

### A . Personal Information

1	Name in full (in capital letters)	<b>DR. SYED ASHFAQ AHMED</b>
2	Address	Department of Applied Geology Kuvempu University Jnana Sahyadri Shankaraghatta-577 451
3	Date of Birth	28/01/1965
4	Present position	Professor of Applied Geology
5	Date of first appointment	<b>01/08/1997</b>

### B. Academic Qualification

(Relevant documents must be enclosed)

Sl. No.	Examinations passed to start with Degree Exam.	University / Institution	Month and Year	Class Obtained
1	B.Sc.	Bangalore	June 1986	I Class
2.	M.Sc.	Bangalore	June 1988	I Class
3.	Ph.D.	Bangalore	1994	

#### 1. Academic distinctions:

- i. II Rank in M.Sc. (Bangalore University during the year 1988)
- ii. Awarded Young Scientist Fellowship by **Charles University, Prague, Czechoslovakia – 1990 (Visited Czechoslovakia under this Fellowship)**
- iii. Awarded Senior Research Fellowship from **Council For Scientific and Industrial Research (CSIR), Govt. of India 1993-1996**
- iv. Awarded Commonwealth Fellowships, 2002 **United Kingdom from 01.12.2002 to 01.06.2003**
- v. Nominated for award by the University Grants Commission, Govt. of India, under **Cultural Exchange program to visit Syria for promoting Indian Heritage and in Technical, Physical and Applied Sciences – 2003**
- vi. Visited **University of Cambridge** Under Exchange Program – June 2015, April 2016

2. Area of Specialization: Remote Sensing Applications, Image Processing,

3. Membership in Professional Bodies:

- i. Member of Remote Sensing and Photogrammetric Society UK, 2003-2004

- ii. Member of Geological Society of India 1989-2003

**C. Teaching Experience (Full-time regular teaching only)**

Sl. No.	Level of Teaching	Name of the College	Period of Service	Courses Taught
1	Under Graduate	Karnataka Science College	1997-98	Applied Geology
2	Post-graduate	Dept of Applied Geology, Kuvempu University	1998 onwards	Applied Geology, ESRM* MRSa*
3	UG and PG	Central University of Karnataka	2012-2015	Geology

\*Earth Science and Resource Management

\*Master of Remote Sensing and GIS Applications

**D. Administrative Experience and Positions held**

**a. Kuvempu University**

1. Director, Planning, Monitoring and Evaluation Board, (June 2016 onwards)
2. NAAC Steering Committee Coordinator (Nov. 2015 onwards)
3. Head of the Department (Geology) 2010-2012
4. Chairman, Board of Studies, Department of Geology, Kuvempu University November 2015 onwards
5. Director, School of Earth and Environmental Sciences (2016 onwards)
6. Chairman of various Local inquiry committees for college affiliations.

**b. Central University of Karnataka**

1. Chairman, Department of Geology (2012-2014)
2. Chairman, Board of Studies in Geology
3. Dean, School of Earth Sciences (2013-2015)
4. Dean, School of Physical Sciences (2012-2013)
5. Dean, School of Computer Sciences (2012-2013)
6. Dean, School of Engineering (2012-2013)
7. Dean, Students Welfare (2013-2014))
8. NAAC steering committee coordinator- 2013-2015
9. In charge Controller of Examinations June 2013 (successfully conducted all India level entrance examinations to admit students to various courses)

**Work Experience at Central University of Karnataka:**

1. Established new well equipped Departments of Geology, Physics, Mathematics, Computer Sciences, Engineering
2. Prepared and submitted 12<sup>th</sup> plan report for Central University of Karnataka
3. Involved in overall planning and development of Central University of Karnataka from 2012-2015 (June)

## E. Research Experience and Publications

### 1. Research Guidance ( M. Phil / PhD)

- a. PhD: 6 (Completed) and 1 (Submitted)
- b. Presently Guiding two students for their PhDs
- c. M. Phil: 2

### 2. Research Projects:

Sl. No.	Principal Investigator (mention if co-investigator)	Title of the Project	Supporting Agency (Foreign/Indian /Govt./)	Duration		Amount (Rs)
				From	To	
<b>A. Major Research Projects</b>						
01	<b>Co-Investigator</b>	Geology, Geochemistry and Geochronology of the Transect Between Gadag-Goa	DST	1999	2003	<b>20 Lakhs</b>
02	<b>Principal Investigator</b>	Structural and Lithological mapping of a part of Geotransect from Sakleshpur to Chitradurga belt using Remote Sensing and GIS	DST	2009	2012	<b>13,58,240</b>
03	<b>Principal Investigator</b>	Assessing irrigation performance of Bhadra command area, Karnataka using Remote Sensing and GIS	UGC	2009	2012	<b>5,87,000</b>
04	<b>Principal Investigator</b>	Decision support system for flood risk assessment	DST-NRDMS	2013	2015	<b>34 Lakhs</b>
05	<b>Principal Investigator</b>	National networking project on Health GIS	DST-NRDMS	2015	2017	<b>15 Lakhs</b>
06	<b>Principal Investigator</b>	Interactive SDSS for Monitoring Public Health	UGC-UKIERI	2015	2016	<b>15 Lakhs</b>
<b>B. Minor Research Projects</b>						
01	<b>Principal Investigator</b>	Evaluation of ASTER DEM	Japanese Govt. Ministry of Commerce	2004	2005	
<b>C. Departmental Research Projects</b>						
01	<b>Member</b>	UGC-SAP (DRS-I)	UGC	2003	2008	<b>60 Lakhs</b>
02	<b>Member</b>	UGC-SAP (DRS-II)	UGC	2009	2014	<b>75 Lakhs</b>
03	<b>Member</b>	DST-FIST	DST	2004	2009	<b>45 Lakhs</b>

### **3. Research Publications:**

#### **List of Publications**

#### **List of Publications (2010 onwards)**

##### ***In Peer Reviewed Journals***

1. Ali M Qaid, Basavarajappa, H.T., Rajendran, **S.**, **Ashfaq**, S.A. and XU Junfeng (2009). Calibration of ASTER and ETM+ imagery using Empirical line calibration method- A Case Study of North-East Hajjah, Yemen. *Geospatial Information System*, Vol. 12 (3): pp. 197-201 (**Springer**)
2. **S.A.Ahmed**, K.N.Chandrashekarappa. S.K.Raj., Nischitha, V., and Kavitha, G (2010). Evaluation of Morphometric parameters derived from ASTER and SRTM DEM- A Study on Bandihole Sub-watershed basin in Karnataka. *Jour. Indian Soc, Remote Sen.* Vol. 38. Pp 227-238. (**Springer**)
3. Devaraju, T.C., T.L.Sudhakara, R.J.Kaukonen, R.P. Viljoen, T.T.Alapieti, **S.A.Ahmed** and S.Sivakumar (2010). Petrology and Geochemistry of Greywackes from Goa-Dharwar sector, Western Dharwar Craton: Implications for Volcanoclastic origin. *Journal of Geol. Soc. India*, Vol. 75, pp. 465-487. (**Springer**)
4. V.Nischitha, **S.A.Ahmed**, Hamza Varikoden, J.V.Revadekar and G.S.Srinivasa Reddy (2013). Spatial and temporal variability of daily monsoon rainfall in Tunga and Bhadra River basin. *Annals of GIS*, Vol. 19 (4) pp 291-230. (**Taylor and Francis**)
5. Abdul Karim, S.N.A, **S.A.Ahmed**, Nischitha, V., Surabhi Bhatt, Kiran Raj, S and K.N.Chandrashekarappa (2013). FAO 56 model and remote sensing for the estimation of Crop water requirement in Main Branch Canal of the Bhadra Command area, Karnataka State. *Jour. Indian Soc, Remote Sen.* Vol. 41. Pp 883-894. (**Springer**)
6. Surabhi Bhatt and **S.A. Ahmed** (2014) Morphometric analysis to determine floods in the Upper Krishna basin using Cartosat DEM. *Geocarto International*, Vol. 29., pp. 878-894. (**Taylor and Francis**)
7. Ajaya S Bharadwaja and **S.A.Ahmed** (2015) Monitoring the delineation of Surface water bodies using NDWI techniques. *Coordinates*, Vol 11, pp. 46-49
8. Ajaya S Bharadwaja and **S.A.Ahmed** (2014). Planning development on Floodplains. *Geospatial Today*, Vol. 13 (3), pp 34-39.

9. Kiran Raj.**S.A. Ahmed**, S.K.Srivastav, P.K.Gupta (2015) "Iron Oxides mapping from Eo-1 Hyperion data" Journal of Geological Society of India. Vol.86, December 2015, pp.717-725 (**Springer**)
10. Kiran Raj.S and **S.A.Ahmed** (2014). "Auto-extraction and Comparison of Lineaments from Landsat TM and ASTERGDEM using Geomatics Techniques for the part of Chitradurga Schist Belt, India: A Case Study" International Journal of Computer Science Applications Volume 93, No 12,pp-12-20.
11. J.V. Revadekar, Hamza Varikoden, P.K. Murumkar and S.A. Ahmed (2016) On the relationship between sea surface temperatures, circulation parameters and temperatures over west coast of India, Science of the Total Environment 551–552 (2016) 175–185 (**Elsevier**)
12. K. Ibrahim-Bathis, S.A. Ahmed (2016). Geospatial technology for delineating groundwater potential zones in Doddahalla watershed of Chitradurga district, India. Egypt. J. Remote Sensing Space Sci.

### **Books**

1. Abdul Karim and **S.A.Ahmed** (2012) Water Balance in Irrigated Area, Lambert Academic Publishers ISBN: 978-3-659-28121-1.
2. **S.A.Ahmed** and Ali Raza Moosvi (2012) 'Frontiers of Earth Science Research', Publisher: Professional Books Publisher, ISBN: 978-81-909728-4-0.

### **Full Papers Published in proceeding volumes**

1. Anand A j, **S A Ahmed**, Raj Sk, Nischita V, Surabhi Bhatt and Abdul Karim (2011), Development and Mangement of Karala halla watershed, Davanagere district, using remote sensing techniques. Sustainability of Groundwater Resources, pp 101-104
2. Lingdevaru M, Anantha Murthy K S, Chandrakantha G, **S A Ahmed**, Chandrashekarappa K N and Govindraju (2011), Groundwater quality Assessment- A case study of Bhadravathi town, Central Karnataka, Sustainability of Groundwater Resources, pp 183-190
3. Chandrashekarappa K N, Basavaraja Simpi, **S A Ahmed**, and Govindraju (2011) Groundwater quality status of the Tunga left bank command area, Karnataka, Sustainability of Groundwater Resources, pp 191-197

