

International Journal HIT Transaction on ECCN

Technical Advisory Committee	
Dr. Lakshman Chandra Seth Chairman, ICARE, Haldia, West Bengal	
1. Prof. Chiranjib Bhattacharjee <i>Professor & Ex-HOD, Department of Chemical Engineering, Jadavpur University, Kolkata, India</i>	2. Prof. J. Paulo Davim <i>Department of Mechanical Engineering, University of Aveiro, Portugal</i>
3. Prof. Gautam Sanyal <i>M. Tech, Ph. D(Engg.), FIE, MIEEE Professor & Dean (Faculty Welfare) Department of Computer Science & Engineering, National Institute of Technology, Durgapur, India</i>	4. Prof. Kit Fai Pun <i>Professor of Industrial Engineering, Ex-Deputy Dean, Faculty of Engineering , Department of Mechanical & Manufacturing Engineering, University of the West Indies at St. Augustine Trinidad and Tobago</i>
5. Prof. Gautam Bhattacharya <i>Professor, Department of Civil Engineering, Indian Institute of Engineering Science and Technology, India</i>	6. Prof. Joseph McGeough <i>Senior Honorary Professorial Fellow School of Engineering, University of Edinburgh, UK</i>
7. Prof. B. Anuradha <i>Principal, AL Ameen Institute of Management, Bangalore, India</i>	8. Prof. Samrat Roy Choudhury <i>Director, Webster University, Thailand</i>
9. Prof. B. M. Zakir <i>Principal, Al Ameen Arts, Science & Commerce College, India</i>	10. Prof. Vijay Devabhagtuni, <i>Professor, Department of Electrical Engineering, Toledo University, USA</i>
11. Prof. Gautam Banerjee <i>HOD, Dept. of Management, NIT, Durgapur, India</i>	12. Prof. Avijan Dutta <i>Professor, Department of Management, NIT, Durgapur, India</i>
13. Prof. Vishal Vishnoi <i>HOD, IMR, Gaziabad, India</i>	14. Prof. Rajnish Srivastava <i>Director, NIT, Hamirpur, India</i>
15. Prof. R. L. Sharma <i>Vice Chancellor, Himachal Pradesh Technical University, India</i>	16. Prof. Mrinalini Pandey <i>Department of Management Studies, IIT-ISM, Dhanbad, India</i>
17. Prof. Ram Naresh Sharma <i>Professor, Department of Electrical Engineering, NIT, Hamirpur, India</i>	18. Prof. Debasish Sur <i>Department of Commerce, The University of Burdwan, West Bengal, India</i>
19. Prof. J. N. Sharma <i>Professor, Department of Mathematics, NIT, Hamirpur, India</i>	20. Prof. Jeevanandan. S <i>Associate Prof & Campus head, Christ University, India</i>
21. Prof. Jesiah Selvam <i>Professor & Chief Coordinating Officer, SCAD Group of Institutions, India</i>	22. Prof. Debasish Giri <i>Head, Dept. of IT, Maulana Abul Kalam Azad University of Technology, West Bengal, India</i>

Editorial Details

1. Editor –in -Chief

Prof. M. N. Bandyopadhyay
Director, Haldia Institute of Technology

2. Consulting Editor :

Sri Sayantan Seth
Vice-Chairman, Haldia Institute of Technology
Sri Asish Lahiri
Secretary, ICARE

3. Executive Editor:

Prof. (Dr.) Asit Kumar Saha
Principal, Haldia Institute of Technology

4 Technical Editor:

Prof. (Dr.) Asit Baran Maity
Dean, School of Applied Science & Humanities
Prof. (Dr.) Tarun Kanti Jana
Dean, School of Engineering

5. Editorial Team Members:

Dr. Anjan Mishra, Registrar, HIT
Dr. Biswajit Mandal, Dept. of CHE
Dr. Abhisek Santra, Dept. of CE
Dr. Sabyasachi Smanta, Dept. of
CSE(CS)

Prof. (Dr.) Bikash Bapari, Dean, SW,HIT
Dr. Chanchal Dey, Dept. of ECE
Dr. Arunangshu Giri, Dept. of MBA
Dr. Anupam Dey, SASH

Copyright@2022 by the Haldia Institute of Technology, Haldia, West Bengal. All rights reserved. The views expressed in the articles are those of the authors and the Journal Technical Advisory Committee, Editor-in chief, other office bearers and committee members are not in any way responsible for such views and opinions. No part of this publication can be reproduced or transmitted in any form or by any means or sorted without the prior permission. Application or permission for other uses of copyright material includes permission to reproduce extracts in other published works shall be made to the publisher. However, full acknowledgement of author(s), publisher and source must be provided properly.

Published by:

Haldia Institute of Technology, Haldia, WB, INDIA

Printed by: