Dr. Sheeba Afsar Professor Chairperson

Department of Geography University of Karachi Phone Office: 021-99243131-7 /2292 Karachi-75270 Res: House No. R339 Block, 16 A, Gulistan –e- Jouhar, Karach, Pakistan sheebanaeem@hotmail.com & sheebanaeem@uok.edu.pk

Institute Focal Person, LQAS and PCM for the POLIO Eradication and Immunization led by the WHO

Member of Academic Council, University of Karachi Member of Senate, University of Karachi Member of Board of Science Faculty, University of Karachi Member of Board of Arts and Social Science Faculty, University of Karachi Member of Board of Studies, Department of Geography, University of Karachi Member of DRC, Department of Geography, University of Karachi Member of QEC, University of Karachi Head Examiner of B.A (Pass) Lab Examination Professional Membership of the K-GIS Society, 2013-14 2014 Member, International Association for Landscape Ecology, UK April 2004 Student Member Pakistan Geographical Association (PGA), 1999 Pakistan Member Board of Faculty Department of Geography, University of Karachi Member National Curriculum Revision Committee of Remote Sensing and GIS Member SURE

Assistant Professor	14.9.200609.3.201	4
Associate Professor	10.3.201406.6.201	6
Professor	07.6.2016 to date	
Chairperson	02.07.2021 to date	

Students' Advisor

16 January, 2015 to November 2018

Attended HEC NCRC Meetings 2016-2017:

- Attended Meeting of National Curriculum Revision Committee of Remote Sensing and GIS held 17-19 April 2017at HEC Regional Centre Lahore.
- Attended Meeting of National Curriculum Revision Committee of Remote Sensing and GIS held 3-5th December 2016 at NED University of Engineering and Technology, Karachi.

Education

Ph. D.	Department of Geography, University of Karachi, Karachi, Pakistan	2012
	Dissertation: Appraisal of Urbanization and Quality of Life by Employing	Ş
	Remote Sensing and GIS Techniques: A Case Study of Karachi	
M.Phil.	Department of Geography, University of Karachi, Karachi, Pakistan	2001
	with collaboration of SUPARCO.	
	Dissertation: Application of Remote Sensing for Urban Growth Monitoring	
	And Landcover/Landuse Mapping for Change Detection in Karachi	
M.Sc.	University of Karachi, Department of Geography (First Division)	1996
B.Sc. (Hons.)	University of Karachi, Department of Geography (First Division)	1995
	(Geography, Mathematics, Physics)	
Intermediate	Board of Intermediate Education, Karachi (First Division)	1992
	(Mathematics, Physics and Chemistry)	
Matriculation	Board of Secondary Education, Karachi (First Division)	1990

BS Courses

		BS 1 st Year	
1	301	Man's Physical Environment: Study of Climate and Oceans and	
		Vegetation	
2	302	Man's Physical Environment: Study of Landforms	
		BS 2 nd Year	
3	402	Man's Cultural Environment: Economic Activities	
4	455	Map Work and Field Surveying	
5	403	Man's Cultural Environment: World Regional Pattern	
6	402	Human Geography Paper 1	
7	403	Human Geography Paper 11	
		BS 3 rd Year	
8	512	Geography of Pakistan	
9	503	Geomorphology	
10	508	Climatology	
11	509	History and Development of Geographic Thoughts	
12	506	Cartography	
13	534	Map and Air Photo Analysis	
		BS 4 th Year	
14	699	Advanced Cartography	
15		Remote Sensing and GIS (Lab)	
16	633	Natural Hazard Management	

M Phil Courses

1	792	Introduction of Remote Sensing (Lab)
2	794	Advance Remote Sensing (Lab)
3	782	Foundation of Natural hazard and Disaster Studies
4	733	Applied Climatology
5		Spatial Analysis
6	701	Research Methodology

Publications, Conference Paper and Proceedings, Training Courses and Workshop and Awards, Honors and certificates

1.	Publications	25
1	Conference Paper and Proceedings	27
2	Training Courses and Workshop Attend	22
3	Awards, Honors and certificates	76

Dean Research Projects

As Principal Research Investigator	06
As Co-Principal Research Investigator	03
As Research Associate	07

Research Students

S No	Name of the Student	Year/Admission Date	Topic/Research Title	
01	Hina Masood	29.10.2018 Degree Awarded	Monitoring and mapping the current status of mangrove ecosystem along the coast of Sindh through Geo-informatics	Ph. D degree awarded
02	Fozia Shareef	24.4.2018 Degree Awarded	Monitoring spatio-temporal variations and seasonal behavior of atmospheric aerosols over Sindh, Pakistan is using Geoinformatics through MODIS satellite data	Ph. D degree awarded
03	Sumaiya Bano	22.9.2015 Degree Awarded	Monitoring the flora through Geo-informatics techniques: a case study of Karachi university campus	Ph. D degree awarded
04	Nasir Abbas	2015 submitted	Assessment Of The Exposure Of Vulnerable Communities From Various Environmental Hazards In Hunza-Nagar District Through RS and GIS Techniques	Ph. D degree awarded
5.	Muhammad Hussian	24-10-2012	Monitoring Change in Forest Cover of Hunza-Nagar District is using RS and GIS Techniques	MPhil Students (Synopsis Approved by BASR)
6.	Saba Zehra	03-03-2014	GIS Based Modeling for Flood Risk Assessment of Sindh Province	MPhil degree awarded
7	Ambreen Afzal	2016	Spatial Temporal Assessment of Solid Waste Management in Karachi Through Remote Sensing and GIS Techniques	Ph. D degree awarded
8	Erma Anwar	2017	GEOSPATIAL ASSESSMENT OF INFRASTRUCTURE FOR REDUCTION OF HEAT WAVE HAZARDS IN URBAN AREAS: A CASE STUDY OF KARACHI.	MPhil Students (Thesis submitted)
9	Sada Asadf	2017	Monitoring and Assessing of Coastal Hazard in Pakistan Coast Through Remote Sensing And GIS.	MPhil Students (Synopsis Approved by BASR)
10	Syed Bakar Mujeeb-ul- Hashmi	2017	IMPACTS OF CPEC ON SOCIO-ECONOMIC STRUCTURE:A CASE STUDY OF THE DISTRIC OF BALOCHISTAN PROVINCE ALONG THE CPEC HIGHWAY ROUTE	MPhil Students (Synopsis Approved by BASR)
11	Ms.Roofia Izhar	2017	Spatio- Temporal, Growth of Industries in Karachi, 1956-2016	Ph.D Students (Synopsis Approved by BASR)
12	Ms Aiman Shahani	2019	GIS Based Diversity Analysis of Guava (<i>Psidium guajava</i>) Growing Distribution in Larkana District	MPhil Students (Thesis submitted)
13	Mr.Asim Nawaz	2019	Appraisal the Impacts of Urban Evolution and Industrial Activities on Urban Heat Island in Faisalabad District, Pakistan, a GIS based Study.	MPhil Students (Thesis submitted)
14	Ms.Anum Saba	2018	"ASSESSING THE IMPACT OF URBAN GROWTH IN THE DEVELOPING OF URBAN HEAT ISLAND (UHI) AND MODELING THE POTENTIAL SUITABLE SITES FOR FUTURE URBAN EXPANSION: A CASE STUDY OF KARACHI"	MPhil Students (Thesis submitted)
15	Rahil Akhtar	2019	GIS-BASED APPROACH FOR OPTIMIZED SITING OF MUNICIPALSOLID WASTE LANDFILL IN A DISTRICT KORANGI	MPhil Students

