

**NATIONAL WORKSHOP  
ON  
“EMBEDDED SYSTEM USING ARDUINO”  
23<sup>rd</sup> & 24<sup>th</sup> FEB-2018**

*In Collaboration with*



**INSTITUTION OF ENGINEERS(INDIA)  
&  
ISTE, REC CHAPTER & STUDENT CHAPTER**

*Organized by*  
**DEPARTMENT OF  
ELECTRONICS & COMMUNICATION  
ENGINEERING  
&  
ELECTRICAL & ELECTRONICS  
ENGINEERING /  
ELECTRICAL ENGINEERING**

**RAAJDHANI ENGINEERING COLLEGE  
BHUBANESWAR**

**REGISTRATION FORM**

Name of Participant (s): \_\_\_\_\_

Designation: \_\_\_\_\_

Organization: \_\_\_\_\_

Address for Communication \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Registration fee paid \_\_\_\_\_

D.D. No & Date \_\_\_\_\_

DD drawn in favor of Raajdhani Engineering College  
payable at Bhubaneswar.

(If paid by cash) Receipt No \_\_\_\_\_

Accommodation required(Yes/NO)

Date

Full Signature of the Participant

**Patrons:**

CA. B. Ramprasad, Chairman,REC  
Prof. M. K. Palo,Vice Chairman,REC  
Prof. (Dr) S. C. Panda, Secretary, REC  
Prof. G. S. Mishra, Director, REC  
Prof. R. C Choudhury, Director ,REC

**Chairman:**

Prof. (Dr.) Bimal Sarangi  
Principal, REC, Bhubaneswar

**Convener:**

Prof. S.Panda  
Head Of Dept., ECE, REC, Bhubaneswar  
Prof. D.P. Mohanty  
Head of Dept,EE/EEE,,REC,Bhubaneswar

**Co-Convener:**

Prof. K.Shradha  
Dept. of ECE, REC, Bhubaneswar  
Prof. Ansuman Bhuyan  
Dept. of EE/EEE,REC, Bhubaneswar

**Organizing Secretary:**

Prof. Abhishek Das  
Dept. of ECE, REC, Bhubaneswar  
Prof. Subrat Bhol  
Dept. of EE/EEE, REC, Bhubaneswar

**Executive Members:**

Prof. R.K Samantaray  
Prof. J. R. Behera  
Prof. B. Pradhan  
Prof. D. Mishra  
Prof. P. Mallick  
Prof. S.R. Panda

**Advisory Committee:**

Prof. (Dr.) S.C.Panigrahi, Dean ,R&D, REC, BBSR  
Prof. (Dr.) K .Mohapatra , HOD ,MECH ,REC,BBSR  
Prof. S.R Raheman, I/C ,Diploma, REC, BBSR  
Prof. U. K. Jena, HOD ,CSE ,REC, BBSR  
Prof. MD.A.Ansari, HOD , CIVIL REC, BBSR  
Prof . P. K. Pati, , HOD, MBA, REC BBSR  
Prof. S.S. Satapathy, , HOD , BSc & H.,REC BBSR

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**INSTITUTE OF ENGINEERS(INDIA)  
&  
ISTE,REC CHAPTER & STUDENT CHAPTER  
RAAJDHANI ENGINEERING COLLEGE  
NEAR MANCHESWAR RAILWAY STATION,  
PO- MANCHESWAR,RAILWAY COLONY,  
BHUBANESWAR-751017(ODISHA)  
PH- 0674-2586260,2586240, FAX-0674-2580317  
E-mail- [rec.wrksHP18@gmail.com](mailto:rec.wrksHP18@gmail.com)  
Visit us- [www.rec.ac.in](http://www.rec.ac.in)**

**Accepted Papers will be published in  
IJCRT(UGC approved)**

## INTRODUCTION

ECE,EE,EEE department of Raajdhani Engineering College, Bhubaneswar organizes a national workshop on “**EMBEDD SYSTEM USING ARDUINO**”.

Workshop is organized to encourage and strengthen the students /researchers /academicians /practice engineers towards the proactive engagement in industries in view of innovation and staying ahead of the learning curve.

## OBJECTIVES

The participants will be able to understand the basic procedure to work with Arduino hardware and software. They will be able to write programs to control things like lights, motors etc. Training emphasis will be given on live working projects.

## PARTICIPANTS

Students and persons from Research organizations and Industries and Faculty members from technical institutions are encouraged to participate.

Invited speakers from industry and academia will deliver talks in the relevant areas.

Following Dignitaries having vast experience & knowledge have consented to share their expertise in the workshop.

