**Sri Venkateswara College of Engineering,**

**Students Research Day (SVCE INNOVATES 2019)** 28.3.2019

**REPORT**

‘Students Research Day 2019’ which has now become an annual event, was held on the 22 March 2019 (Friday) in the Function hall at 10.00 AM. The event held under the name “SVCE’ INNOVATES 2019, 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 each department as mentioned in Annexure I. The initial circular, inviting the UG and PG students of the various departments of the college to submit their abstracts was released on the 15th February 2019. A copy of the initial 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 of the college. Around 167 batches of students submitted the abstracts of their ideas. The abstracts from the departments were segregated in to 9 streams.

1. Automobile Engineering
2. Biotechnology
3. Chemical Engineering
4. Civil Engineering
5. Computer Science and Engineering
6. Electrical and Electronics Engineering
7. Electronics and Communication Engineering
8. Information Technology
9. Mechanical Engineering and Marine Engineering

We have received 167 abstracts from all branches of Engineering; around 408 students are participated in the research competition. The number of abstracts received from each department and the corresponding number is given in

Annexure II.

Eight internal judges and two external experts from academics and Research Institution (one from each stream) were identified to evaluate the ideas and the details are listed in Annexure III:

On 22.3.2019(Friday), after welcome address by the Dean (Research), the event was inaugurated by **Dr K P Jaya, Director(Research), Professor, Division of Structural Engineering, Anna University**, Chennai and our Secretary preside over the function. Secretary appreciated the students who take part in research competition. He is also advised 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. The experts 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 mentioned in Annexure IV. 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.

The valedictory function was held in the afternoon at 2.30 PM in Function Hall. Our Principal preside over the Valedictory function to distribute the cash prizes for winners (9 first prizes, 7 second prizes and 3 third prizes) along with the certificate of appreciation for the first three places. Principal appreciated all the participants and prize winners for their active participation and suggested that these should be further pursued and converted in to patents and entrepreneurial venture.

Thanking you,

Yours truly,

(Dr. R. Muthucumaraswamy)

Dean (Research)

