women Entrepreneurship Development Program’, sponsored by the department of Science & Technology Govt. of India, organized during 21 Aug - 8 Sep 2023.

### Guest Lectures Organized

- Guest lecture was organized on ‘E mobility in India’, by the department on 11 Sep 2023. Dr. Jaganmohan, Head of R & D, Erisha E mobility, New Delhi, shared his experiences with the final year B.Tech students.
- Guest lecture was conducted on ‘Revolutionizing Transformer Manufacturing, Erection and Commissioning’, on 1<sup>st</sup> Dec 2023. Mr. T. Srinivasa Rao, Deputy Executive Engineer, Gunadala Sub-station, APTRANSCO, Vijayawada, shared his experiences about manufacturing and maintenance of transformers with the students of II & III B.Tech.
- A lecture was conducted on ‘A Journey to Revolutionize Transportation beyond the engine:: Demystifying the Architecture of Electric Vehicles’ on 4<sup>th</sup> Dec, 2023. Mr Amruth Kedariseti, Ex-GM, Technical lead Electronics Pravaig Dynamics, Bengaluru spoke at the the session with the students of III and final B.Tech.

### Guest Lecture Delivered

- A.Rama Koteswara Rao delivered lecture on ‘Artificial Intelligence for Cyber Physical Systems’, during 17-22, July 2023 in short term course on ‘Cyber-Physical Systems & Industrial Automation’, organized by Electrical Engineering Department, NIT Kurukshetra.
- Two guest lectures were delivered by K. Swarnasri on ‘Unveiling Success: Strategies for Product Promotion, Sales, and Advertisement’, ‘Techspire: Empowering Innovation and Entrepreneurship Through the Woven Threads of Technology’ respectively in the ‘women entrepreneurship development program’, organized by EEE & Mechanical Department, RVRJCCE, during 21 Aug. to 8 Sep. 2023.

## **Industrial Visit**

- The IEEE members (43 members) of RVRJCCE had been visited ARCI, Hyderabad Industrial trip on 3 Oct 2023.
- All the III year B.Tech students (115 members) visited 400/220 KV Substation, Sattenapalli, during 13-14 Sep 2023, as a part of their Industrial Visit.

## **Seminars/ Workshops/Conferences/Short Term Courses/ Symposia attended by the faculty:**

- Y.Sumanth, five day FDP, 'Future trends and advances in Electrical Engineering', Department of EEE Aditya Engineering College, in association with IEEE, 5 - 9 July, 2023.
- N.Dharani Kumar, P.V. Mahesh, short term course, 'Artificial Intelligence for Cyber Physical Systems', CPSIA-2023, Electrical Engineering Department, NIT Kurukshetra, during 17-22 July, 2023.
- A. Rama Koteswara Rao, 'Converting Innovation into Value Proposition & Business Fit', Institutions Innovation Council, NIT Andhra Pradesh, July 24, 2023.
- K. Radha Rani, one week National level online FDP, 'ChatGPT & AI Tools for Educators, in-line with OBE', St Joseph's College, Irinjalakuda, in association with The Kerala State Higher Education Council, 19-26 July 2023.
- G.Sambasiva Rao, one week STP, 'Electrical CAD Design', Department of EEE, Bapatla Engineering College, during 26 June to 1 July 2023.
- K. Radha Rani, three day online training workshop, 'ChatGPT for Research Writing Assistance', Nuhianwali Education Society, Haryana, 06- 08 Aug. 2023.
- B.V. Vasantha Rao, P. Siva Krishna, P.V. Mahesh, online FDP, 'Real Time Applications with myRIO and CRIO organized', Department of ECE, RVRJCCE, 24-26 Aug. 2023.
- Y.Sumanth National level one week FDP, 'Multiverse approach to Upskill professionals in contemporary environment', Department of Mechanical Engineering and R&D cell of SRM Madurai College of Engineering and Technology, Tamilnadu, 21-26 Aug. 2023.
- Y.Sumanth, N.Dharani Kumar, one week National level FDP, 'Cloud Infrastructure', Brainovision Solutions India Pvt Ltd and AICTE, during 21-25 Aug. 2023.
- Y. Suri Babu, P.V. Kishore Babu, P.V. Mahesh, online FDP, 'Hybrid Electrical Vehicle's Battery Management System Using Heuristic Techniques - Challenges & Opportunities', Department of EEE, Sri Venkateswara College of Engineering, Tirupati, 11-16 Sep. 2023
- Y.Sumanth, three day National level FDP, 'Emerging Trends in VLSI Device, Circuit & System Design', RVRJCCE, 9-11 Nov. 2023.
- K. Swarnasri, IEEE R10 PES India chapters annual global workshop, 'Smart Technologies in Power & Energy Systems', 24-25 Nov. 2023.
- A. Rama Koteswara Rao, V. Sarayu, Ch. Rangarao, T. R. Chandni, ATAL Academy FDP, 'Certain Aspects of Electric Vehicles to achieve Sustainable Energy', Vignan's Lara Institute of Technology & Science, 11- 16 Dec. 2023.

