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**Welcome to 5th NCIME-2017 Website**

**Welcome Message**

On behalf of the Organizing Committee, we are honoured and delighted to welcome you to the fifth National Conference on Innovations in Mechanical Engineering (NCIME-2017), Organised by Department of Mechanical Engineering, Sinhgad Institute of Technology, Lonavala, Maharashtra. Lonavala is a hill station surrounded by green valleys in western India near Mumbai and Pune. The Karla Caves and the Bhaja Caves are ancient Buddhist shrines carved out of the rock. They feature massive pillars and intricate relief sculptures. South of the Bhaja Caves sits the imposing Lohagad Fort, with its 4 gates. West of here is Bhushi Dam, where water overflows onto a set of steps during rainy season. Since its inauguration in 2012, NCIME has developed into a reputed conference and is well attended by experts in all aspects related to Mechanical, Production, Automobile and Manufacturing from many parts of the Country. It provides an excellent forum for exchange of ideas among interested researchers, students, developers, and practitioners. The Conference is indexed by  **SCOPUS**, **Web of Science, Thomson Reuters and Google Scholar .**

NCIME-2017 is organized by the Department of Mechanical Engineering, Sinhgad Institute of Technology, Lonavala, Maharashtra. The conference is technically co-sponsored by Springer, Elsevier, Taylor & Francis. The Conference is technically supported by Springer, Elsevier, Taylor & Francis. NCIME addresses key topics and issues related to all aspects of Mechanical, Production, Automobile and Manufacturing will be presented in a program of technical sessions, panel discussions, and keynote speeches. All accepted and presented papers will be published in the conference proceedings and submitted to Abstracting and Indexing (A&I) databases.

The papers will be subjected to a rigorous review process by considering the significance, novelty, and technical quality of submissions. The papers will be scheduled for presentations in different sessions namely the best paper sessions, regular paper sessions, short paper sessions and poster paper sessions.

Organisation of such pretentious conference would not have been possible without the true blue efforts of many individuals. The NCIME-17 is obliged to hundreds of volunteers who contributed to the various processes that will make up the conference. It would not be possible for us to name every one of them in this short message. We would like to express our gratitude to the Advisory Committee members and reviewers who ready to share their technical expertise and assist us in reviewing all submitted papers. Thanks to the Organising Committee members for their guidance.

We would like to thank all the authors for choosing NCIME as a venue for presenting their research. Many thanks are also due to our distinguished keynote speakers and session chairs for their valuable contribution to the conference. Special thanks to all other members of the Organising Committee for their help and support in the organization of the conference.

We would like to thank Sinhgad Institute of Technology, Lonavala for hosting the conference. Sincere thanks to Dr. M. S. Gaikwad, Director STES Campus Lonavala, for his valuable suggestions and encouragement. Recognition should go to the Local Organizing Committee members who have all worked extremely hard for the details of important aspects of the conference programs and social activities. We also thank our student volunteers who helped with conference logistics, registration and the technical sessions.

We are extremely grateful to Springer, Elsevier, Taylor & Francis. We would like to thank our sponsors and supporters for their contribution to the conference. Finally, we thank all conference participants for making NCIME a success and hope that you have an enjoyable and fruitful stay in Lonavala. We look forward to your contributions and attendance in the future editions of the conference.

**Patron : Dr. M. S. Gaikwad [Director STES Campus Lonavala]**

**Organising Secretary : Dr. V. V. Shinde**

**Convener : Prof. A. G. Kamble**

**Coordinators : Prof. L. P. Puranik, Prof. A. P. Ogale and Prof. S. V. Karankoti**