

Research Projects

During 2008-15 the department completed 2 major and a minor projects. These are projects were funded by UGC (Rs. 75,000), BUB (Rs. 2, lakhs) and ISRO / RESPOND (8.5 Lakhs).

Academic / Industry Interaction

The department has actively interconnected with academic institutions such as IISC, Universities, ISRO, SOI, KSTA, HUDCO, KRSRAC, KSPCB & BBMP in terms of exchanging data / information and inviting resource person for the departmental events.

Research Publications / Awards / Recognitions

Thirty four national and eight international research papers have been published in reputed journals. The staff members of the department have visited and presented their research papers in various international conferences held around the World. To name a few, University of Singapore, University of Sydney and Brisbane, IGU, Australia, Tunisia (North Africa), Myanmar, Sri Lanka and South Africa, Japan, S. Korea & UK.

Awards & Fellowships: Dr. Ashok Hanjagi has received two research awards namely, Australian Endeavour Executive Award-2009 and UGC Research Award during 2009-2011. Five scholars have received fellowships for post-doctoral research programme. During this period, **six research scholars** have received fellowships for their research work. Two Rajiv Gandhi Fellowships have also been awarded to the department in which one got Ph.D and 2 are nearing completion. Nineteen students have cleared UGC-NET /SLET and one has qualified for JRF. Staff members have received many Social Awards for their outstanding works. Presently, there are 18 research scholars carrying out their research on various topics of Geography and on allied disciplines leading to Ph.D. degree. Department students namely Dr. Priya N. & Miss Sandhya Kumari have received UGIT's Young Technologist Award 2013 and 2015 respectively. Three foreign students have got their PhD. Degree from the Department.

Department Publication

The Department of Geography, under Union of Geographic Information Technologists (UGIT) publishes original and innovative research articles consisting of geography and allied disciplines. The "Geographical Analysis" (ISSN 2319 - 5371) and "Geo-Eye" (ISSN 2347 - 4246) are the two international peer-reviewed journals of the UGIT. **Geographical Analysis** comprises research articles which aims to ascertain and update geographical knowledge through its biannual publication. **Geo-eye** is an e-journal and is biannual in character. These journals provide ample opportunities for researchers for whom this would be a stepping stone as formal research writing. Articles published under these journals address various research issues & challenges, which resolve the practical problems faced by the contemporary world. These journals details are:

	Names of the Journal	Date of Issue	ISSN Number	Nature of the Journal
1	Geographical Analysis	July, 2012	ISSN 2319 - 5371	Peer-reviewed and Biannual
2	Geo-Eye	July, 2012	ISSN 2347 - 4246	Peer-reviewed and Biannual
3	Geographical Analysis	December, 2012	ISSN 2319 - 5371	Peer-reviewed and Biannual
4	Geo-Eye	December, 2012	ISSN 2347 - 4246	Peer-reviewed and Biannual
5	Geographical Analysis	July, 2013	ISSN 2347 - 5371	Peer-reviewed and Biannual
6	Geo-Eye	July, 2013	ISSN 2347 - 4246	Peer-reviewed and Biannual
7	Geographical Analysis	December, 2013	ISSN 2319 - 5371	Peer-reviewed and Biannual
8	Geo-Eye	December, 2013	ISSN 2347 - 4246	Peer-reviewed and Biannual
9	Geographical Analysis	July, 2014	ISSN 2319 - 5371	Peer-reviewed and Biannual
10	Geo-Eye	July, 2014	ISSN 2347 - 4246	Peer-reviewed and Biannual
11	Geographical Analysis	December, 2014	ISSN 2319 - 5371	Peer-reviewed and Biannual
12	Geo-Eye	December, 2014	ISSN 2347 - 4246	Peer-reviewed and Biannual