16	Syed Shariq	2018	ECOLOGICAL ASSESMENT AND IDENFIY THE	MPhil Students
	Kamal		IMPACTS OF CLIMATIC CHANGE ON THE WETLAND	
			HABITATS OF LOWER SINDH, PAKISTAN THROUGH	
			SATELLITE REMOTE SENSING	
17	Toba Waqar	2021	Impact of Climate Change on Urban Environment in Karachi	MPhil Students (Synopsis submitted)
	-		year 1960-2021	
18	M Sibtain	2021	Geographical Analysis of Skardu City, Baltistan: An	MPhil Students(Synopsis Approved by BASR)
			Assessment of Urbanization and its Problems by using Geo	
			Informatics Techniques	
19	M Waseem	2021	Spatial Analysis of Ground Water Quality and its Suitability	MPhil Students(Synopsis Approved by BASR)
			for drinking of Taluka Khairpur Nathan Shah District Dadu,	
			Pakistan: Using GIS Techniques	
20.	Ms. Khushboo	2022	Appraisal the Impact of Urban Evolution and Change on	MPhil Students(Synopsis Approved by BASR)
	Naz		Land use and Land Cover in Abbottabad District, a	
			Geospatial Study	
21	Ms. Sajida	2022	An Assessment of Quality of Urban life in Lyari Town: A	MPhil Students(Synopsis Approved by BASR)
	-		Geospatial Approach	
22	Rehmat Ali	2022	Geographical Analysis of Baltoro Glacier, Karakoram-	MPhil Students(Synopsis Approved by BASR)
			Ba;tistan: An Assessment of Change in Glaacier cover and	
			Temporal Change By Using Geo Informatics Techniques	
23	M Bilal	2023	Impact of Communication activites in Polio Eradication and	MPhil Students(Synopsis submitted)
			Acceptance of Vaccination in High Risk Areas of Karachi "	
			A Geographical Perspective"	

Computer Courses

- Microsoft Window 95, Microsoft Word 97, Microsoft Excel 97, Microsoft Dos 6.22 form Unique Computer Institute, June-August, 1998, North Karachi, Karachi.
- 2. Introduction to GIS October 06-November 11, 2000 from Ease Tech, Tariq Road, Karachi. (A Grade)
- 3. MS Visual Basic and Arc View Avenue from Ease Tech, Tariq Road Karachi, April 09 to 25 June 2001.
- 4. "Remote Sensing and satlite image Image Processing" held from 6-5-2005 to 8-5-2005, NED,KCCEE
- 5. Training Course on "Advanced Geographic Information Science (GIS)" Jointly Conducted By SPARK & GIS Department of SSGC (September 21-26, 2013).
- 6. Training Course on "Satellite-based Application n Climate Channge" Conducted By Institute of Space Technology, NCRG, Karachi (December 1-4, 2014).
- 7. Seminar on "Endnote: The citation Management Software "Organized By Karachi University Teachers' Society (Feburary 26, 2015).

Language Course English Learning Course from Domino English Learning Centre, 12 Feb. to 10 May 2004. (A Grade)

Continuing Education

 Course conducted on "Introduction to GIS", to the M.A / M.Sc. Students of Department of Geography, University of Karachi, August 2003 to December 2003

- Course conducted on "Introduction to GIS", to the M.A / M.Sc. Students of Department of Geography, University of Karachi, August 2001 to December 2001
- Course conducted on "Remote Sensing and satellite image Processing" held from 6-5-2005 to 8-5-2005, NED,KCCEE.

Awards, Honours, Memberships	S
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AW	ARDS	
1	Award M. Phil degree letter from Registrar, University of Karachi	2002
2	M. Phil Qualification Allowance	2006
3	Award Ph.D degree letter from Registrar, University of Karachi	2012
4	Ph.D Qualification Allowance	2012
5	Letter of Appreciation , form Chairperson, Department of Geography, University of Karachi	2001
6	Certificate of Participation, Department of Geography, Urban and Regional Planning, University of Peshawar	1999
7	Prize for Poster/Slogan Competition on the theme of Our Environment, September6, 1996, Center of Excellence for Women's Studies University of Karachi	1996
8	Provisional and Character Certificate, GGSS, New Karachi.	
9	The Woman Guards, Certificate of Service, from National Guards	1992
10	Character Certificate, Dr. Khalida Mahmood, Professor, Department of	June
10	Geography, University of Karachi	1998
11	Certificate of Merit, Diamond Jubilee Celebration, Department of Geography, University of Karachi, from 5 th to 8 th November	2012
12	Certificate of Appreciation, Diamond Jubilee Celebration, Department of Geography, University of Karachi, from 5 th to 8 th November (1)	2012
13	Certificate awarded for Participation and Presentation, 14 th All Pakistan Geographical Conference, Department of Geography, University of Punjab, March 05-07-2013 (2)	2013
14	Certificate awarded , 14 th All Pakistan Geographical Conference, Department of Geography, University of Punjab, March 05-07-2013	2013
15.	Certificate of Appreciation and Recognition, Presenting the paper, First National Conference on Space Sciens (NCSS-2012), October 08-09,2012, World Space Week 2012, ISPA, UOK and Sir Syed University of Engineering and Technology.	2012
16.	Letter of Acceptance, 14 th All Pakistan Geographical Conference, Department of Geography, University of Punjab, March 05-07-2013	2013
17.	Certificate of Appreciation, 13 th All Pakistan Geographical Conference, Department of Geography, University of Karachi, December 21-23,2008.	2008
18.	Certificate of Participation, Workshop on "Landscape Ecology and Challenges of Global Environmental Changes", Department of Geography, University of Karachi from 20-22 Feb 2009.	

