

**Government College University Lahore**  
**Annual Report**  
**(2012-2013)**



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Education and democracy have symbiotic relationship and an ideal democracy can only be sown in the third world polity through the promotion of high quality education among all tiers of society. This is a knowledge-driven world and the divide between the rich and the poor countries today is simply a knowledge divide. Only those countries that have invested in education have progressed rapidly. The ongoing economic crunch is affecting the budgets of all public-sector universities including GCU. Every year thousands of high talented students in Pakistan left their education due to financial hardships. However, keeping in this view, we besides not increasing the fee for the last two years had also started giving scholarships to the GCU deserving students from the university's own budget and Endowment Fund Trust. GCU would continue with its financial aid and scholarships programmes for its financially-challenged students.

GCU is a unique seat of higher learning where students hailing from divergent ethnic, sectarian and cultural backgrounds have always studied together in the most congenial atmosphere and groomed as the finest individuals known for their spirit of inquiry, tolerance and an enviable sense of sacrifice. GCU's invaluable contribution in the realm of science, art and literature has been unrivaled. The cultural milieu of this historical institution has inspired many a literary notable to explore their innate gift.

The academic calendar of GCU ensures widespread participation of its students in creative and extra-curricular activities which are essential for their character-building. Education which fails to build the character of youth and groom them into civilized segment of society is useless. GCU

academic calendar is designed with the single purpose of balancing out academic pursuits, sports and co-curricular activities without having compromised anyone of them.

We are providing maximum research facilities to its faculty members, so that they can increase their research output. GCU has established the Directorate of Research, Innovation and Commercialization with the objective of promoting research and forge partnerships between GCU and industries. The role of academic heads and young energetic faculty members has been increased in development, administration and policy-making to strengthen the University. I wish to place GCU on top in the world ranking of universities through the unflinching support of my experienced and motivated colleagues.

GCU, housed in land-locked small campus, is facing a delicate situation with regard to its space requirements; the present building is insufficient to cater to the space needs of the new departments. However, the University has made plans to introduce cutting-edge technologies and modern disciplines on its new campus of GCU at Kala Shah Kaku that would meet the needs of the modern world in next 50 years.

GCU's Annual Report reveals high commitment and strenuous efforts that were made jointly by teaching faculty, students and administrative staff during 2012-2013 for keeping up the academic standards and quality of teaching and research work. I appreciate the efforts made by Mr. Babar Ali Khan, Deputy Registrar (Academic) and his team for preparing this valuable and comprehensive document.

**Prof. Dr. Muhammad Khaleeq-ur-Rahman**  
**Vice Chancellor**

GC University Lahore is a modern, demand-driven, futuristic, quality conscious and affordable public university. The university wishes to build its future through internationally recognised research work, scholarship and learning within a distinctive scholarly environment. The academic departments of the GCU offer a wide choice of subjects with flexible study patterns that meet the needs and interests of the students at intermediate, undergraduate and postgraduate levels. The GCU Annual Report (2012-2013) unfold the story of efforts made by GCU teaching staff, students and administration for keeping up the traditions of academic excellence and achieving aim of quality teaching and research at all levels.

Chapter-1 highlights academic activities and achievements while focusing on undergraduate and postgraduate programmes, foreign and institutional linkages as well as honours and awards conferred to GCU students and staff in 2012-2013.

Chapter-2 summarizes research and development activities, including projects; publications; research journals; and conferences, seminars and workshops, etc. GCU teaching faculty is actively involved in publishing their research work in reputed national and international research journals on regular basis. In 2012, HEC ranked Government College University Lahore second on the basis of quality of teaching and research in the category of General Universities (Others).

Chapter-3 relates to Quality Assurance. In this section, impacts of quality assurance in the University have been summarized, while emphasizing on the initiatives taken by GCU Quality Enhancement Cell for the improvement of academic and administrative standards. The main focus of quality assurance programme is continuous professional development of staff, preparation of self-assessment report, academic audit and assessment of the academic and administrative departments working within the Quality Assurance (QA) framework.

Chapter-4 is all about Faculty Development programmes, including opportunities for improving academic qualification, scholarship programmes, pre-service and in-service professional development programmes, foreign faculty's contribution, etc., whereas student enrolment, employability and faculty-student ratio is reflected in Chapter-5. University-industry linkages and career guidance, internship and placement services have been elaborated in Chapter-6.



Chapter-7 reveals efforts made by the University for strengthening its physical infrastructure, including development projects, laboratories, libraries, research equipment as well as other construction projects. Similarly, details of strengthening technological infrastructure, such as digital library, PERN, video conferencing, campus management solution and web portal have been documented in Chapter-8. The focus of Chapter-9 is on university's role and contributions in building communities. Chapter-10 manifests GCU students' contributions and achievements in the realm of Sports at national, regional and international levels.

Faculty and student leadership can only develop and flourish in a certain congenial environment, Chapter-11 summarizes the awards and honors achieved by GCU faculty and a wide range of co-curricular activities in students participated in 2012-2013 and polished their talents. Chapter-12 depicts financial picture of GCU Lahore during the specified period whereas Chapter-13 provides us details of university governance and management system.

GCU's initiatives and strategy to generate and develop financial resources are mentioned in detail in Chapter-14. GCU Endowment Fund Trust generated a handsome amount to meet the academic expenses of the deserving students and to build new blocks and laboratories and restore old buildings of historic value. Student Scholarship and Financial Aid office is working actively. Medical facilities and counseling services that have been provided to GCU students and staff in 2012-2013 have been summarized in Chapter-15.

## About the University

Government College Lahore started its academic journey on January the 1st, 1864, with a class consisting of nine students. This institution takes pride in being one of the oldest educational institutions of higher learning in Subcontinent. With over 9,000 students and 419 members of teaching faculty, it is a Centre of academic excellence and intellectual development. We started the journey of modern progress in 1997, and after getting the University status in 2002 embarked on a planned programme of institutional development to match the challenges of the 21<sup>st</sup> century.

Our graduates continue to be leaders in all walks of life, from scientists to litterateurs, from philosophers to bureaucrats, and poets to politicians. The Academic Programmes at the University aim at imparting interdisciplinary knowledge, a broad vision and a critical insight of current problems. GC University Lahore remains committed to its old traditions and values of tolerance and respect for other people's views and ideas.

The University provides instructions in the English language in all major disciplines of the faculties of Science and Technology, Arts & Social Sciences and Languages, Islamic & Oriental Learning. The Academic Departments offer a wide choice of subjects with flexible study options that meet the needs and interests of the students at both the Undergraduate and Postgraduate levels. The stimulating environment of GCU has helped some of our postgraduate departments to take a lead in certain areas of specializations such as Mathematics (Abdus Salam School of Mathematical Sciences), Biotechnology (Institute of Industrial Biotechnology), Chemistry, Economics, Physics, Psychology, etc.

### GCU Vision

GC University Lahore is a modern, demand-driven, futuristic, quality conscious and affordable public University. The University wishes to build its future through internationally recognised research work, scholarship and learning within a distinctive scholarly environment.

We believe in creating an environment in which academic excellence can be combined with opportunities for personal development, enabling individuals to make their own future, for this purpose our plans embrace three additional strategic directions: **institutional collaboration**, **international links** and **open-learning** to increase flexibility and interaction. In order to meet the upcoming global challenges, GCU has expanded the horizon of its educational system. The University's spirit of cooperative development allows affiliations and collaborations with internationally well-reputed universities. In fulfilling its purpose, GCU holds the following values:

- We are committed to remaining a research-led institution, valuing knowledge and learning for its own sake as well as for the cultural, social and economic benefits it offers.
- We are committed to the communication of knowledge and learning, through an environment in which leading academic staff teach and engage in dissemination of knowledge to a broader community.
- We believe in creating an environment in which academic excellence can be combined with opportunities for personal development, so enabling individuals to create their own future;
- We respect the academic freedom of all staff and students so that they might confidently engage in leading edge and innovative knowledge-creation and debate;

- We are committed to promoting diversity and equality of opportunity for all staff and students;
- We seek to recruit and develop staff and students of the highest quality, recognizing that people are our primary resource;
- We will ensure that our activities are carried out ethically and to the highest academic and cultural standards.

Guided by this vision, we attempt to ensure three aspects in our Academic Programmes:

- i. Assurance of quality teaching;
- ii. High standards of research and
- iii. Organizational and managerial efficiency

## Chapter-1: ACADEMIC ACTIVITIES

The academic departments of the GCU offer a wide choice of subjects with flexible study patterns that meet the needs and interests of the students at intermediate, undergraduate and postgraduate levels. GCU Lahore has the following faculties:

1. Faculty of Science and Technology
2. Faculty of Engineering
3. Faculty of Arts And Social Sciences
4. Faculty of Languages, Islamic and Oriental Learning

### 1.1 UNDERGRADUATE AND POSTGRADUATE PROGRAMMES

Presently, GCU offers 3 Diploma Programmes, 4-year BA/BSc (Hons.) programme in 26 disciplines and Masters programme in 4 disciplines. The details if these programs are as follows:

#### GCU UNDERGRADUATE AND MASTER PROGRAMMES

No	Programme	Discipline
1	Diploma	<ol style="list-style-type: none"><li>1. ELT</li><li>2. Child Guidance and Educational</li><li>3. Pakistan Affairs</li></ol>
2	4-year BA/BSc (Hons)	<ol style="list-style-type: none"><li>1. Biotechnology</li><li>2. Botany</li><li>3. Business Accounting &amp; Finance</li><li>4. Chemistry</li><li>5. Economics</li><li>6. Electronics</li><li>7. English Literature</li><li>8. Environmental Science</li><li>9. Geography</li><li>10. History</li><li>11. Islamic Studies</li><li>12. Mathematics</li><li>13. Microbiology</li><li>14. Persian</li><li>15. Philosophy</li><li>16. Physics</li><li>17. Political Science</li><li>18. Psychology</li><li>19. Statistics</li><li>20. Urdu</li><li>21. Zoology</li><li>22. BCom (Hons)</li><li>23. BSc (Hons) Applied Management</li></ol>

		24. BS in Electrical Engineering 25. BS in Computer Science (BSCS) 26. BFA (Hons) in Graphic Design
2	MA/MSc	1. Executive MBA 2. History 3. Physical Education 4. Political Science

## 1.2 MS/MPhil AND PhD PROGRAMMES

At Postgraduate level, the University offers MS/MPhil programme in 29 disciplines and PhD in 19 disciplines. The details of these programs are as follows:

### MS/MPHIL AND PHD PROGRAMMES

No	Programme	Discipline
1	MPhil/MS	1. Applied Physics 2. Biotechnology 3. Botany 4. Computer Science 5. Chemistry 6. Economics 7. English Literature 8. Environmental Science 9. Geography 10. History 11. Islamic Studies 12. Mathematics 13. Microbiology 14. Persian 15. Philosophy 16. Physics 17. Political Science 18. Psychology 19. Statistics 20. Urdu 21. Zoology 22. MBA 23. MS Clinical Psychology 24. MS Banking & Financial Economics 25. MS Electrical Engineering 26. MS ESME Management 27. MS Forensic Chemistry 28. MS Industrial/Organizational Psychology 29. MS Pharmaceutical Chemistry

2	PhD	<ol style="list-style-type: none"> <li>1. Applied Physics</li> <li>2. Biotechnology</li> <li>3. Botany</li> <li>4. Chemistry</li> <li>5. Clinical Psychology</li> <li>6. Computer Science</li> <li>7. Economics</li> <li>8. English Literature</li> <li>9. Environmental Science</li> <li>10. History</li> <li>11. Islamic Studies</li> <li>12. Mathematics</li> <li>13. Persian</li> <li>14. Physics</li> <li>15. Political Science</li> <li>16. Psychology</li> <li>17. Statistics</li> <li>18. Urdu</li> <li>19. Zoology</li> </ol>
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### 1.3 ACADEMIC ACHIEVEMENTS

#### 1.3.1 NEW ACADEMIC PROGRAMMES INITIATED

Following academic programmes were initiated in 2012-2013:

Sr#	Year	Programme
1.	2012	PhD Islamic Studies
2.	2012	PhD Computer Science
3.	2012	MPhil Applied Physics
4.	2012	MS Geography
5.	2012	MS Industrial / Organizational Psychology
6.	2012	MSc Physical Education
7.	2012	MA History
8.	2012	MA Political Science
9.	2012	Certificate in Forensic Science

#### 1.3.2 AFFILIATION OF COLLEGES WITH GCU LAHORE

GCU takes pride in its academic excellence and through affiliation intends to share its prowess with a wide spectrum of academicians, students and researchers which is otherwise impossible due to limited space on the GCU campus. GC University Lahore is offering affiliation to institutions in the various programmes in the light of its Ordinance 2002. GCU's Affiliation

Committee ensures that all affiliated colleges fulfill all the requirements and conditions laid down in the GCU Affiliation Rules and Regulations. List of affiliated colleges is as below:

### List of Affiliated Colleges

Sr. No.	Name of Institute	Academic Programmes	Intake Limit	Sessions
1.	<b>GRACE COLLEGE OF BUSINESS STUDIES, LAHORE</b>	1. B.Com (Hons)	100	2012-2016
		2. B.Sc. (Hons) in Business Accounting & Finance	100	
		3. B. Sc. (Hons) in Economics	100	
2.	<b>SKANS EDUCATION COLLEGE (SPLIT CAMPUSES)</b> Branch-I: 159-AbuBakar Block Lahore, Branch-II: 1-Tariq Block, New Garden Town, Lahore.	1. B.Com (Hons)	100	2012-2016
		2. B.Sc. (Hons) in Business Accounting & Finance	100	2013-2017
3.	<b>UCL SCHOOL OF MANAGEMENT SCIENCES, UCL Lahore</b> 1.5 Km from Thokar Niaz Baig, Raiwand Road, Lahore.	1. B.Sc. (Hons) in Business Accounting & Finance	50	2012-2016 2013-2017
		2. B.Sc (Hons) Economics	50	
4.	<b>UCL SCHOOL OF MANAGEMENT SCIENCES, Multan:</b> 11/9 Qaswar Gardezi Road, near canal Officers Colony, High Court Chowk, Multan.	1. B.Sc. (Hons) in Business Accounting & Finance	50	2012-2016 2013-2017
		2. B.Sc (Hons) Economics	50	
5.	<b>GABRIEL COLLEGE MANDI BHAUDDIN</b> University Town, Phalia Road, Mandi Bahauddin.	B.Com (Hons.)	50	2012-2016 2013-2017
		B.Sc (Hons.) in Economics	50	
		BS in Computer Science	50	
		B.Sc (Hons.) in Mathematics	50	2013-2017
		B.A. (Hons.) in English Literature	50	
		B.A. (Hons.) in History	50	
6.	<b>Madrasat-ul-Banat College</b> Manthar Road, Sadiqabad.	BS in Computer Science	50	2012-2016 2013-2017
7.	<b>TIMES School of Engineering</b> Qadirpur Raan Bypass, Khanewal Road, Multan.	BSc Electrical Engineering	40	2013-2017

### 1.3.3 ACADEMIC PLANNING OF GCU NEW CAMPUS AT KALA SHAH KAKU

GC University, Lahore has acquired 370 acres of land for a New Campus at Kala Shah Kaku (about 19 km from the existing campus) with Punjab Government's special grant. GCU hired the consultants to conduct an academic feasibility study to identify the market driven and futuristic academic programmes so that the Campus and its buildings are appropriately designed in the detailed Master Plan of the New Campus.