Placement Services

There is sufficient demand for admissions to M.Sc. & P.G. Diploma in Geoinformatics. Regular campus interviews are being conducted for the benefit of the students. Overall, 26 students of Geoinformatics of previous years have been placed at MNCs, Government establishments and Universities. Mr. Sriharibabu who is a Ph.D scholar has topped in KAS and appointed as Superintend of Police (SP). Dr. Priya N. who was a Ph.D scholar of this department has been appointed as an Assistant Professor in Central University of Karnataka. At the same time, Mr. Manjunath, a student of our department has been appointed as an Assistant Professor position in state university. Dr. Nyo Nyo (Myanmar), Dr. Md. Kazi Haq (Bangladesh), Dr. Sunil Bhaskar (Australia) and Dr. Jalal (Yemen) have carried out research in our department and have been placed in higher positions in their respective countries and are Alumni of the department.

Strength of the Department

UGC – SAP –DRS – 2011-2016: The Department has been awarded UGC – SAP –DRS – 2011-2016 for the period of five years. Under this programme new thrust areas have been identified to take-up research work.

Thrust Areas Identified Under SAP:

1. The Application of the Geo-spatial technology in Urban & Regional Geography.
2. Spatial Analysis of Micro-level Regions in Karnataka.
3. Challenges and Issues of Urban Sustainability: A Case Study of Bangalore.
4. Climate change and its impact.

Nodal Training Centre: The Department has emerged as a nodal training centre for organizing GIS and Remote Sensing workshops and training programmes in the areas of spatial technologies.

Funding support from ISRO & KSTA: Both Indian Space research Orgnaiztion and Karnataka Science & Technology Academy support in funding the department.

GIS Remote Sensing: The department is well-equipped with Labs, LCD Projectors, Geographical Models, Computers, GPS, GIS & Image processing software and satellite imageries.

Facilities in the Department: The department has library for SC/ST students wherein hundreds of books, journal and atlas and competitive books are available. It has plenty of cartographic instruments, toposheets, satellite imageries (Carto-Sat, Sea-Wiffs) covering Karnataka state and few important areas of India. Department has microphone system, digital cameras. It also has Wi-Fi connection and a good library for documentation facilities.

EduSAT Outreach Programme: Department of Geography has been identified as one of the nodal centres by ISRO / IIRS for EduSat programme. Students, researchers and teachers of the department can register their names and get benefited of online programs.

Awareness Programmes: The Department regularly conducts Campus Cleaning & Greening under Swachch Bharath Abhiyaan. Apart from this Earth Day, Environmental Day, Ozone Day, World Water Day, GIS Day, etc are being conducted for creating awareness among public.

Invited Lectures for Civil Service Examinations and Geospatial Technologies: The past students of the department and other top officials in the areas of civil service and geospatial technologies are being invited to the department to motivate students and deliver special lectures relating to present market requirements.

Bhuvan Mapping: Department of Geography has been identified by ISRO and supports the department in providing the infrastructure facilities for the Bhuvan Village mapping and database creation.

Separate Building for the Department: The separate building is coming up on the first-floor of the Geology department which has all the facilities to start-up the courses.

Software Available: ArcGIS, ERDAS, ILWIS, Geo-Media Professional, AutoCAD, iGIS, LPS & QGIS as open Source Software.

Future Plan:

There is a high demand for GIS Specialists from the public sector undertakings and MNCs and IT sector. Students who have been trained in GIS, RS & GPS have more opportunities. Total-Station surveying with advanced versions of the software will have more chances of getting placements. Hence, the department is introducing 'M.Sc. in Geographic Information Science covering advanced GIS. It also proposes to conduct short-term certificate course to meet the industrial and academic needs. Department has plans to team-up with Bharthidasan University, University of Mysore, Madras University, Central University of Karnataka and other universities of similar interest for Student Exchange Programmes. Department would like to have further contact programmes for its research activities with universities abroad (Australia and Japan) for which already contact have been established.