**Annexure- IV**

**Prize winner’s in SVCE Innovates 2019**

|  |  |  |  |  |  |
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| **S.No** | **Year and**  **Branch** | **Name of the students** | **Project Title** | **Name of the mentor** | **Prize** |
| **1.** | **AE**  **II Year** | Sudharsan Ananth  S.Shri ram  S.Suresh | Smart car with advanced battery technology | Mr. K. E. Kumaraguru | **First**  **Rs. 500/-** |
| **2.** | **AE**  **III year** | S. Karthik  K.K. Kiran  R. ManojKumar | Adaptive control technique for fuel injection system | Dr. V. Ganesh | **Second Rs.300/-** |
| **3.** | **BT**  **II year** | Anusuya Narayanan  Shakunthala N  Ashwin A | Novel corn husk based products as a substitute for non – biodegradable polymers | Prof. Nalinkanth V. Ghone | **First**  **Rs. 500/-** |
| **4.** | **BT**  **M.Tech**  **II year** | J. L. Rini | Polyhydroxybutyrate production by *Pseudoxanthomonas species* (NCIM 5309) using biodiesel waste-derived crude glycerol as a sole carbon source- “A statistical approach” | Ms. V. Sumitha | **Second Rs.200/-** |
| **5.** | **BT**  **II year** | Ishwarya N K | All in one green coffee enriched with chorogenic acid | Dr E Nakkeeran | **Third**  **Rs. 200/-** |
| **6.** | **CE**  **IV year** | Chetan Narayan  Kapil Dev  Narasimman Sathiyaraj | Partially replacement of coarse aggregate by using  e-waste | Dr. Venkateswara Rao | **First**  **Rs. 500/-** |
| **7.** | **CH**  **II year** | N N Harish Kumar  R Aaanya  P Dhinesh Kumar | Enhancement of Water treatment with Use of Moringa Olifera as Biocoagulant | Ms. A C Vijayalakshmi | **First**  **Rs. 500/-** |
| **8.** | **CS** | Athmaja R  Barath Aakaash L A  Kabilesh R  R. Adithya | Kill a WATT | T Rajasekaran  AP/CS | **First**  **Rs. 500/-** |
| **9.** | **CS**  **II year** | Ganesh Prabhu V  Harish Sandesh S | Glimpse - Advanced Safety Path Finder | Mr. K. Srinivasan | **Second**  **Rs. 500/-** |
| **10.** | **CS**  **I Year** | S.Surajram  Sree Vishal .R  Swatika Ayyappan | Voice based Email for the visually challenged | Ms. G. Janakasudha | **Third**  **Rs. 300/-** |
| **11.** | **EC**  **II year** | lOKESH .s   1. KEERTHI rAj   R.NARENDIREN | DRONES AS A FIRST RESPONSE VEHICLE | S.SANGEETHAPRIYA | **First**  **Rs. 500/-** |
| **12.** | **EC**  **III year** | V. AAKASH  R. ANUSHYA  C. AJITHA | 2-d laser engraver | T.J. JEYAPRABHA | **Second**  **Rs. 300/-** |
| **13.** | **EC**  **III year** | N.MARIAPPAN | ARTIFICIAL INTELLIGENCE IN HOME AUTOMATION | S.M.MEHZABEEN | **Third**  **Rs. 200/-** |
| **14.** | **EE**  **II year** | P.S.Kirbakaran  M.Kishore | Sensing and Controlling of Gas Leakage | Mr M.Rajvikram | **First**  **Rs. 500/-** |
| **15.** | **EE**  **III year** | K.R.Harisuriya  S .Chandru  R.Monish  Ganeshram | Ion Thruster to Drive Train | Mr D S Purushothaman | **Second**  **Rs. 300/-** |
| **16.** | **IT**  **II year** | Kaaviya Baskaran  Kapilaa Ramanathan  Laksha Shankar | Pothole Tracking | Mr.V.Rajaram | **First**  **Rs. 500/-** |
| **17.** | **IT**  **II year** | Rahul.R.K  Vedith.R  Shravan Srinivasan | Self Driving Cars Simulation | Ms.S.Jerusha | **Second**  **Rs. 300/-** |
| **18.** | **ME**  **II Year** | Punith Krishnan G  Rajkumar S P  Syed Afridhis S K | Smart helmet - IOT | Dr. S Gopinath  ASP/ME | **First**  **Rs. 500/-** |
| **19.** | **MR**  **IV year** | Jegatheeshan.R  Rahul.D  Sivakumaran.S  Ayyasamy.R | Vapour Absorption Refrigeration using Waste heat from engine exhaust | Mr.S.G.Karthik | **Second**  **Rs. 300/-** |

**Total prize Money: Rs.7200/-**

**SVCE INNOVATES 2019 - STUDENTS’ RESEARCH DAY**

**Annexure – III**

**List of Panel of Judges to review the Projects**

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| **Dept** | **Name of the Judge** | **Dept** | **Name of the Judge** |
| **AE** | **Dr R Ramesh**  Professor and Assistant Dean(Academics)  Department of Mechanical Engineering | **EC** | **Dr.K.Vidhya**  Professor,  Saveetha School of Engineering |
| **BT** | **Dr C Anand Babu**  Professor and Head(TIC)  Department of Chemical Engineering | **EE** | **Dr K Sundararaman,** Associate Professor  Department of Electrical and Electronics Engineering |
| **CE** | **Dr Venkateswara Rao**  Professor and Head  Department of Civil Engineering | **IT** | **Dr R Anitha**  Professor and Head  Department of Computer Science and Engineering |
| **CH** | **Dr N Meyyappan**  Professor and Head  Department of Chemical Engineering | **ME** | **Dr J Venkatesan**  Professor and Head  Department of Automobile Engineering |
| **CS** | **Dr T Ruso**  Associate professor  Department of Computer Science and Engg.  Saveetha School of Science and Engg. | **MR** | **Dr T Raja**  Professor  Department of Mechanical Engineering |