



**INTERNATIONAL CONFERENCE ON “CHALLENGES
AND OPPORTUNITIES FOR INNOVATION IN NEW
NORMAL SCENARIO”**

ORGANIZED BY:

KSR Institute for Engineering and Technology

Approved by AICTE, Affiliated to Anna University, Chennai

(Mechanical, EEE, ECE, CSE & IT UG programmes are Accredited by NBA)

03 APRIL 2021

ISBN: 978-81-948668-3-1

**INTERNATIONAL CONFERENCE ON
“CHALLENGES AND OPPORTUNITIES FOR
INNOVATION IN NEW NORMAL SCENARIO”**

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Publish By:

A.R. Research Publication

Preface

Conference World and AR Research Publication is fast growing group of academicians in Engineering, Sciences and Management. AR Research Publication is also known for fast reply and zero error work. Conference world has organized a various conferences at renowned places namely Delhi University; New Delhi, Jawaharlal Nehru University; New Delhi, PHD Chamber of Commerce and Industry New Delhi, YMCA New Delhi, India International Centre New Delhi Sri Venkateswara college of Engineering and Technology, Andhra Pradesh, Dhananjay Mahadik Group of Institutions (BIMAT), Shivaji University, Maharashtra, Vedant Engineering Kota and many more places across the country.

We are very pleased to introduce the proceedings of the *International Conference on “Challenges and Opportunities for Innovation in New Normal Scenario”*. As for previous conferences, the theme was the link between the information provided by conference world and the use made of this information in assessing structural integrity. These were the issues addressed by the papers presented at the conference. The level of interest in the subject matter of the conference was maintained from previous events and over 142 suitable papers were submitted for presentation at the conference.

Papers were well represented in the conference to arouse a high level of international interest. Three countries were represented in the final program from Europe, North America and Asia. In the event, the conference was highly successful. The presented papers maintained the high promise suggested by the written abstracts and the program was chaired in a professional and efficient way by the session chairmen who were selected for their international standing in the subject. The number of delegates was also highly gratifying, showing the high level of international interest in the subject. This is also indicated by the large number of countries, 01 represented by the delegates. This Proceeding provides the permanent record of what was presented. They indicate the state of development at the time of writing of all aspects of this important topic and will be invaluable to all workers in the field for that reason. Finally, it is appropriate that we record our thanks to our fellow members of the Technical Organizing Committee for encouraging participation from those areas. We are also indebted to those who served as chairmen, without their support, the conference could not have been the success that it was. We also acknowledge the authors themselves, without whose expert input there would have been no conference. Their efforts made a great contribution to its success.

About College

The *K S R Institute for Engineering and Technology* is another landmark of the Aarthi Educational & Charitable Trust which has the perquisite of sprawling education proportionally to the society. It has been founded in the year 2011 by the man of great insight, Thiru.R. Srinivasan. He is the younger son of Lion Dr.K.S.Rangasamy whose altruism enlightens the society. His constant dreams and endeavors erected the dome of knowledge for quenching the long unanswered quest among the blooming minds.

The embellishment of the college holds the new doctrine of teaching, will be ideal for students to kindle the dormant spirit towards learning. The college is an optimal place for pedagogical as well as ethical values. The proficient stream of faculty along with the well-equipped laboratories and technical support foresee the dream of the students.

About Conference

International Conference on “Challenges and Opportunities for Innovation in New Normal Scenario” (ICCRITESM-2021) is a global event organized by KSR Institute for Engineering and Technology, Approved by AICTE, Affiliated to Anna University, Chennai, (Mechanical, EEE, ECE,CSE & IT UG programmes are Accredited by NBA) in association with International Association of Research and Developed Organization (IARDO) & Conference World conducted through Google meet. This conference provides an international forum for researchers, developers, engineers and practitioners who are involved in real time projects that provide solutions to exchange their valuable ideas and showcase the ongoing works which may lead to path breaking foundation of the futuristic engineering. It accentuates indispensability of interdisciplinary and cross – linked thinking with respect of innovation and market opportunities. Accepted paper will be published in International Journal with ISSN Approved by UGC . Selected papers will be published in Scopus Index Journals. All Accepted papers will be published in Conference proceeding having ISBN .

