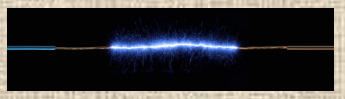
Government Engineering College Ajmer

(An Autonomus Institute of Govt. of Raj.)

Yearly Newsletter
Of
Electrical Engineering Department



"SPARKS-2019"

ISSUE – I

15th August, 2019

VISION

To develop competent electrical graduates in society .

MISSION

M1. To produce electrical graduates with high technical skills.

M2. To incorporate innovative things in learning environment incompetence with industry needs.

M3. To create research oriented mind-set and focus in fulfilling growing demand of society through mentoring and motivation.

Dr. Rohit Mishra

(Principal, GEC Ajmer)

I am glad to learn that the Department of Electrical Engineering at GEC Ajmer is bringing out First issue of its annual newsletter **"SPARKS"**. Such newsletters provide an appropriate medium of sharing information and creative skills of students and faculty on relevant issues.

It has been our constant endeavour to excel and succeed so as to enable students to carve a niche for themselves and develop a profound academic and compassionate learning culture. Bestowed with academic-oriented and dedicated faculty-members, our institution facilitates the students' highly competitive and academic ambience, thus fostering intellectual breakthroughs. The emphasis on comprehensive understanding of their chosen engineering discipline along with hands on experience as well as impressive placements and extra-curricular activities imbibing social and national commitments render our institution as the right place for the students to gear up with a world class competitive edge.

I congratulate the editorial board for bringing out this newsletter and wish the students a grand success in their endeavors.

WORDS FROM THE DESK OF HOD

Dr. K. G. Sharma
(HoD, EE)

I am pleased to share with you our first newsletter "SPARKS" of Electrical Engineering Department. Here you will find articles on the different fields of Electrical Engineering, achievements of Electrical Engineering Department in odd semester. As you know that Electrical Engineering is a vibrant field that has changed the world in which we live and work. At the beginning of this new century, the discipline is poised to continue making important contributions to key issues facing society in areas such as energy, health, computing, networked communications, environmental monitoring, and information security. In addition, our faculty members and students are engaged in collaborative efforts with industry and other universities to address research issues of national importance. Further, I wish all the success to all faculties and staff members of the department and pray for their achievements in incorporating the attributes in students to make them able to compete against the best in the world.

PEOs, POs & PSOs

PROGRAM EDUCATION OBJECTIVES (PEOS):

PEO1: To build a strong foundation in the students in Mathematics, Science and Engineering fundamentals so as to enable them apply the same to analyse, design, innovate and develop products for real life applications.

PEO2: To foster and imbibe values and ethics, positive attitude, effective communication skills, leadership qualities and team spirit for a rewarding personal and professional career with a deep commitment and concern for the society.

PEO3: To provide a holistic academic environment befitting research, academic excellence, entrepreneurship and desire for creating new knowledge so as to become industry and professionally ready to meet global challenges.

PROGRAM OUTCOMES (POS)

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and the need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological Change.

PROGRAMME SPECIFIC OUTCOMES (PSOS)

PSO1: Graduates will have the ability to remember and understand the basic concept of electrical and electronic engineering, computer programming, design and analysis of different electrical and electronics network, basic Sciences and knowledge of mathematics.

PSO2: Graduates will have knowledge of principles, design and performance & testing of static & dynamic parts of electrical energy system.

PSO3: Graduates will gain knowledge and acquire skills for analysis, operation, control and protection of electrical power system for generation, transmission, distribution & utilisation.

PSO4: Graduates will gain knowledge of instrumentation, control & automation and power electronics applicable in core and related fields.

PILLARS OF ELECTRICAL ENGINEERING DEPARTMENT

Left to Right— Ms. Shivani Dwivedi, Mr. K Anil Kumar, Mr. Arjun Pareek, Dr. Indira Rawat (Asso. Professor), Dr. K G Sharma (HOD), Mr. Arun Dev Pandey, Dr. N K Gupta, Mr. Amit Kumar Taneja, Mr. Gyanendra Prakash

FACULTY'S CORNER

Department at Glance

- Workshop on "hydro power generation & national grid" from Aug 28,2019 to Aug 30,2019.
- Plantation Camp for better environment.
- Celebration of Swachhata Diwas on Aug 05,2019.
- Employability Skill Test for grooming of students for training and placement.
- GATE preparation classes.
- Student summer internship program at IIT Bombay & VJTI Mumbai.
- Faculty summer internship at IIT Bombay.
- Departmental in-house training for III semester electrical engineering students.
- Industrial & academic expert lectures.
- Industrial exposure to students.
- Highly modernized lab facilities.
- R & D activities with sponsored projects.

Faculty Profile

Dr. K. G. Sharma
(HOD,EE)

- More than 10 research papers published in international Journals/ Conferences of repute.
- Best Teachers Award
- Two projects of Rs. 10.5 Lac from NPIU

Dr. Indira Rawat
(Asso. Prof.,EE)

- Ph.D from MANIT Bhopal
- Library Incharge
- Attended various FDP/Workshops

Mr. Ajay Agarwal
(Asst. Prof., EE)

- M.Tech. from IIT Delhi
- Deptt. Proctor

Dr. N K Gupta
(Asst. Prof., EE)

- More than 10 research papers published in international Journals/ Conferences of repute.
- Reviewer in IEEE Transaction of Power Electronics, IEEE Transaction of Power Delivery, IEEE Transactions on Smart Grid, Energy Conversion and Management etc.
- Two projects of Rs. 10.5 Lac from NPIU
- Member *IEEE*

Mr. K Anil Kumar
(Asst. Prof., EE)

- Published research paper in IEEE international Conference
- GATE Qualified
- Persuing Ph.D. in MNIT Jaipur

Faculty profile

Mr. Amit Taneja
(Asst. Prof. EE)

- Gold Medalist
- Completed M.Tech in Power System.