GCU is planning to establish new Faculties/ Colleges/ Departments/ Centers and Institutes at this Campus for which the University need national and international support, academic collaboration, resource sharing and contribution from universities and donors so as to build a modern campus of International standards.

Punjab Chief Minister and Old Ravian Najam Sethi laid a foundation stone of new campus of GC University Lahore at Kala Shah Kaku on 28-04-2013 and announced a grant of Rs 100 million for the initial infrastructural development of the 370-acres campus that would impart education to 60,000 students after complete development. The boundary wall construction has been accomplished.

The Academic Feasibility Study and Master Planning have also been completed and approved by the Syndicate. The PC-I has been prepared and near to submit for the development of new campus. Following programmes have been short-listed to be shifted and launched at KSK Campus in two phases:

#### Phase – I

#	Faculty	Department
1	Faculty of Sciences & Technology	<b>(a) School of Chemical Sciences</b>
		1. Chemistry 2. Pharmacy 3. Clinical Chemistry 4. Forensic Chemistry 5. Material Chemistry
		<b>(b) School of Environmental Sciences &amp; Technology</b>
		1. Department of Biodiversity 2. Department of Water resources management law and policy 3. Environmental Engineering
		<b>(c) Abdus Salam School of Mathematical Sciences</b>
		1. Department of Mathematics 2. Department of Statistical Sciences
2	Faculty of Arts & Social Sciences	<b>(d) Faculty of Engineering &amp; Technology</b>
		1. Department of Electrical & Electronics Engineering 2. Department of Mechanical Engineering 3. Department of Civil Engineering
		<b>(a) School of Economic Sciences</b>
		1. Department of Entrepreneurship & SME Management



		2. Institute of Management Sciences
		<b>(b) School of Psychology</b>
		1. Department of Social Development Psychology 2. Department of Industrial/Organization Psychology 3. Department of Clinical Psychology 4. Department of Cognitive Neurosciences

## Phase II

#	Faculty	Department
1	<b>Faculty of Sciences &amp; Technology</b>	(a) Institute of Bio-Physics (b) Department of Geology and earth Sciences (c) Applies Center of Biological Sciences
2	<b>Faculty of Engineering &amp; Technology</b>	(a) Department of Mechatronics Engineering (b) Department of Architecture (c) Department of Chemical Engineering & Technology
3	<b>Faculty of Languages, Islamic and Oriental Learning</b>	(a) Institute of Islamic and Oriental learning (b) Institute of languages French, German, Japanese, Chinese, Russian, Persian and Arabic
4	<b>Faculty of Arts &amp; Social Sciences</b>	<b>(a) School of Economics Sciences</b> 1. Department of Economics and PUBLIC POLICY 2. Department of Banking Account & Finance a. School of Law b. School of Communication and Media Studies and performing Arts <b>(b) School of Arts and Design</b> 1. Department of Fine Arts 2. Department of Fashion Design 3. Department of Textile Designing <b>(c) School of Medical &amp; Health Sciences</b> 1. Medical College 2. Hospital

### 1.3.4 REVIVAL OF TWO YEARS MASTERS PROGRAMME

The GCU has approved the Master's programme in History, Physical Education and Political Science. MA/MSc had been replaced by the BA/BSc (Honors) programme in 2007. However, the Masters programme was re- launched in 2012 keeping in view educational responsibilities towards nation, market demand and the dearth of opportunities regarding quality higher education for students with two-year bachelor's degree.

### 1.3.5 11<sup>th</sup> CONVOCATION HELD ON THURSDAY 28<sup>th</sup> MARCH, 2013

The 11<sup>th</sup> Convocation of the GC University Lahore was held on Thursday, March 28, 2013 at the Oval Ground. The Vice Chancellor GC University Lahore conferred degrees and awards to students of PhD, MS/MPhil and BA/BSc Honors. As many as 1330 students received Degrees, Medals and Certificates on the Convocation. The Vice Chancellor presented annual report of the University and highlighted achievements during the academic year. The report also highlighted that girls secured 16 out of 27 prestigious academic Gold Medals and Rolls of Honours that are awarded to students for their extraordinary excellence. Only, 11 Medals were secured by the male students. About 57 scholars were awarded Degrees of Doctor of Philosophy in various Subjects of Science, Arts and Literature. As many as 7 students were awarded Medals and 16 students were given away Rolls of Honours for their extraordinary performance in co-curricular activities and 10 students were awarded with Sports Rolls of Honours.

### 1.4 FOREIGN ACADEMIC LINKAGES

In this era of internationalization of higher education, GCU believes in collaboration and networking to cope with the global academic environment. For meeting the challenges of highly competitive academic world, GCU has devised a strategic plan for developing and strengthening academic links with the leading national and international universities and research institutions. Our external links strategy focuses on increasing international awareness of students and faculty; strengthening research and knowledge production; and fostering international cooperation and harmony. Since 2002, GCU has established 150 foreign and local linkages with universities, industries and organizations of repute.

#### 1.4.1 INTERNATIONAL MOUS / AGREEMENTS

In year 2012-2013, GCU Lahore signed 09 MoUs/ Agreements with the foreign universities/ institutions and organizations as per following details:

	<b>Date of Signing MoU/ Agreement</b>	<b>Uni/Dept.</b>	<b>Foreign Partners</b>
1.	21 Jun 2013	GCU Lahore	University of Albany, State of New York, USA <a href="http://www.albani.edu/">www.albani.edu/</a>
2.	15 Apr 2013	GCU Lahore	Suleyman Sah University, Istanbul, Turkey <a href="http://www.ssu.edu.tr">www.ssu.edu.tr</a>
3.	29 Jan 2013	Faculty of Languages, Islamic & Oriental Learning	Graduate School of Language and Culture, School of Foreign Studies, Osaka University, Japan (Extension) <a href="http://www.osaka-u.ac.jp/en/">http://www.osaka-u.ac.jp/en/</a>
4.	18 Dec, 2012	GCU Lahore	University of Massachusetts, Medical School, USA

5.	30 Aug 2012	Politic Science	Institute of Water, Environment and Health, The United Nation University, Japan <a href="http://unu.edu">http://unu.edu</a>
6.	23 Aug 2012	Library	The International Monetary Fund (IMF)-Online Resource Sharing <a href="http://www.imf.org/">www.imf.org/</a>
7.	19 Jul 2012	GCU Lahore	HEC-French Needs Based Scholarship Programme <a href="http://www.hec.gov.pk">www.hec.gov.pk</a>
8.	15 Jul 2012	GCU Lahore	Sifa University, Izmir Republic of Turkey <a href="http://www.sifa.edu.tr/">www.sifa.edu.tr/</a>
9.	15th Jul, 2012	GCU Lahore	Gediz University, Izmir Republic of Turkey <a href="http://www.gediz.edu.tr">www.gediz.edu.tr</a>
10.	10 Jul 2012	Faculty of Languages, Islamic and Oriental Learning	Eberhard Karls University of Tuebingen, Germany <a href="http://www.uni-tuebingen.de/en/">http://www.uni-tuebingen.de/en/</a>

## 1.5 HONOURS AND AWARDS

### 1.5.1 ACADEMIC MEDALS AND ROLL OF HONOUR

The following twenty two (22) students of undergraduate programme, session 2009-13 will be awarded Medals/ Roll of Honour for securing 1<sup>st</sup> position:

Sr. No	Departments	Name of Students
1.	Biotechnology	Hira Fatima
2.	Botany	Amna Mubshar
3.	BAF	Kiran Masood
4.	Chemistry	Hafsah Rafiq
5.	Economics	Adil Khan
6.	Electronics	Amber Kazmi
7.	English Literature	Sumbal Javed Butt
8.	Environmental	Arooj Fatima
9.	Geography	Ahtasham Irshad
10.	History	Jahanzaib Sheikh
11.	Islamic Studies	Sadaf Dilawar
12.	Mathematics	Manzar Hussain
13.	Microbiology	Yesra Arshad
14.	Persian	Hurraira Khaliq
15.	Philosophy	Usama Naqi

16.	Physics	Ayesha Asif
17.	Political Science	Tehmas Ayyub
18.	Psychology	Nabiha Ch
19.	Statistics	Zeeshan Ali
20.	Urdu	1. Sabir Ali 2. Anum Iftikhar
21.	Zoology	Fatima Aziz
22.	BSCS	Fatima Mushtaq

### 1.5.2 UNDERGRADUATE EXCHANGE PROGRAM FOR STUDYING IN USA

Under Near East and South Asia (NESA) and Global Undergraduate Exchange Program for USA, the following students of GCU were offered scholarships during 2012-2013:

Sr. No.	Student's Name	Department	Duration	Name of Scholarship
1	Rashid Jahan	English	1 year from Fall 2012	2012 Near East and South Asia (NESA)
2	Manal Imtiaz	English	1 semester from Spring 2013	Global Undergraduate Exchange Program in Pakistan
3	Faiza Javed	Zoology	1 semester from Spring 2013	Global Undergraduate Exchange Program in Pakistan
4	Shakir Hussain Shakir	Physics	1 semester from Spring 2013	Global Undergraduate Exchange Program in Pakistan
5	Gauhar Rehman Khalozai	Political Science	1 semester from Spring 2013	Global Undergraduate Exchange Program in Pakistan
6	Najeeb Ullah	Political Science	1 semester from Spring 2013	Global Undergraduate Exchange Program in Pakistan
7	Rashid Jahan	English	1 semester from Spring 2013	Global Undergraduate Exchange Program in Pakistan
8	Sami Ullah	Philosophy	1 semester from Spring 2013	Global Undergraduate Exchange Program in Pakistan

9	Muhammad Abdul Nasir	Economics	1 semester from Spring 2013	Global Undergraduate Exchange Program in Pakistan
10	Abdul Muneem	Economics	1 semester from Spring 2013	Global Undergraduate Exchange Program in Pakistan

### 1.5.3 OTHER ACHIEVEMENTS AND AWARDS

- Ayesha Khalil, student of SDSC has been selected by University for Japan Exchange Program, Jenesys 2.0 Duration 09<sup>th</sup> June, 2013 to 14<sup>th</sup> June, 2013
- Ayesha Atta (Advisor ACM-GCU) got the honor to organize the mega event – All Pakistan Tech & Art'13. All Pakistan Art & Tech Fest 2013 is a 3 day Event in which GCU-ACM Student Chapter will be taking an Initiative for the trend of Research Oriented Studies for the first time in Government College University along with which GCU-ACM Student Chapter will be conducting 17 events targeting the students of arts, literature and Computer Science.
- Travel Grant awarded by HEC, Pakistan to Prof. Dr. Nusrat Jahan to attend an International Conference “31<sup>st</sup> IUBS General Assembly and Conference On Biological Sciences and Bioindustry” held in Suzhou, China from July 04, 2012 to July 10, 2012 for oral presentation entitled “Integrated control of Dengue vectors by Mesocyclops and *Bacillus thuringiensis* from Lahore”.
- Ms. Andleeb Batool, PhD Scholar (Reg. No. 13-PHD-Z-09) under the supervision of Prof. Dr. Nusrat Jahan has successfully completed her six months split PhD “International Research Support Initiative Program” funded by HEC, Islamabad at Hong Kong University of Science and Technology.
- Ms. Riffat Iqbal, PhD Scholar (Reg. No. 16-PHD-Z-09) under the supervision of Prof. Dr. Nusrat Jahan has successfully completed her six months split PhD “International Research Support Initiative Program” funded by HEC, Islamabad at Hong Kong University of Science and Technology.
- Ms. Irfana Liaqat, PhD scholar (Reg. No. 24-GCU-PHD-Z-09) under the supervision of Prof. Dr. Nusrat Jahan has successfully completed her six months split PhD “International Research Support Initiative Program” funded by HEC, Islamabad at Yale University, USA.
- Dr. Syeda Shahida Batool, Assistant Professor, Department of Psychology won the OIC grant for Paper titled “Exploring the extrapolative strength of humor and self-efficacy at work” poster presentation at 5<sup>th</sup> International Conference of Cognitive Science (ICCS, 2013),
- Dr Muhammad Mohsin Javed, Associate Professor, IIB went to USA in October, 2012 to pursue Fulbright Post-Doctoral Fellowship at the University of California, Los Angeles and Iowa State University, Ames, Iowa, USA.
- Dr Muhammad Nauman Aftab, Assistant Professor, IIB went to USA in November, 2012 to conduct research under HEC postdoctoral fellowship at Sanford Burnham Medical Research Institute, Orlando, Florida.

- Ms Uzma Hameed, Lecturer IIB, went to USA in September, 2012 to pursue PhD research under HEC Scholarship (for 6 months) at the Cornell University, Ithaca, New York.
- Highest merit for admission to BS Biotechnology and Microbiology in the university from the last 5 years
- Dr. M. Akhyar Farrukh was nominated as Young Researcher by The Academy of Sciences for the Developing World (TWAS), Italy and selected by the Council for Lindau Nobel Laureate Meetings, Germany for 63rd Lindau Nobel Laureate Meeting in Chemistry in 29 June-05 July, 2013
- Miss Asma Afzal, Lecturer, Department of Political Science got Fulbright Scholarship for her PhD in June 2013
- Dr. Khalid Manzoor Butt, Chairman Department of Political Science went to Boon University in 2013 for one month workshop to enhance the capacity of the Department.
- Ms. Sabahat Zahra, Lecturer, Department of Chemistry, completed EHRS-Laboratory & biological safety training, Towne Building, University of Pennsylvania, PA-USA in 2012 and Training of different NMR Course at Department of Chemistry, University of Pennsylvania, PA-USA, (2012). She also completed 19th Master Trainers-Faculty Professional Development Programme (MT-FPDP), held at HEC Islamabad, 2012.
- UNESCO and the Abdus Salam International Centre for Theoretical Physics, ICTP in collaboration with world-famous Centre International de Mathématiques Pures et Appliquées, CIMPA, choose every year only two centers of advanced studies from all over the world to fund the advanced level workshops. ASSMS was one of the two chosen centers in 2012. The resource persons and main speakers at this workshop was ASSMS faculty. UNESCO, ICTP and CIMPA invited young researchers from all over the world for learning from the faculty of the Pakistani centre, the ASSMS. These young researchers from different parts of the world received training at ASSMS to carry out the useful research in diverse areas of mathematical sciences. All the expenses of the foreign delegates coming to ASSMS are paid by UNESCO, CIMPA and ICTP. The selection of ASSMS by the world-class organizations, for carrying out high level research workshops to train the international scientific community is on one hand, recognition at the highest forum that ASSMS is a research centre of international standards. On the other hand, it also shows that the faculty at ASSMS is trusted and respected at the world forum.
- The Pakistani national team trained and lead by ASSMS won Silver Medal at International Mathematical Olympiad, IMO 2012.

#### **1.5.4 RESEARCH PRODUCTIVITY AWARD BY PAKISTAN COUNCIL FOR SCIENCE & TECHNOLOGY (PCST):**

The record 23 faculty members of GC University Lahore including Vice Chancellor Prof (Meritorious) Dr Muhammad Kahleeq-ur-Rahman; Izaz-I-Kamal, were awarded the prestigious Research Productivity Award by the Pakistan Council for Science & Technology (PCST) in recognition of their outstanding research publications which were published in the international impact factor journals.