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K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY



Lion Dr. K. S. Rangasamy, M.J.F

Founder – President

MESSAGE

I am indeed happy to note that the all the departments of KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY are organizing their International Conference on “Challenges and Opportunities for Innovation in New Normal Scenario” – COINN-2021 on 3rd April 2021.

I am confident that this conference will provide an opportunity to the students to share and update their Knowledge. I am sure that this conference will be informative and useful to all the students who are participating and organizing.

I wish the conference a grand success and convey my appreciation to the Principal, Directors, Heads of various Departments, faculty members and students for their involvement in organizing this online conference in a successful manner during this pandemic.

With best wishes,

Dr.K.S.Rangasamy

Chairman



K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY



Mr. R. Srinivasan B.B.M.
Vice-Chairman

MESSAGE

It gives me immense pleasure to observe that all the Departments of **KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY** are conducting their International Conference on “Challenges and Opportunities for Innovation in New Normal Scenario” – COINN-2021 on 3rd April 2021 in online amidst this pandemic situation. This type of technical meet gives the students, a golden opportunity to enhance their knowledge in all the areas of their respective field.

I extend my warm greetings and felicitations to the Principal, Directors, Heads of various Departments, Faculty members and the Participants from various Engineering Colleges all over India and the students who have taken an effort to make this conference a grand success.

I wish the conference a grand success and fruitful.

With best wishes,
R.Srinivasan
Vice-Chairman



K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY



Dr.M.Venkatesan M.E., Ph.D.

Principal

MESSAGE

I am glad to note that our college is organizing International Conference on “Challenges and Opportunities for Innovation in New Normal Scenario” – COINN-2021 on 3rd April 2021.

Global technical scenario is changing towards completely automated, productivity oriented and cost effective target. To compete in all levels of this global trend, the budding Engineers should shake hands with different multidisciplinary skills and innovative ideas.

I congratulate all behind this excellent team work and I would like to appreciate the participants, students and staff for their commitment and effort for the success of this Conference COINN-2021.

I wish the conference all success.

With best wishes, **Dr.M.Venkatesan**

Principal



K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY



Dr. B. Kalaavathi M.Tech., Ph.D.

Professor and Director-R&D

MESSAGE

During the golden age of Greece, Conference was introduced as an entry for the young skillful and talented persons to display theirs to the aristocratic people. With the same intention, the conference here is to take the potential personnel to the world, and to understand who he is.

In India, recent years have induced an interdisciplinary outlook for the various industries to meet the current global demand. This is the high time exhibit the latest technologies in order to meet out the needs of the country and to uplift the country's economy. Emerging modern technologies ought to proceed along with the social and environmental demands. If the output is not for today, let it be for tomorrow "seek and strive but not to yield". Let this be the spirit of future generation for leading the world to glory.

COINN-2021 offers a platform for the students and research scholars to meet, exchange ideas and interact with experts to enrich their talent, creativity and prove their intellect.

I am sure that the participants will return immensely enriched and more confident. I like to extend my hearty congratulations to the entire faculty and the students of KSRIET for their enthusiasm in organizing International Conference on "Challenges and Opportunities for Innovation in New Normal Scenario" – COINN-2021 on 3rd April 2021.

With best wishes,

Dr.B.Kalaavathi

Professor and Director-R&D



K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY



Dr. P. Meenakshi Devi M.E., Ph.D.
Professor and Director-Academics

MESSAGE

The COINN-2021, organizing International Conference on “Challenges and Opportunities for Innovation in New Normal Scenario” – has been initiated to bring out inherent innovative ideas and to share the current latest technical developments in the IT and its related fields.

A conference of this kind will provide a chance to bring out the inherent talents and sensible ideas in the young innovative minds. I am sure that this conference will provide an opportunity for the budding engineers to disseminate the latest knowledge in the field of respective Engineering.

I congratulate all the participants who have taken part in the technical sessions. I express my sincere thanks to faculty and students of all the departments for their hard work and cooperation.

I express my gratitude to all the distinguished professors and engineers who have juried the technical sessions.

With best wishes,

Dr.P.Meenakshi Devi
Professor and Director-Academics



K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY



Dr. P. Murugesan M.E., Ph.D.

