

# CURRICULUM – VITAE

## Dr. GAURAV RAHEJA

Assistant Professor

Department of Architecture & Planning

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## AREAS OF INTEREST

- Universal Design Research
- Barrier Free Environment Design
- Design Pedagogy
- Visual Communication & Photography (Cultural Landscapes)

## EDUCATION

- **Doctor of Philosophy (Ph.D.)** in the area of Enabling Environments for the Rural Disabled ( Department of Architecture & Planning, IIT Roorkee )  
Topic of Research : **Enabling Environments for the Mobility Impaired in Rural Areas**  
Institute : Indian Institute of Technology, Roorkee, India  
Graduation : November 2008
- **Master of Architecture ( M.Arch.)**  
(Department of Architecture & Planning, IIT-Roorkee)  
Dissertation : **Designing for the Disabled**  
Institute : Indian Institute of Technology, Roorkee, India  
CGPA : **9.07** on a 10 point scale (**First Rank**)  
Graduation : March 2002
- **Bachelor of Architecture ( B.Arch. )**  
Dissertation : School of Planning and Architecture, Vasant Kunj Campus, New Delhi  
Institute : Giani Zail Singh College of Engineering & Technology, Bathinda  
Class : **First Division (Third Rank)**  
Graduation : June 2000

## AWARDS AND ACCOMPLISHMENTS

- Awarded the NCPEDP Mphasis **Universal Design Award 2010** in the very first year of its inception at India Habitat Centre, New Delhi for contributions to accessibility research and creation of Barrier Free Environments for Persons with Disabilities. I was youngest one amongst the two other awardees in the Professional work category.
- Awarded the Birla White **Yuva Ratna award** (2008 and 2010) for being a Faculty guide and mentor of the award winning student team(s) for their architectural design entries in the National level competition organized by Birla White, an Aditya Birla Group company.
- Awarded the Ministry of Human Resources Development Fellowship, Govt. of India, for pursuing doctoral studies (PhD) at IIT Roorkee. [ 2002 to 2006 ]

## PROFESSIONAL EXPERIENCE

### TEACHING EXPERIENCE AT IIT-ROORKEE [ *since January, 2006 till date*]

#### COURSES TAUGHT AT UNDERGRADUATE LEVEL

- Have taught the following courses in Architecture at Undergraduate Level  
B.Arch. – Ist year - ( AR 101 ) Basic Design and Model Making, (AR 102) Architecture Design – I, ( AR 106 ) Building Construction – I  
B.Arch. – IIInd year - ( AR 201 ) Architecture Design – II, ( AR 202 ) Architecture Design – III, (AR 209 ) Measured Drawing Camp,( AR 211 ) Principles of Architecture  
B.Arch. – IIIrd year - ( AR 301 ) Architecture Design – IV, ( AR 303 ) Building Construction - IV  
B.Arch. – IVth year - ( AR 402 ) Architecture Design – VII, ( AR 406 ) Group Discussion, (AR – 409) Contemporary world Architecture

#### COURSES TAUGHT AT POSTGRADUATE LEVEL

- M.Arch. – Ist Year - (AR 603) Contemporary World Architecture: Trends and Theories

#### THESIS GUIDANCE

- |                                 |             |          |           |           |
|---------------------------------|-------------|----------|-----------|-----------|
| • <b>Doctoral (Ph.D.)</b>       | In Progress | <b>3</b> |           |           |
| • <b>Masters (M.Arch.)</b>      | In Progress | <b>1</b> | Completed | <b>1</b>  |
| • <b>Undergraduate(B.Arch.)</b> | In Progress | <b>0</b> | Completed | <b>13</b> |

## ADMINISTRATIVE EXPERIENCE

#### At Institute Level

- Institute Architect [since December 2007 till date]
- Staff Advisor, Fine Arts Section, Hobbies Club [since 2009 till date]
- Staff Advisor, Music Section, Cultural Council IIT Roorkee [since 2009 till date]

#### At Department Level

- Staff Advisor, Annual Technical Fest of IIT Roorkee- 'COGNIZANCE' held during 2008 and 2009.
- Officer Incharge Examinations [2006 – 2009]
- Officer Incharge Building Materials Lab [ 2009 till date ]
- Officer Incharge Department Website [ 2009 till date]
- Officer Incharge Building Maintenance [2008 – 2010]

## IMPORTANT PROJECTS/ASSIGNMENTS

- Co authored the **Universal Design India Principles (UDIP)** alongwith eight other authors principally led by Prof. Abir Mullick from Georgia Tech, Atlanta and created its graphic identity for launch in public domain in June, 2011 at a Press conference held at India Habitat Centre, New Delhi hosted by National Institute of Design, Ahmedabad.
- Third Party Quality Audit of **Streetscaping and Beautification of Mehrauli Badarpur Road** under Zone M-1 of Delhi Public Works Department (PWD) constructed during Commonwealth Games held at New Delhi, 2010. [2010 – 2011]