Er. Prasant Kumar Roy ,Senior SDE,BSNL,BBSR  
Er. Gautam Sahu, SDE ,BSNL,BBSR  
Er. Debashish Parida , Director ,Emtronik Technology  
Er Abhijit Pattnaik, Project Head, Emtronik Technology

## TOPICS OF WORKSHOP

### Day 1

- i) Arduino board Layout & Architecture.
- ii) Programming fundamentals
- iii) Interfacing Sensors with Arduino
- iv) Project :Interfacing Sensors and Reading environmental physical values.

### Day 2

- i) Introduction to BLINK
- ii) Connecting Arduino with Mobile Device
- iii) Project : Reading environmental values on Android Smartphone.

### SUB TOPICS FOR PAPER PUBLICATION :

- i) Application of EMBEDDED SYSTEM USING ARUDUINO in various fields.
- ii) Embedded networking & computing
- iii) Embedded system in transmission system & wireless networking.

## CALL FOR PAPERS

All the accepted papers will be published in the workshop proceedings and some selected papers will be published in UGC approved **International Journal of Creative Research Thoughts ( IJCRT)**. The submitted paper must be in the format of IJCRT( [www.ijcrt.org/pubGuide.php](http://www.ijcrt.org/pubGuide.php)). Authors are required to submit the paper to the organizing secretary via mail at [rec.wrksph18@gmail.com](mailto:rec.wrksph18@gmail.com).

### Important Dates

Paper Submission : **29<sup>th</sup> Jan, 2018**  
Intimation about acceptance : **2<sup>nd</sup> Feb, 2018**  
Registration & Payment : **5<sup>th</sup> Feb, 2018**

## SCHEDULE OF THE EVENTS

### 23<sup>rd</sup> FEB, 2018

9.00 A.M. to 10.00 A.M.: Registration of participants  
10.00 A.M. to 11.00A.M: Inaugural session  
11.00A.M. to 11.30 A.M.: HIGH-Tea Break  
11.30 A.M. to 1.30 P.M.: Paper Presentation  
1.30P.M. to 2.30 P.M.: Lunch Break  
2.30P.M. to 5 P.M.: Technical Session- I

### 24<sup>TH</sup>, FEB 2018

9.00 A. M. to 11.00 A.M.: Technical Session- II  
11.00 A. M. to 11.30 A. M.: Tea  
11.30 A. M. to 1.30 P.M.: Technical Session III  
1.30 P. M. to 2.30 P. M.: Lunch Break  
2.30P.M to 4.00 P.M: Technical Session IV  
4.00PM to 5.00 PM : Validation

## REGISTRATION

Students Participants : Rs.500/-  
Faculty Participants : Rs.1000/-  
Research scholar : Rs.1000/-  
Professionals/Industry : Rs.2000/-  
Paper publication : Rs.1000/-

The participants are requested to send the Registration Form duly filled in along with registration fee through Demand Draft in favor of Raajdhani Engineering College payable at Bhubaneswar latest by 29<sup>th</sup> JANUARY 2018. The participants can also register on the same date.

**Workshop Date:** 23<sup>rd</sup> & 24<sup>th</sup> FEB-2018  
**Last date of Registration** 29<sup>th</sup> JANUARY 2018

## ADDRESS FOR COMMUNICATION

### RAAJDHANI ENGINEERING COLLEGE

Near Mancheswar Railway Station ,  
P.O- Mancheswar Railway Colony,  
Bhubaneswar-751017(Odisha)  
Ph-(0674) 2586260, 2586240 ,Fax – (0674) 2580317,  
E-mail- [rec.wrksph18@gmail.com](mailto:rec.wrksph18@gmail.com)  
Visit us - [www.rec.ac.in](http://www.rec.ac.in)

Contact Person:

**Prof. Abhishek Das**  
(Organizing Secretary)  
Mob-+9437832319  
**Prof. Subrat Bhol**  
(Organizing Secretary)  
Mob-+9040440279

## ACCOMMODATION

Accommodation can be arranged in Hotels/Guest Houses as per availability on payment basis, for which the organizers shall provide necessary assistance if informed well in advance.

## ABOUT THE INSTITUTION & LOCATION

Raajdhani Engineering College, Bhubaneswar was established in the year of 2006 and is one of the pioneer technical institutions in eastern India approved by AICTE, Govt. of India & affiliated to BPUT, Odisha .The college is accredited by NAAC and approved by DST, Govt. of India as SIRO Presently the College offers 4 years B.Tech degree courses in CSE, ECE,EE, EEE, ME, CIVIL and 3 year DIPLOMA course in Civil & Mechanical Engg. and Master degree programme in MCA, MBA and M.Tech in Communication Engg , Power System Engg. , Production Engg & Structural Engg. & Computer Sc. Engg with a total intake of more than 2000 students per year.

