

**XIV National Conference on  
Emerging Trends in Engineering**

❖ **PATRONS**

- Hon. Smt. Sumanmala B. Mulak**  
(Chairperson ,B.C.Y.R.C., Nagpur)  
**Hon. Shri. Rajendraji B. Mulak**  
(Hon. Secretary, B.C.Y.R.C., Nagpur & Ex-Minister  
Govt. of Maharashtra)  
**Hon. Shri. Yashraj R. Mulak**  
(Treasurer, B.C.Y.R.C., Nagpur)  
**Hon. Sau. Prerana R. Mulak**  
(Managing Director , B.C.Y.R.C., Nagpur)

❖ **NATIONAL ADVISORY COMMITTEE**

- Prof. Pratapsinh K. Desai**  
(President, ISTE, New Delhi)  
**Dr. Sandip M. Salodkar**  
(Vice-Chancellor, A.P.J. Abdul Kalam University,  
Indore)

❖ **TECHNICAL ADVISORY COMMITTEE**

- Dr. P. M. Padole**  
(Professor, VNIT, Nagpur)  
**Dr. Sachin Borse**  
(Asso. Professor, Shagra University, Kingdom of  
Saudi Arabia)  
**Dr. A. K. Dharpe**  
(Professor, IIT, Delhi)  
**Dr. V. G. Arajpure**  
(Principal, Jalgaon.)  
**Dr. A. M. Bisen**  
(Professor, IIT, Ahmadabad)  
**Dr. Jaspritsingh Oberoi**  
(Professor, B.B.B.C.O.E., Fatehgarh Saheb, Punjab.)  
**Dr. Manoj Kumar**  
(Professor, DIT University, Dehradoun.)

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**Dr. Valsson Varghese**, HOD, Dept. of Civil Engg.  
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**Dr. P. D. Khandait**, HOD, Dept. of ETRX Engg.  
**Dr. S. Randhir**, HOD, Dept. of M.B.A.

❖ **CONVENER**

- Dr. C. C. Handa**, Professor & HOD,  
Dept. of Mech. Engg.

❖ **CO-CONVENER**

- V. N. Mujbaile**, Asst. Professor, Mech. Engg. Deptt.

❖ **ORGANIZING COMMITTEE**

- Dr. A. V. Vanalkar** Mech. Engg. Deptt.  
**Dr. S. R. Ikhar** , Mech. Engg. Deptt.  
**Mrs. P. S. Randive** Civil Engg. Deptt.  
**Mrs. S. R. Gawande** Elec. Engg. Deptt.  
**Mr. A. P. Nachankar** C.T. Engg. Deptt.  
**Mr. H. V. Gorewar** I.T. Engg Deptt.  
**Mr. V. N. Mahawadiwar** ETRX Engg. Deptt.  
**Prof. P. R. Gajbhiye** Mech. Engg. Deptt.  
**Prof. B. D. Sarode**, Mech. Engg. Deptt.

❖ **STUDENT CO-ORDINATORS**

- Mr. Saurav Chakrabarty** - 8976463367  
**Mr. Pawankumar Rahangdale** - 7875114095  
**Mr. Bhuvanesh Balki** - 7387213593  
**Mr. Aditya Mohanty** - 9890892312



Backward Class Youth Relief Committee's  
**K.D.K. COLLEGE OF ENGINEERING, NAGPUR**

Great Nag Road, Nandanvan, Nagpur-440009  
Tel. No. : 0712-2711400, 2710030 Fax : 0712-2713658



E-mail : [spark2018@kdkce.edu.in](mailto:spark2018@kdkce.edu.in)

Website : [www.kdkce.edu.in](http://www.kdkce.edu.in)

Ref. no.:-

Date :- 23/02/2018

To,  
The Principal / Head

Dear Sir/ Madam,

The K.D.K. College of Engineering, Nagpur is proud to announce the conduction of SPARK-2018 – XIV National Conference on Emerging Technology Trends in Engineering. SPARK-18 is an Interdisciplinary National level paper presentation event encompassing the themes from various Mechanical, Computers, Electrical, Civil and Electronics Engineering as well as General Science and Management. The event is scheduled on 16<sup>th</sup> March 2018(Friday) and is sponsored by ISTE, New Delhi.

It is an excellent platform for budding technocrats to explore their research talents and innovative ideas in Engineering & Technology. This conference also aims at making the students, academicians and researchers aware of writing technical paper and adopting recent techniques for presentation.

The conference will also run best paper award and cash prizes under following areas in SPARK-2018.

- Area 1: Civil Engineering.
- Area 2: Mechanical Engineering
- Area 3: Electrical Engineering
- Area 4: Computer and Information Technology
- Area 5: Electronics Engineering
- Area 6: General Science and Humanities
- Area 7: Management

**Eligibility**

Open for UG/PG Students, Academicians and Research Scholars of Computer & Information Technology, Electronics Engineering, Mechanical Engineering, Civil Engineering, Electrical Engineering, General Science, MBA and other related disciplines.

