

**ISSUE 3**

**JUNE 2018 - MAY 2019**

**DEPARTMENT OF  
ELECTRICAL ENGINEERING**

# Electro Spark

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(Director, RIT, Rajaramnagar)

Hon. Dr. H. S. Jadhav  
(Dean Diploma, RIT, Rjaramnagar)

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Lecturer, Electrical Engg. Dept.

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## K. E. Society's

**Rajarambapu Institute  
of Technology,  
Rajaramnagar.**

**(An Autonomous Institute)  
(Diploma 2<sup>nd</sup> Shift)**

**Islampur, Dist. Sangli, Maharashtra,  
India - 415414.**

**Tel : +91 - 2342 - 220329 ,  
9970700700.**

**<http://www.ritindia.edu>**

**“No Resistance Can Drop Our Potential”**

**MAHARASHTRA STATE BOARD OF TECHNICAL  
EDUCATION , MUMBAI HAVE AWARDED**

**EXCELLENT**

**GRADE TO DEPARTMENT OF ELECTRICAL ENGI-  
NEERING, RIT, RAJARAMNAGAR (DIPLOMA 2ND  
SHIFT ) FOR THEIR PERFORMANCE IN A.Y. 2018-19**



### From the Editor's Desk

Dear Readers, Greetings. For this academic year, department has achieved 100% placement and also witnessed a higher number of Industries visiting the campus. I'm sure you'll go through it and join us in cherishing this milestone. Going a step further department also put in streamlined efforts to offer placement assistance to those who felt a dearth of the same. Department not only organized two state level technical events but also celebrated Engineer's Day and Teacher's Day by arranging Quiz & Teaching competition. Thank you.



Prof. Mrs. S.S. Patil  
(Editor, Electrical Dept.)  
(Diploma 2nd Shift)

### From the Student's Desk

I would sincerely appreciate the efforts extended by Chief editor and H.O.D, RIT. Newsletter team in publishing enriched the informative issues of department Newsletter. It's worth appreciating that the contents are informative about Circuit Builder, Industrial Visits and Guest Lecture, faculty and students achievements. Photo quality is too good. I take this opportunity to offer my hearties congratulations to Electrical department for receiving "Quality Circle" Awards.



Ms. M. J. Patil  
T.Y Electrical  
2018-19

### Department Vision

To develop competent engineers by providing Quality Technical Education in the field of Electrical Engineering to meet future needs and challenges of the society and industry.

### Department Mission

- 1) To impart technical education in close interaction with industry and community.
- 2) To develop young minds sensitive to ethical and environmental issues.
- 3) To prepare young aspirants with the spirit of lifelong learning for career enhancement.

### Department Achievement's

Team Srujan presented Quality Circle topic in the state level QCFI, Pune Chapter where we received the Gold Award for the topic "Energy Conservation through energy efficient lamp." Also promoted to national level QCFI, Gwalior Chapter where we receive the Distinguish Award for the same.



QCFI Pune Chapter 8th Sept.2018



NCQC, Gwalior Chapter 23rd Dec 2018

## Department Activities

A number of programs like Guest Lectures, Industrial visits and training workshops from various Institutional Organization and Industrial Experts were organized by department for in-depth understanding of the subjects.

### Expert's Talk



Solar power generation and career opportunities in solar energy

Industrial Ethics

Power factor Improvement and double pole structure Design

Interview Techniques

### Confluence with Industries



Sagaon Energy Equipment Pvt. Ltd.

Niksan Agrotech India Pvt. Ltd

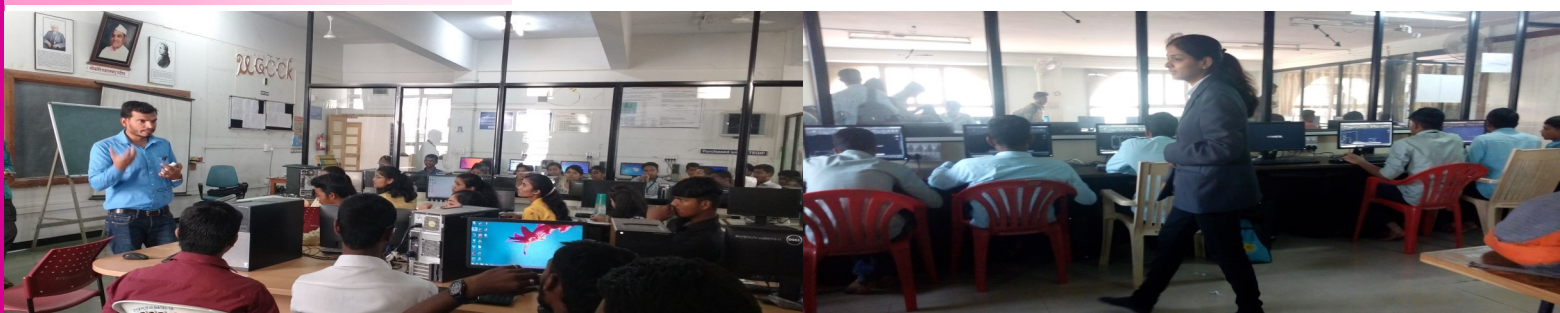
Zanvar Group of Industries Pvt. Ltd



ROCKET ENGG.CORP.PVT.LTD, Shirol MIDC, Kolhapur

Liganmakhi Hydraulic Power Station

### Workshops



In-house Training on :“Embedded System”