10	Certificate of Participation, International Workshop on, "Sustainable Water	2012
19.	Resource Management" jointly organized by Institute of Environmental Studies,	2012
	University of Karachi and University of Innsbruck, Austria (February 07, 2012) Certificate of Participation , The Scientific and Cultural Society of Pakistan, "9 th	
20.	Training Workshop on Wetland Conservation and Management-2012" held at	2012
20.	Department of Zoology, University of Karachi from February 14-18, 2012	2012
	Certificate of Participation, The Scientific and Cultural Society of Pakistan, "10 th	
21.	Training Workshop on Protected Areas of Pakistan-2012" held at Department of	2012
21.	Zoology, University of Karachi from June 21-27.	2012
	Certificate of Participation, Workshop on "How to Write A Winning Scientific	
22	Research Proposal?" held at L.E.J. National Science Information Center, on	2011
	September 24.	2011
	Certificate of Participation, Training Course on "Introduction to Statistical	
23	Analysis and Tools", held at Arts Faculty Computer Lab II, University of Karachi,	2011
	on October 17-19.	2011
24	Experience Certificate, World Bank Project	2013
	Microsoft Window 95, Microsoft Word 97, Microsoft Excel 97, Microsoft Dos 6.22 form	
25	Unique Computer Institute, June-August, 1998, North Karachi, Karachi.	1998
26	English Learning Course from Domino English Learning Centre, 12 Feb. to 10 May	2004
20	2004. (A Grade)	2004
27	Introduction to GIS October 06-November 11, 2000 from Ease Tech, Tariq Road, Karachi.	2000
21	(A Grade)	2000
28	MS Visual Basic and Arc View Avenue from Ease Tech, Tariq Road Karachi, April 09 to	2001
	25 June 2001. Remote Sensing and satellite image Processing" held from 6-5-2005 to 8-5-2005, NED,	
29	KCCEE.	2005
30	Shield, 2 nd Pakistan Urban forum; South Asian Cities Conference, January 09-12,	2014
	2014 Organized by Planning and Development Department, Government of Sindh.	
	Certificate of Participation, Second National Conference on Space Science	
31	(NCSS-2013), October 07-08, 2013 organized by Institute of Space and Planetary	2013
	Astrophysics (ISPA), University of Karachi.	
22	Certificate of Appreciation and Recognition, Second National Conference on	2012
32	Space Science (NCSS-2013), October 07-08, 2013 organized by Institute of Space	2013
	and Planetary Astrophysics (ISPA), University of Karachi.	
	Certificate of Participation , Second International Conference on Environmental	
33	Horizon "Greening the Blue" (ICEH-2014), January 01-03, 2014 Jointly Organized by Department of Chemistry and International Center For Chemical and Biological	2014
	Sciences, University of Karachi	
	Certificate of Oral Participation, Second International Conference on	
34	Environmental Horizon "Greening the Blue" (ICEH-2014), January 01-03, 2014	
	Jointly Organized by Department of Chemistry and International Center For	2014
	Chemical and Biological Sciences, University of Karachi	
	Certificate of Participation, One Day Seminar on PLAGIARISM AND	
35	ACADEMIC INTEGRITY, Organized By Karachi University Teachers' Society,	2014
55	February 12, 2014.	2011
1		

36	Certificate, "Filling of Income Tax Returns" Conducted By Sardar Yasin Malik Professional Development Facilities, from 17 and 18 September, 2013.	2013
	Certificate , " HR as a Change " Conducted By Sardar Yasin Malik Professional	
37	Development Facilities, from 02 to 06 September, 2013.	2013
	Certificate of Participation, Training Course on "Advanced Geographic	
38	Information Science (GIS) " Jointly Conducted By SPARK & GIS Department of	2013
50	SSGC (September 21-26, 2013).	2013
	Certificate of Participation, Seminar on "Plant Biodiversity Conservation and	
39	Sustainable Use of Plant Wealth of Pakistan" organized by Centre of Plant	2013
0,	Conservation, University of Karachi (June 27-28, 2013)	_010
	Certificate, Training Course on "Satellite-based Application n Climate Change"	
40	Conducted By Institute of Space Technology, NCRG, Karachi (December 1-4,	2014
-10	2014).	2014
	Certificate of Participation, Seminar on " Endnote: The citation Management	
4.1	Software "Organized By Karachi University Teachers' Society (February 26,	2015
41	2015).	2015
	Certificate of Participation, Workshop on, "Data Analysis Using SPSS-18"	
42	organized by Sardar Yasin Malik Professional Development Facilities, University	2014
	of Karachi, (March 22-22, 2014)	
	Certificate of Participation, Workshop on, "Planning, Execution and Successful	
43	Accomplishment of Research Degrees" organized by Dr. A.Q. Institute of	2014
	Biotechnology & Genetic Engineering (KIBGE), University of Karachi, (April 24-	
	26, 2014) Cartificate of Participation Workshop on "How to Write Crowt Proposal in	
11	Certificate of Participation, Workshop on, "How to Write Grant Proposal in	2014
44	Social Sciences? " held at Arts Auditorium organized by Dean, Faculty of Arts,	2014
45	University of Karachi, (September 15, 2014) Certificate of Appreciation, Vice President of the K-GIS Society, 2013-14	2014
43	Certificate of Participation , Third International Conference on Environmental	2014
	Horizon "Nurture Nature: Serve to Conserve;" (ICEH-2015), January 09-11, 2015	
46	Jointly Organized by Department of Chemistry and International Center For	2015
	Chemical and Biological Sciences, University of Karachi.	
	Certificate of Participation, Workshop on, "Self Assessment	
47	Programme/Report " held at Arts Auditorium organized by Dean, Faculty of Arts,	2014
/	University of Karachi, (September 16-17, 2014)	2014
48	Certificate of Professional Membership of the K-GIS Society, 2013-14	2014
	Certificate of Appreciation, Resource Person GIS Day of the K-GIS Society,	
49	2013-14	2014
	Certificate of Participation as a Session Moderator, First South Asian Regional	
50	SURE conference 2017 held January 18-19, 2017 organized by Society for Urban	2017
	Ecology.	
	Certificate of Appreciation as Organizing Team Member of the First South Asian	
51	Regional SURE conference 2017 held at department of Geography, University of	2017
a.	Karachi, Karachi Pakistan1 from January 18-19, 2017.	2017

