

2nd International Conference on Management, Engineering, Science and Humanities

MESH-2023

3rd June 2023

Organized by:



**Builders Engineering College,
Kangeyam Institute of Commerce,**

**EBET Knowledge Park, Nathakadaiyur, Kangeyam Taluk,
Tirupur - 638 108, Tamil Nadu**

In association with:



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2nd International Conference on Management, Engineering, Science and Humanities

MESH-2023

Editors

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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 Builders Engineering College, Kangeyam Institute of Commerce, EBET Knowledge Park, Nathakadaiyur, Kangeyam Taluk, Tirupur, Tamil Nadu 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 40 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 the Conference

Kangayam Group of Institutions comprising of Builders Engineering College and Kangayam Institute of Commerce proudly announces 2nd International Conference on Management, Engineering, Science and Humanities (MESH-2023).

The conference provides a forum for the researchers, industry professionals, academicians and students to discover and publish their innovative solutions for real time problems. MESH-2023 covers all the major areas of Management, Engineering, Science and Commerce. The conference strives to bridge the gap between industry, academia and researchers with emerging technologies.

The theme selected for MESH-2023 is “Transforming Engineering through Innovation” and the objective is to create a platform for facilitating the exchange of practical experiences in all aspects of higher education in addition to seeking solutions to the various challenges faced by practicing Engineers, Technologists and Scientists.

About KGI

Kangayam Group of Institutions (KGI) run by Erode Builders Educational Trust (EBET). Kangayam Group of Institutions have been founded by a group of likeminded visionaries who felt the need for an apex academic and professional education institution committed to deliver through a number of institutes with high standards of academic excellence for enriching lives through value based education. The institute is committed towards offering a world class learning environment for the aspirants preferring Engineering, Commerce and Business Administration. The institute is also committed to provide opportunities for the development of students community and to train them to achieve excellence in academics and to serve the society.

About BEC

Builders Engineering College (Formerly known as Erode Builder Educational Trust’s Group of Institutions) was established by Erode Builder Educational Trust (EBET) in the year 2009 as an integrated campus and presently functioning as a technical campus. It offers six UG Programmes (BE - Civil, CSE, ECE, EEE, Mechanical and B.Tech - AI&DS) with an intake of 330 students and four PG

Programmes (ME - CEM, STR, CSE and MBA) with an intake of 114 students. Stepping into the fourteenth year of service, the Management, CEO, Principal and faculty members are committed to elevating the lives of budding rural aspirants through academics and research. The Chief Patrons are the pioneers in the field of infrastructure and construction all over India.

About KIG

Kangeyam Institute of Commerce (KIC) is unique; its primary goal is to expose young minds to the world of commerce, instilling confidence and fortitude in them to face a budgeted life. KIC introduces an individual to the world of finance, fiscal policy, merchandising, international trade and finance and so on. It creates more career opportunities through commerce and management education.

Programmes offered: B.Com, B.Com (CA), B.Com (PA), B.Com (B&I) and BBA.

About IARDO

International Association of Research and Developed Organization (IARDO) is a leading organization in the field of academic research activities under the banner of India Educational Charitable Trust (Regd).

International Association of Research and Developed Organization (IARDO) is an apex body that promotes and encourages commendable achievements from all over the country. The organization under conference world regularly organizes national and International level conferences with the help of its members to promote socially responsible education practices and sustainable development in economic as well social front in India.

Conference Highlights

1. All the accepted papers will be published in the international journals having ISSN & Impact factor.
2. Every author will get two certificates, one for paper publication in Journal other for paper presentation in conference.
3. All the papers of the conference will be published in the conference proceeding with ISBN.
4. All accepted papers will be indexed in Google scholar & IDIIF.

Chief Patrons

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Thiru. C.K. Venkatachalam

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Dr. B. Hariram Selvamurugan Satheesh

Principal Scientist,

ABB Global Industries & Services Ltd., Bangalore

Mr. M. Vetrivendhan

Vice President

Softsquare Solutions India Pvt Ltd, Chennai

International Keynote Speaker

Mr. Nayaya Abahuraira Garba

University of Bahri, Sudan

Keynote Speaker

Dr.D.Gnana Senthilkumar

Syndicate Member, Bharathiar University, Coimbatore
Professor & Head, Dept. of Management Science & Research
Park's College, Tirupur.

Technical Session Chair

Prof. Abid Khan

HOD, Department of Mathematics,
Alpha College, Shyampur, Bhopal, MP, India

Conference Conveners

Dr. S. Saravanan, HoD-EEE, BEC
Dr. N. Kavitha, Professor-MBA, BEC
Dr. S. Sivaselvi, Head-Academics, KIC

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S.No	Department	Name of the Person	Designation
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2	CSE & AI&DS	Prof.S.Gopinath Dr.S.Selvi Dr.K.Sumathi	HoD HoD, AI&DS Associate Professor, CSE
3	ECE	Dr.S.D.Vijayakumar Prof.V.Manimala Dr.R.Praveen Kumar	HoD Associate Professor Associate Professor
4	EEE	Prof.S.Saravanan Dr.R.Palanisamy Prof.S.Radhika	HoD Associate Professor Assistant Professor (Sr.Gr)
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8	Commerce	Dr.S.Sivaselvi Ms.M.Abinaya Ms.L.Megala	Head, Academic Assistant Professor, Commerce Assistant Professor, Commerce

Chairman's Message



It is quite gratifying to note that Builders Engineering College and Kangeyam Institute of Commerce joining hands with Conference World and IARDO in Organizing International Conference (MESH -2023) on 3rd June 2023.