4. Abdul Kareem, S.N., **S A Ahmed**, Kiran Raj S., Nischitha V., Surabhi Bhatt, K.N. Chandrashekarappa (2012) Crop-Water Assessment in the Right Bank Canal of the Bhadra Command Area, Karnataka, Geomatrix 12, International International conference on geospatial technologies and applications 26-29 February 2012, Mumbai, India.
5. Nischitha, V., **S. A. Ahmed**, Abdul Kareem, S.N., Surabhi Bhatt, Kiran Raj, Sand K.N. Chandrashekarappa (2012), Spatial Variability of Rainfall in Tunga and Bhadra Basin, Karnataka, India, Geomatrix 12, International International conference on geospatial technologies and applications 26-29 February 2012, Mumbai, India.
6. Surabhi Bhatt, **S.A Ahmed**, Kiran Raj S, Nischitha V, Abdul Kareem S.N and K.N. Chandrashekarappa (2012), ASTER and SRTM derived Morphometric Analysis of Yerla River in Maharashtra, Geomatrix 12, International International conference on geospatial technologies and applications 26-29 February 2012, Mumbai, India.
7. Nischitha, V., **S.A.Ahmed**, M. Lingadevaru and K.N. Chandrashekarappa (2012), Geospatial Analysis for Mobile Network of Thirthalli Taluk, Shimoga District, Karnataka, India, 'Frontiers of Earth Science Research', p. 113-117. ISBN: 978-81-909728-4-0.
8. Nischitha, V., **S.A.Ahmed**, Abdul Kareem, S.N., Kiran Raj, S, Surabhi Bhatt, and K.N. Chandrashekarappa (2012), Spatial Variability of Daily Monsoon Rainfall in a Mountainous Terrain, 'Frontiers of Earth Science Research', p. 118-122, ISBN: 978-81-909728-4-0.
9. Surabhi Bhatt, **S.A Ahmed**, Abdul Kareem S.N, Kiran Raj S, Nischitha V, and Nijagunappa. R., (2012), ASTER DEM derived Morphometric Analysis for Floods of Upper Krishna Basin, 'Frontiers of Earth Science Research', p. 135-140, ISBN: 978-81-909728-4-0.
10. Ibrahim, B, **S.A Ahmed**, Surabhi Bhatt, Abdul Kareem S.N, Nischitha V and Kiran Raj. S. (2012), Remote Sensing and GIS based Mapping and Assessment of Mangroves of Kasaragod District in Kerala, India, 'Frontiers of Earth Science Research', p. 157-163, ISBN: 978-81-909728-4-0.
11. Basavaraja Simpi, Chandrashekarappa K.N, **S.A Ahmed.**, Status of Canal System in Tunga Left Bank Command Area, Shimoga and Davanagere Districts, Karnataka, India, 'Frontiers of Earth Science Research', pp. 187-193, ISBN: 978-81-909728-4-0.

12. Krishna Rao, P.C. Nagesh, **S. A Ahmed**, Surabhi Bhatt and D. Nagaraj., Morphometric analysis of Uduthorai Halla Sub-Basin of the Cauvery Basin using Satellite Data, 'Frontiers of Earth Science Research', p. 222-232, ISBN: 978-81-909728-4-0.
13. Abdul Kareem S.N, **S.A Ahmed**, Kiran Raj S, Nischitha V, Surabhi Bhatt, K.N. Chandrashekarappa and Ibrahim, B., (2012), Evapotranspiration estimates from MODIS in the Bhadra command Area, 'Frontiers of Earth Science Research', p. 233-236, ISBN: 978-81-909728-4-0.
14. R. Nijagunappa, V.H. Pratibha, **S.A. Ahmed** and Surabhi Bhatt., Study of Floods in Gulbarga District using Geoinformatics, Proceedings of the seminar 'Frontiers of Earth Science Research', p. 237-243, 5th-6th May 2012, Central University of Karnataka, Gulbarga. ISBN: 978-81-909728-4-0.
15. R. Nijagunappa, S. Gaikwad Abasaheb, **S. A. Ahmed**, and Sulochana Shekhar., Urban Sprawl Study on Gulbarga City Using Geoinformatics and Shannon's Entropy, Proceedings of the seminar 'Frontiers of Earth Science Research', p. 260-267, 5th-6th May 2012, Central University of Karnataka, Gulbarga. ISBN: 978-81-909728-4-0.
16. Ibrahim Bathis. K and **S.A Ahmed** (2014) Identification of Suitable Sites for Water Harvesting in the Water Scarcity Rural Watershed by the Integrated Use of Remote Sensing and GIS, International Symposium on Integrated Water Resources Management (IWRM-2014), February 19-21, 2014, CWRDM, Kozhikode, Kerala, India. Vol. 1 pp. 1263-1271. ISBN: 978-81-8424-906-4.
17. Ibrahim Bathis. K and **S .A. Ahmed** (2013), Morphometric Analysis and Prioritisation of Sub-Watershed Using CartoDEM: A Case Study of Doddahalla Watershed, Chitradurga, India, Research and Review: Journal of Engineering and Technology Volume 2 Issue 3 (Supplement), July – September 2013 ISSN: 2319-9873, p.12-17