	Certificate of Participation, the First South Asian Regional SURE conference	
51 b.	2017 held at department of Geography, University of Karachi, Karachi Pakistan1 from January 18-19, 2017 .	2017
52	Certificate of Recognition for Organized the events of Students' Week from Department of Geography, University of Karachi held September 2016 and 2017.	2016 &2017
53	Certificate of Recognition for Organized the Independence Day Event from Department of Geography, University of Karachi held on August 2016 and 2017.	2016&2 017
54	Certificate of Recognition for Organized the events of Students' Week from Department of Geography, University of Karachi held September 2015.	2015
55	Certificate of Recognition for Organized the Independence Day Event from Department of Geography, University of Karachi held on August 2015.	2015
56	Certificate of Recognition for One Day Eve Workshop on First Aid Emergency Preparedness and Scouting Department of Geography, University of Karachi in collaboration with Sindh Boy Scouts Association on 9 th September, 2015.	2015
57	Certificate of Appreciation, One Day Seminar on "Management of Irrigation and Agriculture System Using Geospatial Techniques, organized by: IST, 15 th April, 2015.	2015
58	Certificate of Participation, One Day Seminar on "Herbarium Techniques, organized by: the Center for Plant Conservation, University of Karachi, 23 rd November, 2015.	2015
59	Certificate of Participation, First International Conference on life Sciences, "Emerging Trends in Biological sciences and Genomics", organized by M. A. Qadri Biological Research Center & KIBGE, University of Karachi, December 28-30, 2015.	2015
60	Certificate of Participation, Third National Conference on Space Science (NCSS-2015), October 05-06, 2015 organized by Institute of Space and Planetary Astrophysics (ISPA), University of Karachi.	2015
61.	Certificate of Participation, Workshop on Awareness in Scientific Writing, organized by Department of Mathematics, University of Karachi, 24 th February, 2016.	2016
62	Certificate of Participation, Seminar on Earth Day, organized by Department of Geography, University of Karachi, 21 st and 22 nd April, 2016.	2016

63	Certificate of Appreciation as a organizing team member, Seminar on Earth Day, organized by Department of Geography, University of Karachi, 21 st and 22 nd April, 2016.	2016
64	Certificate of Appreciation as a Speaker, Seminar on Earth Day, organized by Department of Geography, University of Karachi, 21 st and 22 nd April, 2016.	2016
65	Certificate of Appreciation as a organizing, Map Design Competition organized by Department of Geography, University of Karachi, 2016.	2016
66	Certificate of Participation, 4 th National Conference on Space Science (NCSS-2016), October 7-8-9, 2016 organized by Institute of Space and Planetary Astrophysics (ISPA), University of Karachi.	2016
67	Certificate of Appreciation and Recognition for presenting the paper, 4 th National Conference on Space Science (NCSS-2016), October 7-8-9, 2016 organized by Institute of Space and Planetary Astrophysics (ISPA), University of Karachi	2016
68	Certificate of Participation, 4 th National Conference on Space Science (NCSS-2016), October 7-8-9, 2016 organized by Institute of Space and Planetary Astrophysics (ISPA), University of Karachi.	2016
69	Participated in the Course on, "Environmental Disaster Management ", 21-22 December, 2017 organized by Sardar Yasin Malik Professional Development Facilities, University of Karachi, (March 22-22, 2014)	2017
70	Certificate of Appreciation, Speaker and Organizer, GIS Day Seminar of the K-GIS Society, Department of Geography, University of Karachi, 19 th November, 2017.	2017
71	Certificate of Participation, Thee Day International conference on Global Environmental change and the Role of Geographers at Baragali Summer Campus, , Department of Geography, University of Peshawar and Gujrat, 6 th July, 25-27, 2017.	2017
72	Certificate of Participation, GIS Day Seminar of the K-GIS Society, Department of Geography, University of Karachi, 6 th December, 2018.	2018
73	Certificate of Participation, as a organizer, 15 th All Pakistan Geographical Conference, Department of Geography, University of Karachi, April 21-23,2018	2018
74	Certificate of Appreciation, Organizer, Fresher's and Farewell Party, Department of Geography, University of Karachi, 28 th March 2018.	2018
75	Certificate of Appreciation, Organizer, Fresher's and Farewell Party, Department of Geography, University of Karachi, 28 th March 2018.	2018
76	Certificate of Appreciation, Road Safety Awareness walk and Seminar, Department of Geography, University of Karachi in Collaboration with National High and Motorway Police (N-5, South Zone), 20 th March 2018.	2018

PASS LIST OF PHD. YEAR 2012

HONOURS	
First Female and Youngest M. Phil at the Department of Geography, University of Karachi.	2001
Congratulation Letter from KUTS	2005-06

Membership(s) and office(s) held in committee, Boards and Professional Organization:

1	Professional Membership of the K-GIS Society, 2013-14	2014
2	Member, International Association for Landscape Ecology, UK	April 2004
3	Student Member Pakistan Geographical Association (PGA), Pakistan	1999
4.	Member Board of Faculty Department of Geography, University of Karachi	
5	Member National Curriculum Pavision Committee of Pemote Sensing and GIS	1

- 5. Member National Curriculum Revision Committee of Remote Sensing and GIS
- 6. Member SURE

Attended HEC NCRC Meetings 2016-2017:

- Attended Meeting of National Curriculum Revision Committee of Remote Sensing and GIS held 17-19 April 2017at HEC Regional Centre Lahore.
- Attended Meeting of National Curriculum Revision Committee of Remote Sensing and GIS held 3-5th December 2016 at NED University of Engineering and Technology, Karachi.

