

Curriculum Vitae

Dr Ajay Kumar Singh

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➤ OBJECTIVE:

To be an asset as a RS and GIS researcher and analyst in Forested Watershed Management and Land Use Dynamics to the organization with I am working and to grow with the organization.

➤ SUMMARY OF QUALIFICATIONS:

Hands on person with substantial national and international exposure for Natural Resource Management (Forest, Watershed, Land use dynamics, Rural & Urban settlement, etc.), research and teaching experience for over six years. Broad knowledge of NRM mapping, planning and management strategies. Extensive training and expertise in Remote Sensing technique; Watershed Management of the Hasdeo and Arpa river watershed of Chhattisgarh, India; Excellent cross cultural communication skills; skilled administrator; proficient in motivating, teaching, research and coordinating personnel for sustained optimum performance; creative and detail oriented; proficient in problem identification, evaluation and resolution; proven ability to work productively in a high pressure environment.

➤ PROFESSIONAL EXPERIENCE:

2011-Continue: PDF, Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas University, Bilaspur, Chhattisgarh, India

2008-10: Project Fellow, Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas University, Bilaspur, Chhattisgarh, India. To study the Forest Land Use/land Cover assessment and change detection on the watershed area of Arpa river; Study of the forest regeneration, species variation, settlement and farming pattern of the rural areas of the Arpa catchment.

August 2005 – October 2005 : Surveyor, Working Plan, North Sarguja Forest Division, Ambikapur, Sarguja, Chhattisgarh, India. Pilot survey of the forest species in the sub tropical dry deciduous forest of North Sarguja division for Working Plan preparation.

➤ EDUCATION:

Ph. D. Forestry Guru Ghasidas University, Bilaspur, Chhattisgarh, India 2011

Title of the Thesis: Watershed management and fire monitoring by using Remote Sensing and GIS in Hasdeo River Basin Area of Chhattisgarh

M. Sc. Guru Ghasidas University, Bilaspur, Chhattisgarh, India Ist division 2005
(Forestry, Wildlife & Environmental Sciences)

Title of Dissertation: Working of some JFM committees in Chhattisgarh, India

1. **RESEARCH EXPERIENCE: 06 Years**

Actively engaged in research since year 2006 on **Watershed management and Forest Land Use Dynamics using Remote Sensing and GIS techniques.**

➤ **PAPER PRESENTED IN INTERNATIONAL CONFERENCE:**

1. **Paper title:** Forest Vegetation Analysis and Land Cover Assessment in Tan Sub Watershed of Hasdeo River Basin, Chhattisgarh, India has presented at the **FIG Working Week 2011 in Marrakech, Morocco** during May 18-22, 2011.

➤ **DELIVERED LECTURE IN CONFERENCE/WORKSHOP:**

1. Delivered lectures as **Resource Person** in the TEQIP sponsored Faculty Development Programme on **“Remote Sensing and GIS Applications in Natural Resources Management”**, Organized by the Department of Agriculture Engineering, North Eastern regional Institute of Science and Technology, Nirjuli (Itanagar), Arunachal Pradesh, India during 14-18 may, 2012.

➤ **PAPER PRESENTED IN NATIONAL SEMINAR /CONFERENCE:**

1. **Singh, Ajay K and Singh, S S.** Spatial analysis of Forest Land Use/Land Cover in Ahiran Sub Watershed area using Remote Sensing Technique in National Conference on Forest, Environment and Climate Change: Issues and Challenges, organized by Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur-495009, Chhattisgarh, India during 30-31, 2012.
2. **Singh Ajay K.** National Seminar on Forest and Environment in India: Contemporary Issues and Challenges organized by Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas University, Bilaspur-495009, Chhattisgarh, India during February 18-19, 2008.
3. **Singh, Ajay K.** Comparative study of the forest village status and its forest management pattern regarding tribal in Marwahi Forest Division, Chhattisgarh in National Seminar on Tribal situation in Middle India: Development and Vision organized by Department of Anthropology and Tribal Development, Guru Ghasidas University, Bilaspur-495009, Chhattisgarh, India during October 11-12, 2007 .
4. **Singh, Ajay K.** Status of Acacia in Chhattisgarh in National Seminar on Forest and Forestry Techniques, organized by Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas University, Bilaspur-495009, Chhattisgarh, India during March 23-24, 2007.
5. **Singh, Ajay K.** Working of Some JFM Committees in Chhattisgarh on National Seminar on Recent Advances in Forest Sciences organized by Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas University, Bilaspur-495009, Chhattisgarh, India during January 30-31, 2006.