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Bangalore – 560 056

P.G. Department of Geography

With

UGC – SAP – DRS 2011-16



Vision

To strive for excellence in higher education for the realization of a vibrant and inclusive society through knowledge creation and dissemination.

Mission

- Impart quality education and promote scientific temper in understanding mother Earth.
- Blend theoretical knowledge with practical skills
- Pursue academic excellence through quality teaching, research and publications.
- Inculcate right values among the students.
- Promote leadership qualities among the students.
- Produce socially sensitive and responsible citizens.
- Hasten the process of creating a knowledge society in country.



About Geography

Land, water, air and biome make the whole 'mother earth' over which huge human and animal population is distributed. Geographic knowledge relating to the earth's features like where the things are? What are their surroundings? How are their spatial relationship pertaining to development and management of nation? Geography also presents the relationship between man and the environment. A fair knowledge and understanding of geography builds a bridge between these two and the earth will be in safer side. If man fails in understanding Geography of the Earth and its environment, there creates disastrous situation. Hence, geography plays a vital role to understand about the dimensions of the earth properties, features and their distributional pattern over the earth. Any nation's progress and prosperity is the understanding the geographical setting of that nation and utilization of the natural resources distributed over it. Geography helps us to know more about each other and our culture. It helps us to understand our environment and problems associated with it. It also facilitates us to understand the ways each of us interacts with earth's environment. "Geography plays a vital role in solving environmental, political, economic, and social problems to gather spatial information for planning and decision-making process". Location, place names, human environment Interaction, movement, and region can be easily understood through geography itself. Geography subject is relatively a new instrument to supply geographic relationship in five basic elements like maps and globes, geographic data sets, work flow models, data models, and metadata (data about data) give a strong base for addressing various challenges. Geographical study enhances advancement in intelligence, efficiency, informed decision-making, science-based planning, resource accounting, evaluation, and communication. Geographic knowledge, of capturing and processing natural resources data of an area enriches the quality. This can be achieved by an understanding the Geography. Recently, Geography has turned into technical and applied oriented subject as it comprises of Remote Sensing, *Aerial photographs*, Geographical Information Systems, Global Positioning System & Digital Cartographic Methods.

History of the Department

The PG Department of Geography was started in the year 1974-75 in the Central College Campus, Bangalore University. Dr. H. Narasimhaih the then Hon'ble Vice-Chancellor and Prof. M.S. Shanthaveeraiah were main persons for the establishment of the Department. Initially, the Department saw primary growth under the stewardship of Dr. C. Naganna, the first Head of the Department. Subsequently, Dr. Daksha C. Barai was heading the Department, till 1991. Later, the rotation of chairmanship had been introduced.

Courses Offered

Course	Enrolment Eligibility	Intake	Duration
M. Sc. in Geography	The Department offers admissions to graduates both from Science and Arts streams with Geography background.	30+2	4 Semesters: 2 Years
M.Sc. in Geographical Information Science (Self financed scheme)	For M.Sc in Geographical Information Science graduates from science, arts & commerce are eligible.	20	4 Semesters: 2 Years (Exit system after 2 semester with Diploma)
Diploma in Geoinformatics (Self-financed scheme)	For Diploma in Geoinformatics graduates from science and arts are eligible. The course is of one year with two semesters.	20	2 Semesters: 1 Year
Ph. D. Programme.	It has furthered research and development through intensive and comprehensive work in areas of Geography covering the modern scientific and technological developments.	8 Seats per Guide	Regular with 3 Years & Part time with 5 Years
Post-Doctoral	Doctoral Degree holders who have received fellowships from UGC / DST also appointed in major Project Work as a PDF Candidate.	Based on availability	Two to five years

Modernized & Need-based Syllabus

The curriculum of the courses has been designed and upgraded on par with IAS, KAS, NET and SLET so as to help the candidates in Civil Service examinations to become class-I & Class-II Officers and to qualify in eligibility tests to become Assistant Professors at College and University level. Geospatial Technologies (Remote Sensing, Geographic Information Systems (GIS), Global Positioning Systems (GPS), Surveying and Digital Cartography) have also been included in the curricula to cope with the needs of the fast changing world and allow students to get placements in Multi-National Companies (MNCs). Students after their degree have multi-options to decide whether to go ahead with civil service, teaching, research or geospatial technological fields. All the areas have got equal opportunities to provide them placements.