The authors are invited to submit their full papers in MS-Word document in IEEE format to mail id [spark2018@kdkce.edu.in](mailto:spark2018@kdkce.edu.in)

**Important Dates:**

<b>Paper Submission Deadline</b>	10- 03 - 2018
<b>Notification of Acceptance</b>	11 - 03 - 2018
<b>Conference Date:</b>	16 - 03 - 2018

For more detail please visit website: [www.kdkce.edu.in](http://www.kdkce.edu.in)

We will be highly obliged if you undertake to guide, inspire and encourage as many participants as possible to contribute their paper and participate in the above mentioned event from your esteem institute.

Necessary guideline has been indicated in the poster and brochure enclosed herewith. We kindly request you to display on the notice board for wide publicity among students.

Prof. V. Mujbaile  
**Co-convener**

Dr. C. C. Handa  
**Convener**

Dr. A. M. Badar  
**Vice- Principal**

Dr. D. P. Singh  
**Principal**

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Date :-

**Event Schedule**

Sr. No.	Event	Date & Day	Time	Venue
1	Registration of Participants	16/03/2018 Friday	9.00 AM	Mechanical Engineering Department
2	Inauguration	16/03/2018 Friday	11.00 AM	Auditorium
3	Spark-2018 Paper Presentation	16/03/2018 Friday	11.30 AM Onward	Departmental Seminar Hall
4	Prize Distribution & Valedictory function	16/03/2018 Friday	04.30 PM	Auditorium

**Prof. V. Mujbaile**  
**Co-convener**

**Dr. C. C. Handa**  
**Convener**





# K.D.K. COLLEGE OF ENGINEERING, NAGPUR

## DEPARTMENT OF MECHANICAL ENGINEERING



# स्पर्क

## XIV National Conference on Emerging Technology Trends in Engineering

ATTRACTIVE PRIZES

**PAPER PRESENTATION**

Entry Fee Per Author - ₹ 300

16<sup>th</sup> March 2018

For any queries mail to : [spark2018@kdkce.edu.in](mailto:spark2018@kdkce.edu.in)  
or visit : [www.kdkce.edu.in](http://www.kdkce.edu.in)

\*Certificates will be issued to all the registered participants.

**Important Dates**

Last Date of Paper Submission  
10<sup>th</sup> March, '18

Intimation of Paper Selection  
11<sup>th</sup> March, '18

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### Area 1) Mechanical Engineering

- Finite Element Analysis
- New Trends in Automobile
- Mechatronics & Nano Technology in Mech. Engg.
- Thermal Engineering
- Non-Conventional Energy System
- New Trends in Manufacturing
- CAD / CAM / CAE & Design
- Robotics
- Six Sigma/Lean Manufacturing
- Refrigeration, Air Conditioning & Cryogenics
- Agriculture Machinery & Food Processing Machines
- Rural Technologies

### Area 2) Electrical Engineering

- Renewable Energy Technology.
- Energy Audit and Management.
- Drives, Control & Automation.
- Power Quality Monitoring & Measurement.
- FACTS and it's Application
- Recent Trends in Electrical Engineering.

### Area 3) Civil Engineering

- Environmental Engineering
- Hydraulics Engineering
- Geo-Technical Engineering
- Earth Quake Resistant Structure
- Computer Application in Civil Engineering
- Smart Structure
- GIS
- Rehabilitation of Structures

### Area 4) Electronics Engineering

- CMOS and VLSI
- Analog Electronics (Applications)
- Biometric / Bio-informatics
- Wireless Communications
- DSP and DIP
- Advance Sensors
- Fuzzy Logic & Neural Network

### TOPICS FOR PAPER PRESENTATION

### Area 5) Computer and Information Tech.

- Virtualization Techniques
- Cloud Computing
- Artificial Intelligence
- Image Processing and Computer Vision
- Image Forensics
- Pattern Analysis & Recognition
- Data Mining and Warehousing
- Wireless Communications
- Real Time Operating Systems
- Internet of Things
- Cyber Security

### Area 6) General Science & Humanities

- Green Chemistry
- Energy Efficient Homes
- Fuel Cell Technology
- Nanomaterials
- Engineering Materials & their Scope

### Area 7) M.B.A.

- Indian Financial Sector - Reforms, Regulations & Innovations
- Financial Markets in India : Issues & Developments
- Financial Crisis : Causes, Impacts, Solutions
- Technology Based - Entrepreneurship
- Impact of Demonetisation
- Management Education - Issues, Challenges & Opportunities





# KDKCE'S SPARK

XIV National Conference on  
Emerging Trends in Engineering

16<sup>th</sup> March 2018



Organized By

**K. D. K. College of  
Engineering**

Great Nag Road, Nandanvan  
Nagpur – 440 009

Coordinated by:

**Department of Mechanical  
Engineering**

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Contact Email: [spark2018@kdkce.edu.in](mailto:spark2018@kdkce.edu.in)

## K. D. K. COLLEGE OF ENGINEERING AT A GLANCE

Karmaveer Dadasaheb Kannamwar College of Engineering (KDKCE) estd. in 1984, is affiliated to Nagpur University, approved by the Director of Technical Education, Mumbai and All India Council for Technical Education (AICTE), New Delhi offering courses in: Mechanical Engineering, Electrical Engineering, Civil Engineering, Computer Technology, Information Technology & Electronics Engineering. Mechanical Engineering, Electrical Engineering & Civil Engineering Programmes of the institute were accredited by the National Board of Accreditation, New Delhi. College is awarded Grade 'A' by DTE Mumbai and accredited by Institute of Engineers (I), Kolkata.