I wish the conference would be able to deliberate on current issues of national and international relevance, particularly in the field of Management, Engineering, Science and Humanities. I convey my warm greetings and felicitations to the organizing committee and the participants and extend my best wishes for the success of the conference.

The vision of an individual will turn into reality only through research. I wish the team to march with the same spirit and share more ideas to the upcoming generation. I am sure that this occasion will provide an affable environment for the researchers and academicians to freely exchange the views and ideas with others.

Best Wishes to all of you.

With regards

Thiru.N.Ramalingam

Chairman, KGI, Kangeyam

Secretary's Message



I am extremely delighted to note that the International Conference MESH-2023 has been organized by Builders Engineering College and Kangeyam Institute of Commerce joining hands with Conference World and IARDO on 3rd June 2023.

The themes covered in this international conference were highly creditable. I am really delighted about the papers submitted from various disciplines that highlight the recent research outcomes in the related field, that too from various states of India.

I convey my best wishes to the team for their laudable effort and also wish them grand success in conducting the event. I cheer all the faculty members, students, organizing committee and participants from other institutes for making this conference a grand success. Thank you.

With regards

Thiru.C.K.Venkatachalam

Secretary, KGI, Kangeyam

Correspondent's Message



On behalf of Builders Engineering College and Kangeyam Institute of Commerce it is my honour to welcome the participants to International Conference MESH-2023, joining hands with Conference World and IARDO.

This conference has added a unique value to Builders Engineering College and Kangeyam Institute of Commerce, all credit goes to the entire team who worked round the clock. At this juncture, I would like to appreciate all the authors who have submitted their innovative ideas through articles.

I believe that participating in conferences like this will enrich the ideas and confidence level of the researchers.

Good Luck to all of you.

With regards

Thiru.S.Anandavadivel

Correspondent, KGI, Kangeyam

Treasurer's Message



It is a great honor for me as a Treasurer, to welcome all the guests and participants for the International Conference MESH-2023 organised by Builders Engineering College and Kangeyam Institute of Commerce, joining hands with Conference World and IARDO on 3rd June 2023.

This conference provides the participants the opportunities to create a network with their peers to share more information and experiences about the recent trends in the field of research and development. I wish the researchers to attach themselves to continuous value based education conferences like this and share more for societal development.

I appreciate the organizers of the conference for arranging a platform with experts and research scholars to discuss and share their ideas in recent trends in advanced technologies.

Good Day.

With regards

Thiru. C. K. Balasubramaniam

Treasurer, KGI, Kangeyam

CEO's Message



Our conference serves as a global platform for various forms of knowledge sharing irrespective of differences in time and geography. Our International Conference MESH-2023, serves as an excellent forum to explore the role of innovative technologies in trends in the field of research and development.

On behalf of EBET Trust, it is my gratitude to pass on good wishes to the participants of this International Conference on Management, Engineering, Science and Humanities (MESH -2023), Organized by Builders Engineering College and Kangeyam Institute of Commerce joining hands with Conference World and IARDO on 3rd June 2023.

Lot of innovative ideas pertaining to research were published, presented and clarified. The globe is flooded with enormous opportunities, it's time for researchers to search for the opportunity where they can fit in and develop. We are grateful to our management for their awesome support. Thank you all.

With regards

Dr. C. Venkatesh

CEO, KGI, Kangeyam.

Principal's Message



I am happy to share that Kangeyam Group of Institutions organises the second edition of the International Conference MESH 2023 on 3rd June 2023 to provide an opportunity to the faculty and students for publishing their research work. I, on behalf of Builders Engineering College wish the participants all the very best and congratulate the organizers for making this event a successful event.

With regards,

Dr.S. Ramkumar

Principal, Builders Engineering College, Kangeyam

Principal's Message



It gives me immense pleasure that Builders Engineering College and Kangeyam Institute of Commerce is hosting this International Conference on Management, Engineering, Science and Humanities (MESH -2023).

The conference intends to bring together scientists, engineers and practitioners from different disciplines to discuss concerns related to various computation techniques in various sectors. I hope eminent speakers will cover the theme from different perspectives.

I am privileged to say that this conference will definitely offer suitable solutions to the global issues. I would like to express my appreciation to the organizing committee for their dedicated efforts to materialize the conference.

I hope all the participants will have a fruitful and beneficial experience. Finally, I congratulate HODs, college faculty members, student representatives and participants for their efforts in organizing and participating in this conference and wish the conference all the success.

With regards,

Dr.G. Suresh

Principal, Kangeyam Institute of Commerce, Kangeyam.

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2nd International Conference on Management, Engineering, Science and Humanities (MESH-2023) organized at **Builders Engineering College, Kangeyam Institute of Commerce**, EBET Knowledge Park, Nathakadaiyur, Kangeyam Taluk, Tirupur - 638 108, Tamil Nadu in association with conference world in Hybrid Mode on 3rd June 2023. Total 86 papers were received for the conference and 42 papers were shortlisted by the committee.

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