Dean Faculty of Science and Technology Prof Dr Islam Ullah Khan, Director Research Prof Dr Muhammad Zakria Butt, Physics Department Chairperson Prof Dr Hassan A Shah, Professor Salam Chair Prof Dr Ghulam Murtaza, Institute of Biotechnology Director Prof Dr Ikram-ul-Haq, Centre for Advance Studies in Physics Director Prof Dr Riaz Ahmad, Prof Dr Salamat Ali, Dr Ahmad Adnan, Dr Shazia Bashir, Dr Durre Shahwar, Dr Aziz-ur-Rehman, Dr M. Akhyar Farrukh, Naveed Afzal, Dr Sikandar Ali, Dr Asim Malik, Dr Muhammad Nouman Sarwar Qureshi, Dr Dilawar Ali, Dr Fazeel Mahmood Khan, Dr. Muhammad Athar Abbasi, Muhammad Ajaib, Muhammad Ejaz and Shahzad Sharif are among the faculty members who have won the award.

## 1.6 INSTITUTIONAL LINKAGES

GCU Lahore has strong linkages with local public and private sector universities, institutions and civil society organizations, and has thus signed a number of Memorandum of Understandings (MoUs). Under these agreements, various departments of university are getting benefits of initiating joint research projects, curriculum development, labs development and up-gradation, faculty and student exchange, stipend, internship and training to GCU students, job placement to GCU graduates, sharing of resources as well as organizing joint workshops, seminars and conferences. In year 2012-2013, GCU Lahore signed 03 MoUs/ Agreements with the Local Universities/ institutions and organizations as per following details:

Sr#	Date of Signing MoU/ Agreement	Uni/Dept.	Local / Foreign Partners	Type
1.	20 Feb 2013	GCU Lahore	Lahore College for Women University, Lahore <a href="http://www.lcwu.edu.pk">www.lcwu.edu.pk</a>	National
2.	4 Jan 2013	Chemistry	NovaMed Pharmaceutical (Pvt) Ltd. <a href="http://www.novamedpharma.com">www.novamedpharma.com</a>	National
3.	11 Dec 2012	Physics/CASP	National Institute of Laser and Optronics, NILOP, Islamabad <a href="http://www.nilop.edu.pk">www.nilop.edu.pk</a>	National

## Chapter-2: RESEARCH AND DEVELOPMENT

### 2.1 R&D – AN OVERVIEW

GCU Lahore is actively contributing in producing research work. Students and teaching faculty of the university are diligent and believe in hard work and dedication. In a short period after gaining university status in 2002, GC University, Lahore has attained a distinguished place among Pakistani universities owing to its strong commitment to academic standards and research work. These research explorations range from Biological and Physical Sciences to Social Sciences, and to languages. In 2010, Higher Education Commission of Pakistan ranked all public and private universities on the basis of research publications which appeared in ISI Indexed Journals during the years 2007, 2008 and 2009, and placed GC University Lahore at 5<sup>th</sup> position in Pakistan and 3<sup>rd</sup> in the Punjab. Moreover, as per HEC overall ranking of General Universities in the public sector, GCU, Lahore was 3<sup>rd</sup> in the Punjab and 6<sup>th</sup> in Pakistan. For a young and resource-starved university, this performance is fairly satisfactory.

In 2012, HEC ranked Government College University Lahore second on the basis of quality of teaching and research in the category of General Universities (Others).

It is pertinent to be mentioned here that 23 faculty members of GC University Lahore including Vice Chancellor Prof (Meritorious) Dr Muhammad Kahleeq-ur-Rahman were awarded the prestigious “Research Productivity Award 2012-2013” by the Pakistan Council for Science & Technology (PCST) in recognition of their outstanding research publications which were published in the international impact factor journals.

### 2.2 PROJECTS

Culture of research and publication play an important role in providing organizations with important “keys to success”. The R & D overview of various departments of the University reflects the significance of research and contribution of teachers, researchers and PhD scholars in academic enquiry. List of projects completed, in process during 2012-13 is as under:

#### 2.2.1 PROJECTS COMPLETED

S#	Project Title	Name of Principal Investigator	Amount	Date of Approval	Current status
1	“Conservation status of Flora of Punjab Environmental Implications and Plant Red Data List Punjab”, funded by Higher Education Commission Islamabad Pakistan	Dr. Zaheer-ud-din Khan	Rs. 1,170,000	01 Apr., 09	Completed
2	Conserving Dry-Land Ecosystems in the Indus Plains of Pakistan.	Prof. Dr. Amin U Khan	US \$25,000.	2010	Completed



4	Mathematical Modeling of the Laser Induced Thrombosis in VIVO	Alexander Kondratyev	1,762,600 Rs.	15-11.2006	Completed
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### 2.2.2 RESEARCH PROJECTS INITIATED DURING 2012-13

It is heartening to note that GC University, Lahore has attained a distinguished place among Pakistani universities owing to its strong commitment to research work in every field. GCU's research activities are influenced by the dynamism of young researcher, expertise of the senior faculty, and its close linkages with national and foreign institutions. In all, GCU scholars produced 48 PhD and 137 MS/MPhil theses in various disciplines in 2012-13. During the same period, GCU faculty and students published 472 research papers in HEC recognized international / national research journals with impact factor.

Research Projects which were initiated and under implementation during 2012-13 are as follow:-

1. Capacity Building of Research Facilities of CASP, PI: Prof. Dr. Muhammad Khaleeq-ur-Rahman sponsored by HEC with project cost Rs. 14.189 million.
2. Lanthanum Doped Tin Oxide-titanium Oxide Nano-photocatalyst and its Application in Development of Nanofiltration System for Industrial Waste Water Treatment, PI: Dr. Muhammad Akhyar Farrukh sponsored by HEC with project cost Rs. 6.30 million.
3. Environment Friendly and Sustainable Increase in Crop Yield of Chickpea, PI: Dr. Safdar Ali Mirza sponsored by HEC with project cost Rs. 9.28545 million.
4. Improving Table Grape Production in Pakistan Utilizing Biotechnology and Innovative Vineyard Management Strategies, PI: Dr. Atif Yaqub sponsored by HEC (Pak-US Science and Technology Cooperation Program) with project cost \$ 0.144035 million.
5. Use of Beta Vulgaris as Potential Source for Food Dye, PI: Mr. Tariq Rizwan sponsored by PSF with project cost Rs. 1.468596 million.
6. Molecular and Morpho-anatomic Characterization of Aphylophorales of some diversity rich sites in Swat Valley, their co-relation with below ground mycoflora, PI: Dr. Muhammad Hanif sponsored by HEC with project cost Rs. 0.50 million.
7. Biodiesel Production from Microalgae, PI: Dr. Ghazala Yasmeen Butt sponsored by HEC with project cost Rs. 8.03275 million.
8. Synthesis of Bioactive Oxygen and Nitrogen containing molecules bearing Benzodioxal Heterocycles, PI: Dr. Aziz ur Rehman sponsored by HEC with project cost Rs. 5.3176 million.
9. Synthesis, Characterization and Biological Activities of Piperic Acid Derivatives, PI: Dr. Muhammad Jahangir sponsored by HEC with project cost Rs. 3.7083 million.
10. Upgradation of Biochemistry Laboratory and Purchase of Chemicals, PI: Dr. Muhammad Akhyar Farrukh sponsored by West London College of Management and Technology, UK with project cost Rs. 0.1 million.

11. Commercial Production of Humic Acids sponsored by RL Enterprises with project cost Rs. 0.5 million.
12. Process development for the production of glucose oxidase sponsored by Aspergillus niger, PI: Dr. Ikram ul Haq by Pakistan Academy of Sciences with project cost Rs. 2.0 million
13. Synthesis, characterization and application of lanthanide nano particles doped on ZnO, TiO<sub>2</sub>, SiO<sub>2</sub>, PI: Dr. M. Akhyar Farrukh, Approved on 10-10-2012 with project cost USD: 13200.
14. Removal of organophosphorus pesticides using Fe Nanoparticles (Fe NPs) immobilized in cyclodextrin-silica matrix PI: Dr. M. Akhyar Farrukh, approved on 14-12-2012 with project cost Rs. 5074628/-
15. Bacteriostatic applications of iron oxide doped tin oxide loaded with metals (Zn, Cu and Ag) nanoparticles synthesized via hydrothermal method PI: Dr. M. Akhyar Farrukh, approved on 12.03.2013 with project cost Rs.1.5 m
16. Synthesis, Characterization and Biological Activities of Sulfonamide Derivatives Bearing 1,3,4-Oxadiazole and Piperidine Nucleus, PI: Dr. AzizurRehman, approved on 11-01-2013 with project cost Rs. 2,834,988/-.
17. Network Enabled Industrial Robotic Arm (Rs. 90,000/-) funded by ICT, supervised by Engr. Khurram M. Butt, Department of Electrical Engineering.
18. Green House-Based Architecture Design of Power Supply for a Metro Area (Rs. 90,000/-) funded by ICT, supervised by Engr. Naveed Iqbal, Department of Electrical Engineering.
19. Real Time Object Detection and Tracking With A Wireless Camera Mounted on a Quadcopter (Rs. 86,000/-) funded by ICT, supervised by Engr. Tasweer Ahmed, Department of Electrical Engineering.
20. Air Quality Monitoring in Stone-Crushing Industrial Area, Sargodha (Punjab), Funding Source: Higher Education Commission (HEC), Pakistan, PI: Dr. Rab Nawaz, Rs. 500,000, Nov. 2012-Aug.2013,
21. Nonlinearities in Degenerate Quantum Plasmas, Funding Source: Higher Education Commission (HEC), Pakistan, PI: Prof. Dr. Hassan A. Shah, Chairperson, Department of Physics, S.I., Rs. 4,001,664/- approved on 28-06-2013,
22. Optimal Embeddings of Sobolev Spaces, Abdus Salam School of Mathematics, (ASSMS), PI: Georgi Erimeiv Karadzhov, Rs. 373,645, approved on 12.10.2012
23. Synthesis, Characterization and first principle study of vanadium doped half-metallic ferromagnetic II-VI (ZnS, ZnSe & ZnTe) systems, PI: Dr. Ghulam Murtaza, approved on 17-04-2013

## 2.3 PUBLICATIONS

GCU teaching faculty is actively involved in publishing their research work in reputed national and international research journals on regular basis. 472 Research Papers have been published during 2012-13 as per following detail:

1. A. A. Awan, M. Imran, M. Athar, Nazish Shahid, (2012), Exact solutions of the unsteady flow of a fractional Maxwell fluid with non-linear velocity on the boundary of a circular cylinder, 'Journal of Prime Research in Mathematics'
2. A. S. Kondratyev, Nazish Shahid, (2012), A new form of exact equations in quantum statistical mechanics of Interacting particles, Published in Physics at 'Schools and Universities, Issue 11, Russian Library of Academy Science, The Herzen State Pedagogical University of Russia'
3. A. Sohail, D. Vieru, M.A. Imran<sup>1</sup> (2012), Influence of side walls on the oscillating motion of a Maxwell fluid over an infinite Plate , *Mechanika*
4. A. Sohail, Samiulhaq, D. Vieru, (2012), Slip Effects on Free Convection Flow near a Moving Vertical Plate with Newtonian Heating
5. A. U. Awan, M. Athar, M. Kamran, M. Imran, (2012), Exact analytical solutions for a longitudinal flow of a fractional Maxwell fluid between two coaxial cylinders, *Punjab University Mathematics Journal*
6. A. U. Awan, M. Imran, M. Athar, Nazish Shahid, (2012), Exact solutions of the unsteady flow of a fractional Maxwell fluid with non-linear velocity on the boundary of a circular cylinder, *Journal of Prime Research in Mathematics*,
7. A. U. Awan, Nazish Shahid, (2012), Axial-Couette flow of an Oldroyd-B fluid in an annulus due to a time-dependent shear stress, *Corina Fetecau, 'Bulletin of the Polytechnic Institute of Iasi, Romania'*
8. A. Yaqub, M. S. Mughal, A. Adnan, W. A. Khan and K.M.Anjum (2012), Biosorption of hexavalent chromium by *spirogyra* spp.: equilibrium, kinetics and thermodynamics. *The Journal of Animal and Plant Sciences*, 22 (2) 408-415
9. A. Zada, S. Arshad, G. Rahmat and R. Amin, (2012), Dichotomy of Poincare Map and Boundedness of some Cauchy Sequences, *Applied Mathematics E-Notes*
10. A.I.K. Butt, Rene Pinnau, (2012) Optimal Control of a non-isothermal Tube drawing process, *J. eng. M.*, 76 (1), p. 1-17.
11. A.L. Vanz, H. Lunsdorf, A. Adnan, M. Nimitz, C. Gurrankonda, N. Khanna and U. (2012), Rinas Physiological response of *Pichia pastoris* GS115 to methanol induced high level production of the Hepatitis B surface antigen: Catabolic adaptation, stress responses, and autophagic processes. *Microbial Cell Factories*, 11:103 doi:10.1186/1475-2859-11-103
12. Abbasi, M.A., Rubab, K., Aziz-ur-Rehman, Riaz, T., Shahzadi, T., Khalid, M. and Ajaib, M. (2012), In vitro assessment of relief to oxidative stress by different fractions of *Boerhaavia procumbens*. *Pak. J. Pharm. Sci.*, 25(2): 357-364.
13. Abdullah Yasar, Sadia Khalil, Amtul Bari Tabinda, and Afifa Malik (2012), Comparison of Cost and Treatment Efficiency of Solar Assisted Advance Oxidation Processes for Textile Dye Bath Effluent *Korean Journal of Chemical Eng*, 30(1), 131-138
14. Aftab Ahmad, Bushra Muneer and Abdul Rauf Shakoori, (2012), Effect of chromium, cadmium and arsenic on growth and morphology of HeLa cells. *Journal of Basic & Applied Sciences*, 8 (1): 53-58.
15. Aftab Khan, Gul Rahmat, Afshan Tabassum, (2012), Constantin Buse, Uniform exponential

stability for discrete non-autonomous systems via Discrete Evolution Semigroups, Fractional Differential Calculus

16. Ahmad Nisar, Parvez Azim, Jamshaid ur Rehman (2012), "Does Working Capital Management Affect the Operational Liquidity Position of Firms? A Case of Pakistani Manufacturing Firms" *Journal of Global Economy*, VOL 9, NO 1 , PP. 53-68
17. Ahmad, Nisar, Parvez Azim, Jamshaid ur Rehman (2012), "Does Working Capital Management Affect the Profitability? A Case of Pakistani Manufacturing Firms" *Journal of Global Economy*, VOL 8, NO 4 , PP. 327-344
18. Alexei Stepanov, (2012), Subring subgroups in Chevalley groups with doubly laced root systems, *Journal of Algebra*, 362 , 12–29
19. Ali Ahmad, M.F. Nadeem, M.K. Siddiqui, M. Imran, (2012), On super edge magic deficiency of kite graphs, *Ars Combinatoria*,
20. Ali Ahmad, Muhammad Faisal Nadeem, Imran Javaid, Roslan Hasni, (2012), On super edge magic deficiency of some families related to ladder graphs, *The Australasian Journal of Combinatorics*,
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26. Ayesha Asloob Qureshi, (2012), Indispensable Hibi relations and Grobner basis" is to "Communication in Algebra,
27. Ayesha Riasat, Salma Kanwal, Sana Javed, (2012), On Odd-Graceful Labeling of Disjoint Union of Graphs, to *Utilitas Mathematica*,
28. Ayesha Riasat, Uwe Schauz, (2012), Critically Paintable, Choosable Or Colorable Graphs, to *Discrete Mathematics*
29. Ayesha Shabbir, (2012), Fault-tolerant designs in lattice networks on the Klein bottle, *Int. J. compt. Math*
30. Ayesha Shabbir, (2012), Highly Non-Concurrent Longest Cycles In Lattices Graphs, *Combinatorics, Probability and Computing*,
31. Ayesha Shabbir, (2012), Non-Concurrent Longest Paths And Cycles In Triangular Lattices, *Discrete Mathematics & Theoretical Computer Science*,
32. Aziz-ur-Rehman, Ahmad, S., Riaz, T., Abbas, A., Abbasi, M.A., Siddiqui, S.Z. and Ajaib, M. (2012), *Martynia annua*: Comparative antioxidant potential of its stem and leaves. *Asian J. Chem.*, 24(8): 3335-3338.
33. Aziz-ur-Rehman, Awais-ur-Rehman, M.A. Abbasi, H. Khalid, K. M. Khan, P. Dar, (2012) Synthesis and Biological Screening of N-Substituted Derivatives of N-Benzyl-4-chlorobenzenesulfonamide. *Asian J. Pharm. Hea. Sci.*, 2(3) 384-389.
34. Aziz-ur-Rehman, K. Nafeesa, M.A. Abbasi, H. Khalid, K.M. Khan, M. Ashraf, I. Ahmad,