Employment Record/Experience

(1). Name of Post: Department: Date: Description of Work:	Assistant Professor (BPS-19) Department of Geography, University of Karachi 14, September, 2006 to date Graduate and postgraduate (BS/MS) M. Phil/ PhD Teaching and Research		
In Charge of Remote Sensing Lab		14, May, 2013 to 1 January 2014	
In Charge of GIS Lab		1 January 2014 14, to date	
Member of Organizing C	Committee	Diamond Jubilee Celebration, Department of Geography, University of Karachi, from 5 th to 8 th November	
Students' Advisor		16 January, 2015 to November 2018	

(2). Name of Post: Department: Date: Description of Work: Courses Taught:

Full time Co-operative Teacher (@Rs. 6210/- P.M. fixed) Department of Geography, University of Karachi January 1, 1998 to 13,September, 2006 Graduate and postgraduate Teaching and Research

B.	A/ B.Sc (Hons)	M. A/M.Sc		
1 st year	2 nd year	3 rd year	Previous	Final
Geog 301: Man's	Geog 402: Man's culture	Geog 534	: Map and Air	Geog 609: Remote
Physical Environment:	Environment: Economic	photo anal	ysis	Sensing (lab)
Climate and Oceans	Activities		-	_
Geog: 302: Man's	Geog 455: Map Work	Geog 532:	Cartography	Geog 661: Field
Physical Environment:	and Surveying			Techniques
Study of Landforms				_
	Geog 403: World			Geog 662: Field Study
	Regional Pattern			(Research Projects)

- 7. Course conducted on "Introduction to GIS", to the M.A / M.Sc. Students of Department of Geography, University of Karachi, August 2003 to December 2003
- 8. Course conducted on "Introduction to GIS", to the M.A / M.Sc. Students of Department of Geography, University of Karachi, August 2001 to December 2001
- 9. Final Year Mathematical Map Projections
- 10. Final Year Special course of Introduction to GIS (Arc View Version 3.1)
- 11. Final Year Special course of Introduction to GIS (Map Info Version 7) and AutoCAD Map 2000

(3).	
Name of Post:	School Teacher @ Rs.600/- per Lecture
Department:	Children Paradise School, North Karachi, Karachi.
Date:	May, 1997 to December, 1997
Description of Work:	Teaching (Physics, Maths and Chemistry)

- Worked as Organizer in First South Asian SURE Conference January 16-22, 2017.
- Participated as expert on the National Curriculum Revision Committee of GIS/RS under the supervision of Higher Education Commission 5-6 December 2016 at NED University Karachi.
- Worked as Organizer in Universities for water network Meeting 4 held at 21st April 2016 held at Dean of Science Council Room, University of Karachi.
- Worked as a member in **Diamond Jubilee Celebration** in 2012.
- Member of **Board of Faculty of Arts** January 2015.
- Member of **Board of Studies** since January 2017.

• Worked as a member of **the Organizing Committee** in 13th All Pakistan Geographical Conference in 2008.

S. #	Title of Paper	Name of Journals	Impact Factor (hec./BASR Rec.)	Date of Publication Pages/Year of Publication
1	Burke F., Afsar S. , Cause and Effect Relationship between Quality of Life and Resources: Case Study of Selected Towns in Karachi (A Remote Sensing and GIS Perspective)	Journal of Basic and Applied Sciences	Y	Vol. 1, No. 2, pp. 65-70,2005
2	Burke F., Afsar S., Application of Remote Sensing and GIS Techniques in the Assessment of Quality of Life in an Urban Environment: A Case Study of Karachi District Central	Journal Geographic	BASR Rec	Vol 4, No. 2, pp. 9-23,June 2003
3	Afsar, S., Abbas, N. and Jan, B., Comparative Study of Temperature and Rainfall Fluctuation in Hunza-Nagar District	Journal of Basic & Applied Sciences	Y	Vol 9, pp.151-156. 2013
4	Afsar, S. , Kazmi S J. H., and Bano S., Quest of Urban Growth Monitoring from Myth to Reality	Journal of Basic & Applied Sciences,	Y	2013, 9, 222-230.
5	Afsar, S., Bano S,and Kazmi S J. H., Monitoring the Spatial Distribution of the Selected Birds Species in Wetlands of Sindh (A Framework of Remote Sensing-and GIS)	International. Journal of. Biology and . Biotechnology	ISI Index(Z)	10 (1): 07-20, 2013.
6	Afsar, S., and Bano S, Mapping the Endangered/Key Species of Hazarganji-Chiltan National Park through Geo- Spatial Technology.	International. Journal of. Biology and . Biotechnology	ISI Index(Z)	10 (2): 233-239, 2013.
7	Afsar, S, Masood H.and Bano S,, Monitoring of the Shoreline Change and its impact on Mangroves using	International. Journal of. Biology and . Biotechnology.	ISI Index(Z)	10 (2): 241-250, 2013.

List of publications year wise, with separate

	1		1	
	Remote Sensing and GIS: A			
	Case Study of Karachi Coast,			
	Pakistan			
8	Afsar, S., Ali S S., and Kazmi	Journal of Basic &	Y	2013, 9,373 -388
	S J. H., Assessing the Quality	Applied Sciences		
	of Life in Karachi City			
	through the Integration of			
	Space and Spatial			
	Technologies			
9	Ghazal L, Kazmi S J. H., and	Journal of Basic &	Y	2013, 9, 352-360
	Afsar, S., Spatial Apprasial of	Applied Sciences		
	the Impact of Drought on			
	Agricultural Patterns in			
	Karachi			
10	Ali S S., and Afsar,	Journal of Basic &	Y	2013, 9,361 -367
	S.,Seasonal Variations in	Applied Sciences,		
	Wave Energy and the			
	Changing Beach			
	Characteristics: A Case Study			
	of Beaches of Karachi			
11	Atif, R., Mehdi, M. R. and	Journal of Basic &	Y	2013, 9, 592-604.
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19	Nasir Abbas , c , Bulbul Jan , Abdul Hameed , Syed Ali Asad Naqvi , Shahid Karim , Muhammad Nasar u Minallah , Zawwar Hussain ENVIRONMENTAL DISASTER ASSESSMENT USING GEOSPATIAL TECHNIQUES FOR HUNZA-NAGAR DISTRICT, GILGIT- BALTISTAN, PAKISTAN	Science .International.(Lahore),	IF	28(5),4557-4566, 2016
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24	A Sabah, S Afsar - , <u>Assessing</u> <u>spatio-temporal</u> <u>changes of soil</u> <u>moisture: a case</u> <u>study at</u> <u>Karachi,</u> <u>Pakistan</u>	Arabian Journal of Geosciences, 2020 - Springer https://link.springer.com/article/10.1007/s 12517-020-06247-0#article-info	Impa ct Facto r	Received: 24 October 2019 /Accepted: 13 November 2020 # Saudi Society for Geosciences 2021
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29	Ambreen Afzal ^{1*} , Sheeba Afsar ¹ , Altaf Hussain Lahori, ² Anila Kausar ¹ Assessment of Spatial Distribution of Waste Bins in Karachi Through GIS Techniques	Int. J. Econ. Environ. Geol. Vol. 12 (1) 09-13, 2021 International Journal of Economic and Environmental Geology, 12(1), 9–13. https://doi.org/10.46660/ijeeg.v ol12.iss1.2021.551	: HEC Y- Cate gory	International Year: 2021
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List of Accepted Research Publication

