<u>**CURRICULUM-VITAE**</u>

Dr. Neelam Chantola
Assistant Professor
S. S. J. Govt. PG. College Syalde, Almora
Email: <u>neel.chantola@gmail.com</u>   **Mob. No.-8077834570**

CAREER OBJECTIVE

To work in such organization where I can sharpen my skills and learn new things to explore the new field in my subjects and utilize my insight, energy and imagination to give something new to my association.

ACADEMIC QUALIFICATIONS

Doctor of Philosophy (Ph.D.) in Mathematics

Specialization	:	Reliability Theory, System Reliability and Availability
University	:	G. B. Pant University of Agriculture & Technology, Pantnagar
Year of completion	:	October, 2020
Subjects		
Major	:	Mathematics
Minor	:	Computer Science

Master of Science (M. Sc.)

University	:	Kumaun University Nainital, Uttarakhand
Major	:	Mathematics

Bachelor of Science (B.Sc.)

University	:	Kumaun University Nainital, Uttarakhand
Major	:	Physics, Chemistry, Mathematics

Intermediate (12th)

Board	:	Uttarakhand Board
Subject	:	Hindi, English, Physics, Chemistry, Mathematics

High School (10th)

Board	:	Uttarakhand Board
Subject	:	Hindi, English, Mathematics, Science, Social Science

AWARDS /ACHIEVEMENTS

- ❖ Recipient of University Research Fellowship during the Ph.D. Program.
- ❖ Awarded as 'A' grade in Diploma in Computer Application and Programming course at ESTC-ACEL Ramnagar.
- ❖ Awarded in various cultural programs at state as well as district level.
    - Awarded first position in cultural group singing competition (Lokgeet), Play competition, Sanskrit dance competition and Sanskrit group singing competition as Senior as well as Junior group in State, District and Block level.
    - Awarded as first position in solo singing competition of University level also participated in solo category of University Motivational song contest at G.B.Pant University of Agriculture and Technology.

AREAS OF INTEREST

[1] Reliability Theory
[2] System reliability
[3] Operations Research
[4] Mathematical Modeling
[5] During Ph.D., I got trained in dealing with Laplace of differential equations and finding Inverse Laplace of differential equations and working with MATLAB software.

CONFERENCES/WORKSHOP/ SEMINARS ATTENDED/ FDP

[1] Chantola, N., & Singh, S.B. (2018). Reliability assessment of transformer incorporating different parameters. Presented in the International Conference on Mathematical Modeling and Scientific Computing (ICMMSC- 2018), held at IIT Indore (July 19-21).

[2] Chantola, N., Singh, S.B., & Ekata (2018). Reliability improvement of Transformer using Neural Network Approach. Presented in the 3rd International Conference on Mathematical Techniques in Engineering Applications (ICMTEA 2018), held at Graphic-Era University, Dehradun (December 7-8).

[3] Chantola, N., Singh, S.B., & Rajput, R.S. (2020). Reliability analysis and Optimization of Cloud Computing Symtem using Markov process incorporating ANN. Presented in the12th Uttarakhand State Science and Technology Congress 2019-20, held at Vigyan Bhawan, Dehradun, India (Febuary 26-28).

[4] Chantola, N., Singh, S.B., & Rajput, R.S. (2020). Reliability analysis and Optimization of Cloud Computing System using Supplementary variable technique incorporating Artificial Neural Network. Presented in 2nd International Conference on Information Management & Machine Intelligence (ICIMMI-2020)" with publication partner Springer Nature, held at Poornima Institute of Engineering & Technology, Jaipur, India (July 24 – 25).

[5] Workshop on "Outcome Based Education" organized by KIET group of Institutions.

[6] FDP on the Title "AI/ML and Data Science for Industry 4.0 (Basic Level)" organized by NITTR, CHANDIGARH.