- S.A. Ejaz, (2012), Synthesis, Spectral Characterization And Biological Activity of S-Substituted Derivatives of 5-(4-Nitrophenyl)-1,3,4-Oxadiazole-2-Thiol. *Asian J. Pharm. Hea. Sci.*, 2(3) 370-376.
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450.	بابر نسیم آسی: عبدالوہاب الہامی و شعر وی، کاوش، گروہ زبان ادبیات فارسی، دانشگاه جی سی لاہور ۲۰۱۲م۔
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452.	بارون قادر: اردو ادب میں ضمیمہ تحقیقی مطالعہ "تحقیق نامہ" شماره ۱۱ دسمبر ۲۰۱۲ء ص ۳۳-۳۸
453.	بارون قادر: نئی تنقید تحقیق و تنقیدی مطالعہ "بازیافت" شعبہ اردو، اورنٹیل کالج لاہور، ۲۰۱۲ء ص ۲۴۲-۲۵۲
454.	واصف لطیف: فیض احمد فیض کی پنجابی شاعری "تحقیق نامہ" شماره ۱۱ جولائی ۲۰۱۲ء ص ۱۲۰-۱۲۷
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459.	سفر حیدر: عبدالله حسین کا تصور انسان (اداس نسلیں کے تناظر میں) تحقیق نامہ، شماره: ۱۲، جون ۲۰۱۳ء ص ۱۴۹-۱۶۰
460.	فاروق احمد: آب حیات کا مفرد اسلوب، تحقیق نامہ، شماره: ۱۲، جون ۲۰۱۳ء ص ۴۶-۵۱
461.	صائمہ ارم: مقالہ نگاری بنیادی مباحث، تحقیق نامہ شماره: ۱۲، جون ۲۰۱۳ء ص ۷۴-۸۱
462.	نسیم رحمان: سفر نامہ منشی امین چند. تحقیق و تجزیہ، تحقیق نامہ شماره: ۱۲، جون ۲۰۱۳ء ص ۸۲-۹۰
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464.	سمینہ افتخار: فسانہ عجائب مرتبہ رشید حسن خان۔ ایک جائزہ، ”تحقیق نامہ“ شماره: ۱۲، جون ۲۰۱۳ء ص ۱۱۲-۱۰۸
465.	رضیہ مجید: مولانا عبداللہ سندھی ایک مطالعہ ”تحقیق نامہ“ شماره: ۱۲، جون ۲۰۱۳ء ص ۱۴۰-۱۴۸
466.	بارون قادر: دربار اودھ کے بابر ڈرامائی سرگرمیاں، تحقیق نامہ، شماره: ۱۲، جون ۲۰۱۳ء ص ۲۱۷-۲۲۴
467.	بارون قادر: تصوف: مختلف مذاہب اور اقوام کے اٹینے میں ”زبان و ادب“ شعبہ اردو جی سی یونیورسٹی فیصل آباد ۲۰۱۳ء ص ۳۰-۳۶
468.	واصف لطیف: صوفی غلام مصطفیٰ تبسم (بطور پنجابی شاعر) ”تحقیق نامہ“ شماره: ۱۲، جون ۲۰۱۳ء ص ۹۱-۹۷
469.	لاہور جلد چہارم - ۲۰۱۳ء Lums ”میرا جی اور جدید نظم کی تقسیم کا فریم ورک“ بنیاد
470.	شاہد نواز: اردو ڈرامے کا المیہ ”تحقیق نامہ“ شماره: ۱۲، جون ۲۰۱۳ء ص ۱۷۱-۱۷۸
471.	نورین کھوکھر: اشفاق احمد کے افسانوں میں اخلاقی پہلو ”تحقیق نامہ“ شماره: ۱۲، جون ۲۰۱۳ء ص ۱۸۷-۱۹۱
472.	محمد عاصم شہزاد: ہملیٹ کے اردو تراجم تعارفی جائزہ ”تحقیق نامہ“ شماره: ۱۲، جون ۲۰۱۳ء ص ۱۹۲-۱۹۵

### 2.3.1 EXHIBITIONS BY ERFAN ULLAH BABAR, CHAIRPERSON/ASSISTANT PROFESSOR, DEPARTMENT OF FINE ARTS

<b>Group Show</b>	<b>2013</b>
Faculty Paintings Exhibition at Expression Art Gallery Lahore-Pakistan	
<b>Group Show</b>	<b>2013</b>
Annual Punjab Arts Association Exhibition Lahore-Pakistan	
<b>Group Show</b>	<b>2012</b>
Faculty Exhibition at BZU Multan-Pakistan	
<b>Group Show Quaid's Day</b>	<b>2012</b>
Minhas Art Gallery, GC University, Lahore-Pakistan	
<b>Group Show</b>	<b>2012</b>
Minhas Art Gallery GC University Lahore – Pakistan.	

### 2.3.2 PROCEEDINGS

1. Hasan, S.S., Ahamd,A.,&Ajmal,A. (2012). Preoperational and Concrete Operational Stages in Pakistani Children: A Confirmation and Critique of Piaget's Stage Theory of Cognitive Development. Proceedings of the First International Conference on Developmental Psychology.66-76
2. Rabbani, A. & Hasan,S.S. (2012). Internalizing and externalizing problems of orphan and non orphan adolescents. Proceedings of the First International Conference on Developmental Psychology.98-107

3. Bernstein wave in a Relativistic Plasma with arbitrary energy anisotropy Presented at the International Workshop on Plasma Science COMSTECH, Islamabad Nov19-21,2012 (M. Fraz Bashir, Naila Noreen, Imama Tahir and G. Murtaza)
4. Linear Kinetic Theory for a magnetized non-relativistic Bi-Maxwellian Plasma and Its application to R- and L- Waves & Alfvénic Modes Presented at the International Workshop on Plasma Science COMSTECH, Islamabad Nov19-21,2012 (G. Murtaza and M. Fraz Bashir)
5. New Longitudinal waves in an electron-positron-ion quantum plasmas Presented at the International Workshop on Plasma Science COMSTECH, Islamabad Nov19-21,2012 (Azhar Hussain, N.L. Tsintsadze, L.N. Tsintsadze, A. Hussain, and G. Murtaza)
6. Kinetic Alfvén Waves in an Inhomogeneous Bi-Maxwellian Plasma Presented at the International Workshop on Plasma Science COMSTECH, Islamabad Nov19-21, 2012 (Hafsa Naim and G. Murtaza)
7. Some Recent Developments in the World of Physics 13th National Symposium on Frontiers in Physics, 19-21 December 2012, University of Peshawar, Peshawar, (Dr. G. Murtaza)
8. The Many Faces of Bernstein Wave, International Scientific Spring at National Centre for Physics, Islamabad, Pakistan, March 11-15, 2013,(**Dr. G. Murtaza** and Fraz Bashir)
9. The Bernstein Waves and their Applications, International Nathiagali Summer College on Physics and Cotemporary Needs 24-06-2013 to 06-07-2013, Nathiagalee, Pakistan, (**G. Murtaza** and Fraz Bashir)
10. Flow of a fractional Oldroyd-B fluid over a plane wall that applies a time-dependent shear to the fluid, Constantin Fetecau, Nazish Shahid, Masood Khan 'American Institute of Physics Conference'

### 2.3.3 BOOKS

The following books of the faculty of GC University Lahore were published during the year 2012-2013

**Prof. Dr. Zahir Ahmad Siddiqi:**  
**Distinguished Professor**  
**Department of Persian**

- 1) Deen-o-Adab Aur Fikr-o-Fun Iran Mein (2013)
- 2) Tashakhus-e-Pakistan Aur Farsi Adab (2013)
- 3) Tasawwuf Jadid Muashray Mein (2013)
- 4) Farsi Adbiyat Kay Chand Pehlu (2013)
- 5) Allama Iqbal Aur Farsi Adab (2013)

**Prof. Dr. Mazhar Mahmood Shairani:**  
**Research Supervisor**  
**Department of Persian**

- 1) Yaadgar-e-Manzoor (2013)

## 2.4 CONFERENCES, SEMINARS AND WORKSHOPS

S#	Conferences/Seminars/Workshops
1.	Mental Health Week organized by Psychology Department from 04-03-2013 to 08-03-2013
2.	Biological Society of GCU, Lahore organized to display a movie "Gifted Hands" on 1st January 2013, which was appreciated by all students and members.
3.	One week Workshop entitled "Prevention and Control of Dengue Vectors" arranged by Medical Entomology Laboratory, Department of Zoology, GC University, Lahore. Dated: Nov 5-9, 2012.
4.	32 <sup>nd</sup> Pakistan Congress of Zoology (International) arranged by the Department of Zoology, GCU Lahore. Dated: March 6-8, 2012
5.	Department of Zoology has organized evaluation seminars for PhD Students in the month of June, 2012.
6.	Fine Arts Department arranged a Lecture on "African American Art History" in collaboration with U.S Consulate General Lahore on 27 <sup>th</sup> February, 2013 at Department of Fine Arts delivered by Ms. Ellis (Cultural Affair Officer)
7.	Fine Arts Department organized a Ceramic Workshop for One (1) week in collaboration with Punjab Arts Council Lahore in September, 2012 in which students of different colleges and Institutes participated. Later on, the Ceramic Art Pieces displayed at Minhas Art Gallery, Fine Arts Department, GCU Lahore.
8.	Department of Statistics has organized a seminar on Walk-a-Thon with the collaboration of "Hope up Lift Foundation" on November 20, 2012
9.	The Department of Botany organized 2-Days Workshop on Algal Collection and new Trends in Chlorophycota at GC University, Lahore, in collaboration with HEC (Higher Education Commission) & PSF (Pakistan Science Foundation) on 25th-26th Sep., 2012.
10.	The Department of Botany organized One day workshop on Phycoremediation of Heavy Metal Contamination in Lahore on 27th March, 2013
11.	Department of Botany organized a chain of lectures and seminars, on various topics, by renowned old botanists and experts to celebrate completion of 100 years since 1912
12.	The Department of Political Science organized 1 <sup>st</sup> International Conference on Water Management on 9 <sup>th</sup> & 10 <sup>th</sup> January 2013
13.	Institute of Industrial Biotechnology (IIB) organized an International workshop on Industrial Biotechnology at COMSTECH, Islamabad in July 2012.
14.	IIB organized and hosted an international seminar on the "Natural products for Management of Diabetes and its Complications" held in September, 2012.
15.	IIB organized and hosted a seminar on "Recent trends in Biotechnology" held in April, 2013.
16.	IIB organized and hosted a national seminar on "Launching of ISAAA Brief 44" held in March, 2013.
17.	IIB organized and hosted a national seminar on "Enzyme Technology for Bio-Fuel Production" held in January, 2013

18.	The Department of Chemistry has organized “2 <sup>nd</sup> Annual Poster Competition”, Department of Chemistry, GC University Lahore on 25-09-2012
19.	The Department of Chemistry has organized Seminar on “A little outside Chemistry” by Dr. M.H.Haider, Cardiff University, UK on 26-11-2012
20.	The Department of Chemistry has organized Seminar on Sheesha Cafes- A Landmark of Drug Addiction, by S. Z. Hussain, Consultant Anti-Drugs/Narcotics Campaign on 30-11-2012
21.	The Department of Chemistry has organized Three days workshop on Environmental Pollution and Its Health Impact, GC University Lahore. By Dr. Haider Abbas Khwaja, University of Albany, USA on 29-31, December 2012
22.	The Department of Chemistry has organized Seminar on Hepatitis C Virus NS3/4A Protease Inhibitors: Understanding and Avoiding Drug Resistance, by Dr. Akbar Ali, University of Massachusetts Medical School, USA on 09-01-2013
23.	The Department of Chemistry has organized Seminar on DNA a powerful tool as Forensic Evidence” by Mr. M. Mudasir Iqbal, Lecturer Biochemistry Punjab University, Lahore on 21-03-13
24.	The Department of Chemistry has organized Seminar on “Fingerprinting as Forensic Evidence” by Inspector M. Saeed Iqbal, Fingerprinting Expert of Punjab Police on 04.04.13
25.	Sustainable Development Study Centre organized a two-day workshop on “Research Methodology and Biostatistics on Monday, March 11, 2013.
26.	Abdus Salam School of Mathematical Sciences has organized 6th World Conference on 21st Century Mathematics from 6th to 9th March, 2013
27.	Department of Physics organized workshop on Radiation Physics and Reactors in Pakistan on 23-05-2013

## 2.5 RESEARCH JOURNALS

GCU has following 13 research journals published by various departments:

#	Journal	Department	ISSN No.	HEC Category
1	Biologia Journal	Zoology	0006-3096	Z
2	The Economic Journal	Economics	0242-2815	
3	The Explorations	English	0014-4975	
4	The Historian	History	2074-5672	Z
5	The Journal of Islamic Research	Islamic Studies	1996-1669	
6	Journal of Natural Sciences and Mathematics	Mathematics	0022-2941	
7	Journal of Political Science	Political Science	1726-6467	
8	Journal of Prime Research in Mathematics	Abdus Salam School of Mathematical Sciences	1817-3462 (Print) 1818-5495 (Online)	X

9	Journal of Statistics	Statistics	1684-8403	Y
10	Kawish	Persian	1993-9299	
11	Pakistan Journal of Social & Clinical Psychology (PJSCP)	Psychology	1727-4931	Y
12	Quest	Philosophy	1991-945x	
13	Tahqeeq Nama	Urdu	1997-7611	Z

## 2.6 RESEARCH COLLABORATION

GCU Lahore has academic and research collaboration with a large number of universities, industries and organizations of repute.

