

# NATIONAL CONFERENCE ON NEW HORIZONS IN SCIENCE, ENGINEERING, MANAGEMENT AND HUMANITIES

## SEMH-2021



### ORGANIZED BY:

DEPARTMENT OF CIVIL, MECHANICAL, MBA, APPLIED SCIENCE  
**IIMT COLLEGE OF ENGINEERING GREATER NOIDA (UP)**

### IN ASSOCIATION WITH:

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IN SCIENCE, ENGINEERING, MANAGEMENT  
AND HUMANITIES**

**SEMH-2021**

**Editors**

**DR. A. P SINGH**

**MRS. TABASSUM ABBASI**

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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 *National Conference on New Horizons in Science, Engineering, Management and Humanities*. 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 67 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, 38 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 Conference**

SEMH-2021 a global event through video conferencing organized by IIMT College of Engineering, Greater Noida, India & Conference World. The conference is aimed to bring together innovative academics and industrial experts in the field of Science, Engineering, Management and Humanities to a common forum. National conference on Recent Innovations in Science, Engineering and Technology addresses the rapid strides and technological advancements currently witnessed in the fields of Science, Engineering and Technology. The conference aspires to exhibit the technical excellence of budding technocrats, research scholars, representatives from the academia and industry.. All the accepted paper will be published in International Journal with ISSN & Conference proceeding having ISBN.

## **About IIMT Group**

The IIMT Group of colleges was founded in the year 1994. Since then the group has grown impressively and achieved exemplary recognition from corporate, academia, and professional circles. Top management college in Delhi NCR, Best b.tech & MBA College In U.P., Best MCA College In U.P. At IIMT we are committed to provide a value driven culture along with creating a professional environment. The IIMT as a group is large and diversified group and imparts knowledge in field of Engineering, Management, Medical Sciences, Hotel Management, Nursing, Education, Law etc. The IIMT group has more than 1330 highly qualified and experienced faculty members in their respective functional areas. IIMT boasts of having more than 20,000 students in various courses in five campuses. The IIMT group has been dedicated towards providing quality professional education through well-accredited courses, seminars, conferences, guest lectures, Industrial visits and excellent academic facilities. At IIMT, we believe in all round development of students with strong foundation based on pillars of knowledge, intellect and values. The programs are structured to keep pace with the present dynamic and globalized scenario meeting the requirement of industry and education. We are dedicated to deliver excellence in our academic programs. The IIMT Group of colleges attracts students from all part of the country which is testimony to our experience and excellence in the field of professional studies. The IIMT Group has attained a highly respectable position amongst the best professional educational institutions in India

## Message of the Managing Director



Twenty-First Century is widely accepted to be the Century of Knowledge driven industry. Bionic eye, Hearing Aids for the completely deaf and other intelligent system for the handicapped are the boon for the mankind that science and engineering has given us in the recent past.

Right from villagers to metropolitan cities, farmers to crops, doctors to patients, industry to consumer, trade to commerce, defense to soldiers, fight against terrorism to police personal, research design and development to scientist, layman to educated; intelligent system are here to improve productivity, make our lives secure and as comfortable as possible. All these are required secure at lower cost, higher reliability and for the benefit of living beings.

I hope will go a long way in the service to human race. Organizers are making all efforts to ensure that experts from around the globe converge on one platform for the discussions and debates on their ideas and research findings in the field of network security.

I am hopeful that outcome of this conference could be applied for the well being of the human race in general and living being in particular. I have no words to express my gratitude to the organizing team that has worked tirelessly round the clock from last about a Year.

May this online conference bear a fruitful outcome.

**Dr. Mayank Agarwal**  
**Managing Director**  
**IIMT Group of Colleges**

## Message of the Director General



It gives me immense pleasure to learn that Dept of civil , mechanical , MBA and Applied science organized National conference on 22.12.21

Engineers have a very important role in the development and progress at this nation. Their knowledge and expertise is required when setting up any secure infrastructure for development with innovation and modernization. It is important to constantly update one's knowledge to keep up with emerging trend and facilities along with security. I have no doubt that the discussion at the conference will not only solve present security problems but also seek new methodologies for secure data transmission.

I convey my best wishes to the participants the conference.

**Prof (Dr.) M. K. Soni**  
**Director General**  
**IIMT Group of Colleges**

## Message of the Director



I feel Proud and privileged that Department of CIVIL, MECHANICAL, MBA, APPLIED SC , IIMT College of Engineering, Greater Noida is organizing National Conference.

This is a very meaningful and productive academic exercise where numbers of the faculty and students will benefit from the experience and expertise of the experts from all over the India. In addition to academic excellence that this conference will bring, it will also help accelerate the process of plural culturism. I am sure with the most enlightened delegates in their fields of specialization from across the world, many meaningful issues will emerge adding new dimensions to the "Knowledge Society".

I take this opportunity to specially complement the efforts of the whole team comprising the conference committee.

**Dr. S.S Tyagi**  
**Director, IIMT College, Greater Noida**

## Message of the Convener



I am Honored and delighted to welcome you to the **NATIONAL CONFERENCE on New Horizons in Science, Engineering and Management and Humanities** at IIMT College of Engineering, Greater Noida. I extend a warm welcome to all of the distinguished speakers, guests and participants of (NHSEMH 2021). We are extremely happy to host the National conference at IIMT in association with conference world. I take this opportunity to express my gratitude to the honorable Managing Director and Director B.Tech for the encouragement and continuous support to organize such a grand event.

I am thankful to conference world for their great support and also thankful to each and every speaker as well as the team members of (NHSEMH 2021).

I am sure that this conference will serve as useful learning platform for students, faculty and researchers.

**Mrs. Tabassum Abbasi**  
**Convener**  
**HOD -CIVIL**

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**Shri Ashish Kumar Singh**

DGM(Project) Yamuna Authority (YEIDA)

### **Guest of Honor:**

**Dr. Rajiv Kumar Singh**

Assistant Director (OL), DCPW,

Ministry of Home Affairs, CGO Complex, Lodhi Road, New Delhi

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**Dr. Vinay Singh**

Maulana Azad Medical College, New Delhi

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*National Conference on New Horizons in Science, Engineering, Management and Humanities* was organized by **IIMT College of Engineering, Greater Noida** Approved by AICTE & Affiliated to Dr. APJ Kalam Technical University **(India)** though both the mode offline as well as online with the collaboration of AR Research Publication and Conference World **on 22<sup>nd</sup> December 2021**

Total 101 papers were received for the conference and 67 papers were shortlisted by the committee.

1. Accepted papers will be published in the peer reviewed international journals having ISSN & High Impact factor.
2. Selected Papers will be published in the **UGC Care listed** international journals having ISSN & High Impact factor.
3. Few very good quality Papers will be published in the **Scopus indexed journal** having ISSN & High Impact factor.

**All the accepted and presented papers of the duly registered authors will be published in the UGC Approved International Journals**

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