- Third Party Quality Audit of **Retro Reflective Road Signages** of various Delhi Public Works Department (PWD) roads. [2010 – 2011]
- Conducted **Access Audit and Retrofitting Designs for making IIT Roorkee campus accessible to persons with disabilities**. This includes design and execution of accessible features in all major academic departments, auditorium and hostel buildings. [2009 – 2010]
- Designed and executed **model accessible environment for Roorkee School for the Deaf**, IIT Roorkee campus. This school is known for its excellence in professional deliveries towards educating the deaf. [2005-06]
- Three times, appointed as Member of the paper setting and evaluation team for preparing the National Level Aptitude Test as a part of Joint Entrance Exam (JEE) conducted by the prestigious IITs for selection of students to the undergraduate courses of Architecture (B.Arch.)and Design(B.Des).[2008, 2009 and 2011]
- Two times, appointed as **Member of the Paper Setting Team** of Architecture & Planning, for the prestigious Graduate Aptitude Test in Engineering [GATE] examination conducted by IITs at National Level for entry to Post graduate programs in Architecture & Planning at various National Institutes. [2009, 2010 ]
- Designed and executed the **Event Identity and Wayfinding signage system for VI<sup>th</sup> International Abilympics** held at Indira Gandhi International Indoor Stadium, New Delhi, 2003.

#### IMPORTANT NATIONAL AND INSTITUTIONAL COMMITTEES

- Appointed as the Member of the Screening Committee for the **National Awards for Barrier Free Environment** by the Ministry of Social Justice and Empowerment, Government of India, New Delhi. [2010 & 2011]
- Nominated as a National Expert in a 5 member team constituted for review of **accessibility standards and guidelines for India** by the Ministry of Urban Development, Government of India, New Delhi. [2009-2010]
- Member, Board of Studies (Doctoral Programme), School of Planning and Architecture, Bhopal(an autonomous Institute under Ministry of Human Resources & Development, Govt. of India).[2011-12]
- Associate Manager, School Management Committee, Roorkee School for the Deaf, IIT Roorkee campus. [since 2010 till date].
- Member, Design Jury for National Students Design Competition on Universal Design organized by School of Planning and Architecture, Bhopal. [2011]
- Member, External Jury for Architecture Design and Graphics of B.Arch. – Ist and IInd year, School of Planning and Architecture, New Delhi [ 2011 and 2009 respectively].
- Member, Campus **Barrier Free Environment Committee**, IIT Roorkee [2009 – 2010].

## INVITED GUEST LECTURES /PRESENTATIONS

- **Universal Design in the Indian context** at a National Workshop and Students Design Competition on Universal Design held at School of Planning and Architecture(SPA), Bhopal. [2011]
- **Streets to Inclusion** as a Keynote address for National Congress on Road designs and accessibility for Persons with Disabilities in Rural and Hilly Areas, held at Chandigarh. [2010]
- **Designing User Friendly Environments** at National Institute of Technology, Hamirpur in a AICTE sponsored interdisciplinary summer school on Intelligent Environments [2010]
- **Transport Planning for Disabled** in a short term course on People's Friendly Urban Environment with focus on Road User Safety organized by HUDCO Chair at CTRANS, IIT Roorkee and HUDCO Chair at UAA, Nainital [2010 ]
- **The World Inside and Building Systems** in an AICTE sponsored Quality Improvement Programme Short Term Course on Interior Design at IIT Roorkee [2007]
- **Disability and Its Impact on Architecture - Internal and External Environment Design Considerations** at Ayojan School of Architecture, Jaipur in an Inclusive Environment Workshop jointly organized by Svayam Jindal Center, New Delhi & Ayojan School of Architecture, Jaipur. [ 2006 ]

## IMPORTANT RESEARCH PUBLICATIONS

1. Raheja, Gaurav (2011), **Strategic Model of Rehabilitation for Persons with Disabilities in the Rural Environments**, National Summit on Disability and Corporate Social Responsibility, Indian Spinal Injuries Centre, New Delhi, India.
2. Raheja Gaurav (2011), **Approach to Barrier Free Environments in Rural Areas**, National convention on Disability, Human Rights and Social justice in India, A N Sinha Institute of Social Studies, Patna, Pp 20-24.
3. Raheja, Gaurav (2010), **Disabling Barriers to Access Water and Sanitation Facilities in Rural Environments**, National Symposium on Accessibility of Water and Sanitation for Persons with Disabilities in India, Indian Institute of Science, Bangalore, Pp 18-32.
4. Raheja Gaurav (2010), **Researching Accessibility Issues for the Mobility Impaired in the Rural Context**, The Voice of Family of Disabled-India's first magazine on Disabilities, Vol.XIX No.4, Pp27-29.
5. Raheja, Gaurav (2008), **Understanding Accessibility in the Rural Context**, A Holistic Approach to Create Barrier Free Environments, Ministry of Social Justice & Empowerment and School of Planning and Architecture, New Delhi at Vigyan Bhawan, New Delhi.
6. Raheja, Gaurav (2008), **Curriculum Development with Universal Design**, A Holistic Approach to Create Barrier Free Environments, Ministry of Social Justice & Empowerment and School of Planning and Architecture at Vigyan Bhawan, New Delhi.
7. Raheja Gaurav, Kulkarni, S.Y., Handa, S C (2007),**Enablement by Universal Design**, A BI Annual International Journal of Architecture, Conservation and Urban Studies, BITS Ranchi, Vol.2, No.2 Pp 31 – 37.

