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**K. S. SCHOOL OF ENGINEERING & MANAGEMENT**

#15, Mallasandra, off Kanakapura Road, Bengaluru - 560109. Ph : 080-2842 5164

Web : [www.kssem.edu.in](http://www.kssem.edu.in)

The Management, Principal and Staff of Department of Civil Engineering

Cordially invite you for the inauguration

## **NCASM-2016**

National Conference on Advances in Structures and Materials

Wednesday 27<sup>th</sup> April 2016

### **Chief Guest**

**Dr. K. S. Jagadish**, Professor IISC (retd.)

### **Chief Patrons**

**Sri. Y. Ramachandra Naidu**, President, K S Group of Institutions

**Sri. K. Venkatesh Naidu**, B.E, Secretary, K S Group of Institutions

**Sri. D. Rukmanagada**, B.E, MBA, Treasurer, K S Group of Institutions

**Dr. S. N. Sridhara**

Principal / Director, KSSEM

**Dr. Vijayalakshmi Akella**

Professor & Head, Dept. of Civil Engg  
Chief Coordinator, NCASM-2016

**Venue : Aaryabhata Seminar Hall, KSSEM, Bengaluru - 560109      Time : 9:00 AM**



# NCASM - 16



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# **K. S. SCHOOL OF ENGINEERING AND MANAGEMENT**

**DEPARTMENT OF CIVIL ENGINEERING**

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**NATIONAL CONFERENCE ON  
Advances in Structures and Materials**



# NCASM - 16 PROCEEDINGS

**27<sup>th</sup> April 2016**



## Editorial message

It is my pleasure to present the proceedings of the National Conference on Advances in Structures and Materials NCASM-16 held at K S School of Engineering and Management on 27<sup>th</sup> April 2016.

I would like to express my appreciation to Sri Y Ramachandra Naidu, President, Sri K.Venkatesh Naidu, Secretary and Sri D. Rukmangada, Treasurer of K.S Group of Institutions for their continuous support and encouragement. My sincere thanks to Dr P.Bhanumuthy and Dr Kalgal, Dr Vyshali, for making the editorial process easier and smoother.

Attending an academic/professional Conference often means a chance for faculty to gain useful knowledge in both teaching and research. The purpose of this conference is not only to discuss the structural systems and their applications, but also to discuss advances in materials, trends and critical issues related to Structural Engineering.

This is the second year of conducting the conference and we are positive that we will be conducting in the future years ahead. This year we received far more submissions than we had expected. This Volume contains about twenty five refereed papers with more than fifty authors contributing to the conference. These papers have been gone through a rigorous double-blind review process.

The best papers will be considered for publication in the coming issues of International reviewer with ISSN No 2395-1575 an online Journal.

Finally, I would like to sincerely thank everyone for active participation in NCASM –16. Without the support from Principal Dr S .N Sridhara and the entire Faculty of Civil Engineering this would not have been possible. In addition the committee will greatly appreciate to receive ideas to improve the quality of NCASM in future.

We wish you enjoy the conference and look forward to seeing you again in the future NCASM conferences.

Dr Vijayalakshmi Akella  
Prof and Head  
Department of Civil Engineering  
K S School of Engineering and Management  
Bengaluru  
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NATIONAL CONFERENCE ON

ADVANCES IN STRUCTURES AND MATERIALS

NCASM - 16

27<sup>TH</sup> APRIL 2016

This is to certify that Mr./Miss./Mrs. PUNEETH. T of  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT has  
Published and Presented a paper titled Experimental Studies on bearing  
capacity of inclined skirted footings on C- $\phi$  Soil.  
in the National Conference on Advances in Structures and Materials on  
27<sup>th</sup> April 2016

**Dr. VIJAYALAKSHMI AKELLA**

Prof. and Head

Department of Civil Engineering

**Dr. S.N. SRIDHARA**

Principal