Faculty Profile: Three permanent and six guest faculties are working in the department, out of them two are Professors and one is an Associate Professor.



Dr A.S. Rayamane
(b. 1957)

He has 30 years of teaching experience at University level & has 28 years of Research Experience & Produced 18 Ph.D. & 15 M.Phil candidates. He served in different capacities as a Chairman, President, Convener, Director, Development Officer, Coordinator UGC / NET, Vice-President, LIC Chairman, Editor, Examiner, etc. He has also served as Member for Governing Council, BOA, BOE and BOS. He has delivered lectures as a resource person for academic staff. He has published 50 research articles in leading national and international research journals. Further, he has published 3 research volumes with ISBN numbers. As a Convener, he has organized 4 international conferences. He has delivered more than 50 invited talks in the country. He is life-members of many national and international professional academic bodies. He has visited number of countries like Singapore, S. Korea, Myanmar, Sri Lanka, Japan, Australia and South Africa, UK, Scotland & Ireland for Academic Purpose. Presently Dr A.S. Rayamane is a Professor of Geography and a member of Academic Council, BU Bangalore. He is working as President, Union of Geographic Information Technologists (UGIT).



Dr Ashok Hanjagi
(b. 1968)

He has served 19 years & presently working as a Professor and Chairman. He has been awarded Endeavour Executive Award-2009 for Academic & Research by Government of Australia; INSA Visiting Fellowship-2007 by Indian National Science Academy, New Delhi; Environmentalist of the Year by National Environment Science Academy-2007; Research Award-2009-2010, UGC, New Delhi; and Best Citizens of India-2010 by Academic & Research International Publication House, Delhi. He has published 35 research articles & completed Research Projects. He has produced 6 Ph.Ds and guiding 8 Ph.D. Candidates and 1 Post-Doctoral Candidate at present. He has worked as member of various committees, BOE Chairman and Chief-Custodian, NET Observer, etc. As a Director & Coordinator organized seven workshops and trainings to spread spatial technologies among teachers & researchers in India. He has delivered 65 special / invited lectures / keynote addresses in Conferences, Workshops, Refresher Course and Orientation Programmes. He is a Chief-Editor & Chief-Secretary of UGIT. He has visited USA, Australia, Sri Lanka, Germany, Hong Kong, Malaysia, Singapore, UK, Scotland, and Ireland.



Sri L.N Patil (b1954)

He has 32 years of teaching experience at University level and produced 2 M.Phil and also served in different capacities as a Member, BOS, BOE, Faculty of Science & Resource Person. He has published research papers and attended national and international conferences. He has become life-members for many academic bodies at national and international level. He has been promoted as Associate Professor & serving as a Treasurer in Union of Geographic Information Technologists.

INVITED / GUEST FACULTIES

He has been Visiting Professor to many departments. Dr. Manikiam has been awarded Doctorate Degree from IIT, Madras and has been worked in ISRO over 30 years. His areas of specialization are Remote Sensing & GIS and Atmospheric Science. He has over 150 research publications in reputed Journals. He is currently Professor of Sir. M. Visvesvaraya – ISRO Chair and Visiting Professor to Geography Department. His current interests are Climate Change, Environment Management & Disaster Mitigation. He has been elected as a Chairman of Indian Meteorological Society, Bangalore Chapter.

