

**International Conference on  
Advancing Synergies in Science,  
Engineering, and Management**

**ASEM-2024**

**Organized By:**



**GLOCAL UNIVERSITY**

**Delhi-Yamunotri Marg (State Highway 57), Mirzapur Pole, Dist - Saharanpur, U.P. - 247121, India**

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**Editors**

**Prof. (Dr.) P. K. Bharti  
Dr. Atul Kumar Sharma**

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## *Preface*

Conference word and AR Research Publication is a fast-growing group of academicians in Engineering, Sciences, and Management. A R Research Publication is also known for its fast reply and zero-error work. The conference world has organized 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 Venknteswara College of Engineering and Technology, Andhra Pradesh, Vedant Engineering Kota and many more places across the country.

We are very pleased to introduce the proceedings of the International Conference on Advancing Synergies in Science, Engineering, and Management (ASEM-2024). The Recent Innovations & Development in field of Engineering and Technology were 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 35 suitable papers were submitted for presentation at the conference.

Papers were well represented at the conference to arouse a high level of international interest. 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. The program was chaired professionally and efficiently by the session chairmen also highly gratifying, showing the high level of interest in the subject. This Proceeding provides a 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 authors 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 University**

Welcome to Glocal University! At Glocal University, we believe in providing a holistic education that prepares students to thrive in a rapidly changing global landscape. Nestled amidst the picturesque langha range hills hills, Glocal University offers a breathtaking campus spread across 350 acres. Our university offers a serene and conducive environment for learning, innovation, and personal growth. Established with a vision to create leaders of tomorrow, Glocal University is recognized by the University Grants Commission (UGC) under Section 22 of UGC Act 1956 and established by the Glocal University Act, 2011 (UP Act no. 2 of 2012) (as passed by the Uttar Pradesh legislature), ensuring the highest standards of quality education.

Our diverse academic offerings encompass over 55 undergraduate, postgraduate, and professional courses across various disciplines. Whether you aspire to pursue a career in engineering, management, law, pharmacy, journalism, or any other field, Glocal University provides a comprehensive range of programs to cater to your interests and ambitions.

At the undergraduate level, we offer a wide array of courses designed to equip students with a strong foundation in their chosen field. From Bachelor of Technology (B.Tech) programs in areas such as Computer Science, Mechanical Engineering, and Electronics & Communication, to Bachelor of Business Administration (BBA), Bachelor of Commerce (B.Com), and Bachelor of Arts (BA) programs, our undergraduate courses provide a perfect blend of theoretical knowledge and practical skills.

## **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.

**National Speaker:**

**Mr. Amit Kumar**

CEO, Shri Ganesh English Medium school

**Mrs. Pallavi Amit Padalkar**

Assistant Professor, Civil Engineering Department,

Guru Gobind Singh College of Engineering & Research Center, Nashik.

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International Conference on Advancing Synergies in Science, Engineering, and Management (ASEM-2024) organized at Glocal University, Delhi-Yamunotri Marg (State Highway 57), Mirzapur Pole, Dist - Saharanpur, U.P. - 247121. Total 50 papers were received for the conference and 35 papers were shortlisted by the committee.

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