

Curriculum Vitae

- **Name** : **Prof. RACHNA ASTHANA**
- **Designation** : Professor and Director
Dr. Ambedkar Institute of Technology for Handicapped
- **Mailing Address** : Dr. Ambedkar Institute of Technology for Handicapped
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- **e-mail** : rachnaasthana@rediffmail.com
- **Gender** : Female
- **Date of Birth** : 11-02-1967
- **Educational Qualifications**

Sl. No.	Name of Examination	Name of the Board/ University	Year of passing	% Marks	Division
1	M. Tech.	IIT Roorkee (Then UOR)	1990	71.0%	First
2	Ph. D*	IIT Kanpur	2008	CPI-10	CPI 10

***Topic: Study of p-Cycle Based Protection in Optical Networks and Removal of its Shortcomings**

- **Professional Experience**

Sl. No.	Post	Employer	Nature of work	Duration
1	Director	AITH Kanpur	Administration	Mar 2018- till date
2	Professor	HBTU Kanpur	Teaching & Research	2010-till date

- **Research Areas**

All optical networks, survivability, Protection and Restoration, *p*-Cycles

- **Publications**

Total Papers Published	: 36
National / International Journals	: 19
Science Citation Index Expanded (SCI) / Web of Science / Scopus indexed	: 12
International Conferences	: 17
- **Ph. D Guidance**

Ph.D. Degree awarded	: 04
In Progress	: 02
- **M. Tech Guidance**

M. Tech Guided	: 30
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- **Conference & Summer Schools**

Conference/STC organised	: 14
Conference/Summer Schools/STC attended	: 20

- **Achievements at AITH**

- ❖ In order to improve the quality of life of divyang students, for education, training, and research for advancement in technologies of various fields related with divyangs, Atal Bihari Vajpayee Research Center has been established under the DDUQIP scheme of AKTU with a grant of Rs 1.10 crores with a Vision to Empower People with Disability, to live with Dignity and Respect.
- ❖ The Institute has become the Nodal center of Value Education of AKTU.
- ❖ Innovation and Incubation Cell has been established
- ❖ MoU have been signed to enhance the skills, knowledge and placement of students with Model Exims, Xlayer Technologies, BSNL and FFDC Kannauj who will support in curriculum design, industrial training, visits, Internships and placement of students, research and development, expert talks, FDPs, etc.
- ❖ AITH has been approved as the research center of AKTU for PhD Scholars.
- ❖ An ambulance has been donated by Heidelberg Cement India Ltd Jhansi from their CSR funds.

- ❖ Under the Unnat Bhart Abhiyan five villages have been adopted, and Blood Donation Camp, Health Check-up Camp, Covid Vaccination, training programmes etc. have been organised.
- ❖ Under DDUQIP about Rs 4 crores has been sanctioned for second Block of girls' hostel which is under construction.
- ❖ A solar power plant of 108 KWp capacity has been installed and functional for green energy.

- **Administrative Experience/Post(S) & Responsibilities Held :**

- ❖ Working as Director, Dr. Ambedkar Institute of Technology for Handicapped, since 2018
- ❖ Member of Board of Governors of Rajkiya Engineering College, Banda and Bundelkhand Institute of Engineering and Technology, Jhansi
- ❖ Member of Academic Councils of Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh and Bundelkhand Institute of Engineering and Technology, Jhansi
- ❖ Member of National Coordination Committee for Induction Program of All India Council for Technical Education
- ❖ Dean, Faculty of Value Education of Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh
- ❖ Convener, Board of Studies, Value Education, Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh
- ❖ Member of Standing Committee for Autonomy of private Institutes of Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh
- ❖ Member of Finance Committee of Chhatrapati Shahu Ji Maharaj University, Kanpur and Rajkiya Engineering College, Kannauj
- ❖ Member of Board of Studies of Institute of Engineering and Technology, Lucknow, Noida Institute of Engineering and Technology, Greater Noida
- ❖ Acted as Subject Expert, in selection committees of various Rajkiya Engineering Colleges, Government Engineering Colleges / Institutions, in recruitment committees of electronics based Industries and in Selection Committee for selection of Scientist B of Defence Research and Development Organization (DRDO)

Administrative Experience at HBTU erstwhile HBTI

- ❖ Worked as TEQIP-III Coordinator
- ❖ Worked as RUSA Coordinator (grant of Rs. 55 crores had been sanctioned for conversion of HBTI into HBTU)
- ❖ Worked as Associate Dean, School of Engineering
- ❖ Worked as Presiding Officer Internal Grievance Redressal Committee
- ❖ Worked as Head of the Department from Oct 2015-Oct 2018, from Nov 2003 to Jan2007
- ❖ Worked as Assistant Dean Planning and Resource Generation 2013 – 2016
- ❖ Worked as Chairman, Board of Studies, Electronics Engineering Department, HBTU, Kanpur
- ❖ Worked as Member of Board of Studies of IET, Lucknow, HBTI, Kanpur, IRDT, Kanpur
- ❖ Worked as Head Examiner, Human Values and Professional Ethics several times
- ❖ Member of Sexual Harassment of Women; Complaint Redressal Committee, Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh 2015-2017
- **Contribution to Academic Development:**
 - ❖ Completed PhD from IIT Kanpur in 2008 with CPI of 10
 - ❖ An Optical Network Simulator tool has been developed in java during Ph. D, The simulator has been used in several B. Tech Projects and M. Tech Dissertation
 - ❖ Member of Board of Studies of Electronics Engineering Department of HBTU, Kanpur, and many other Institutes and Universities, time to time
 - ❖ Syllabus of B. Tech and M. Tech Electronics and Communication stream courses have been developed as member of BoS Committees of UPTU, Lucknow, BoS of Electronics Engineering Department of HBTU
 - ❖ Acted as Head Examiner for the evaluation of essential course of UPTU “Human Values and Professional Ethics” from Feb 2010, to Jan 2014 several times
 - ❖ Acted as External Examiner for evaluation of many PhD and M. Tech Dissertations
 - ❖ Reviewer of International Journals as IEEE Journal of Lightwave Technology, IEEE Communication Letters, and IET optoelectronics

- **Co-curricular, Extension and Professional Development Activities:**
 - ❖ A paper titled, “p-Cycles: An Overview”, is published along with Prof W.D. Grover (Chief Scientist, Network Systems, T.R. Labs, and Professor, Electrical and Computer Engineering, University of Alberta, Canada), who introduced the concept of *p*-cycles
 - ❖ Syllabus of B. Tech and M. Tech Electronics and Communication stream courses have been developed as member of BoS Committees of AKTU Lucknow, BoS of Electronics Engineering Department of HBTU, IET Lucknow, NIET, Noida
 - ❖ Member of Board of Studies Committee of Electronics Engineering Department of HBTU, Kanpur, UIET (Engineering College) of CSJMU, Kanpur, Electronics and Communication Engineering Stream” of Uttar Pradesh Technical University, “Institute of Research Development & Training” of Uttar Pradesh Technical Board, Govt. of UP, time to time.
 - ❖ Organized many Seminars / International Conferences / Workshops / Refresher Courses / Training programs / Faculty Development Programs
 - ❖ Participated in many Seminars / International Conferences / Workshops / Refresher Courses / Training programs / Faculty Development Programs.
- **Membership of Professional Bodies:**
 - ❖ Member of IEEE
 - ❖ Fellow Member of IETE
 - ❖ Listed in the Marquis Who’s Who in Science and Engineering