- G. Veeranjanyulu, P.V. Mahesh, online FDP, 'Electric Vehicles: Battery Technologies, Charging Strategies, and Charging Station Placement', Department of EEE, Sri Venkateswara College of Engineering, Tirupati, 18- 20 Dec. 2023.
- G.Sambasiva Rao, Y.Sumanth, one day National seminar, 'Recent Advances in Mathematical and Statistical Methods for Science and Technology', Department of Mathematics & Humanities, R.V.R. & J.C. College Of Engineering, 22 Dec. 2023.
- K. Chandra Sekhar, K. Radha Rani, one day National level FDP, 'Green Audit and Energy Audit in HIE's', IOT Academy, 29 Dec. 2023.

### Training & Placement Information:

- The following student of IV/IVB.Tech (EEE) selected by **M/s. Acenture** during the campus recruitment exercise held on 25<sup>th</sup> September, 2023.

S.No.	Regd. No.	Name of the Student	Course & Branch
1	Y20EE011	Barre Sri Tarun	B.Tech (EEE)

- The following students of IV/IVB.Tech (EEE) selected by **M/s.Tezo, Hyderabad**, during the campus recruitment exercise held on 27th & 28th November, 2023.

S.No.	Regd. No.	Name of the Student	Course&Branch
1	Y20EE008	Anumolu Sri Nidhi	B.Tech (EEE)

- The following students of IV/IVB.Tech (EEE) selected by **M/s. Acmegrade, Bangalore**, during the campus recruitment exercise held on 30th November, 2023.

S.No.	Regd. No.	Name of the Student	Course & Branch
1	L21EE185	Chintha Renukeswararao	B.Tech (EEE)
2	Y20EE034	G.Dinesh Kumar Reddy	B.Tech (EEE)
3	Y20EE043	G.Sandhya Rani	B.Tech (EEE)

- The following students of IV/IVB.Tech (EEE) selected by **M/s. Synnat Pharma Private Limited, Visakhapatnam**, during the campus recruitment exercise held on 16th November, 2023.

S.No.	Regd. No.	Name of the Student	Course & Branch
1	L21EE195	Lanka Lakshmi Sai	B.Tech (EEE)
2	Y20EE008	Anumolu Sri Nidhi	B.Tech (EEE)