1) Afsar, S., Abbas, N. and Jan, B., Geospatial Analysis of Environmental Disaster and ClimaticChangein Hunza-Nagar District, Gilgit-Baltistan Province, Pakistan

List of Research Publication (in pipeline)

- 1) Afsar, S., Bano S, Assessment of Floods Impact on Agricultural Crops Using Remote Sensing and GIS in Sindh Province, Pakistan, (In Pipeline).
- 2) Afsar, S., Kazmi S J. H., and Bano S, The role of Woman in Quality of life in Karachi, Pakistan Journal of Gender Studies (In pipeline)
- 3) Afsar, S., Kazmi S J. H., and Khanum, F., Application of Remote Sensing and GIS for Urban Growth Monitoring A Case Study of Major cities of Pakistan, (In Pipeline)
- 4) Kazmi, J H., **Afsar, S**., Ghazal L., Shaikh, S., Zubair S. and Anis, Y., Assessing the Transition of the Malir Valley of Karachi through Satellite Imageries: Raising as Pursuit of Conservation (**In Pipeline**)

Conference Paper and Proceedings

- Sharif, F, Afsar, S. and Alam K, Validation of MODIS, MISR and OMI AOD satellite data with AERONET AOD Ground based datasets and Investigation of Aerosol Optical Depth over Atmospheric Tropopause Height, 4th National Conference on Space Science and Technology(NCSST- 2016), October 7-9, 2016

ISPA, University of Karachi.

- 2) Abbas, N and Afsar, Measuring the Disaster Risk using Geospatial Techniques: A case Study of Nagar and Hunza Villages Province Gilgit-Baltistan Pakistan, 4th National Conference on Space Science and Technology(NCSST- 2016), October 7-9, 2016 ISPA, University of Karachi.
- 3) Zehra, S., and Afsar ', S. Application of GIS & RS for Selecting Municipal Solid Waste Disposal Site in Jacobabad City, 1ST NATIONAL CONFERENCE ON ENVIRONMENTAL ENGINEERING & MANAGEMENT, 13-14th April 2016, MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY JAMSHORO, 76062 SINDH, PAKISTAN INSTITUTE OF ENVIRONMENTAL ENGINEERING & MANAGEMENT
- 4) Afsar S. and Bano, S (2016), Monitoring the Wild Plant Diversity through Geo-Informatics: A Case Study of Metroville Colony, Gulshan-E-Iqbal Town, Presented at Fourth International Conference on Environmental Horizon (ICEH-2016), January 08-10, 2016 Jointly Organized by Department of Chemistry and International Center For Chemical and Biological Sciences, Department of . Zoology University of Karachi.
- 5) Afsar S. and Bano, S (2016), Heat Stroke Vulnerability Mapping: A case Metropolis of Karachi, Presented at Fourth International Conference on Environmental Horizon (ICEH-2016), January 08-10, 2016 Jointly Organized by Department of Chemistry and International Center For Chemical and Biological Sciences, Department of . Zoology University of Karachi.
- 6) Bano, S. and Afsar S. (2015), Monitoring the Threatened Plant Species Through Geo-Informatics Within Karachi University Campus, Presented at Third International Conference on Environmental Horizon "Nurture Nature: Serve to Conserve;" (ICEH-2015), January 09-11, 2015 Jointly Organized by Department of Chemistry and International Center For Chemical and Biological Sciences, University of Karachi.
- 7) Sharif, F., Afsar, S., Alam, K. and Bano, S. (2015), Impacts of Aerosol Optical Depth on Vegetation Cover over Sindh using MODIS Terra Satellite Data, Presented at Third International Conference on Environmental Horizon "Nurture Nature: Serve to Conserve;" (ICEH-2015), January 09-11, 2015 Jointly Organized by Department of Chemistry and International Center For Chemical and Biological Sciences, University of Karachi.
- 8) Kazmi, J H., Afsar, S., Ghazal L., Shaikh, S., Zubair S. and Anis, Y., Assessing the Transition of the Malir Valley of Karachi through Satellite Imageries: Raising as Pursuit of Conservation Presented at Third International Conference on Environmental Horizon " Nurture Nature: Serve to Conserve;" (ICEH-2015), January 09-11, 2015 Jointly Organized by Department of Chemistry and International Center For Chemical and Biological Sciences, University of Karachi.

