University Visvesvaraya
College of Engineering

kagada 18

6th October 2018

Fifteenth National
Student Conference

UVCE & IEEE UVCE

Established in the year 1917 by Bharat Ratna Sir M Visvesvaraya, University Visvesvaraya College of Engineering (UVCE) is an AICTE approved establishment imparting education in B.E, M.E, B.Arch, M.Sc (Engineering) and Ph.D degrees in the various disciplines of Engineering and Architecture.

A year after completing its centenary year, this pioneer college has marked its name amongst one of the most prestigious institutions in the country. The college hosts a number of successful technical and non – technical events with diligent efforts from the students. The college boasts of quality placements every year while taking pride in its students opting for higher education and alumni's successful entrepreneurship ventures. In a way, UVCE not only shapes the careers of its students but also makes them fit to face the real world challenges that are posed in the society.

IEEE UVCE has come to be one of the most recognized student branch across the Region 10 of IEEE. Rekindled in 2001, the student branch has since grown to a strength of over 200 student members.

The organization's commitment towards enhancing and upgrading the core knowledge base of its members to the industry standards is reflected in the host of activities organized by it throughout the year. Symposiums, guest lectures, hands-on workshops, the National Level Paper Presentation Contest - KAGADA, the National Level Technical Fest – IMPETUS; intra-collegiate activities - RIPPLES and industrial tours are some of the events held all through the year. Our diligent efforts haven't been left unrecognized. IEEE UVCE was awarded the Exemplary Student Branch in Region 10 for the year 2016.

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Kagada is an annual technical Paper, Poster and Project presentation contest conducted by IEEE UVCE. We, at IEEE UVCE, fervently believe that the cause of furthering technical knowledge cannot be achieved in the class room alone.

Kagada which was recently conferred the Darrel Chong Platinum Level Student Activity Award, aims to break the barriers, limitations and the image of being just a student by encouraging contestants to pursue research at the Undergraduate level. Kagada provides a conducive platform for vivacious students to sharpen their technical intellect, presentation skills and exchange ideas and learn from one another and ultimately become better engineers in the progress.

KAGADA 2018 comprises of five sessions, viz.

· Paper Presentation (UG Students)

· Paper Presentation (PG Students)

· WIE Paper Presentation

· Poster Presentation

· Project Exhibition session

WIE - Women in Engineering Paper Presentation Session (UG students): A novel idea, in order to encourage women researchers, KAGADA 2018 would be hosting an exclusive WIE session, the conditions to participate in this session are:

· At least one of the authors should be women.

· The oral presentation should be given on the day by the woman author.

Topics can be chosen from any engineering field. Few topics are listed for your reference.

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Advances in Computing:

1. Artificial Intelligence and Machine Learning
2. Big data: Storage, Transmission and Mining
3. Disaster Detection and Management Systems
4. Machine Vision and Image Processing
5. Natural Language Processing and Machine Translation
6. Mobile Computing and Wireless Communication
7. Network and Cyber Security
8. Cloud Computing in Science and Engineering
9. Multicore Memory Coherence
10. 3D Imaging Techniques and Multimedia Applications
11. Databases and Information retrieval
12. Graphics, Visualization and Multimedia
13. Software architecture
14. Computer and Information security
15. Bioinformatics and Applications
16. Grid and cluster computing
17. Formal methods and Applications
18. Internet Computing

19. Web- Based System/Technology

20. Image Processing & Pattern Recognition

Electronics:

Electronics Circuits and systems:

1. High performance Analog, digital, mixed signal systems and processor

2. Integrated systems and circuits, ultra-low power VLSI and system on chip

3. Sensors and Devices

4. Embedded processing and fuzzy systems

Advanced signal processing:

1. Image, video, audio and speech coding

2. Biomedical signal processing and biomimetic

3. Brain machine/computer interaction and interface

4. Emerging technologies in DSP

5. Applied signal processing

Novel research and technology:

1. Quantum computing

2. MEMS, NEMS sensors and devices

3. Optoelectronics sensors, materials, network and processing

4. Nano photonic devices, system and networks

5. Microwave photonics devices

6. Nano electronics

Electrical:

1. Power electronic devices and systems

2. Electromagnetic interference and compatibility

3. Power System Planning and Operation towards a Low-Carbon Economy

4. Smart DC Distribution Systems

5. Power distribution systems

6. Power Switchgear Technology and Applications

7. HVDC Systems and Technologies

8. Stability and Control of Electric Energy Systems with an Increasing Level of Non-dispatchable Generating Sources

9. Real-Time Applications of Intelligent Methods in Sustainable Power and Energy Systems

10. Analysis and Simulation of Very Large Power Systems

11. Synchro phasor Applications in Power Systems

12. Power factor regulation and Harmonic pollution reduction

13. Power management and distribution

14. Sustainable energy and alternative energy resources

15. Electric vehicular technology and automation

Mechanical:

1. Thermal and fluid science

2. Engineering Materials

3. Alternative fuel technology

4. Design manufacturing and production development

5. Energy science and engineering

6. Computational fluid dynamics

7. Alternative and sustainable energy system and resources

8. Dynamics, vibrations and acoustics

9. Robotics

Smart Grid Technology:

1. Transportation Electrification and Vehicle-to-Grid Applications

2. Cyber, Physical and System Security for Smart Grid Control Theory and Technology in Smart Grid

3. Energy Storage Applications for Smart Grid

4. Analytics for Energy Forecasting with Applications to Smart Grid

5. Smart Grid Communication Systems: Reliability, Dependability & Performance

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->A stall will be provided on the day of the conference for promotion

->All the fest merchandise shall bear the company's name.

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Looking forward to your active participation!
Thank you!
Team IEEE UVCE. High Energy Electrons at work!

Kagada 17 at a glance