Professor and Director-III&SD

MESSAGE

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I congratulate all the participants who have taken part in the technical Sessions. I express my sincere thanks to faculty and students of all the departments for their hard work and cooperation.

We believe that this conference will help the all upcoming Engineers for “Powering the Globe”. Also I believe that this type of conference will improve the students’ organizing capabilities and communicating abilities. I express my gratitude to all the distinguished Professors and Engineers who have juried the Technical Sessions.

With best wishes, **Dr.P.Murugesan**

Professor and Director-III&SD



K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY



Dr. R. Nandakumar M.E., Ph.D.

Professor and Director-Administration

MESSAGE

I am pleased to convey my heartfelt congratulations to the students of KSR Institute for Engineering and Technology, on the occasion of International Conference on “Challenges and Opportunities for Innovation in New Normal Scenario” – COINN 2021. The conference aims in bringing like-minded individuals together so as to provide them a common platform to interact and discuss new challenges.

I am confident that such conference would do the world of good to the student’s community by igniting their minds for improving scientific temperament towards innovative ideas. I am positive that an endeavor like this would develop a quest for knowledge, build relationships and inculcate a sense of team spirit and enhance interpersonal skills among organizers and participants. It is my pleasure to be part of this event.

Events such as this will not happen without the student’s active and associate participation. I take this opportunity to congratulate all the student coordinators and participants.

I hope this Conference will be of great use to all who seek information and I wish the conference a great success.

With best wishes, **Prof.R.Nandakumar**

Professor and Director-Administration



K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY



Dr.R.Jeyabharath M.E., Ph.D.

Professor and CoE

MESSAGE

As the professor of the department of EEE, I am extremely happy to bring out this message for the proceedings released on the International Conference on “Challenges and Opportunities for Innovation in New Normal Scenario” – COINN 2021.

COINN - 2021 offers an excellent platform for the Research scholars, academicians and post graduate students to exhibit the knowledge they possess and a good chance to develop the same. This needs a willingness to embrace fresh ideas, to think in new ways and to respond creatively to the challenges that are faced by the learning community.

The assembly of large number of academicians, researchers and professionals will actively to share, discuss and to exchange the views in exciting themes. I am sure that the deliberation spread will enrich academic wisdom and enable exploration of new domains of applications in engineering and technology.

I take this occasion to accolade all the students and staff who have made tiring efforts to bring out this proceeding enriched with knowledge and wish them all success.

With best wishes,
Dr.R.Jeyabharath

Professor and CoE



K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY



Dr. J. C. Kannan Ph.D.

Professor and Director-Student-Affairs

MESSAGE

COINN - 2021 conference is likely to be one of the finest opportunities for scientists, engineers, technocrats, students etc. from all over India to participate and to share ideas over the same dais. I profoundly acknowledge that the organizers have spent all needful corpus of sweat and have appreciably networked with the advisory board members and all others associated with the event. I also acknowledge that a plenty of sponsors have come forward to fund this grand occasion which has noticeably boosted up the morale of the organizers.

On behalf of the entire team and on my personal behalf, I would like to extend my good wishes to all participants. I believe the conference will surely prove conducive to all in equal length.

I wish the conference a fabulous success.

With best wishes,

Dr. J. C. Kannan

Professor and Director-Student-Affairs

Proceeding of the conference has been published with **ISBN: 978-81-948668-3-1**

International Conference on “Challenges and Opportunities for Innovation in New Normal Scenario” was organized by **KSR Institute for Engineering and Technology** Approved by AICTE, Affiliated to Anna University, Chennai (Mechanical, EEE, ECE,CSE & IT UG programmes are Accredited by NBA) **on 03 April 2021** Total 187 papers were received for the conference and 142 papers were shortlisted by the committee.

Published by

AR Research Publication,

3/186 Santpura Govindpuri Modinagar- 201201 . Dist: Ghaziabad

International Conference on “Challenges and Opportunities for Innovation in New Normal Scenario” (Vol-01)

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This edition can be exported from India only by the publishers, AR Research Publication (India)

ISBN: 978-81-948668-3-1

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Cover Design: Abhishek Sharma