## ABOUT NAGPUR

Nagpur is the second capital of Maharashtra famous for oranges and also known as the Orange city and city of historical status. Situated in the center of country "Zero Mile" is located in Nagpur. The largest industrial estate in Asia of approx 6,000 hectares is being developed at Butibori, close to Nagpur. The Nagpur airport has been upgraded as an international Cargo Hub. Presently Nagpur is Growth Engine City.

## ELIGIBILITY

Undergraduate (BE) and Post Graduate (ME, M Tech, MBA) Students of engineering colleges, are eligible to Participate.

## REGISTRATION

Registration Fee Rs. 300/- Per Participant  
(Certificate will be awarded to Registered participants only)

## PAYMENT MODE

Cash / DD /Cheque in favor of "**Principal, KDKCE, Nagpur**", payable at Nagpur.

For online payment use following account details

Bank Name : Tirupati Urban Co-  
Operative Bank Ltd.,  
Nagpur

Address: KDKCE, Nagpur

Account No. : 009002300000642

IFSC Code : HDFCOCTUB09

MICR Code : 440344009

## TOPICS FOR PAPER PRESENTATION

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- Image Forensics
- Pattern Analysis & Recognition
- Data Mining and Warehousing
- Wireless Communications
- Real Time Operating Systems
- Internet of Things
- Cyber Security

### Area 6) General Science & Humanities

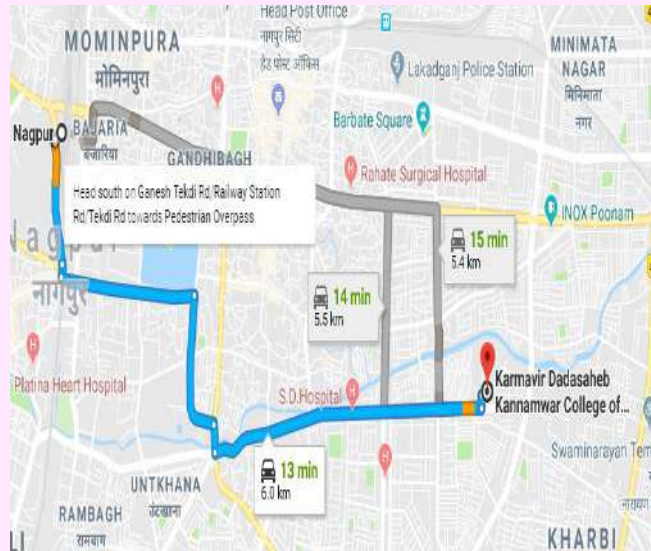
- Green Chemistry
- Energy Efficient Homes
- Fuel Cell Technology
- Nanomaterials
- Engineering Materials & their Scope

### Area 7) M.B.A.

- Indian Financial Sector - Reforms, Regulations & Innovations
- Financial Markets in India : Issues & Developments
- Financial Crisis : Causes, Impacts, Solutions
- Technology Based - Entrepreneurship
- Impact of Demonetisation
- Management Education - Issues, Challenges & Opportunities

### LOCATION

The College is conventionally situated in the heart of city at Nandanvan layout, which is close to State Transport Bus Stand (about 4 Km) and Nagpur Railway Station (about 5 km).



### IMPORTANT DATES

Last date of Application – **10/03/2018**  
Date of confirmation – **11/03/2018**  
Contact Mail: [spark2018@kdkce.edu.in](mailto:spark2018@kdkce.edu.in)

### ADDRESS FOR CORRESPONDENCE:

**Prof. V. N. Mujbaile**  
Co-Convener,  
**KDK College of Engineering,**  
Nandanwan, Nagpur – 440 009  
Cell No. :- 9764444505  
Email ID : [mujbailevn@gmail.com](mailto:mujbailevn@gmail.com)

## REGISTRATION FORM



XIV National Conference on  
Emerging Trends in Engineering

Name : \_\_\_\_\_

Branch : \_\_\_\_\_

College/ Institution : \_\_\_\_\_

Details : \_\_\_\_\_

Address : \_\_\_\_\_

Cell No. : \_\_\_\_\_

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

Payment Details : \_\_\_\_\_

DD No./ College Receipt : \_\_\_\_\_

No./Online Payment No. : \_\_\_\_\_

Bank Name : \_\_\_\_\_

Date : \_\_\_\_\_

Signature of Participant : \_\_\_\_\_

### FORWARDING CERTIFICATE

The applicant is hereby recommended & will be permitted to participate in the Conference.

Signature of Authority : \_\_\_\_\_

(Seal and sign of Forwarding Authority)