Dr. Balakrishnan Manikiam (1950)



She has served 7 years as Guest Faculty in the P.G. Department of Geography Bangalore University Bangalore, She has attended seven international and three national level conferences. She has participated in three workshops and also delivered lectures as a resource person in several workshops. She has acted as Organizing Committee Member for 3 International conferences and 3 workshops conducted by Department of Geography. She had been to **Sri Lanka for International Conference** held at University of Sri Jayewardenepura and Presented Research Paper. She has also worked as squad in BA/BSC & LLB examinations.

Dr Rita B (B.1978)



He has 7 years of teaching experience at Post-Graduate, P.G. Diploma and Pre-University College level. He has worked as Assistant Examiner for Bio-technology PG Exam and was a GIS Consultant for Dream Tech Solution and also worked for Edge Mapping India Pvt. Ltd as a Trainer. He has participated and presented research papers in conference and seminars. He has served as a resource person in GIS & Remote Sensing workshops conducted by the department. He has also worked as squad in BA/BSC & LLB examinations. He has acted as organizing committee for many conferences and workshops.

Dr Abhishek MJ (B.1982)



She has passed her M.Sc. Geography in the year 1997 and Ph.D in 2008. She has attended 20 national and international conferences and presented papers on various themes in Geography. She has 7 Years of teaching experience at postgraduate and 3 years at undergraduate level. She has published 11 research articles in Research Volumes and proceedings.

Dr Jayalaxmi SH (B 1972)



He has been awarded doctorate degree and 2nd Rank holder in M.Sc. from the Department of Geography. He has 4 years of teaching experience at graduate and 3 years at Pre-University level. He is working as one of the editors for 'Geographical Analysis' and 'Geo-Eye' journals. He has published 10 research articles in leading journals and has participated and presented research articles in various conferences at national and international level and has attended many workshops. He has cleared NET and SLET.

Dr. Vishwanath BC (b.1986)



She is a Research Scholar working under the guidance of Prof. Ashok D Hanjagi. She passed her M.Sc degree from Bangalore University securing 2nd rank and has also completed her B.Ed. in the year 2012. She qualified UGC-NET (2013) and K-SET (2012). She has attended many workshops, four international and two national level conferences and presented research papers. She is a recipient of "Young Technologist Award – 1st Prize" for her paper presentation at UGIT's 3rd international conference. She has published three research articles in international journals. She has also delivered lectures both at UG and PG level.

Sandhya Kumari R (b1988)



He is a Research Scholar & has taken research topic in urban area. He stood First rank in M.Sc. in the year 2014 with a Gold Medal. he participated in International Conference and presented his paper at the UGIT's Young Technologist Award -2015 in Mangalore University college, mangalore. He has participated in International Conference and Workshop as well.

Workshops / Trainings / Conferences organized by the department – 2008-15

	Event Name	Focal Theme	Funding Agencies	Year
1	National Level Workshop	Fundamentals of Geoinformatics	ISRO, India	2008
2	National Level Workshop	Fundamentals GIS, GPS & Remote Sensing	ISRO, India	2008
3	National Level Workshop	Application of Geographic Information Technology	Bangalore University	2009
4	International Conference	Environment, Agriculture & Food Security in India.	UGC, ISRO, ICSSR	2010
5	State Level Workshop	Modeling Peri-Urbanization	Bangalore University	2010
6	National Level Workshop	Bhuvan Workshop	NRSC/ISRO	2012
7	National Conference	Sustainable Urban Waste Management	UGC-SAP	2012
8	International Conference	Urban Issues and Challenges	UGC-SAP	2013
9	Two Days Workshop	Nitty-gritty of Geoinformatics	KSTA, Bangalore	2014
10	3 rd International Conference	Geospatial Technologies in Urban Sustainability –Issues and Challenges	UGC & BUB	2015
11	Training on Geospatial Technology	Fundamentals GIS, GPS and Remote Sensing - I	ISRO, India	2015
12	Training on Geospatial Technology	Fundamentals GIS, GPS and Remote Sensing – II	ISRO, India	2015