INVITED TALK
Presented talk on Application of Mathematics on the occasion of National Mathematics Day, 22Dec2023

PAPERS PUBLISHED/ PATENT/ BOOK CHAPTER

[1] Chantola, N. **and** Singh, S.B. **(2019).** The effect of transformer parameters on reliability assessment with the help of health index, *International Journal of Quality & Reliability Management*, 36(06), 895-916. **(SCOPUS)**

[2] Chantola, N., Singh, S. B. and Ekata. (2020). Reliability Improvement of Transformer Using Neural Network Approach. *International Journal of Reliability, Quality and Safety Engineering*, 27(02), 2040005. **(SCOPUS)**

[3] **Pant, H.,** Singh, S.B. **and** Chantola, N. **(2020).** Availability of system subject to multiple failure modes under calendar-based inspection, *International Journal of Reliability, Quality and Safety Engineering*, 28(03), 2150022. **(SCOPUS)**

[4] Pant, H., Singh, S.B. **and** Chantola, N. **(2020).** Availability analysis and inspection optimization for a competing-risk *k*-out-of-*n*:G system, *International Journal of Reliability & Safety*, 14(03), 168-181. **(SCOPUS)**

[5] Agrwal, A., Verma, A., Chantola, N., Verma, S. and Kasana, V. (2022). Synthesis, molecular docking and extensive structure activity relationship of substituted DHP derivatives: a new class of herbicides, *Journal of Environmental Science and Health Part B*, 57(5), 379-420. **(SCI)**

[6] Khati, A., Chantola, N. and Singh, S.B. (2022). Availability modeling of systems incorporating uncertainty & multiple failure modes using critical repair time & copula, *Communications in Statistics-Simulation and Communication* **(https://doi.org/10.1080/03610918.2022.2156544)**

[7] Khati, A., Chantola, N. and Singh, S.B. (2022). Availability assessment of repairable Markov systems with an uncertain inspection period incorporating (M/M/s): (∞/FCFS) queue, *Reliability Engineering and System Safety*. **(SCOPUS)**

[8] An artificial neural network method for optimizing mathematical functions, *An artificial neural network method for optimizing mathematical* functions, Date:13-10-2023. (Published)

[9] Optimized machine learning based solution for smart highway emergency assistance, *Optimized machine learning based solution for smart highway emergency assistance*, Date:13-10-2023. (Published)

[10] Emerging applications and future scope of internet of vehicles for smart cities, *Explainable Artificial Intelligence for Autonomous Vehicles*, Taylor & Francis Group, 1st edition, 2024, https://www.taylorfrancis.com/chapters/edit/10.1201/9781003502432-5.

ORCID ID: https://orcid.org/0000-0001-7838-8787
GOOGLE SCHOLAR LINK: https://scholar.google.com/citations?user=vHvtIloAAAAJ&hl=en

TEACHING EXPERIENCE

❖ Currently, working as an assistant professor in S. S. J. Govt. PG. College Syalde, Almora in the subject of Mathematics. I have worked as an assistant professor in KIET Group of Institutions, Ghaziabad in the subject of Mathematics for 2.4 years and for nine months, worked as a Teaching Personnel (TP) in the Department of Mathematics, Statistics and Computer Science, Govind Ballabh Pant University of Agriculture and Technology, Pantnagar.

TECHNICAL SKILLS

❖ Operating system : MS-DOS, XP/Window 7
❖ MS-Office (MS Word, MS Excel, MS Power Point)
❖ MATLAB

❖ Programming Languages : FORTRAN

PERSONAL DETAILS

Name	:	Neelam Chantola
Father's Name	:	Mr. D. R. Chantola
Mother's Name	:	Mrs. Beena Chantola
Date of Birth	:	18/12/1993
Marital Status	:	Single
Nationality	:	Indian
Permanent Address	:	D/O Mr. D.R. Chantola, Kotdwar Road Lakhanpur Ramnagar, Nainital Uttarakhand-244715, India
Languages Known	:	Hindi, English

DECLARATION

I hereby declare that the information furnished above by me is true and correct to the best of my knowledge and belief.

Nhantola

Place: Syalde   Neelam Chantola