



**Er. Shara Khursheed**

Assistant Professor, Department of Mechanical Engineering, Faculty of Engineering, Integral University,  
Lucknow

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<https://scholar.google.co.in/citations>, <https://www.scopus.com/>, <https://www.researchgate.net/>

## PROFILE

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Er. Shara Khursheed is currently serving as an Assistant Professor in the Department of Mechanical Engineering, a position he has held since January 2019 before this she is working as Lecturer in the University. Her research expertise lies in use of Ionic Polymers in Smart materials and the ergonomic designs. . Currently she is pursuing PhD from Integral University and holds an M.Tech. in Production Engineering from Integral University, Lucknow and a B.Tech. in Mechanical Engineering from Institute of Engineering and Technology , UPTU.

### RESEARCH INTEREST:

Ergonomics

Ionic Polymers as Smart Materials

### SUMMARY OF RESEARCH ACCOMPLISHMENT:

- Mr. Joshua Zick, Bachelor of Engineering student from Technical University, Germany successfully completed six weeks summer internship program under DAAD RISE on the topic “Study and performance evaluation of 1 MW solar power plant”.
- A grant has been awarded as seed money of Rs. 85,000 as research grant to carry out the minor research project entitled as “ **The Design of Visual Display Terminals for Physically Handicapped Students based on Anthropometric Data**”.
- Best Paper Award in **YOUNG’S SCHOLAR NATIONAL RESEARCH WRITING COMPETITION 2021**, organised by **DST India, IIT DELHI, in Yuva Mindshare Scheme**.
- Research Excellence Award by INTEGRAL UNIVERSITY LUCKNOW, in 2021.

Number of publications in Scopus indexed journals:	02
Number of publications in Non-Sci/Scopus but Peer Reviewed:	07
Number of publications in International Conferences:	01
Book Chapters:	04
Presentation in international conferences:	03
Citations:	12

### **PROFESSIONAL MEMBERSHIP:**

Lifetime member of ISHRAE, The Indian Society of Heating and Refrigeration from 2022 onwards.

### **COURSE TAUGHT:**

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Dynamics of Machine

Manufacturing Science

Computer Aided Design

### **ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY**

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Worked as a **Warden in Integral University Lucknow**, New Girls Hostel from **January 2012 till July 2018**.

A member of **Women Grievances Cell at Integral university Lucknow** till 2020.

A member of **Departmental Disciplinary Committee in Mechanical Department** at Integral University Lucknow.

### **STUDENTS SUPERVISION**

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Supervisor in the M.Tech “Smart Ergonomics Design of VDT workstation: An affordable way to environment health & safety”.

Co- supervisor in the M.tech thesis “ Comparison between the rest period for Continuous and Discontinues Work”.

Supervisor in the M.Tech “An Ergonomic Analysis and Design of Sitting & Standing Workstation”

Supervisor in the M.Tech “Study and analysis of microstructure of Plastic Welding”.

### **PUBLISHED/GRANT PATENTS**

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A patent “**DESIGN OF ERGONOMIC VISUAL DISPLAY TERMINAL FOR PHYSICALLY CHALLENGED**”

### **PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS**

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Khursheed, Shara and Chaturvedi, Sumita and Moeed, Khawaja, Comparative Study Of The Use Of IPMC As An Artificial Muscle In Robots Replacing The Motors: A Review (December 13, 2018). Proceedings of TRIBOINDIA-2018 An International Conference on Tribology, Available at SSRN: <https://ssrn.com/abstract=3323672> or <http://dx.doi.org/10.2139/ssrn.3323672>

Khursheed, S., Khan, M. Z., Moeed, K. M., & Sultana, S. (2021). A review of coating materials for ionic polymer metal compounds for Nafion-117. *Materials Today: Proceedings*.

### **PAPER PUBLISHED IN INTERNATIONAL CONFERENCES**

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Ergonomic Study of VDT Workstation for Physically Disabled Persons , Research Journal of Computer and Informational Technology Sciences.

### **PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS**

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- AN ERGONOMIC OVERVIEW OF COMPUTER WORK STATION DESIGN, International Journal of Technical Research and Applications e-ISSN: 2320-8163, www.ijtra.com Volume 3, Issue-5.

- Ergonomically Analysis the Moderate Work for determining The rest period, International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 02 Issue: 02 | May-2015 www.irjet.net p-ISSN: 2395-0072
- Comparison of Mechanical Properties and Weld Joint Strength of High Strength Low Alloy Steels with Low Carbon Steels, International Journal of Engineering Research & Technology Volume 4 Issue 01, Publisher ESRSA Publications Pvt. Ltd
- Role of VO2 MAX in Determining the Rest Period during Moderate Work, IJSRD - International Journal for Scientific Research & Development| Vol. 3, Issue 06, 2015 | ISSN (online): 2321-0613
- IMPROVE THE WELD QUALITY BY REDUCING HYDROGEN CRACKING BY CONTROL OF VARIOUS WELDING PARAMETERS, International Journal of Technical Research and Applications e-ISSN: 2320-8163, www.ijtra.com Volume 1, Issue 5 (Nov-Dec 2013), PP. 13-15.

## BOOK CHAPTERS

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- [Synthesis of Ionic Polymer Metal Composites for Robotic Application](#), S Khursheed, KM Moeed, MZ Khan - Sustainability of Green and Eco-friendly Composites, 2024.
  - Smart ergonomic design of VDT workstation An Affordable Way to Environment Health and Safety Muhammed Muaz Muhammad Farhan, Shara Khursheed, Mohammad Azad Alam, Mohammad Azeem 2024/6, Smart Systems Volume1, CRC PRESS, TAYLOR AND FRANCIS GROUP.
  - Composite Material-based Leaf Spring for Vehicle: A Review Shara Khursheed, Manish Kumar Gupta1,\* Mohd Faizan Hasan2, 2023, Journal of Automobile Engineering and Applications, Volume 10 STM JOURNALS.
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