➤ **SYMPOSIUM/TRAINING/WORKSHOP PARTICIPATED:**

1. Two hours webcast training on **“Wetlands- At –Risk Protection Tool”** organized by **Centre for Watershed Protection, USA** on May 4, 2011.

2. **EDUSAT** satellite based training course on **Advances in Geoinformatics** conducted by **Indian Institute of Remote Sensing, Dehradun** at Department of Rural Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, India from 14-02-2011 to 09-03-2011.
3. **EDUSAT** based training course on **Remote Sensing, Geographical Information System and Global Positioning System** conducted by **Indian Institute of Remote Sensing, Dehradun** at Department of Rural Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, India from 04-10-2010 to 09-12-2010.
4. Five Days training on **ERDAS GIS Software** completed at Leica Geosystems Geospatial Imaging India, Hyderabad, Andhra Pradesh, India during March 2-6, 2010.
5. Participated in **Entrepreneurship: Opportunity and Challenges** as Delegate organized by Institute of Pharmaceutical Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, India during December 3-5, 2009.
6. Participated in the National Symposium on “**Agroforestry for Livelihood Security, Environment Protection and Biofuel Production**” held at National Research Centre for Agroforestry, Jhansi, Uttar Pradesh, India during December 16-18, 2006.
7. One Day Officers training programme on **Cultivation Techniques of “Petro- crops”** organized by SLT Institute of Pharmaceutical Science, Guru Ghasidas University, Bilaspur, Chhattisgarh, India on 7th October, 2006.
8. One Day training programme on **Plantation Technology** organized by Department of forestry, Wildlife & Environmental Sciences, Guru Ghasidas University, Bilaspur, Chhattisgarh, India on 9th September, 2006.

➤ **MEMBERSHIP:**

Member, International Water Association (IWA)

➤ **LIST OF PUBLICATIONS:**

1. **Singh, Ajay K. and Singh, S S 2012.** FLULC mapping and assessment of a typical sub watershed of Central India using IRS-P6 LISS 3 data. *J. Bio. & Env. Sci.*, 2(9):26-32.
2. **Singh, Ajay K and Singh, S S 2012.** Exploring the spatio-temporal dynamics of forest land use/land cover changes in Ahiran sub watershed of Central India. XVIII UIU FoF, Scopje, Macedonia (Communicated).
3. **Singh, Ajay K. and Singh, S S 2012.** Assessment of Forest Land Use/Land Cover Changes And Its Impact on Industrial Expansion in Lower Hasdeo Sub Watershed, Chhattisgarh, India. *Journal of Land Use Science* (Taylor & Francis). (Communicated).
4. **Chandra, K K, Pandey, S K, Singh, Ajay K. 2012.** Influence of tree rejuvenation, IPNM and VA-Mycorrhizal fungi on shoot emergence, yield and fruit quality of *Psidium guajava* under farmers field condition. *Horticulture Sciences*. (Communicated).
5. **Singh, Ajay K. and Singh, S S 2011.** The forest land use/land cover mapping through RS technique in Chornai sub watershed of Hasdeo river basin of Chhattisgarh, India. In Proceeding “**Young Researchers 2011**” of 12th International Conference for Ph.D.

Students, Young Scientists and Pedagogues organized by Faculty of Natural Science, Constantine the Philosopher **University in Nitra, Slovakia**. ISBN: 978-80-8094-946-4. Pp. 458-466.

6. **Singh, Ajay K. and Singh, S S 2011**. Forest Vegetation Analysis and Land Cover Assessment in Tan Sub Watershed of Hasdeo River Basin, Chhattisgarh, India. In proceeding of the FIG Working Week 2011, Bridging the Gap between Cultures, **Marrakech, Morocco**, 18-22 May 2011. pp. 1-11.
7. **Singh, S S, Singh, Ajay K. and Vandana 2011**. Forest Type Variations and Catchment Status in the Bamni Sub Watershed of Hasdeo River Basin in Chhattisgarh, India. *J. Bio. & Eco. Sci.*, 1(1): 95-102.
8. **Singh, Ajay K. and Singh, S S 2010**. Upper Hasdeo Sub Watershed Status in Hasdeo River Basin at Chhattisgarh, India. In Proceeding of the XXIV FIG International Congress 2010, **Sydney, Australia** from 11-16 April, 2010. pp. 1-6.
9. **Singh, Ajay K. 2009**. Remote Sensing and GIS ka Jal Prabhandan Mein Prayog, Jungle Book. 1(7):6.
10. **Singh, S S and Singh, Ajay K. 2009**. Variability and distribution in Acacia. "In Biodiversity to Biotechnology: IPR". Eds A. Jaiswal and G. Das, NAROSA Publication, **New Delhi**, pp. 250-262.

References:

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