

## The Institution

Government college of Engineering ,Keonjhar proudly presents itself as one of the premier institute in Northern Odisha near the foothills of Judia Ghat. The establishment of this institute is itself a revolutionary accomplishment and a constant source of inspiration since its inception in 1995 . We currently offer B.tech courses for Mechanical ,Electrical ,Mining ,Metallurgy ,CSE and Civil Engineering.

It has carved a niche for itself in Odisha for academic excellence and holistic development of student placing it as one of the top rated college in the state .The mission of the college is to provide quality education accessible even to the lowest strata of the society .The college strongly believes in channelizing the productive endeavours of students and staffs towards research and innovations to create and share knowledge in global context.

## About SMA

Society of Mechanical Advancements (SMA) was established in order to serve as a platform for the collaboration of students with the industries. SMA aims to improve the practical knowledge of the students by organizing various competitions, seminars, training, conferences, publications and other professional activities to tackle the changing industrial scenarios and challenges.

## Call for Paper

Technical research papers for processing /oral presentation of original work are invited for academicians ,researchers, scholars ,people from industries and students working on major /minor projects covering experimental and theoretical aspects of any of the proposed topics.

## Call for Innovative Project Models

Become a part of our innovation challenge to demonstrate innovative project models at GCE, Keonjhar campus. Win exciting prizes worth ₹ 15000!

## Important Dates

|  |                      |
|--|----------------------|
| Abstract/Full Paper Submission Last Date | 15 <sup>th</sup> Feb |
| Intimation of Acceptance of Paper        | 18 <sup>th</sup> Feb |
| Request for Accommodation on or before   | 21 <sup>st</sup> Feb |
| Last Date of Registration                | 22 <sup>nd</sup> Feb |

SPONSORSHIP

|          |            |
|----------|------------|
| Diamond  | ₹ 75,000/- |
| Platinum | ₹ 60,000/- |
| Gold     | ₹ 45,000/- |
| Silver   | ₹ 30,000/- |
| Bronze   | ₹ 15,000/- |

## Important Note

For submission of abstract and full paper, do visit our website, [www.smagceekjr.org](http://www.smagceekjr.org), or mail us at [ame@gceekjr.ac.in](mailto:ame@gceekjr.ac.in). We will provide all allowances for invited guest.

## Mailing Address

**Dr. Ramesh Chandra Mohapatra**

(Convenor-AME'19, Head)

Dept. of Mechanical Engineering

Govt. College of Engineering ,Keonjhar

At: Jamunalia PO: Old town

PIN:758002

Keonjhar,Odisha

## Student Organizers\*

**Ankit Kumar Sahoo** +91-9861959886

**Anupam Ray** +91-8917606426

**Sameerdev Satpathy** +91-7008614949

**Dibyajit Parida** +91-7735937778

\*Contact for details about hospitality and travel.

## Contact Us

**Dr. Ramesh Chandra Mohapatra**

(Convenor-AME'19, Head)

[ame@gceekjr.ac.in](mailto:ame@gceekjr.ac.in)

[rc\\_mohapatra@gceekjr.ac.in](mailto:rc_mohapatra@gceekjr.ac.in)

[dayanidhijena\\_fine@gceekjr.ac.in](mailto:dayanidhijena_fine@gceekjr.ac.in)

[sudhansumishra\\_fine@gceekjr.ac.in](mailto:sudhansumishra_fine@gceekjr.ac.in)

+91-9438551072

+91-7750865106

+91-9438 5330 60

Powered by

**TE@IP-III**

Technical Education Quality Improvement Programme

[www.gceekjr.ac.in](http://www.gceekjr.ac.in)  
[www.smagceekjr.org](http://www.smagceekjr.org)

National Conference on

## ADVANCES IN MECHANICAL ENGINEERING

THEME: Advanced trends in Mechanical Engineering towards Industrial Sustainability



Jointly Organized by  
**Department of Mechanical Engineering**  
&  
**Society of Mechanical Advancements**  
in association with  
**Government College of Engineering Keonjhar**



## Objective

Aim of the seminar is to bring industrial communities ,students ,researchers and various academicians together to share knowledge and ideas on a common platform among them .

The discussions and presentations will include the ideas behind the recent advancements in Mechanical Engineering and their combined effort towards the sustainable development.