## R & D Activities:-

### Research Papers Published in Journals:

- Y. Ravindranath Tagore, Rajani Kandipati, A. Rama Koteswara Rao, 'Performance Analysis of a Two-Stage Converter for Solar PV Systems', Journal of Engineering Science and Technology Review, Vol.16, No. 3, pp. 2-60, July 2023.
- Ch. RangaRao, R.Balamurugan, A. Rama Koteswara Rao, 'Simultaneous Allocation of Renewable Energy Sources and Custom Power Quality Devices in Electrical Distribution Networks Using Artificial Rabbits Optimization', Clean Energy Journal, Vol. 7, No. 4, pp. 795–807, Aug. 2023.
- V. Sarayu, M. Vanitha Sri, A. Rama Koteswara Rao, 'A Novel Monocrystalline PV Array Configuration for Enhancing the Maximum Power under Partial Shading Conditions', Clean Energy Journal, Vol. 7, No. 4, pp. 783–794, Aug. 2023.
- M. Raja Nayak, K. Chandra Sekhar, 'A novel computational technique to analyse the corona generated ionized field environment of EHV/UHV DC transmission lines', InterNational Journal of Emerging Electric Power Systems. Aug. 2023
- Y. Ravindranath Tagore, Rajani Kandipati, Chandra Sekhar Koritala, 'Analysis design and simulation of high gain dc-dc converters for fuel cell applications', InterNational Journal of Power Electronics, Vol. 18(3), pp. 314–346, Aug. 2023.
- Y. R. Tagore, 'Fuzzy-based MPPT control for solar PV applications', InterNational Journal of Innovative Computing and Applications, Vol. 14, no. 4, pp. 220-229, Oct 2023.
- Sarayu Vunnam, M. VanithaSri, A. Rama Koteswara Rao, 'An Outline of Solar Photovoltaic Systems Impact on Environment', Bulletin of Electrical Engineering and Informatics, Vol 12, No 5, pp. 2635-2642, Oct 2023.
- A. Rama Koteswara Rao, Rajani Kandipati, Y. Ravindranath Tagore, 'Design of FOPID controller for higher order MIMO systems using model order reduction', InterNational Journal of Systems Assurance Engineering and Management, Vol. 14, pp. 1660–1670, Oct 2023.
- P. Sobha Rani, K. Radha Rani, V. Ravi, 'Is it Feasible to Reduce Academic Stress in Net-Zero Energy Buildings? Reaction from ChatGPT', Annals of Biomedical Engineering, ISSN: 1573-9686, Dec. 2023.
- D. Vasudha, Dr. N.C.Kotaiah, Dr. K. Radha Rani, 'Development of Static Model for a Current Based UPFC', International Journal of Electrical and Electronics Research, Vol.11, issue 4, ISSN: 2347-470X, Dec 2023.
- D. Uma Maheswara Rao, G. Sambasiva Rao, K. Swarnasri, 'L-M Based ANN for Predicting the Location of DG under Contingency Condition', International Journal of Electrical and Electronics Research, Vol. 11, Issue 4, pp.1204-1208, ISSN: 2347-470X, Dec 2023.

### **Patent Applications Published**

- K. Swarnasri, K. Chandra Sekhar, P.V. Kishore Babu & P. Tripura, ‘Artificial Intelligence Based Smart Power Grid Management System with Distributed Energy Resources Integration’, Patent Application No: 202341064451A, on 13 Oct 2023.
- K. Radha Rani, N. Chaitanya, A. Rama Koteswara Rao, G.V.P.Anjaneyulu, ‘Artificial Intelligence Based High-Efficiency DC-DC Converter for Dynamically Charging Electric Vehicles’, Patent Application No: 202341080263A, on 22 Dec 2023.

### **Research Projects in Progress**

- Industrial Research Project titled ‘Integrated Monitoring and Controlling of Sparsely Located Distribution Transformers in Smart Grid Environment’ sanctioned by Sri AICTE-RPS to Dr. K. Swarnasri, Dr. K.Chandra Sekhar, is in progress.
- Industrial Research Project titled ‘Design and Prototyping of PV assisted IOT enabled Charging Topologies’ sanctioned by RC All-Tech Power Systems PVT. LTD., Hyderabad, to P. Tripura, P.V.Kishore Babu, G. V. Prasanna Anjaneyulu is in progress.
- Industrial Research Project titled ‘Performance Analysis of Solar PV Systems’ sanctioned by Sri Lakshmi Ganapathi Engineering, Tenali to N.Dharani Kumar, V.Saryu, M. Anitha is in progress.



RED ANTS organized Students Face Painting



Industrial Visit of III year B.Tech students to 400/220 KV Substation, Sattenapalli

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