- GATE Qualified with 99.58 percentile.
- Completed M.Tech in Power Electronics from IIT BHU.

Mr. Arjun Pareek
(Asst. Prof. EE)

Mr. Gyanendra Prakash
(Asst. Prof. ,EE)

- GATE Qualified with 94.88 percentile.
- Completed M.Tech in Control & Industrial Automation from NIT Silchar.
- Published Paper on "Facts Devices Implementation In Improvement Of Power System Stability" in National Conference "CONVERGENCE 2016".

- GATE Qualified with 98.7 percentile.
- Persuing Ph.D. in Electrical Engineering from MNIT Jaipur

Ms. Shivani Dwivedi
(Asst. Prof. EE)

Mr. Arun Dev Pandey
(Asst. Prof.,EE)

- A Paper Published in IEEE International Conference on " Optimal economic analysis and performance assessment of wind biomass hybrid energy system." at international conference on automation, computational and technology management (ICACTM-2019) at amity university UK.
- GATE qualified with 97 percentile.
- Persuing Ph.D. in Electrical Engineering from MNIT Jaipur.

SUPPORTING STAFF

Left to Right— Mr. Praveen Kumar Sharma, Mrs. Janki Sharma, Mrs. Beena Sain, Mr. Prem Shankar Sehwal, Mr. Gopal Devra, Mr. Devendra Kumar Sanadhaya

GATE QUALIFIED CANDIDATES

AKSHAT GUPTA
ANSHUL YADAV
AVDESH KUMAR
HARENDRA KHOJA
JEETENDRA BAIRWA
JITENDRA SINGH DHAKED
KHARTA RAM PATEL
NISHIT SHARMA
RAKESH KASNIYA
RAMESH KUMAWAT
SANJAY BHARGAV
SOURABH JAIN
YUVRAJ SINGH RATHORE

PLACEMENTS

S.No	Candidate's name	Placed in	package
1	shivdutt	DENSO Haryana	5 lacs
2	Muskan soni	TORRENT power	3.75 lacs
3	Bhavesh manghnani	TORRENT power	3.75 lacs
4	Akshat gupta	JSW mumbai	5 lacs
5	Hemraj saini	UTTAM Galwa	3.5 lacs
6	Anshul yadav	UTTAM Galwa	3.5 lacs
7	Ramesh kumawat	UTTAM Galwa	3.5 lacs
8	Jitendra singh dhaked	KEC Int.	3.35 lacs
9	Bhavesh manghnani	KEC Int.	3.35 lacs
10	Sourabh jain	KEC Int.	3.35 lacs

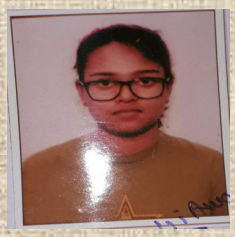
OUR STAR PERFORMERS

(FINAL YEAR)

Monalisa Singh Shekhawat

Rajendra Pareek

Anshul



Ayushi Awasthi

Anjali Soni

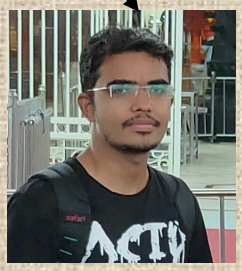
(PRE-FINAL YEAR)

Swati Sharma

Tushar Pradhan

Shivank Sikarwar

Yuvraj Singh



Sumit

S.N.	Name	Achievement	Year
1.	Kartik Gudeshwar	**1st prize** in Debate Competition organized by department of English at Dayanand College, Ajmer on sept09,2019 **2nd prize** in speech competition on the topic 'Ahinsa Parmo Dharma' on Aug08,2019	III
2.	Harish nagar	Active participation in IDEATHON (national level competition),	IV
3.	Ayushi awasthi	Active participation in SMART INDIA HACKATHON.	IV
4	Rohit Singh Rawat	gold medal in volleyball competition held in CATC army camp NCC on july18, 2019.	III
5	Pradhuman Tailor	1st prize in Table Tennis & Badminton on Oct 01,2018	III

INDUSTRIAL VISIT

1 day visit in AJMER FOOD PRODUCTION LTD., Ajmer on Oct. 11, 2018

2 day visit at DIESEL LOCO AND WAGON WORKSHOP, AJMER on Jan. 17-18, 2019

1 day visit at GSS, MADAR on March 22, 2018

EXPERT TALKS

Two port networks and Network synthesis by Dr. D.K. Palwalia, Prof. RTU Kota on Apr 06, 2018

Indian patent system by Dr. D.K. Palwalia, Prof. RTU Kota on Apr 07, 2018

Power system production Of Global interest: By prof. Dinesh Birla, RTU Kota on March 21, 2018

Smart grid technologies by Dr. Annupoorna Bhargav, Prof., RTU Kota on March 02, 2019

Quality Assurance in Industries by Mr. Sudhir Sharma, Manager, Robert Mico Bosh Pvt. Ltd. on july 27, 2019

ALUMNI MEET

THE EDITORIAL BOARD

OUR MOTO OF TEAM SPIRIT

"The Basic Building Block of Good Team Building is for a leader to promote the feeling that every human being is unique and add value."

"It always seems impossible until it's done. Education is the most powerful weapon which you can use to change the world."