

CURRICULUM VITAE

Name : Dr. Prerana

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Former Pro Vice Chancellor

HBTU Nawabganj, Kanpur-2(UP)

Career Objective: To pursue a challenging career and be part of a progressive organization that gives scope to enhance my knowledge, skills and to reach the pinnacle in the technical education and research field with sheer determination, dedication and hard work as well as seeking a responsible post of senior faculty for giving the practical knowledge which makes the student's career progressive.

Educational Qualification :

- **Ph.D** as Teacher Fellow under the supervision of **Professor (Dr.) Rachna Asthana, (Director Dr. Ambedkar Institute of Technology for Handicapped Kanpur)** from **HBTU ,Kanpur** in World bank TEQIP II scheme.
- **M.Tech in Electronics and Communication Engineering** with specialization in **Digital Communication** from Dehradun Institute of Technology, Dehradun (2012),affiliated to Uttarakhand Technical University,Dehradun with 78.8%(**Honours**) .One year research project undertaken in the area of IMAGE PROCESSING on the topic “IMAGE FUSION OF LOW RESOLUTION IMAGE WITH HIGH RESOLUTION IMAGE OVER LAND COVER CLASSIFICATION” under the joint supervision of **Dr.Dharmendra Singh, Professor IIT Roorkee** and **Dr.Sandip Vijay ,Professor DIT Dehradun.**
- **B.Tech in Electronics and Communication Engineering** (2010) from Faculty of Engineering & Technology,R.B.S. College Bichpuri Campus Agra(UP), affiliated to G.B.Technical University (Formerly Uttar Pradesh Technical University) Lucknow (UP) with 67.5%.
- **Intermediate(2006)** passed from U.P. Board with 70.8%
- **High School(2004)** passed from U.P. Board with 69%

Experience:

- Worked as Assistant Professor in the department of Electronics and Communication Engineering in Axis Institute of Technology and Management ,Kanpur from July 24 2012 - July 18-2014 and taught undergraduate courses related to Electronics and Communication Engineering.
- Worked as Teacher Fellow in World bank TEQIP II scheme in Electronics Engg. department of HBTU, Kanpur since July 17-2014 16 July -2018.
- Worked as as Assistant Professor in the department of Electronics and Communication Engineering in Faculty of Engineering & Technology (FOET), University of Lucknow from Dec 03 2020 – Feb 06-2021 and taught undergraduate courses related to Electronics and Communication Engineering.
- Working as Assistant Professor in the department of Electronics and Instrumentation Engineering in Institute of Engineering & Technology (IET) Lucknow from Feb 08 2021 to till date.

Technical Skill/Computer Proficiency :

- Operating Systems: Windows XP, Windows Vista, Windows 7
- Languages: C, C++
- Software/Packages: MS-Office, MATLAB, ILOG

Industrial Training Profile/Project (Undertaken):

- Six week summer training (from June 22,2009 to July 20,2009) on **Designing Of Finite Impulse Response Filter In MATLAB** under the supervision of **Dr.Krishna Raj Professor, Department of Electronics Engineering, Harcourt Butler Technical University (formerly HBTI) Kanpur .**
- Four week training on **C++ Programming** from **Computer Education Council/ Education & Training Division Under Government Scheme Of I.T Education,Kanpur (UP)** in year 2007.
- Short term course on **“OFDM Based 4G Cellular Standards: LTE and WiMAX “** May 9-11-2011,organised by **Department of Electrical Engineering, Indian Institute of Technology, Kanpur.**
- Short term course on **“Cognitive Radio: The next frontier in Wireless Communications“** Oct 20-22, 2011,organised by **Department of Electrical Engineering, Indian Institute of Technology, Kanpur.**
- Workshop on **“MATLAB Programming and its Applications”**, Feb 25-26 2015,organised by **Department of Electrical Engineering, HBTI,Kanpur.**

- Faculty development program on “**Communication Networks: A research perspective**” ,Feb 27-Mar 04 2017 , organised by **Department of Electronics Engineering, School of Engineering HBTU,Kanpur**.
- Attended 9 days Online faculty development programme (FDP) on **Optimization Techniques for Engineering Applications (OTEA)** from **April 7, 2021 to April 15, 2021** organized by the Department of CSE and E & ICT, NIT Warangal, Warangal - 506004, Telangana, India.
- Attended 7 days AICTE-ISTE sponsored online Faculty Development Programme on “**Internet of Things (IoT) and its Applications**” (**Phase III**) to be held in the Department of Computer Science and Engineering at Annamalai University, Annamalai nagar, Tamilnadu from **12th May to 18th May 2021**.