- 9) S., Zubair Kazmi, J H., Shaikh, S. Afsar, S., Ghazal L., and Anis, Y., Presented at Third International Conference on Environmental Horizon "Nurture Nature: Serve to Conserve;" (ICEH-2015), January 09-11, 2015 Jointly Organized by Department of Chemistry and International Center For Chemical and Biological Sciences, University of Karachi.
- 10) Zahra, S. and Afsar, S, Risk Assessment and Predictive Modeling of Floods using GIS & Regression Analysis: A case of Sindh Province Presented at Third International Conference on Environmental Horizon "Nurture Nature: Serve to Conserve;" (ICEH-2015), January 09-11, 2015 Jointly Organized by Department of Chemistry and International Center For Chemical and Biological Sciences, University of Karachi.
- 11) Masood, H., Afsar, S., Zamir, U B., Application of Comparative Remote Sensing techniques for Monitoring Mangroves in Indus Delta, Sindh, Pakistan Presented at Third International Conference on Environmental Horizon "Nurture Nature: Serve to Conserve;" (ICEH-2015), January 09-11, 2015 Jointly Organized by Department of Chemistry and International Center For Chemical and Biological Sciences, University of Karachi.
- 12) Abbas, N and Afsar, S Geospatial Analysis of Environmental Disaster and Climatic Change in Hunza-Nagar District, Gilgit-Baltistan Province, Pakistan Presented at Third International Conference on Environmental Horizon "Nurture Nature: Serve to Conserve;" (ICEH-2015), January 09-11, 2015 Jointly Organized by Department of Chemistry and International Center For Chemical and Biological Sciences, University of Karachi.
- 13) Hussain, M. and Afsar, S Forest Monitoring and Environmental Change through Remote Sensing and GIS:A case study of Nagar-II Tehsil, Gilgit-Baltistan, PakistanPresented at Third International Conference on Environmental Horizon "Nurture Nature: Serve to Conserve;" (ICEH-2015), January 09-11, 2015 Jointly Organized by Department of Chemistry and International Center For Chemical and Biological Sciences, University of Karachi.
- 14) Afsar S. and Kazmi, S.J.H. (2014), Appraisal of Urbanization and Quality of Life in an Urban Environment through the Integration of Space and Spatial Technologies, A Case Study of Karachi, Pakistan, Presented at 2nd Pakistan Urban forum; South Asian Cities Conference, January 09-12, 2014 Organized by Planning and Development Department, Government of Sindh.
- 15) Afsar S. and Kazmi, S.J.H. (2014), Appraisal of Urbanization and Quality of Life in an Urban Environment through Remote Sensing and Gis:A Case Study of Karachi, Presented at Second International Conference on Environmental Horizon "Greening the Blue" (ICEH-2014), January 01-03, 2014 Jointly Organized by Department of Chemistry and International Center For Chemical and Biological Sciences, University of Karachi.
- 16) Afsar S., Kazmi, J.H. and Bano, S. (2013), Assessment of Quality of Life in Karachi City Through The Integration of Space and Spatial Technologies, Presented at Second National Conference on Space Science (NCSS-2013), October 07-08, 2013 organized by Institute of Space and Planetary Astrophysics (ISPA), University of Karachi.

- 17) Sharif, F., Afsar, S., and Masood. H., , Spatio-temporal and Seasonal Analysis of aerosol and cloud properties over Sindh using MODIS, Second National Conference on Space Science (NCSS-2013), October 07-08, 2013 organized by Institute of Space and Planetary Astrophysics (ISPA), University of Karachi.
- 18) Afsar, S. and Bano, S. (2013), Study of Plant Species through Geo-Informatics within Karachi University, Research Poster Presented at Second National Conference on Space Science (NCSS-2013), October 07-08, 2013 organized by Institute of Space and Planetary Astrophysics (ISPA), University of Karachi.
- 19) **Bano, S**. and Afsar S. (2014), Monitoring the Medicinal and Woodland Plant Species Through Geo-Informatics Within Karachi University Campus, Presented at Second International Conference on Environmental Horizon "Greening the Blue" (ICEH-2014), January 01-03, 2014 Jointly Organized by Department of Chemstry and International Center For Chemical and Biological Sciences, University of Karachi.
- 20) Zahra, S. and Afsar, S, Geospatial Based Runoff Calculation of UrbanizednWatershed: A Case study Of Karachi City, Second International Conference on Environmental Horizon "Greening the Blue" (ICEH-2014), January 01-03, 2014 Jointly Organized by Department of Chemistry and International Center For Chemical and Biological Sciences, University of Karachi
- 21) Afsar S., Kazmi, J.H. and Bano, S. (2013), Monitoring the Impact of Land Use Changes on Land Surface Temperature in Karachi Through LANDSAT Data, Presented at 14th All Pakistan Geographical Conference, March 05-07, 2013 held at Department of Geography, University of Punjab, Lahore.
- 22) Bano, S., Sarwar, F. and Afsar, S. (2013), Development of Spatial E-flora of Karachi University Botanic Garden Through Geo-Spatial Technologies, Presented at 14th All Pakistan Geographical Conference, March 05-07, 2013 held at Department of Geography, University of Punjab, Lahore.
- 23) Afsar, S., Kazmi S J. H., and Khanum, F., Application of Remote Sensing and GIS for Urban Growth Monitoring A Case Study of Major cities of Pakistan, First National Conference on Space Science (NCSS-2012), October 08-09,2012, World Space Week 2012, ISPA, UOK and Sir Syed University of Engineering and Technology.
- 24) Afsar S., (2008), Appraisal of Urbanization and Quality of Life Through Geoinformatics: A Case StudY of Karachi Presented at 13th All Pakistan Geographical Conference, December 21-23, 2008 held at Department of Geography, University of Karachi.
- 25) Burke F., and Afsar S., (2003), Application of Remote Sensing and GIS Techniques in the Assessment of Quality of Life in an Urban Environment, 11th All Pakistan Geographical Conference under the auspices of Pakistan Geographical Association, Department of Geography University of the Punjab, Lahore, December 21 - 24, 2003.

- 26) Afsar S., (2001), Monitoring Urban and Change Detection: A Study of Karachi City using Merged LANDSAT TM and SPOT Data Sets, *Proceedings of the 3rd PSGIS International Conference on Geographic Information Technology for Environmental and Rural Development*, Jointly organized by Anjuman Ikhwan-e-Islam, Hamza Foundation, Pakistan Society of Geographic Information System, IsoCaRP Netherlands, PDRC Sakano Lab. Japan, AITAA Pakistan, Morishita Lab. DIPS- AICHI University Japan and ICLC-Tokyo Japan, at Barki District Lahore, Pakistan, March 26-28,
- 27) Afsar S., (1999), Impact of Sand and Gravel Excavation on Ground Water Resources of Malir Valley". Presented at 10th All Pakistan Geographical Conference, August 21-25, held at Bara Gali Summer Campus of University of Peshawar.

