# SRI VENKATESWARA COLLEGE OF ENGINEERING

# SVCE INNOVATES 2018

## Students' Research Day

### Circular

The best innovations of 2018, by the students of SVCE, would be identified by conducting a contest. This is being organized as a college wide event for the fifth time with the following objectives:

To nurture an interest in research and to provide an opportunity to the students to exhibit their creative skills

To inculcate the spirit of healthy competition and to encourage inter-disciplinary innovations

This is intended for undergraduate and postgraduate engineering students of all the departments in our campus.

**Competition details**

Abstract should be submitted in a maximum of 500 words and the format for the abstract can be downloaded from the website.
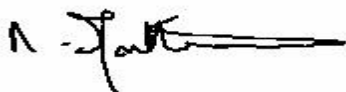
-------------------------------------------------------------------------------------------------------
**Important Dates**

**Submission of an abstract of the innovative ideas           : 28.2.2018**
**The results of the short listed abstracts                   : 10.3.2018**
**Final event will be held on SVCE students Research Day      : 23 March 2018**


-------------------------------------------------------------------------------------------------------
Team can consist of 2-3 students. Interdisciplinary teams are encouraged. Each team must have a faculty mentor.

Certificates would also be given to the faculty mentors of the winning teams.
A panel of judges from the industry and academia will evaluate the innovative ideas.

All the participants will have to demonstrate the ideas using poster/Models/software protypes.

**Dr R Muthucumaraswamy, Dean (Research)**

# SRI VENKATESWARA COLLEGE OF ENGINEERING

## EVENT: SVCE INNOVATES 2018

Students are requested to submit their abstract to the respective department research coordinator through e-mail and also submit the hard copy of the abstract and registration form

| S.No | Department | Research Coordinator | e-mail Id |
|---|---|---|---|
| 1. | AE | Dr S Premnath | prem@svce.ac.in |
| 2. | BT | Dr S Prabhu | sprabhu@svce.ac.in |
| 3. | CE | Dr V Tamizhselvi | tamizhselvi@svce.ac.in |
| 4. | CH | Dr R Palani | rpalani@svce.ac.in |
| 5. | CS | Ms N Revathy | revathi@svce.ac.in |
| 6. | EC | Dr S R Malathi<br>Mr S R Balasubramaniam | malathiraj@svce.ac.in<br>srb@svce.ac.in |
| 7. | EE | Dr S G Bharthidasan<br>Ms S Arulmozhi<br>Mr S Purushothaman | bharathi@svce.ac.in<br>arulmozhi@svce.ac.in<br>purush@svce.ac.in |
| 8. | IT | Mr K Suresh | ksuresh@svce.ac.in |
| 9. | ME | Dr M Ananth Kumar<br>Dr S Ilaiyavel | ananthkumar@svce.ac.in<br>ilaiyavel@svce.ac.in |
| 10. | MR | Mr M Anandan | anand@svce.ac.in |

**SRI VENKATESWARA COLLEGE OF ENGINEERING**

**SVCE INNOVATES 2018**

**STUDENTS' RESEARCH DAY**

## Registration form

**Title of the Innovative idea/Project:**

**Details of the team**

| Team Member | Name | Branch & Year | Mail Id | Mobile number |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| Faculty (Mentor) | | | | |

**Broad areas under which this research work can be categorized:**

**1.**

**2.**

**3.**

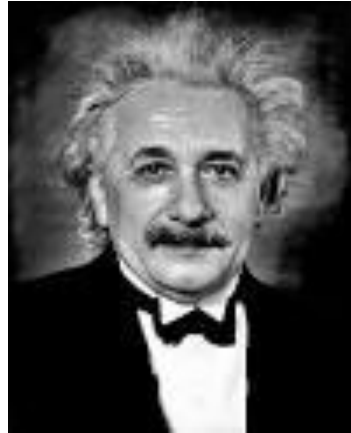**SVCE INNOVATES 2018**

**Title of the innovative idea/project:**

**Team ID( to be assigned by department coordinator) :**

**ABSTRACT**

# The Management, Staff and Students

*Cordially invite you for the*

**INAUGURAL FUNCTION OF**

**SVCE INNOVATES 2018- STUDENTS' RESEARCH DAY**

**Dr CHAKRAVARTHY BALAJI**

Professor, Heat transfer and Thermal Power Laboratory
Department of Mechanical Engineering
Indian Institute of Technology Madras, Chennai 36.