The ideas and research output from the industries and academia discussed during this symposium will be beneficial to all participants.



## Themes

### Material Development and Characterisation

- ▶ Light metals and alloys
- ▶ Ceramics and composites
- ▶ Mechanical Metallurgy
- ▶ Tribology and surface eng

### Advanced Design and Analysis

- ▶ Strength of material
- ▶ CAD / CAM
- ▶ Failure Analysis
- ▶ Finite element methods
- ▶ Condition Monitoring
- ▶ Mechanism and Vehicle Dynamics

### Thermal Engineering

- ▶ HVAC System
- ▶ Aerodynamics
- ▶ Computational fluid dynamics
- ▶ Fluid Mechanics and Micro fluids
- ▶ Turbo Machinerics
- ▶ Automobile Engineering & Alternative fuels
- ▶ Combustion and Internal combustion Engine

### Advanced Manufacturing

- ▶ Casting and powder Metallurgy
- ▶ CNC Machining
- ▶ Welding and Forming
- ▶ Additive Manufacturing
- ▶ Modelling & simulation of manufacturing System
- ▶ Conventional & Non-Conventional Machining

### Industrial Engineering

- ▶ Precision Engineering & Metrology
- ▶ Product design & development
- ▶ Product & Operations Managements

- ▶ Soft computing Techniques
- ▶ Quality control and Reliability

### Robotics and Automation

- ▶ Industry 4.0
- ▶ Internet of Things
- ▶ Artificial Intelligence & Machine learning
- ▶ Mechatronics
- ▶ Sensors and Actuators
- ▶ Automatic control system

### Energy and Environment

- ▶ Renewable Energy Resources
- ▶ Pollution Control
- ▶ Electric Vehicle Technologies
- ▶ Waste Management
- ▶ PV Modules and Applications

## Industrial Academia

A special session that will emphasize and bridge together the vacuity between industries and academia

### PATRON

Dr. Trilochan Sahu

### CONVENER

Dr. Ramesh Chandra Mohapatra

### CO CONVENER

Prof. Dayanidhi Jena

### EDITORS

Prof. Sudhansu Sekhar Mishra

Prof. Sudhansu Meher

### CO-EDITOR

Prof. Partha Sarathi Mishra

### ORGANISING COMMITTEE

Dr. S K Mohapatra

Prof. N C Patel

Prof. R C Khamari

Prof. M K Senapati

Prof. D Agarwal

Prof. M Thakur

Prof. P Patanwar

Prof. S. Naidu Velagala

Prof. Suchit Kumar Gupta



## National Advisory Committee

**Dr. Antaryami Mishra**

(Chairman, SPIU, Odisha)

**Dr. Ashok Kumar Sahu**

(Chief Scientist, MPD, CSIR-IMMT, Bhubaneswar)

**Dr. Pradipta Kumar Senapati**

(Chief Scientist-Head, D&PD, CSIR-IMMT, Bhubaneswar)

**Dr. Santosha Kumar Dwivedy**

(Professor & Head, MDE, IIT Guwahati)

**Dr. Nilrudra Mandal**

(Senior Scientist, P&ED ,CSIR-CMERI, Durgapur)

**Mr. Rishabh Dev Sharma**

(Manager, Mahindra & Mahindra Swaraj Division, Mohali)

**Dr. S. C. Khattoi**

(Ex-GM OCL) Managing Director, Minmet Consultancy Pvt. Ltd. Keonjhar)

**Dr. Alok Ku. Das**

Professor, IIT(ISM) Dhanbad

**Dr. R. K. Swain**

(Principal, PMEC , Berhampur)

**Dr. Pusparaj Dash**

(Professor, VSSUT, Burla)

**Dr. Sribatsa Behera**

(Professor, CET, Bhubaneswar)

**Dr. Subhansu Sekhar Dash**

(Professor, EE Department, GCE, Keonjhar)

**Prof. Mukesh Bathre**

(HOD, CSE Department , GCE, Keonjhar)



## Registration Fee

|                                  |        |
|----------------------------------|--------|
| Student/Research scholar         | ₹ 500  |
| Delegates(Educational Institute) | ₹ 1000 |
| Delegates from Industries        | ₹ 1500 |