### 2.6.1 INDIGENOUS

Sr. No.	Department/Centers/ Institutes	Collaborating Institution
1	Centre for Advanced Studies in Physics (CASP)	<ul style="list-style-type: none"> <li>• Plasma Physics Lab QAU Islamabad</li> <li>• Materials Engineering Department, Punjab University, Lahore</li> <li>• Centre for Solid State Physics, Punjab University, Lahore</li> <li>• Department of Physics, University of Engineering and Technology, Lahore</li> <li>• NILOP, PINSTECH</li> </ul>
	Institute of Industrial Biotechnology (IIB)	<ul style="list-style-type: none"> <li>• NIBGE, Jhang Road, Faisalabad</li> <li>• NIAB, Jhang Road, Faisalabad</li> <li>• PCSIR Labs Complex, Ferozepur Road, Lahore</li> <li>• NARC, Chakk Shahzad, Islamabad</li> <li>• National Feeds (pvt.), Ltd., Sheikhpura</li> <li>• Alpha Chemicals, Pattoki</li> <li>• University of Veterinary and Animal Sciences, Lahore</li> <li>• SBS, University of Punjab, Lahore.</li> <li>• Armed Forces Institute of Nutrition (AFIN), Lahore</li> </ul>
3	Chemistry	<ul style="list-style-type: none"> <li>• National Forensic Science Agency</li> <li>• SUPARCO</li> <li>• Shaukat Khanaum Memorial Hospital and Research center</li> <li>• NovaMed Pharmaceuticals (Pvt) Limited</li> <li>• Lahore College for Women University Lahore</li> </ul>
4	Electrical Engineering	<ul style="list-style-type: none"> <li>• Institute for Communications Engineering and RF-Systems, Johannes Kepler University, Linz, Austria</li> </ul>
5	Philosophy & interdisciplinary studies	<ul style="list-style-type: none"> <li>• Awaz Foundation</li> <li>• National Commission for Justice and Peace</li> <li>• Rahnuma-Family Planning Association of Pakistan</li> </ul>



6	Botany	<ul style="list-style-type: none"> <li>• Agriculture University, Peshawar</li> <li>• Bunyad Foundation, Lahore, Pakistan</li> <li>• BZ University, Multan</li> <li>• Dendrochronological Lab., Urdu University, Karachi, Pakistan</li> <li>• Environmental Protection Department (EPD), Lahore, Pakistan</li> <li>• Higher Education Commission Islamabad, Pakistan</li> <li>• Karachi University, Karachi</li> <li>• Khair-pur University</li> <li>• Ministry of Science and Technology, Pakistan, Islamabad</li> <li>• NIAB, Faisalabad</li> <li>• National History Museum, Islamabad</li> <li>• NIBGE, Faisalabad</li> <li>• NIFA, Peshawar</li> <li>• PCSIR Laboratories, Lahore</li> <li>• PFI, Peshawar</li> <li>• Punjab Small Industries Corporation (PSIC) Lahore, Pakistan</li> <li>• University of Agriculture, Faisalabad</li> <li>• Urdu University Karachi</li> <li>• Weed Science Society of Pakistan, Peshawar</li> <li>• Punjab Seed Corporation</li> <li>• Pakistan Science Foundation</li> <li>• NARC Islamabad (National Herbarium)</li> </ul>
7	Zoology	<ul style="list-style-type: none"> <li>• Fisheries Department Govt. of the Punjab</li> <li>• Lahore Zoo, Lahore</li> <li>• Health Services Academy (HSA) Ministry of Health, Islamabad</li> <li>• Department of Microbiology and Molecular Genetics, PU Lahore</li> </ul>
8	Abdus Salam School of Mathematics (ASSMS)	<ul style="list-style-type: none"> <li>• National University of Computer and Emerging Sciences (NU-FAST), Peshawar</li> <li>• Bahauddin Zakaria University, Multan</li> <li>• National University of Computer and Emerging Sciences (NU-FAST), Lahore</li> <li>• COMSATS Institute of Information Technology, Lahore</li> <li>• COMSATS Institute of Information Technology, Abbotabad</li> <li>• Shah Abdul Latif University, Khairpur</li> <li>• FC College (A chartered University) Lahore</li> <li>• GC University, Faisalabad</li> <li>• National university of Science &amp; Technology (NUST), Rawalpindi</li> <li>• Institute of Business Administration, Karachi</li> <li>• University of Gujrat, Gujrat</li> </ul>

		<ul style="list-style-type: none"> <li>• University of Education, Lahore</li> </ul>
9	Psychology/ Clinical Psychology Unit	<ul style="list-style-type: none"> <li>• AFAQ, Baksh Group, Literacy &amp; Non-formal Basic Education Project, GOP, PTCL, Cinnova International, Marhaba Labs, PTCL, Tetrapak, Labour Department, GOP, Bank of Punjab, WAPDA, TRG International, the University of the Punjab, Shakargang Suger Mills, Bank of Punjab and World Call.</li> <li>• Fountain House Lahore</li> <li>• Punjab Institute of Mental Health Lahore</li> <li>• Psychiatric units of:</li> <li>• Services Hospital Lahore</li> <li>• Mayo Hospital Lahore</li> <li>• Ganga Ram Hospital Lahore</li> </ul>

## 2.6.2 FOREIGN LINKAGES

Sr. No.	Department	Collaborating Institution
1	Centre for Advanced Studies in Physics (CASP)	<ul style="list-style-type: none"> <li>• Research collaboration with Dr. R S Rawat, NTU Singapore.</li> <li>• Research collaboration with Dr. J S Pan, IMRE Singapore.</li> <li>• Technical University, Vienna, Austria,</li> </ul>
2	Political Science	<ul style="list-style-type: none"> <li>• ZEF Boon University</li> <li>• United Nation University (Canada)</li> </ul>
3	Institute of Industrial Biotechnology (IIB)	<ul style="list-style-type: none"> <li>• Cornell University, Ithaca, New York, USA</li> <li>• Institute of Microbiology Hebei Academy of Sciences, Shijiazuang, China</li> <li>• Hebei Research Institute of Microbiology, HRIM, Baoding, China</li> <li>• The Chouaib Doukkali University, El Jadida, Morocco</li> <li>• University of California, Los Angeles, USA.</li> <li>• Iowa Sate University, Ames Iowa, USA</li> <li>• Sanford Burnham Medical Research Institute, Orlando, USA.</li> <li>• Harvard Medical School, Boston, USA.</li> </ul>
4	Chemistry	<ul style="list-style-type: none"> <li>• University Kebangsaan Malaysia</li> <li>• University of Massachusetts Medical School, USA</li> <li>• University at Albany, USA</li> <li>• University Malaysia Pahang, Malaysia</li> </ul>

5	Botany	<ul style="list-style-type: none"> <li>• Botanic Gardens Conservation International (BGCI)</li> <li>• Earth Conservation, Columbia University, New York USA</li> <li>• Gondwana Tree-Ring Laboratory New Zealand</li> </ul>
6	Abdus Salam School of Mathematical Sciences (ASSMS)	<ul style="list-style-type: none"> <li>• Steklov Institute of Mathematics, Moscow, Russia.</li> <li>• University of Nice, Nice, France.</li> <li>• University of Lille, Lille, France.</li> <li>• Royal, Swedish Institute of Technology, KTH, Stockholm, Sweden.</li> <li>• Universidad Nacional Autonoma de Mexico, Mexico.</li> <li>• Courant Institute of Mathematical Sciences, USA.</li> <li>• Central Washington University, USA.</li> <li>• University of Washington, USA.</li> <li>• Mathematical Institute, Praha, Czech Republic.</li> <li>• University of Dortmund, Germany.</li> <li>• Technical University, Košice, Slovak Republic.</li> <li>• Universitetet i Oslo, Oslo, Norway.</li> <li>• Renyi Institute of Mathematics, Hungarian Academy of Sciences, Budapest, Hungary.</li> <li>• A. Razmadze Mathematical Institute of the Georgian Academy of Sciences, Georgia.</li> <li>• St. Petersburg Electrotechnical University, St. Petersburg, Russia.</li> <li>• Institute of Productive Learning, Berlin, Germany.</li> <li>• West University of Timișoara, Timișoara, Romania.</li> <li>• Belorussian State University of Informatics and Radioelectronics, Minsk, Russia</li> <li>• University of Liverpool, UK.</li> <li>• Universitatea de Științe Agronomice și Medicină Veterinară, "Ion Ionescu de le Brad" Iași, Romania.</li> <li>• Kathmandu University, Kathmandu, Nepal.</li> <li>• University of Tbilisi, Tbilisi, Georgia.</li> <li>• Martin-Luther University Halle, Halle, Saale, Germany.</li> <li>• University of Hamburg, Hamburg, Germany.</li> <li>• Universitas Jember, Indonesia.</li> </ul>

		<ul style="list-style-type: none"> <li>• Institute of Mathematics, Tashkent, Uzbekistan.</li> <li>• Batumi State University, Georgia.</li> <li>• B.P. Hasdeu, National College, Buzau, Romania.</li> <li>• “Gh. Asachi” Technical University of Iasi, Iasi, Romania.</li> <li>• Airlangga University, Indonesia.</li> <li>• Hebei Normal University, Shijiazhuang, China.</li> <li>• Institute of Mathematics and Information Technologies of Uzbek Academy of Sciences, Tashkent, Uzbekistan.</li> <li>• Universitas Islam Malang, Malang, Indonesia.</li> <li>• <i>Centre International de Mathématiques Pures et Appliquées</i>, France.</li> <li>• A. I. Herzen State Pedagogical University of Russia, Russia.</li> <li>• University of Craiova, Craiova, Romania.</li> <li>• Fachbereich Mathematik und Informatik, Universität-GHS Essen, Germany.</li> <li>• Fachbereich Mathematik, Universität Kaiserslautern, Germany.</li> <li>• St.-Petersburg State University, St. Petersburg, Russia.</li> <li>• Jacob University, Bremen, Germany.</li> <li>• Russian State Herzen Pedagogical University, Russia.</li> <li>• University of Paris, Orsay, France.</li> <li>• Institute of Mathematics, Romanian Academy, Bucharest, Romania.</li> <li>• The Abdus Salam International Centre for Theoretical Physics, ICTP, Trieste, Italy.</li> <li>• The Institute of Mathematics of Vietnamese Academy of Science and Technology, Vietnam.</li> <li>• Institut Teknologi Bandung, Bandung, Indonesia.</li> <li>• Societatea de Științe Matematice din România.</li> <li>• Kent State University, USA.</li> <li>• Universitas Padjadjaran, West Java, Indonesia.</li> <li>• Romanian Mathematical Society, Bucharest, Romania.</li> <li>• Institute of Mathematics "Simion Stoilow" of</li> </ul>
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		<p>the Romanian Academy, Bucharest, Romania.</p> <ul style="list-style-type: none"> <li>• Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Sofia, Bulgaria.</li> <li>• Technical University of Civil Engineering, Bucharest, Romania.</li> <li>• Faculty of Textile Technology, Zagreb, Croatia.</li> <li>• “Constantin Brâncuși” University of Târgu-Jiu, Romania.</li> <li>• Fuzhou University, China.</li> <li>• Inner Mongolia University of Nationalities, Tongliao, China.</li> <li>• University of Bucharest, Romania.</li> <li>• The Société Mathématique de France, SMF, France.</li> <li>• National University of Computer &amp; Emerging Sciences, FAST, Lahore, Pakistan.</li> <li>• Universiti Sains Malaysia, Penang, Malaysia.</li> <li>• Waseda University, Tokyo, Japan</li> <li>• University Putra Malaysia, Malaysia</li> <li>• Universität Duisburg-Essen, Germany</li> <li>• Tufts University, Medford, USA</li> <li>• Sobolev Institute of Mathematics, Russia</li> <li>• Kinki University Iizuka, Fukuoka, Japan</li> <li>• University of Warsaw, Poland</li> <li>• Universität Basel-Switzerland</li> <li>• Doshisha University, Kyoto-fu, Japan</li> <li>• Université Pierre et Marie Curie Paris, France</li> <li>• Universidad Nacional Autónoma de México, México</li> <li>• Université de Lille I, Cédex, France</li> </ul>
7	Zoology	<ul style="list-style-type: none"> <li>• University of Michigan USA</li> <li>• Institute of Tropical Medicine Antwerp 155, B 2000 Antwerp Belgium</li> </ul>
8	Arabic & Islamic Studies	<ul style="list-style-type: none"> <li>• Al-Azhar University (Egypt)</li> <li>• Muslim University Aligarh (India)</li> <li>• University Birmingham, (UK)</li> <li>• Loyla University, Chicago (USA)</li> </ul>

One Month Collaborative Research Visit of Dr. Shazia Bashir, Associate Professor, Centre for Advanced Study in Physics (CASP) to Technical University Vienna from 3<sup>rd</sup> September to 5<sup>th</sup> October 2012.

## **2.7 FUNDING GRANTS FOR R&D**

GC University allocates fairly large sum of money for the research projects of all departments and the allocation has been substantially increased over the years. This year GC University research allocation is Rs. 6.5 Million in addition to the research grants given by HEC, the Science Foundation, PTCL and other agencies. Consequently, we have managed to constantly improve the quality of research work in physical and social sciences besides increasing the scope of research activities.

There are various sources of grants and funds for carrying out Research and Development activities in the University. These sources include:

- GCU internal research funding
- Funding agencies like HEC, Ministry of Science & Technology; Pakistan Science Foundation; British Council, DAAD, etc.
- Research partnership with national and international universities; research institutions; industries and organizations, etc.

## **2.8 DIRECTORATE OF RESEARCH, INNOVATION & COMMERCIALIZATION**

HEC has taken the initiative of establishing Office of Research, Innovation & Commercialization (ORIC) in HEIs to enhance capacity of academic intuition to manage all research issues. In pursuit to this GC University, Lahore established Office of Research Innovation & Commercialization (ORIC) in January, 2012 to promote the research culture in the University.

The main purpose of the ORIC is to develop, expand, enhance and manage the University's research programmes. The ORIC is also responsible for assuring that the quality of research reflects the highest international standards and advances the stature of the University among the world's best research institutions.

### **FUNCTION OF ORIC**

- Formulating GCU policy and implementation strategies for research and innovation.
- Coordinating and supporting national and regional research and innovation programmes.
- Improving quality of GCU research journals / publications.
- Creating uniformity, transparency and internal efficiency in prioritizing, planning, implementing and monitoring research projects at GCU.
- Developing procedures for approval, control and monitoring of research projects.
- Identifying and locating research funds and providing assistance to academic staff for preparing and sending research proposals to national and international funding agencies.
- Improving and ensuring quality of research produced by faculty, researchers and students of GC University, etc.

- Coordinating advisory services of the University for the benefit of the Government departments and industries.
- Commercialization of research results/ products.
- Arranging evaluation of research publications of faculty members and publishing of research journal of the University.
- Providing recommendations and suggestions to Advanced Studies and Research Board (ASRB) on regular basis.

### **July 2012 - June 2013**

ORIC has played its role in faculty development and promoting research culture in the university by taking following steps:

1. The faculty members who get registered for PhD degree without availing study leave were given a stipend of Rs. 15000/- per month out of its research funds.
2. Allocated an amount of Rs. 1460,000 to PhD scholars to facilitate their research work.
3. Awarded an honorarium of Rs. 10, 000/- to the Principal Author in case a research paper is published in an International Research Journal (ISI recognized) with impact factor.
4. Awarded an honorarium of Rs. 5000/- to the Principal Author in case a research paper is published in an HEC recognized National Research Journal.

## Chapter-3: QUALITY ASSURANCE

### 3.1 IMPACT OF QUALITY ASSURANCE IN THE UNIVERSITY

The impact assessment is a continuous process to help think in order to weigh various options for achieving the desired outcomes and to understand the consequences of the intervention. This is used as an effective tool to assess and present the benefits, strengths and weakness of the intervention after it has been implemented.