8. Raheja Gaurav, Kulkarni, S.Y., (2005) : **Barrier Free Environment : The Pathway to Accessibility**, An Orientation Guide for Promotion of Vocational Education & Training Among Persons with Disabilities, PSSCIVE (NCERT), Bhopal, Pp 82 – 91.

#### **COURSES/WORKSHOPS COORDINATED**

- Conducted and Coordinated a One Week Short Term course on **Designing Barrier Free Environments** for the faculties of Architecture and Civil Engineering under the Quality Improvement Programme of IIT Roorkee and sponsored by All India Council for Technical Education (AICTE), New Delhi, 2011.
- Workshop on Building Physics and Energy Simulation for faculties of Architecture colleges in India at IIT Roorkee, sponsored by USAID, Continuing Education Centre, IIT Roorkee, 2008.

#### **IMPORTANT COURSES/WORKSHOPS ATTENDED**

1. 29<sup>th</sup> June to 3<sup>rd</sup> July, 2009 : **Effective Teaching; Cooperative Learning, Effective Faculty Development, Outcomes based education** as a part of Indo-US Engineering Faculty Leadership Institute at Infosys, Mysore Center.
2. 8<sup>th</sup> to 12<sup>th</sup> June, 2009 : Summer workshop on **ABC Animation Basics** conducted by National Institute of Design, Ahmedabad.
3. 9<sup>th</sup> Dec, 2005 : Workshop on **Ergonomics Methodology** at IIT Guwahati.
4. 28<sup>th</sup> June to 2<sup>nd</sup> July, 2004: Short Term Course on **Individual Dynamics and Personal Effectiveness** at IIT Roorkee.
5. 21<sup>st</sup> to 25<sup>th</sup> June, 2004 : Short Term Course on **Form, Colour and Graphics in Product Design** at IIT Roorkee.
6. 30<sup>th</sup> June to 4<sup>th</sup> July, 2003 : Short Term Course on **Emerging Trends in Colour Applications to Buildings** at IIT Roorkee.
7. 23<sup>rd</sup> to 27<sup>th</sup> June, 2003: Short Term Course on **Enhancing Professional Skills** at IIT Roorkee.
8. 17<sup>th</sup> to 21<sup>st</sup> Feb., 2003 : Short Term Course on **Research Methodologies in Architecture** at R V College of Engineering, Bangalore.
9. 20<sup>th</sup> to 25<sup>th</sup> Jan., 2003 : Short Term Course on **Structural Steel Design** at IIT Roorkee.
10. 3<sup>rd</sup> to 6<sup>th</sup> Oct, 2001: Workshop on **Design of Signage Systems** at IIT Bombay.
11. 20<sup>th</sup> to 24<sup>th</sup> Jan., 2001: Short term course on **Introduction to Visual Communication** at IIT, Kharagpur.
12. 13<sup>th</sup> to 27<sup>th</sup> June 2001: Short-term course on **Techniques to Improve Classroom Teaching** at IIT, Roorkee.

#### **PROFESSIONAL TECHNICAL MEMBERSHIPS**

- Life Member of Council of Architecture, New Delhi, India [ since 2002]

## PERSONAL DETAILS

**Date of Birth** : 23<sup>rd</sup> November, 1977  
**Age** : 33+ years  
**Marital Status** : Married  
**Nationality** : Indian  
**Current Status** : Assistant Professor  
Department of Architecture and Planning  
Indian Institute of Technology (IIT) Roorkee  
Roorkee – 247 667, Uttarakhand State

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01332 – 285362 (Residence)  
+91-94120 25455 (Mobile)

**Home Address** : 136/4, Vikas Nagar, IIT Roorkee, Roorkee- 247667  
**Permanent Address** : 23, Sri Nath Nagar (West), Jwalapur – 249 407, Uttarakhand, India.  
**Hobbies** : Sketching, Photography, Travelling, Philosophy, Music, Short Stories

**E-mail** : gr.iitr@gmail.com  
grdesfap@iitr.ernet.in

I hereby declare that all the statements above are true and complete to the best of my knowledge.

Place: IIT-Roorkee

Date : 25<sup>th</sup> December, 2011

**(Dr. Gaurav Raheja)**