Presentation and Publication:

- **Prerana(2011)** , ‘Speakers Identification’ Technical paper presentation in International seminar on “Signal Processing & Real Time Operating System (SPRTOS)” jointly organised by Department of Electronics Engineering HBTU Kanpur and Institution of Electrical and Electronics Engineers(IEEE),March 26-27,2011 ,Abstract No.SIP 0502.
- **Prerana(2011)** , ‘Image Compression and Enhancement Techniques’ Technical paper presentation in “National Conference on Microwave ,Antenna & Signal Processing (NCAMP) ” jointly organised by Department of Electronics & Communication Engineering ITS Engineering College ,Greater Noida sponsored by Department of Science & Technology ,April 22-23,2011,Abstract No.SP 3017 , pp 277-280.
- **Prerana**, Sandip Vijay and Dharamendra Singh (2012) ‘Accuracy and Quality Assessment of Image Using Curvelet Transform and Minimum Distance Classification Method’. **International Journal of Electrical and Electronics Engineering (IJAEEE)** (ISSN 2319-1112), Vol 1, No 2 , pp 37-50.
- **Prerana**, Anjali Sharma, Deo Chandra Jaiswal, Rachna Asthana (2017), ‘Power Efficiency In Optical Networks With P-Cycle Protection’ **Journal Of Control Theory And Applications** (ISSN-0974-5572), Vol 10 issue 6.
- **Prerana**, Rachna Asthana, Manoj kumar shukla (2019) ‘A Heuristic Algorithm to Find Power Efficient Pre Configured Cycles (PEP-cycles) and Resolve NP Hard Issues’ **Helix- The scientific explore** (PISSN – 2277-3495, EISSN – 2319-5592), Vol 9, Issue 3. pp 4894-4898.

- **Prerana**, Rachna Asthana, Manoj kumar shukla (2019) ‘ Comparative study of Spare capacity optimization’ Nonlinear Optics, Quantum Optics: Concepts in Modern Optics (PISSN: 1543-0537, EISSN: 1944-8325), vol. 52, issues 1-2, 157-166(2020).
- **Prerana**, Rachna Asthana “Power Conscious Routing Algorithm in Optical Networks” Proceedings of the Fifth International Conference on Communication and Electronics Systems (ICCES 2020) IEEE Conference Record # 48766; IEEE Xplore ISBN: 978-1-7281-5371-1.
- **Prerana**, Rachna Asthana “Power Optimization in WDM Optical Network Using P-Cycle” J. Inst. Eng. India Ser. B Published by Springer (April 2021) 102(2):323–327, <https://doi.org/10.1007/s40031-020-00524-y>

Personal Skills:

- Fast learner, adapt well to changes and pressures in workplace.
- Good presentation and leadership skills.
- Can work effectively with diverse groups of people.
- Friendly with an upbeat attitude.
- Able to relocate anywhere and committed to deadlines and schedules.

Achievements :

- Participated in “**UP State Sub Junior Judo Championship**” in **1999** held at **Green Park,Kanpur** ,organised by” **Kanpur District Judo Association**”.
- Participated in “**Inter Carmel Youth Festival**” in **2001** organised by “**Apostolic Carmel Northen Province**” held at **Jamshedpur** and secured **First** place in maths quiz.

Extra Curricular Activities :

- Participated in **Self Composed Poem Competetion** at school level and secured first position.
- Participated in **Hindi Speech & Elouction Competetion** at school level.
- Participated in **Table Tennis Doubles Tournament** in **Utkarsh-2006** at **FET ,RBS College Bichpuri , Agra** and secured second position.
- Participated in **Carrom Tournament** in **Utkarash-2007** at **FET, RBS College Bichpuri ,Agra** and secured first position.
- Participated in **4*100 meter race** in **Utkarsh -2007** at **FET, RBS College Bichpuri , Agra** and secured third position.

- Worked as the **Editor** of **E-ALCHEMY-The EC Society** in **FET, RBS College Bichpuri,Agra**.
- Worked as an active member for **VINIMAYA -The Literary Society** in **FET, RBS College Bichpuri,Agra** for two years.

Personal Profile :

Name	: Prerana	Sex	: Female
Father's Name::	Dr.Karunakar Singh	Marital Status	: Married
Mother's Name	: Mrs. Sudha Singh	Nationality	: Indian
Date of Birth	: Feb.06,1989	Languages	: Hindi and English

Place: Lucknow

(PRERANA)