The HEC over the course of last six years took a landmark initiative/reform in the form of Quality Assurance Mechanisms by establishing 84 Quality Enhancement Cells (QEC) both in public and private sector universities. The Quality Assurance Agency – Higher Education Commission, Pakistan through the QECs have been instrumental in facilitating not only in developing but implementing as well. The QEC at Government College University Lahore is a dedicated team tasked with implementing Quality Assurance Mechanisms in accordance with Self Assessment Manual (SAM) and Quality Assurance Manual (QAM).

The Self Assessment Manual (SAM) was first implemented in 2006 when QAA – HEC selected 10 universities in Phase - I of its intervention and later in 20 universities of Phase – II. Therefore QEC at Government College University Lahore was established in March 2007 as part of Phase-II.

After the implementation of SAM & QA mechanisms it was decided that Impact Assessment should be carried out in order to gauge the impact of this exercise not only in teaching departments but also in administrative departments, to ascertain whether the QA mechanisms were in place and strictly adhered to or not. The HEC eligibility criteria for hiring/appointing, promoting the faculty on *BS/TTS, Foreign Faculty Hiring Programme* was followed in letter and spirit. The admissions to MPhil & PhD are done in accordance with HEC guidelines to ensure quality. The scheme of study for BA/BSc (Hons) is being followed where students are exposed and allowed to take trans-disciplinary and interdisciplinary courses. The QAA and QEC have been instrumental in streamlining the following:

1. Programme Specifications
2. Job Descriptions
3. Faculty evaluation and its impact
4. Adherence to eligibility criteria for hiring faculty member in BS/TTS and FFH programme
5. Course files are in order and updated everyone academic, session and semester
6. Self assessment exercise is completed in 22 programme of BA/BSc (Hons) where strengths and weaknesses have been identified.
7. The Programme Team is now preparing SAR in 10 programmes of MS/MPhil.



8. The course evaluation was conducted only in those departments where SAR was being made. Now Proforma 1 & 2 of QA manual are now being filled by all departments for all courses and all programmes. The analysis result of which will help the departments in identifying the deficiencies associated with teaching and learning framework and improve the programmes, courses and teaching methodology subsequently.
9. The faculty members have also linked quality assurance to increased heavy administrative workload. The academic staff and students had a myopic view in the nascent stage of QEC, but they have become supporters of Quality Assurance in terms of provision of professional development programmes conducted at institutional, HEC and international level.

There is a clear impact in the way Quality Assurance and its implications are seen at the national and HEC level. The Government College University Lahore has spent lot of time, resources in carrying out self assessment exercises, preparing for external reviews i.e. PhD Review, Institutional Performance evaluation Review (IPER), HEC Ranking, Analysis of faculty evaluation etc.

At the institutional level, there has been a progressive and positive impact on valuing of teaching and research as a core function of university. There have been various modes of assessing academic staff. The faculty members and the students reported some interesting changes that took place within the teaching and learning framework.

The policy guidelines and quality framework was setup where it was explained that quality work be understood as a combination of external and internal consistency, where external consistency was conceived as capacity of institution to respond effectively to a set of external requirements or demands from the disciplinary, academic or professional fields, social needs, various regulations and placement of our graduates. Whereas, internal consistency meant the capacity of an institution to translate its response following its guiding principles established in vision and mission statement. Quality Assurance follows a 'fitness for purpose' approach where the institution fulfils students needs and requirements for better learning outcomes. Keeping into account both internal and external consistencies the QA mechanism identified there major dimensions for assessing the impact of Quality Assurance:

1. Impact at the Higher Education level
  - Institutionalization of Quality Assurance
  - Information systems for HEC (Ranking, UPR, IPE Review, Faculty Evaluation etc.)
  - Internationalization (Linkages, PhD scholarships, Post doc, Student Sxchange, Conferences, Professional advanced Trainings, Turnitin etc.)
  - Awareness and capacity building of faculty members through various professional development programmes

2. Institutional Administration
  - Institutionalization of Quality Assurance mechanisms
  - Development of teaching and learning framework
  - Management, governance and education
  - Management of teaching (Classroom management, Teaching Methodology, Peer Reviews etc.)
  - Management of Academic Staff (Area of Interest, expertise, workload and other responsibilities/duties assigned from time to time)
  - Administrative and financial management
  - Participation/membership of external stakeholders in Board of Studies, Academic Council, Selection Board, Syndicate etc.)
3. Teaching Practices
  - Defining expected learning outcomes, scheme of study, division and completion of credit hours
  - Information on student progress
  - Assessment of learning both formative and summative through the entire Semester and Programme
  - Teaching Strategies

Hence there is a general consensus that there is an incremental concern about quality probably as a result of increased access to higher education which was very limited in the past. Quality Assurance processes have led to an increased awareness of the need to address quality issues explicitly. There can be seen an improvement in curricula and study plans and an increase in faculty members with the higher terminal degree.

### **3.2 QUALITY ENHANCEMENT CELL**

Quality Enhancement is defined as strengthening, augmenting, boosting, elevating or improving existing practices. It involves the development of University Teaching, with lectures undertaking postgraduate certificate programmes in teaching or academic practice.

Quality Enhancement Cell (QEC) at GCU was established in March 2007 with a mission “to integrate the concept of quality education in higher learning with enhanced levels of international compatibility through capacity building”. The main focus of quality assurance programme is continuous professional development of **staff, Self Assessment Report, academic audit and assessment of the academic and administrative departments working within the Quality Assurance (QA) framework.**

The purpose of all the activities carried out by QEC is to focus on improvement of academic and administrative standards and be a part of the loop of Continuous Quality Improvement (CQI) which entails more than just meeting set standards; it often requires exceeding them.

1. The Vice Chancellor, Government College University Lahore nominated Director - QEC as HEC focal person for:
  - Turnitin (Anti Plagiarism Software)
  - Pink Ribbon Awareness Campaign
2. The competent authority at Higher Education Commission of Pakistan, nominated Director - QEC as:
  - Member of Institutional Performance Evaluation Review Panel
  - Resource Person for QECs
3. The Director - QEC gave training to the faculty members of the Bahria University, Islamabad and was also directed by the Managing Director - QAA, HEC to train the representatives from 'W' category private sector Higher Education Institutions (HE'Is) of Pakistan.
4. In recognition of the work carried out by QEC since its inception, the HEC–Pakistan established a **Continuous Professional Development Centre (CPDC)** at GCU by making Director QEC as the Project Coordinator.
5. The Quality Assurance Agency at Higher Education Commission Pakistan assesses the progress of the Quality Enhancement Cells established in the public / private sector Universities through quantitative / scorecard system. In this regard as per the latest quantitative assessment, QEC at GC University Lahore has obtained total score of 84% for the period ending December 31, 2011. Prof. Dr. Azam Ali Khwaja Managing Director -Quality Assurance Agency (QAA), Higher Education Commission Pakistan has appreciated the efforts of QEC at GCU Lahore.
6. The Higher Education Commission, Pakistan nominated Director QEC as Resource Person for training of principals of affiliated college –Project of World Bank DLI4

### **3.3 MEMBERSHIP OF ASSOCIATIONS/NETWORKS**

Indeed, it is important, but currently, we do not have membership with any associations and Networks.

### **3.4 ACCREDITATION OF PROGRAMMES FROM RELEVANT COUNCILS**

- The Pakistan Engineering Council (PEC)Accredits the BSc ( Hons) Engineering Programme
- National Computing Education Accredits the BSc (Hons) Computer Science Programme

## Chapter-4: FACULTY DEVELOPMENT

### 4.1 FACULTY DEVELOPMENT PROGRAMMES (MS/PhD LOCAL + FOREIGN)

GC University Lahore is facing challenges in the field of faculty development, as merely 49% of GCU teaching faculty is holding PhD degree which is not sufficient for meeting the academic and research challenges faced by the University. Thus, a comprehensive 'Faculty Development Programme' of Rs. 234.117 Million has been submitted to the HEC for meeting the staff development needs of GCU for a period of eight (08) years. Under this programme, 28 faculty members, including 18 members from sciences and 10 from arts and social sciences shall be given scholarships for pursuing their doctorate degree in leading foreign universities. In addition, 15 staff members shall be facilitated while providing scholarships for training in modern management techniques from abroad.

### 4.2 RETURNED SCHOLARS

Following scholars have completed their studies and returned in 2012-2013:

Name of University/ Scholarship	NAME	Department	Designation	Country	Start Date	End Date
Overseas scholarship for Ms/M.Phil leading to Phd Phase-II	Dr. Tanzeem Akbar Cheema	Botany	Lecturer	Thailand	01-OCT-07	14-MAY-13
University of Singapore	Dr. Hussain Ahmad Khan	History	Lecturer	Singapore	28-JUL-08	13-DEC-12
Coventry University UK	Tahir Mahmood	History	Assistant Professor	UK	01-FEB-05	05-NOV-12
10% Overseas Scholarship Scheme for Master leading to PhD	Dr. Sajjad Ali Khan	English	Assistant Professor	UK	09-JAN-08	01-NOV-12
Overseas scholarship for Phd in selected fields Phase-II, Batch-I	Dr. Fazeel Mahmood Khan	Physics	Lecturer	Germany	17-SEP-07	16-SEP-12

#### 4.3 PRESENT SCHOLARS

Following faculty members started their study in 2012-2013:

Name of University / Scholarship	Name	Department	Designation	Country	Start date
Quaid-E-Azam University Islamabad	Naila Pervaiz	History	Lecturer	Pakistan	22-Feb-13
Medical University Of Vienna	Muhammad Imran Sohail	Zoology	Lecturer	Austria	19-Nov-12
University of Punjab, Lahore	Farzana Arshad	History	Assistant Professor	Pakistan	Sept, 2012
Cornell University, Ithaca, New York (HEC Scholarship for 6 months)	Ms. Uzma Hameed	IIB	Lecturer	USA	Sept, 2012
Thammasat University Bangkok	Muhammad Kashif Ali Shah	Statistics	Lecturer	Thailand	7-May-12
Thammasat University Bangkok	Nighat Zahra	Statistics	Assistant Professor	Thailand	7-May-12

#### 4.4 PRE-SERVICE AND IN-SERVICE PROFESSIONAL DEVELOPMENT PROGRAMMES

The Quality Enhancement Cell has been organizing Professional Development and capacity Building for the Faculty Members and Staff Members of the Government College University Lahore

The capacity building and in service teachers' training details are as follows.

#	Training Programmes / Seminars / Capacity	Date	No of Participants
1.	Orientation to Top Position Holders 2012	Jun 28-20, 2013	40
2.	Breast Cancer Awareness Campaign	Oct 11, 2012	500
3.	Faculty Development Programme for Newly Inducted Teachers	Sep 03-06, 2012	25
4.	Training Sessions for Focus Group-III (Self-Assessment Report)	Nov 2009-till to date	30

- Dr. Dilara Abbas Bukhari, Assistant Professor of Zoology, selected for the award of “Post Doctorial Fellowship phase II (Batch V)” by HEC, Islamabad for nine month scholarship and she left for Molecular Biosciences, Washington State University, USA to complete her post doctoral studies dated: 18-12-2012.
- Dr. Syeda Shahida Batool, Assistant Professor of Psychology Department completed her Post Doctorate from Sussex, UK.
- Dr. M. Zahid Quershi visited Brunel University of London, UK and completed Post Doc. From 07-05-2012 to 05-05-2013.
- Dr. M. Jahangir visited University of Massachusetts, USA and completed Post Doc. from 16-04-2012 to 15-04-2013.
- Dr Muhammad Mohsin Javed, Associate Professor, IIB went to USA in October, 2012 to pursue Fulbright Post-Doctoral Fellowship at the University of California, Los Angeles and Iowa State University, Ames, Iowa, USA.
- Dr Muhammad Nauman Aftab, Assistant Professor, IIB went to USA in November, 2012 to conduct research under HEC Postdoctoral Fellowship at Sanford Burnham Medical Research Institute, Orlando, Florida.

#### **4.5 ACHIEVEMENTS OF FOREIGN FACULTY**

The foreign faculty of ASSMS has 106 publications to its credit plus successfully supervised 20 PhD students till completion in year 2012-13. Foreign faculty also trained the Pakistani national team for International Mathematical Olympiad, IMO and the team won Silver Medal. They also organized workshops for professional enhancement of Pakistani university faculty.

## Chapter-5: ACCESS

### 5.1 BASIC ENROLMENT

GCU is catering needs of more than 10,000 students at present. In 2012, total student strength was 9451; of which 20% of population represented intermediate students, whereas 80% students were enrolled in undergraduate and postgraduate study programmes. 73% students were registered in undergraduate programmes, 16% in MS/MPhil and 7% were doing their PhD. The detail of total students strength is as follows:

Programme of Study	Male	Female	Total
Undergraduate (BA/BSc Hons/ BSCS/BSc Engg.)	3295	2092	5387
MA/ MSc	133	62	195
MS/ MPhil	426	736	1162
PhD	265	224	489
Certificates	46	26	72
<i>Sub – Total</i>	<i>4165</i>	<i>3140</i>	<i>7305</i>
Intermediate	2146	-	2146
<b>Total</b>	<b>6311</b>	<b>3140</b>	<b>9451</b>

The detail of student enrolment under various Academic programmes in 2012-13 is as follows:

#	Item	Year 2012
1	Certificates	91
2	Intermediate	1149
3	BA/BSc (Hons)	1385
4	MA/MSc	138
5	MS/MPhil	835
6	PhD Scholars	50
	<b>Total</b>	<b>3557</b>

### 5.2 EQUITY

Admission to various classes in GCU is granted on merit strictly and in accordance with the rules and regulations policies and procedures of the University. In 2012, the students' distribution as per provinces in various programmes was as follows:

Province	BA/BSc		MS/MPhil		Total	
	M	F	M	F	M	F
<b>Punjab</b>	507	391	303	424	810	815
<b>FATA</b>	16	1	1	-	17	1
<b>Sindh</b>	31	2	1	-	32	2

<b>KPK</b>	32	1	4	3	36	4
<b>Balochistan</b>	32	2	4	-	36	2
<b>AJK</b>	-	-	1	-	1	0
<b>Northern Areas</b>	2	-		-	2	0
<b>Total</b>	<b>620</b>	<b>397</b>	<b>314</b>	<b>427</b>	<b>934</b>	<b>824</b>

### 5.3 GENDER- WISE DETAIL

At University level 57% of student population is of males and 43% are females. Programme-wise distribution of male and female student is reflected in above mentioned tables.

### 5.4 EMPLOYABILITY

The Career Guidance and Placement Centre of GC University Lahore is looking after the employment matter of GCU graduates. For this purpose, on-campus recruitment sessions, training and workshops and job fairs are regularly organized by this Centre. In 2012-2013, the CG&PC provided job opportunities to 70 graduates and internship opportunities to 470 students. Similarly, formal and information partnerships of teaching departments with various organizations and industries provide ample opportunities for internship and job placement.

### 5.5 FACULTY – STUDENT RATIO

During the reported period, the faculty to student ratio at GCU was 1:23. GCU has a serious need of hiring qualified and experienced teaching faculty so that to provide quality education to students at undergraduate and postgraduate level.