**Prof. K R SANTHA**

**VICE Principal, Sri Venkateswara College of Engineering**
Will preside over the function

*Venue        : Function Hall,   Date and Time: 23rd March 2018, 9.30 AM*

*ALL ARE WELCOME*

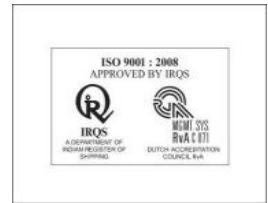| **Time** | **Program** |
| --- | --- |
| 9.30 am - 9.35 am | Prayer song |
| 9.35 am – 9.45 am | Welcome address by Prof. R Muthucumaraswamy Dean (Research) |
| 9.45 am – 10.15 am | Inaugural address by Dr K R Santha Vice Principal, SVCE. |
| 10.15 am – 10.25 am | Tea Break followed by Demonstrations and Presentations of Projects by Students in Multipurpose Hall (AE/CE/CS/EC/EE/IT/ME/MR) and Drawing Hall (I floor-BT/CH) |
| 11.15 am – 12.15 pm | Invited talk on Joy of Research By Dr Chakravarthy Balaji Member of Research Advisor Board(SVCE) IITM, Chennai. |

*Laplace*

# The Management, Staff and Students

*Cordially invite you for the*

## VALEDICTORY FUNCTION OF

## SVCE INNOVATES 2018

## STUDENTS' RESEARCH DAY

Address by

## Dr C ANAND BABU

**Head-Technology Innovation centre**

**Professor, Department of Chemical Engineering**

**SRI VENKATESWARA COLLEGE OF ENGINEEERING**

*Venue        : Function Hall*

*Date and Time  : 23rd  March 2018,    2.30 PM*

## *ALL ARE WELCOME*

| **Time** | **Program** |
|---|---|
| 2.30 pm – 2.35 pm | Prayer song |
| 2.35 pm – 2.40 pm | Welcome address by<br>Prof. R Muthucumaraswamy<br>Dean(Research) |
| 2.40 pm – 2.50 pm | Valedictory address by<br>Dr C Anand Babu<br>Head(TIC) and Professor<br>Department of Chemical Engineering |
| 2.50 pm – 3.05 pm | Prize distribution by<br>Head (TIC) |
| 3.05 pm – 3.10 pm | Vote of Thanks |
| 3.10 pm – 3.15 pm | National Anthem |

**Thank you**

# SRI VENKATESWARA COLLEGE OF ENGINEERING

## SVCE INNOVATES 2018 - STUDENTS' RESEARCH DAY

### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

**List of projects received**

| S.No | Year / Sec | Name of the students (UG/PG) | Title | Name of the Mentor |
|---|---|---|---|---|
| 1 | Iˢᵗ year A | Kirubakaran B S<br>Naveen Kumar K<br>Arun G<br>Dhaneshwaran U | Touch-less Door Bell | Mr. D.S.Purushothaman |
| 2 | Iˢᵗ year A | Eshwaran K<br>Harish S<br>Ezhilvendhan K | Intra Site | Ms. Suganthi K |
| 3 | IVᵗʰ year A | Aadithya S<br>Abishekbaskar<br>Ashwin S<br>Harish A | Coordinating Multi-Agent Reinforcement learning for Decentralized Demand Side Management in Micro grids. | Dr KR Santha |
| 4 | IVᵗʰ year A | Akash S<br>ArunKarthik M<br>Bharathi Raj G | Adaptive Distance Protection Scheme For Smart Grids | Dr S G Bharathidasan |

| | | | | |
|---|---|---|---|---|
| 5 | IV<sup>th</sup> year A | Akshay.S<br>AkshayKumar.L<br>Heymadri Narayanan | Modelling, Simulation and Fabrication of Thin Film Transistor. | Ms. M.Sasikala |
| 6 | II year B | ShojaSherlin<br>S Varsha<br>S Ramkumar | Laser Vidyuth | Mr. M. Rajvikram |
| 7 | II year B | A Natarajan,<br>ShyamPrakash<br>Surya B | Efficient DC house wiring | Mrs. S. Anitha |
| 8 | I year A | Annam Annapurna<br>JajulaDeevana<br>Danush Karan<br>Kabish Kumar | Project Undazzle | Ms. K Suganthi |
| 9 | IV year B | Nethaji B<br>PrasannaSrinivas V<br>Sailaja Shankar Swain<br>Syed Saleem A | Energy harvesting using Low cost Multi-Layered Piezoelectric Tiles | Mr. D.S.Purushothaman |
| 10 | III Year A | Aravind S<br>Bharathraghavan T<br>Maria Clinton R<br>Moniesh Raj S | Automatic Parameter Analyser | Ms. S.Arulmozhi |
| 11 | III Year A | Jayaraman S<br>Giridhar S<br>Karan V<br>Karthikeyan S | Advanced smart cane for the visually challenged people. | Ms. K.S.Pavithra |
| 12 | III Year A | P Arunthathi<br>S Meenal | Electronic Sleep Inducer | Ms. K.S.Pavithra |

