

## EDITORIAL

We are happy to bring out the Volume – 13 of the Biannual journal of our college, CVR Journal of Science and Technology. This Volume is brought out in the first week of December 2017 itself, with the co-operation of all the contributors and the editorial team. We are thankful to the Management for supporting this activity, by encouraging us to publish the journal in colour print. This will enable to decipher the graphs, pictorial representations etc with more clarity. We are sure that researchers will appreciate this.

In this issue the first article is on GAN, the latest area in Deep Learning Networks of Computer Science field. Other areas covered are: SoC Implementation of AES 128 bit Algorithm for IEEE 802.6e, Vehicle Collision Avoidance System, Colour recognition Device for visually impaired persons, SPMSM Drive Control, Crash analysis using ANSYS workbench etc. We have received contributions from other institutes like Osmania University and Madawalabu University, Ethiopia. Copies of the Journals are being distributed to reputed institutions like IITs, NITs and Technical institutes. We expect contributions from these institutes also.

We are very happy to share with our readers that CVR College of Engineering is ranked **among the TOP 5 institutions, in the State of Telangana**, as per the **NIRF MHRD rankings**. It is ranked in the **101-150 band** of rankings by the **NIRF**. For a college which is about 16 years old, it is remarkable achievement. This made the management of the college to launch Mission 100, to be among the top 100 institutions in the country. Research activity plays an important role in this aspect. Hope the Journal and the contributors will help in improving the ranking of the institution. We are also happy to share with the readers that the college is **Accredited by NAAC with 'A' grade**. It is expected that the contributors will further enhance the reputation of the college through this Journal.

We have received good number of research papers for review, from our own faculty and from outside our institution also. A rigorous filtration process is done, anti plagiarism check using software, and review by experts are done. Finally research papers were selected for publication in the present volume.

This volume covers research articles in the branches of engineering, Humanities and Social Sciences. The breakup of the papers among the various branches is:

**CSE – 3, ECE – 7, EEE – 4, EIE – 1, IT – 1, MECH - 3, H & S- 1.**

The management is supporting the research and Ph.D Programmes by liberally sanctioning study leave for the faculty of this college. Faculty members working for Ph.D and on research projects are expected to contribute for the journal. Management is also encouraging the authors of research papers with incentives, based on merit. Some of the research articles accepted for publication in the forth coming Volume 14 are listed in Page No. 111.

I am thankful to all the members of the Editorial Board for their help in reviewing and short listing the research papers for inclusion in the current Volume of the journal. I wish to thank **Dr.S.Venkateshwarlu, HOD EEE and Associate Editor**, for the effort made in bringing out this Volume. Thanks are due to **HOD, H & S, Dr. E. Narasimhacharyulu** and the staff of English Department for reviewing the papers to see that grammatical and typographical errors are corrected. I am also thankful to **Smt. A. Sreedevi**, DTP Operator in the Office of Dean Research for the effort put in the preparation of the papers in Camera Ready form.

For further clarity on waveforms, graphs, circuit diagrams and figures, readers are requested to browse the soft copy of the journal, available on the college website [www.cvr.ac.in](http://www.cvr.ac.in), wherein a link is provided.

**Prof. K. Lal Kishore**  
**Editor**