## Chapter-6: UNIVERSITY BUILDING ECONOMIES

### 6.1 UNIVERSITY-INDUSTRY LINKAGES

GCU is taking a qualitative leap forward by developing strong linkages with industry through general support, contract research, research centers and institutes, research consortium, industrial affiliate programmes and new business incubators and technology parks. The purpose of the collaboration with various local and foreign universities and institutions is to ensure the training of our faculty members and young scholars in interdisciplinary research methods and theoretical approaches. GCU is actively looking forward for more active foreign collaborations and funding for its faculty development programme and research projects. GCU Lahore has a regular liaison with various industries and corporates sector since its establishment in 2002.

For promotion of research, students' job placement, internship; research work and resource sharing GCU has signed a number of MoUs/ Agreements with industries and corporate sector. To name a few Lahore Chamber of Commerce and Industry, Pakistan (2004); Pakistan Pharmaceutical Manufacturers Association (PPMA), Punjab (2004); Small and Medium Enterprises Development Authority (SMEDA), Lahore (2008); Punjab Small Industries Corporation (2008); R.L. Enterprises (Pvt.) Ltd (2009) State Bank of Pakistan (SBP) Banking Services Corporation, Lahore (2009) Descon Chemicals (Pvt.) Ltd (2009); Perfect Dynamics, Lahore (2011); Technology Exchange and Corporation (Pvt.) Ltd. (2011); Emblem Technology (Pvt.) Ltd. , Lahore (2011); Selinks, Lahore (2011) and NovaMed Pharmaceutical (Pvt.) Ltd, Pakistan (2013).

Industry consultancy projects of Management Studies with Coca Cola (2004), Guard Rice (2005), Interwood (2005), and Pepsi Cola (2005); Seismological studies research project of Botany Department in collaboration with Gondwana Tree-Ring Laboratory, New Zealand (2008-2010), research projects of Chemistry Department on "Production and Application of Humic Acid and its Variants" in partnership with R.L. Enterprises (2009-2010) and a feasibility Study on "Extraction of Essential Oils from Fragrant / Aromatic Plants funded by Punjab Small Industries Corporation – PSIC (2009-2010) are few successful examples.

Similarly research projects of Psychology Department funded by Lilly Pharmaceuticals Ltd, Pakistan on "*Effects of Duration of Untreated Psychoses (DUP) on Cognition and Emotion Recognition in Patients on First Episode Psychoses (FEP) – Phase-II* (2009-2010) are few examples of industrial and corporate sector involvement in promotion of research at GCU Lahore.

### 6.2 PATENTS

Muhammad Akhyar Farrukh, Assistant Professor, Department of Chemistry, Analytical Grade Salt, US patent filing application No. 13/216,232, Patent No. US 8,273,321 B1, Date of patent issued: 25 September 2012.

### 6.3 INTERNSHIP AND PLACEMENT OFFICE

GC University Lahore has been providing its students with job placement facilities since 2002. The Career Guidance and Placement Centre is dedicated to helping the students to assess their career interests and aptitude. It offers them an opportunity to acquaint themselves with different companies and enterprises to gain an insight into the career options currently available through various workshops and Seminars. The Centre maintains close relationship with industry and business houses.

The Placement Centre is vigorously engaged in locating job opportunities for GCU students in various disciplines. A Placement Strategy has been developed by the Centre to make its substantial efforts more judicious and fruitful for the students. The Placement Centre has adopted the platform of “*Old Ravians Union*” for this purpose and the confidentiality of this data is the prime concern of the Centre.

In order to endorse the placement prospects of the young Ravians, Placement Centre is actively developing linkages of with the industrial establishments for internships, full time or part time jobs, scholarships and financial support, and introduction of market-driven programmes / courses. The Centre is acting as a link between the teaching departments and employers and conduct job fairs, industrial visits, workshop, professional training sessions on resume writing and interview skills and seminars by inviting the renowned educationists and legendary industrialists for the professional exposure of students. In 2012-2013, in total 985 students were benefited from the Placement services, as mentioned below:

S#	Purpose	Student Count
1	Job Placement	70
2	Internships	470
3	Career Guidance	352
<b>Total</b>		<b>892</b>

#### 6.3.1 INSTITUTE OF BUNKERS OF PAKISTAN

Mr. Fayaz Kerawala (Manager Training) The Institute of Bankers Pakistan (IBP) gave a presentation to provide the required banking knowledge to students so that to facilitate them in getting jobs in the banking sector, morethan one hundred (100) students of MBA, BSc (Hons.) Economics and BSc (Hons.) Statistics attended this presentation.

#### 6.3.2 ON-CAMPUS RECRUITMENT BY TECHNOSOFT

The CG&PC arranged a training session in collaboration with Technosoft - a leading software development company with offices in USA and Lahore. This training was arranged for the final year students of BS computer Science Approximately 70 students participated. Technosoft also conducted on-campus recruitment test and collected CVs of the selected students. Technosoft would hire GCU students on completion of their degrees from GCU.

### **6.3.3 THE ECO INTERNSHIP PROGRAMME**

WWF-Pakistan offered 'The Eco Internship Programme' at GCU Lahore and the six (06) sessions long workshop gave students an insight into the eco dynamics and eco challenges of the region. Internship modules were included nature photography, new media, sustainable development, green businesses, green technologies & renewable energies, environmental law, environmental economics, species conservation, water management, and eco designing, and much more. Internship sessions consisted of group work, hands on activities, documentary screenings, interactive discussions, creative challenges and enriching exposure field trip. On successful completion of the Internship, 70 students of GCU got certificate from WWF – Pakistan.

### **6.4 STUDENT COUNSELING AND CAREER GUIDANCE**

The Career Guidance & Placement Center of GC University Lahore aims to work for the enhancement and development of students in terms of academic and scholarly endeavors. It also strives for the placement pursuits of students. The purpose of the center is to provide up-dated and advanced information to the students for their academic and professional development. It also helps the students to make appropriate choices at the right moment and develop insight for appropriate decisions. The Career Guidance Center offers counseling to students to help them identify talents, interests and values in making educated career choices.

#### **6.4.1 OUR OBJECTIVES**

1. To help students make appropriate and realistic career choices and career direction.
2. To guide students to develop their academic career interests in line with their short or long term goals.
3. To manage and give information regarding scholarships.
4. To look for the range of career profiles for students'.
5. To help students prepare for interview and develop their communication skills
6. To organize various activities such as seminars / workshops / lectures / trainings, etc.

#### **6.4.2 OTHERS FACILITIES AT STUDENTS SERVICE CENTRE**

Student Service Centre provides different facilities like Career Resource Library, Computer LAB, Seminar Room, Conference and Symposium Hall, Recruitment Centre, University Bookstore, etc.

#### **6.4.3 CAMPUS COUNSELING SERVICES**

The Campus counseling service is essentially a *self-referral* service open to all students of GCU. These services are aimed at facilitating the personal, academic, and social growth of students and also providing them with potential solutions for their emotional and academic problems. The services are rendered by an appointment both for individual and group sessions. Appointments can be fixed by personally meeting the

counselor or by contacting on the phone. Counseling Services are short term in nature and are provided both at individual and group level. Commonly reported problems are Exam Anxiety, Time Management Issues, Class Presentation Issues, Lack of Motivation, Lack of Study Skills, and Difficulty in Studies, Underachievement, Peer group Difficulties, Adjustment Issues, Stress Temperamental Issues, Relationship Problems, Homesickness, Feelings of Sadness, Limited Social Skills, Anxiety and Stress.

#### **6.4.4 INDIVIDUAL COUNSELING SERVICE**

At the initial assessment meeting every student is interviewed and asked to fill in a generic Problems Checklist, specifically developed for the university students. The students may be asked to fill in other questionnaires if necessary for assessment. Individual session can start immediately which lasts about 60 minutes, and is followed by revision and documentation process which takes half an hour at least. Individual sessions are continued on weekly basis and normally 6-8 sessions are offered to each client. A thorough and regular record keeping is maintained on every student and all data are collated and a monthly report is submitted to the Head of the Clinical Psychology Unit for scrutiny.

Counseling approaches used are focal, short term and active. The techniques used in the service have efficacy demonstrated by research. Cognitive behavioral techniques along with social skills learning in a crisis intervention mould have been found to be very effective. In the Year 2012-2013, almost 120 students were seen in individual counseling sessions.

#### **6.4.5 GROUP COUNSELING**

Group counseling is not only a more efficient way of meeting the ever-growing demand for counseling it is also more effective and more appropriate with a number of problems. The most common of these are Class Presentations, Exam Anxiety, Time Management and Effective Study Skills. The group counseling sessions planned on monthly basis and the schedule is publicized well in advance and students are invited to register for the group of their choice. A typical group consists of 8-10 students with similar problems briefed and assessed at the start of the group session and it may last. A group session lasts for two hours, group preparation takes 4-5 hours and evaluation of the outcomes requires three hours. All formats and the contents of the group counseling session are planned and discussed with the Supervisor. Total 80 students were counseled in group counseling services.

#### **6.4.6 TEACHING AND TRAINING**

Along with the provision of counseling services, teaching is also a part of the services. On regular basis a considerable academic input is given to MS Clinical Psychology Program every year. This includes teaching various areas related to counseling and clinical psychology, to the trainee clinical psychologists of MS Program. Usually workshops are conducted on emotional management, counseling strategies, studies

management, relationship management, various therapies like, solution focused brief therapies, crisis intervention etc.

The success of the service can be gauged by the fact the Campus Counseling Services has been incorporated into the MS in Clinical Psychology training program. The service has generated a lot of interest in the trainee clinical psychologists and this year they have been offered Campus Counseling as an option in the course. Trainees, who opted for the placement in the Campus Counseling Service for a semester, are offered a unique blend of academic and practical services. Regular lectures and workshops on different topics related to student counseling are arranged for them. They are also provided with the practical experience of handling various issues of university students. All the work is supervised by the campus counselor. Throughout the semester, trainees prepare their portfolio and case reports for their final examination. By the end of the semester trainees have to take a written exam as well as a viva of their course in Student Counseling. In the year 2012 five trainees from Clinical Psychology Program opted for student counseling and completed the course successfully.

## **Chapter-7: STRENGTHENING PHYSICAL INFRASTRUCTURE**

### **7.1 DEVELOPMENT PROJECTS (LABORATORIES, LIBRARIES, ETC.)**

#### **7.1.1 UPGRADATION OF LASER FACILITIES, GC UNIVERSITY, SPONSORED BY HEC WITH PROJECT COST RS. 31.887 MILLION**

The Project appreciably upgrade the research level of the various science faculties of the University. It improved the capability of different science groups to conduct high quality research as well as produce trained manpower to serve the Universities, Defense and R&D organization in the country. The equipment procured has been integrated with the existing facilities and know-how will significantly strengthen our Lab for high quality research through their utilization not only by the Science Departments of the University but also by other uses or interested organization such as PEAC, PCSIR, NESCOM, PINSTECH etc. The equipment acquired has multiple uses and utility. It helped to increase enrollment in postgraduate classes of the University.

#### **7.1.2 POWER GENERATION FOR GCU CAMPUS, LAHORE, SPONSORED BY HEC WITH PROJECT COST RS. 39.121 MILLION**

Additional backup electric powers generation with 1850 KVA capacity has been installed. The existing electric power shortfall of 1878 KVA capacity has been bridged. Uninterrupted electric power supply has been achieved during current load shedding from 8-12 hours daily. High-tech sophisticated scientific and research equipment has been kept smooth in operation. Academic, Non-academic and research work continued during load shedding hours without break. Generators backup power supply has been provided during load shedding period for continuous growing work of more than 6000 students in 45 disciplines of 35 departments and about 1000 staff members of the university. The project also provides support to existing D.G. Sets, which were already overloaded and very old.

During 2012-13 the following Labs were established in the Department of Engineering:

1. Control Systems Lab
2. Power Electronics Lab
3. Project Lab

## 7.2 RESEARCH EQUIPMENT

Sr.#	Department	Scientific Instrument /Equipment
1.	Centre for Advanced Studies in Physics (CASP)	<ul style="list-style-type: none"> <li>• Pelletron Accelerator (Main Unit) with two end-stations for:               <ol style="list-style-type: none"> <li>1. PIXE</li> <li>2. Material modification</li> </ol> </li> <li>• Scanning Electron Microscope (SEM) along with accessories</li> <li>• Transmission Electron Microscope (TEM) along with accessories (sample Preparation /EDX)</li> <li>• Scanning Probe Microscope along with accessories</li> <li>• Metallurgical Microscope along with accessories</li> <li>• FTIR with ATR</li> <li>• Micro-hardness Tester</li> <li>• Universal Testing Machine (UTM) (capacity=50KN) Thermostatic Chamber fitted with (UTM 50KN)</li> <li>• Instron, Universal Testing Machine (UTM) (capacity=150KN) along with accessories and thermostatic chamber</li> <li>• RF-Induction Furnace</li> <li>• Nabertherm Muffle Furnace (1800°C)</li> <li>• Diamond Wheel Cutter</li> <li>• Nd:YAG Laser</li> <li>• LIBS System</li> <li>• Excimer Laser</li> </ul>
2.	Geography	<ul style="list-style-type: none"> <li>• Two GPS</li> <li>• Digital in Built GPS Camera</li> </ul>
3.	Institute of Industrial Biotechnology (IIB)	<ul style="list-style-type: none"> <li>• Rotary Vaccume Evaporator</li> <li>• Spray Dryer</li> <li>• Low Pressure Chrometography</li> <li>• Spectrophotometre</li> <li>• Incubator Shakers</li> <li>• Ultra Low Freezers</li> <li>• Centrifuges</li> <li>• High Speed Centrifuge Machine</li> <li>• Sonication Heat Sysytem</li> <li>• Electroporator</li> <li>• Lab Cool</li> <li>• HPLC</li> <li>• Ultra Sonic Water Bath</li> <li>• PCR</li> <li>• Gel Documentation System</li> <li>• Fermentor Bioflo (110)</li> <li>• Fermentor Bioflo (4500)</li> <li>• Fermentor CelliGen (115)</li> <li>• Fermentor (Local)</li> <li>• Freez Dryer With Vacuum Pump</li> </ul>

		<ul style="list-style-type: none"> <li>• Ice Maker Machine</li> <li>• De-Ionization Plant</li> <li>• High Speed Centrifuge Machine</li> </ul>
4.	Chemistry	<ul style="list-style-type: none"> <li>• Single Crystal X-ray Diffractometer</li> <li>• CHNSO Elemental Analyzer</li> <li>• NMR</li> <li>• GC-MS</li> <li>• HPLC (02)</li> <li>• Atomic Absorption Spectrophotometer</li> <li>• FT-IR</li> <li>• FPLC</li> <li>• UV/Visible Spectrophotometers (06)</li> <li>• Gel electrophoresis.</li> </ul>
5.	Botany	<ul style="list-style-type: none"> <li>• Air Suction &amp; Extraction Pump</li> <li>• Auto Clave</li> <li>• Basic Stereo Microscope</li> <li>• Camera Fitted Research Microscope</li> <li>• Centrifuge Machine</li> <li>• Conductivity Meter</li> <li>• Digital Camera</li> <li>• Digital Multimeter</li> <li>• Digital Thermometer</li> <li>• Digital Top Loading Balance</li> <li>• Distillation Apparatus capacity</li> <li>• 4.6 lit metallic</li> <li>• Dry Bath with Heating &amp; cooling</li> <li>• Electric Balance</li> <li>• Electric Heater</li> <li>• Electric Heater</li> <li>• (13 fans with thermostat &amp; oil radiator 2000watt)</li> <li>• Ependorf Mini-spin</li> <li>• Filtration Assembly</li> <li>• Flame Photometer</li> <li>• Laboratory Freezer</li> <li>• Gel Electrophoresis horizontal</li> <li>• Gel Electrophoresis vertical</li> <li>• Glass Distillation</li> <li>• GPS (Global Positioning System)</li> <li>• Hot Plate</li> <li>• Humidifier</li> <li>• Cool Incubator</li> <li>• Incubator Digital Display</li> <li>• IRGA (Infrared Gas Analyzer)</li> <li>• Laminar Flow 4 Feet Vertical</li> <li>• Horizontal Flow Locally fabricated</li> </ul>