| 13 | II year A | S. Ganeshram K Gowtham | Carbon Monoxide Controller with Level Indicator. | Dr. S. Anand Babu, (Applied Chemistry) |
| 14 | III year A | Meghana N Amina Ulfath Salima Archana N | Body Battery for Cardiac pacemakers | Ms. Anitha S |
| 15 | II year A | S Kavinraj M K Devasanthosh K R Harisuriya | Home Automation System using Bluetooth and Arduino | Mr. V Mohanraj |
| 16 | III year A | Shri Lakshmi A Apoorva K | Wireless Power Transmission of Cosmic Energy | Dr. C. Gopinath |

**Total number of abstracts received: 16**
**Total number of students          : 51**
**Total number of mentors           : 16**

K R. San
14.3.18

HOD/EE

Sri Venkateswara College of Engineering,
Students Research Day (SVCE INNOVATES 2018)

26.3.2018

# REPORT

## Department of Electrical and Electronics Engineering

'Students Research Day 2018' which has now become an annual event, was held on the 23 March 2018 (Friday) in the Function hall at 9.30.AM. The event held under the name "SVCE' Innovates 2018, seeks to channelize the creative ideas of the students and their faculty mentors in to viable projects which would enhance the research output of the college and the knowledge base of the students and the mentors.

This year, the event was organized by the office of the Dean (Research) Dr.R.Muthucumaraswamy and the UG members of the student council, additionally they were supported by the faculty coordinators from EEE department. The initial circular, inviting the UG and PG students of the various departments of the college to submit their abstracts was released on the 5th February 2018. A copy of the circular is enclosed. Students were allowed to group themselves in to batches of 2 to 4 students per batch and were to be mentored by a faculty member.

The response from the students was very enthusiastic in spite of the tight academic schedule. Around 16 batches of students submitted the abstracts of their ideas.

We have arranged four external judges from academics and Research Institution and six judges from our institution (one from each stream) to evaluate the displayed projects.

On 23.3.2018(Friday), after welcome address by the Dean (Research), the event was inaugurated by our Vice Principal Dr K R Santha, Professor and Head/EE. Vice principal appreciated the students who take part in research competition. He is also advised and motivated the students take part in research activities apart from academics.

A table was provided to each of the shortlisted batches, where they put up a poster, a hardware model and a laptop for power point presentation. They spent more than 3 hours and examined each of the project ideas in detail. They were appreciating the ideas put up by the students and for the record recommended that prize can be given to the ideas. The judges also felt that some of the ideas can be commercialized. Apart from the prize winners, participation certificates were issued to all the students. We are also distributed the certificate of appreciation to all the mentors.

We are also planned to conduct invited talk on Joy of Research for students. Dr C Balaji, Professor, Department of Mechanical Engineering from Indian Institute of Technology Madras, gave very inspired talk on research.

The valedictory function was held in the afternoon at 2.30 PM in Function Hall. We invite Dr C Anand Babu, Head, Technology Innovation Centre and Professor/CH, for the Valedictory function to distribute cash prizes and appreciation certificates. Head (TIC), address the Students, he commended the students for their excellent work and suggested that these should be further pursued and converted in to patents and entrepreneurial venture. Vice Principal had spent more than 1.00 hour looking in to various projects and encourage their ideas.

**Prize winner's in SVCE Innovates 2018-EEE**

| S.No | Branch | Name of the students | Project Title | Name of the mentor | Prize |
|------|--------|----------------------|---------------|--------------------|-------|
| 1 | EE | Akash S (IV-A) ArunKarthik M (IV-A) Bharathi Raj G (IV-A) | Adaptive Distance Protection Scheme For Smart Grids | Dr S G Bharathidasan | First Rs. 300/- |
| 2 | EE | Nethaji B (IV-B) PrasannaSrinivas V Sailaja Shankar Swain Syed Saleem A | Energy harvesting using Low cost Multi-Layered Piezoelectric Tiles | Mr. D.S.Purushothaman | Second Rs. 200/- |

**Department Organizer**

D. S PURUSHOTHAMAN
AP / EEE

**HoD/EEE** 26.3.18