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PATENT APPLICATION PUBLICATION
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PATENT APPLICATION PUBLICATION
Title of the invention : "A NOVEL DESIGN FOR HARNESSING WIND ENERGY USING VAWT IN QUAD- WIND TOWER";
Inventor:- Manik Groach et al.

Application No.202111026540 AINDIA
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Publications

- Groach M. and Garg A., Mar-apr 2012, " DCSPIHT: Image Compression Algorithm", International Journal of Engineering Research and Applications (IJERA), Vol 2, Issue 2, pp (560-567), **ISSN: 2248-9622. Cited by 13, H index 1.**
- Groach M. and Garg A., March 2012, " Performance Analysis of DCSPIHT and SPIHT Algorithm for Image Compression" International Journal of Advanced Research in Computer Science and Software Engineering, vol 2, issue 3, pp (137-140), **ISSN: 2277 128X.**
- Groach M., Garg A. and Singh R, "A Hybrid Image Compression Algorithm DCSPIHT " International journal of information and computing sciences, Vol 13, No. 2, pp(12-19), **ISSN: 0972-1347**
- Groach M. and Garg A., march 2012, "A Comparative study of SPIHT, DCSPIHT, Hybrid Image Compression" International Journal Of Information and Computing Science, Vol. 15, issue 1, **ISSN: 0972-1347**

Courses:

- Five month Advanced Course on, "VLSI Design" organized by VLSI Design Finishing School, Design KOP labs.
- Seven days short term course on "MATLAB applications in Electronics, Electrical and Computers" organized by School of Electronics & Communication Engineering, Shri Mata Vaishno Devi University, Katra, Jammu from 21st to 27th May 2010.
- Course on moodle learning and management system. This training is offered by the Spoken Tutorial Project, IIT Bombay,funded by the National Mission on Education through ICT, MHRD, Govt. of India.

Seminars:

- UGC sponsored national Seminar on "Wireless Communication & Networks (special emphasis on Adhoc & WSN)" held at School of Electronics & Communication Engineering , SMVDU, Katra, Jammu on 24th -25th March, 2012.

- Two day seminar on "Advances in Electrical Engineering" organized by department of ERE on 6th & 7th of april, 2016 at BGSB University.

Workshops:
- Five Day Workshop on design in power electronics from 6th to 10th February, 2020 organized by departments of ERE and CSE, SoET, BGSBU
- One week workshop on "Machine learning tools and techniques" organised by the department of Computer Science and Information Technology in collaboration with Aligarh Muslim University from 31st October to 4th November, 2018.
- Five day workshop on "Basics of MATLAB programming & Simulink" from 15th to 19th November, 2016, organized by departments of ERE and CSE, SoET, BGSBU.
- Eight day workshop on "C-Programming" organized by department of Mathematical Sciences BGSB University, Rajouri, J&K, (INDIA) from april 01 to april 09, 2016.
- Two day workshop on "Accelero-Botix" organized by Technophilia Systems at Baba Ghulam shah Badshah university, rajouri, J&K on 17th & 18Th April 2013.
- Workshop on " Technology Innovation & Technopreneurship promotion" organized by TePP Outreach Centre (TUC), University Science Instrumentation Centre on 26th feb 2013.

Faculty Development Program
- FDP on Moodle: learning management system from 27may to 31 may, 2020 organised by the Spoken Tutorial Project, IIT Bombay,funded by the National Mission on Education through ICT, MHRD, Govt. of India.

- Two week FDP on Higher Education in Post Covid-19 era: Challenges, Strategie and Innovations from 14 to 27 feb, 2022 organised by centre for hospitality & tourism, BGSBU.

Extra Curricular :
- Worked as Resident Warden in BGSBU July 2012 to Feb. 2015.