Training Courses and Workshop Attend

- 1. Participated in the Workshop on, **"Data Analysis Using SPSS-18"** organized by Sardar Yasin Malik Professional Development Facilities, University of Karachi, (March 22-22, 2014)
- 2. Participated in the Workshop on, "Planning, Execution and Successful Accomplishment of Research Degrees" organized by Dr. A.Q. Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, (April 24-26, 2014)
- 3. Participated in the Workshop on, **"How to Write Grant Proposal in Social Sciences?"** held at Arts Auditorium organized by Dean, Faculty of Arts, University of Karachi, (September 15, 2014)
- The Scientific and Cultural Society of Pakistan, "10th Training Workshop on Protected Areas of Pakistan-2012" held at Department of Zoology, University of Karachi from June 21-27, 2012
- The Scientific and Cultural Society of Pakistan, "9th Training Workshop on Wetland Conservation and Management-2012" held at Department of Zoology, University of Karachi from February 14-18, 2012
- 6. **Training Course** on **"Introduction to Statistical Analysis and Tools"**, held at Arts Faculty Computer Lab II, University of Karachi, on October 17-19, 2011.
- 7. Workshop on "How to Write A Winning Scientific Research Proposal?" held at L.E.J. National Science Information Center, on September 24, 2011.
- 8. Workshop on "Landscape Ecology and Challenges of Global Environmental Changes", Department of Geography, University of Karachi from 20-22 Feb 2009.
- Participated in the International Workshop on, "Sustainable Water Resource Management" jointly organized by Institute of Environmental Studies, University of Karachi and University of Innsbruck, Austria (February 07, 2012)

- 10. Participated in the One Day Seminar on **PLAGIARISM AND ACADEMIC INTEGRITY**, Organized By Karachi University Teachers' Society, February 12, 2014.
- 11. Participated in the, **"Filling of Income Tax Returns"** Conducted By SardarYasin Malik ProfessionalDevelopment Facilities, from 17 and 18 september, 2013.
- 12. Participated in the, **"HR as a Change"** Conducted By SardarYasin Malik ProfessionalDevelopment Facilities, from 02 to 06 september, 2013.
- 13. Training Course on "Advanced Geographic Information Science (GIS)" Jointly Conducted By SPARK & GIS Department of SSGC (September 21-26, 2013).
- 14. Participated in the Seminar on, "Plant Biodiversity Conservation and Sustainable Use of Plant Wealth of Pakistan" organized by Centre of Plant Conservation, University of Karachi (June 27-28, 2013)
- 15. Participated in the Seminar on "Endnote: The citation Management Software "Organized By Karachi University Teachers' Society (February 26, 2015).
- Participated in the, Workshop on, "Self Assessment Program/Report" held at Arts Auditorium organized by Dean, Faculty of Arts, University of Karachi, (September 16-17, 2014)
- 17. Training Course on "**Satellite-based Application and Climate Change**" Conducted By Institute of Space Technology, NCRG, Karachi (December 1-4, 2014).
- Participated in the Microsoft Window 95, Microsoft Word 97, Microsoft Excel 97, Microsoft Dos 6.22 form Unique Computer Institute, June-August, 1998, North Karachi, Karachi.
- Participated in the English Learning Course from Domino English Learning Centre, 12 Feb. to 10 May 2004. (A Grade)
- 20. Participated in Course "**the Introduction to GIS**" October 06-November 11, 2000 from Ease Tech, Tariq Road, Karachi. (**A Grade**)
- 21. Participated in the Course **"MS Visual Basic and Arc View Avenue"** from Ease Tech, Tariq Road Karachi, April 09 to 25 June 2001
- 22. Participated in the Course "**Remote Sensing and Satellite Image Processing**" held from 6-5-2005 to 8-5-2005, NED, KCCEE.

Dean Research Projects

As Principal Research Investigator

Current Project

1) Spatial Analysis of the Effect of the Heat Wave on Stroke Mortality in Karachi, Pakistan , *a Project sponsored by the Dean, Faculty of Science, University of Karachi, for 2018-2019*

As Principal Research Investigator

- 2) Cartographic Exploration of Ecological Triggers of Asthema Emergence in Karachi: a GIS Framework, a Project sponsored by the Dean, Faculty of Science, University of Karachi, for 2007-2008.
- 3) Appraisal of Urbanization and Standard of Living: A Case Study of Karachi (A GIS Framework), a Project sponsored by the Dean, Faculty of Science, University of Karachi, for 2009-2010.
- 4) Monitoring *the Impact of Land use Changes in Land Surface Temperature in Karachi*, a Project sponsored by the Dean, Faculty of Science, University of Karachi, for 2010-2011.
- 5) Monitoring the Wild Plant Diversity through Geo-Informatics: A Case Study of Metroville Colony, Gulshane-Iqbal Town, a Project sponsored by the Dean, Faculty of Science, University of Karachi, for 2014-2015.
- 6) The Role of Mangroves and Sand Dunes in the Mitigation of Coastal Hazards: A Case Study of Sindh Coast

As Co-Principal Research Investigator

- 1. "Application of Remote Sensing and GIS Techniques in the Assessment of Quality of Life in an Urban Environment: A Case Study of Karachi District Central" (Based on GIS Techniques, Ground Truthing and Data Collection. A project sponsored by the Dean, Faculty of Science, University of Karachi, for 2002-2003.
- 2. "Cause and Effect Relationship between Quality of Life and Resources: Case Study of Selected Towns in Karachi. (A Remote Sensing and GIS Perspective)" Dean Faculty of Science University of Karachi, for 2003-2004.
- "Assessment of Quality of Life and Cause and Effect Relationship with Facilities and Resources: A Case Study of Selected Town in Karachi (A Remote Sensing and GIS Perspective)". Dean Faculty of Science University of Karachi, for 2004-2005.

As Research Associate

- 4. "Spatial Dimensions of Recreation Facilities in Karachi-A Geographical Analysis of Parks and Playgrounds in Federal 'B' Area (Mansoora)". A project sponsored by the Dean, Faculty of Science, University of Karachi, for 2001-2002.
- 5. "Local Bodies Elections in Karachi: A Study of Spatio-Temporal Relationship of Voting Behaviour. A Project Sponsored by Dean, Faculty of Science University of Karachi, for 2001-2002.
- 6. "A Geographical Evaluation of Patterns of Development: A Study of the Districts of Sindh Province". A project sponsored by the Dean, Faculty of Science, University of Karachi, for 2002-2003.
- 7. "A Geographical Manifestation of Land Use Transition: A Case Study of Tariq Road" A research Project granted by Dean Faculty of Science, University of Karachi, in 2002-2003.
- 8. "Contribution of Inter District Migration towards Urban Growth: A Case S of Pakistan". Dean Faculty of Science, University of Karachi, for 2003-2004.

- 9. "Societal Attitude Towards Tobacco Smoking in a Cosmopolitan City of the Developing World". Dean Faculty of Science University of Karachi, for 2003-2004.
- 10. "Potential for Development in Balochistan: A Geographical Analysis". Dean Faculty of Science University of Karachi, for 2004-2005.