In-house Training on “Autocad”

## Student Article's



Ms. Manali Kanase  
S.Y. Electrical  
A.Y. 2018-19

### **IOT Based Smart Home Automation Using Renewable Energy Sources**

The Internet of Things has a vision in which the internet extends into the real world embracing everyday objects. The IoT allows objects to be sensed and/or controlled remotely over existing network infrastructure, creating opportunities for pure integration of the physical world into computer-based systems, and resulting in improved efficiency, accuracy and economic benefit in addition to reduced human intervention. This technology has many applications like Solar cities, Smart villages, Micro grids and Solar Street lights and so on. As Renewable energy grew at a rate faster than any other time in history during this period. The proposed system refers to the online display of the power usage of solar energy as a renewable energy. This monitoring is done through Arduino. Smart Monitoring displays daily usage of renewable energy. This helps the user to control the switching of the devices with the help of app using IOT.



Mr. Aditya Yadav  
T.Y. Electrical  
A.Y. 2018-19

### **IoT Based Smart Home Automation Using Renewable Energy Sources**

Now a days Carbon emission of the planet earth has been increased in a large extent due to industrialization, automation, modern life of the people. Use of non-renewable energy sources is very much dependent for it, which has given rise to global warming due to depletion of ozone layer. Hence use of renewable energy sources is very much effective method to minimize the amount of carbon emission. Now use of renewable energy sources like solar energy is very much applicable to the home automation .Home automation includes all electronic components, subsystems of the house and company such as heating, garage door, entrance gate, shutters, electronic outlets etc. to meet the comfort needs such that energy management & optimization of lighting & heating, home automation has been developed to provide technical solutions. Hence improved through a use of communication network that includes a pair of twisted lines, fibre optics in a bus-based network or an internet protocol as standards. The device technology & communication technology has been rapidly developed offers the facilities to development of the electronic systems. In the large area of application i.e. monitoring and control in the industry, household equipment i.e. home automation, water monitoring, health monitoring etc. data acquisition plays very important role.



### Training/ Workshop/ Seminar / Conference attended by Faculty

Sr. No	Name of Faculty	Module Description	Contributing Host
1	Mrs. S. S. Patil	Basic Automation-PLC SCADA	Siemens Sitrain Kalwa, Mumbai
		Embedded System Design and Development	RIT, Rajaramnagar
2	Mr. A. D. Nikam	Industrial Training Program	L&T (STC), Pune
		Capacity building of polytechnic through NBA process	KIT College of Engg. Kolhapur
3	Ms. P.S.Patil	Embedded System Design and Development	RIT, Rajaramnagar
		Electrical Auto CAD	
4	Mr. Y.A.Dhumal	Capacity building of polytechnic through NBA process	KIT College of Engg. Kolhapur



### Research & Publication

Sr. No	Name of Faculty	Title of Publication
1	Ms. P.S.Patil	T ransformer less inverter for PV grid system
2	Ms. P.S.Patil	
3	Mr. S. M. More	Improved Power Quality Bridgeless Multiple output switched mode Power Supply

## Various Student Centered Activities

### Co-Curricular and Extra-Curricular Activities for Students:



Makar Sankranti  
by Faculty

Makar Sankranti



Police Mitra in Ganesh Festival



Technical event Circuit Builder in District 10  
2k19



Technical event Techno Paper in District 10  
2k19



Street Play– Independence Day



Fresher's Welcome



200 Mtr Running



Kabbadi



### Placements of Department Students

Sr. No	Name of Company	No. of Student Placed	Package (LPA)
1	Bharat Forge, Pune	4	1.77
2	Essel Pro-Pack	5	2.28
3	RDC Concrete	1	2.28
4	Flex India	2	1.44
5	Dhoot Transmission	10	1.17



### Our Toppers A.Y. 2018-19

#### First Year

1st	Gawade Sadhana A.	86.03 %
2nd	Gawade Pradnya B.	85.25 %

#### Second Year

1st	Patil Prajkta E.	85.4 %
2nd	Pujari Ramappa	83.75 %

#### Third Year

1st	Patil Monali J.	87.84 %
2nd	Waghmode Pradnya S.	87.34 %