		<ul style="list-style-type: none"> <li>• Leaf Area meter</li> <li>• LUX meter</li> <li>• Magnetic Stirrer</li> <li>• Magnetic Stirrer with Hot Plate</li> <li>• Micro Wave Ovan</li> <li>• Microscope (Student)</li> <li>• Microscope Monocoler</li> <li>• Microscope with T.A. System &amp; video camera</li> </ul>
6.	Zoology	<ul style="list-style-type: none"> <li>• Thermocycler,</li> <li>• Gel Documentation System,</li> <li>• Ultra Centrifuge</li> <li>• Ultra Low Temperature Freezer -86 °C / Nano Pure / Ultra purification water</li> <li>• Co<sub>2</sub> Controlled Incubator</li> </ul>

### 7.2.1 PROCUREMENT OF FOLLOWING RESEARCH EQUIPMENT WAS COMPLETED IN 2012-2013

- a. Monochromator
- b. Excimer laser
- c. Ti:Sapphire laser

### 7.3 CONSTRUCTION PROJECTS

#### Ongoing Construction Projects during 2012-13

- a. Feasibility Study and Master Planning of New Campus of GCU, Kala Shah Kaku, Lahore sponsored by HEC with project cost Rs. 23.944 million.
- b. Renovation and Restoration of Historical Building of Main GCU Campus Lahore sponsored by HEC with project cost Rs. 99.486 million.
- c. Renovation / Upgradation of Existing Building GC University Campus, Lahore (Phase-I) sponsored by HEC with project cost Rs. 23.490 million.
- d. Extension in the office of controller of examinations and Provision of additional class rooms

## Chapter-8: STRENGTHENING TECHNOLOGICAL INFRASTRUCTURE

### 8.1 DIGITAL LIBRARY

GCU Library has access to 24 databases. These databases provide an access to more than 25,000 full text e-journals side by side full text accessibility of over 45000 e-books. These databases are accessible at URL: [http://www.gcu.edu.pk/library/s\\_fulljour.htm](http://www.gcu.edu.pk/library/s_fulljour.htm).

The Higher Education Commission has taken a number of initiatives for broadening the reach of Information Technology to meet the IT challenges of the country, especially for the education sector. The Higher Education Commission has recently signed a Memorandum of Understanding with PTCL for the provision of Broadband DSL connections to students, faculty members and administrative staff at substantially subsidized rates at their residence. This DSL facility/service under this MoU offers Broadband connection at 256 kbps, 512 kbps and 1 Mbps with a 30% discount on prevailing PTCL commercial rates against each capacity.

The students, faculty members and staff of university can avail this opportunity and benefit from this exclusive offer. Applicants from the University can apply online through this link, <http://bncc.ptcl.net.pk:88/>. Once the application is submitted by the applicant, it will be forwarded via email to the Registrar of the University for verification. The Registrar will be issued an administrative user id and password by PTCL for this verification purpose. For further information in this connection, please contact the IT Division of HEC through email ([broadband@hec.gov.pk](mailto:broadband@hec.gov.pk)).

The International Monetary Fund (IMF) publishes a range of time series data on IMF lending, exchange rates, and other economic and financial indicators. IMF Electronic Library statistics include PDF access to the print versions of statistical yearbooks and monthly and quarterly updates. The IMF Government Finance Statistics contains statistical data on government financial operations for 145 IMF member countries. Where reported, the database contains time series from 1990 onwards using the Government Finance Statistics Manual, 2001 (GFSM 2001) framework.

Open Knowledge Repository (OKR) contains research from thousands of works including:

***World Bank published books*** from 2009-2012 which includes flagship publications, academic books and practitioner volumes;

*All World Development Reports (WDRs) since 1978;*

***Policy Research Working Papers (PRWP)*** from 2009-2012, a series of papers that disseminate findings of work in progress in order to encourage the exchange of ideas about development issues;

***Economic and Sector Work (ESW)*** studies from 2009-2012, a series of analytical reports prepared by Bank staff. ESWs gather and evaluate information about a country's economy and/or a specific sector;

**Journal articles** from 2007-2010 published in World Bank Economic Review (WBER) and World Bank Research Observer (WBRO), two journals published by Oxford University Press on behalf of the World Bank;

**Content in languages other than English;**

**World Bank Group Annual Reports and Independent Evaluation Studies**

The OKR will be updated regularly as new research outputs and knowledge products are released for publication. New content will include:

**Content published prior to 2009** (and prior to 2007 in the case of the WBER and the WBRO);

**Bank-authored content published by third party publishers** including journal articles, books and chapters.

(Source: <http://www.imf.org/external/data.htm>)

These databases are enlisted below:

#	Title	Link
1	ACS PUBLICATIONS	<a href="http://pubs.acs.org/about.html">http://pubs.acs.org/about.html</a>
2	AMERICAN ASSOCIATION OF PHYSICS TEACHERS	<a href="http://www.aapt.org/">http://www.aapt.org/</a>
3	AMERICAN INSTITUTE OF PHYSICS	<a href="http://journals.aip.org/">http://journals.aip.org/</a>
4	AMERICAN PHYSICAL SOCIETY JOURNALS	<a href="http://publish.aps.org/">http://publish.aps.org/</a>
5	AMS ELECTRONIC JOURNALS	<a href="http://www.ams.org/journals/">http://www.ams.org/journals/</a>
6	ASSOCIATION OF COMPUTING MACHINERY	<a href="http://acm.org/pubs/">http://acm.org/pubs/</a>
7	BRITISH LIBRARY	<a href="http://direct.bl.uk">http://direct.bl.uk</a>
8	CAMBRIDGE UNIVERSITY PRESS	<a href="http://journals.cambridge.org">http://journals.cambridge.org</a>
9	EDINBURGH UNIVERSITY PRESS	<a href="http://www.euppublishing.com">http://www.euppublishing.com</a>
10	ESDU	<a href="http://www.esdu.com">http://www.esdu.com</a>
11	EMERALD	<a href="http://www.emeraldinsight.com">http://www.emeraldinsight.com</a>
12	IEEEXPLORE	<a href="http://ieeexplore.ieee.org">http://ieeexplore.ieee.org</a>
13	INSTITUTE OF PHYSICS	<a href="http://iopscience.iop.org">http://iopscience.iop.org</a>
14	JSTOR	<a href="http://www.jstor.org">http://www.jstor.org</a>
15	NATURE	<a href="http://www.nature.com">http://www.nature.com</a>
16	PROJECT MUSE	<a href="http://muse.jhu.edu">http://muse.jhu.edu</a>
17	SCIENCE ONLINE	<a href="http://www.sciencemag.org">http://www.sciencemag.org</a>
18	SCIENCE DIRECT JOURNALS	<a href="http://www.sciencedirect.com">http://www.sciencedirect.com</a>
19	SPRINGER LINK	<a href="http://www.springerlink.com">http://www.springerlink.com</a>
20	TAYLOR & FRANCIS	<a href="http://www.tandfonline.com">http://www.tandfonline.com</a>
21	UNIVERSITY OF CHICAGO PRESS	<a href="http://www.press.uchicago.edu">http://www.press.uchicago.edu</a>
22	WILEY INTER SCIENCE	<a href="http://onlinelibrary.wiley.com/">http://onlinelibrary.wiley.com/</a>
23	Ebrary	<a href="http://www.gcu.edu.pk/library">http://www.gcu.edu.pk/library</a>
24	MCGRAW HILL COLLECTIONS	<a href="http://accessengineeringlibrary.com">http://accessengineeringlibrary.com</a> <a href="http://www.accessmedicine.com">http://www.accessmedicine.com</a> <a href="http://www.accessscience.com">http://www.accessscience.com</a>

## 8.2 PERN

Under PERN-Pakistan Educational Research Network project, there are more than 1000 computers that have been used by the faculty, students and administrative staff. Labs have been established for students in order to provide and enhance their educational and information skills. Faculty and administrative staff have also been provided the opportunity for further skill development under this project.

Internet service under PERN project provides high speed internet facility for GC University, Lahore. At the initial stage when the PERN project started, a 2MB dedicated internet bandwidth speed was given in order to facilitate students, faculty and administrative staff. Initially the facility was designed to accommodate 400 users but after that it has been extended to more the 800 users by increasing the internet bandwidth up to 8 MB dedicated speed at that time.

Currently 48MB bandwidth is distributed among different academic and non-academic departments. Around 4Km fiber cable has been laid to link up all the departments of GCU. This helps out to interconnect different campuses i.e. Center for Advanced Studies in Physics (CASP), University Hostels, and other academic departments. Wireless network connectivity is also provided for campuses i.e. CASP, New Hostel, etc. for the smooth running of internet and intranet services for students and staff members.

## 8.3 VIDEO CONFERENCING

Video Conference Facility has been established at GCU Lahore with the generous support of the Higher Education Commission, Pakistan, which facilitates in online lecturing, net-meetings and collaborations with national and international experts for institutional partnerships. International experts deliver extensive lectures on various topics which ultimately benefits to the exchange of knowledge and information among students and faculty. Following Microsoft events were organized while using the Video Conference facility:

Sr. #	Event	Dated
1	Microsoft – HEC ICT Outreach Programme in GCU Lahore	14-09-2012
2	Microsoft Office 365 in Action	02-10-2012
3	Learn to build Windows Phone apps	04-10-2012
4	Learn to build Windows Phone apps in MIC Lahore	11-10-2012
5	Microsoft Imagine Cup 2013 Kick-off	06-11-2012
6	Microsoft WOWZAPP 2013 kick-off	19-10-2012
7	Microsoft Office 365 in Action	04-12-2012
8	Microsoft Students 2 Business	14-12-2012
9	Technology Implementation Support – Microsoft SQL Server 2012 Blend	19-12-2012
10	Faculty Tech Talk – SharePoint 2013	26-12-2012

## 8.4 CAMPUS MANAGEMENT SOLUTION

Established in 2003, the System Analyst Office is the technological-brain of all the Computerized Systems functioning in the GC University. Since its existence it has analyzed all the core manual systems of the University and converted them to their more productive and fast paced technological equivalent by endorsing the invariable efforts of its dedicated staff members. Currently, almost 10 computerized Systems are on the credit of the System Analyst Office which is successfully operated by different departments of the varsity beyond a robust and centralized database project “E-Databank” which is functioning in all the Academic and Administrative Departments of the University.

Besides our Technological Work, the SAO is equally triggering its efforts for the administrative tasks, including analysis and compilation of the all statistical proforma frequently received from external agencies, especially Higher Education, Government of Pakistan, Government of Punjab, and Governor’s Secretariat. In last five years, the SAO has developed the following core Computerized System of the Varsity and update and modify these systems on regular basis:

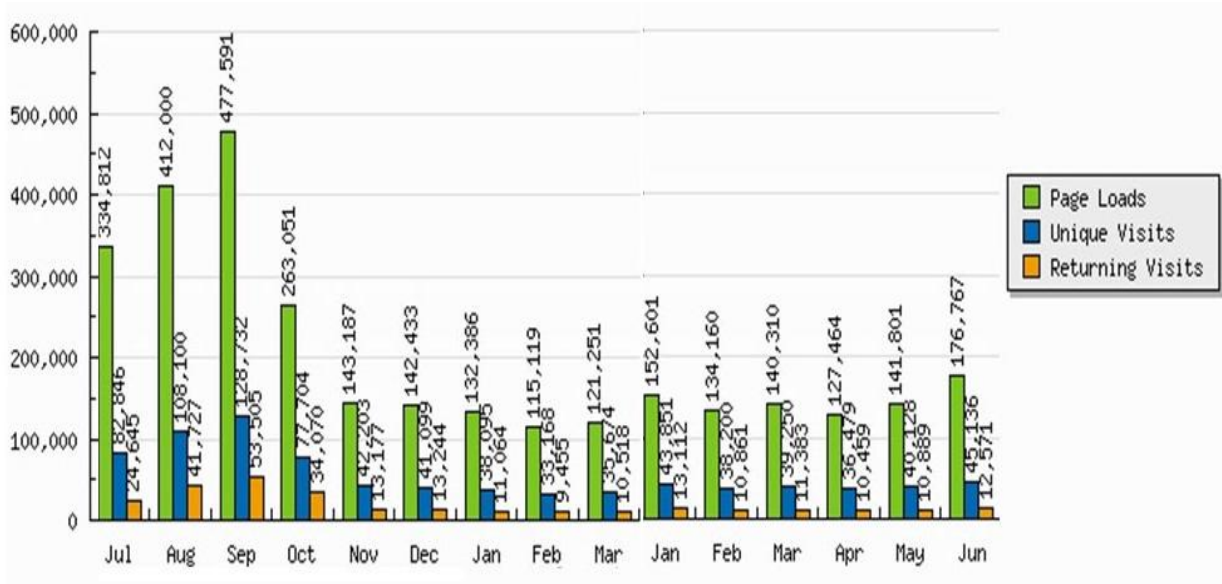
Sr. #	E-Databank	System Analyst Unit
1	Admission System	Registrar’s Office
2	Attendance System	Admission Office
3	Time Table	System Analyst Office
4	Examination System	Examination Department
5	Alumni System	Examination Department
6	HRM System	Establishment Office
7	Fee System	Treasurer’s Office
8	Financial Aid System	Treasurer’s Office
9	Scholarship System	Student Financial Aid Office

## 8.5 WEB PORTAL

The GC University Library maintains the University's website. The team also works to develop the University's Web presence as a whole. The GC University Lahore first posted this website which was designed in September 1999. It re-launched it in December 2004 with expanded contents and a new design. The present site incorporates a content management system with new tiers of content added in October 2007. The Website is maintained by GCU Library Web Team under the supervision and guidance of Chief Librarian. It is accessible at [www.gcu.edu.pk](http://www.gcu.edu.pk).

GCU Web usage statistics of the period of July 2012 to June 2013 are as below:

## GCU WEB USAGE STATISTICS June 2012 to May 2013



## **8.6 DEVELOPMENT OF ONLINE ADMISSION SYSTEM**

Online admission forms & prospectus are available on GCU Website: [www.gcu.edu.pk](http://www.gcu.edu.pk). Prospective students can download admission forms and send to the Dy. Registrar (Admission). Currently, we are not offering online admission system to the prospective students.

## **Chapter-9: UNIVERSITIES BUILDING COMMUNITIES**

### **9.1 UNIVERSITY - COMMUNITY INTERACTION**

#### **9.1.1 OLD RAVIANS UNION**

GCU is known as a reputed and prestigious institution, not only among the people of Lahore but Pakistan. It has earned this valuable reputation by maintaining its peaceful environment, discipline, and quality of education over the years. It has the credit to produce numerous personalities of international recognition in different spheres of life. Its former students are called “Old Ravians”, and they have special affection and love for their Alma Mater. They feel privileged and honoured to be called Ravians, and remain nostalgically attached with this institution. They always feel elevated on coming back to their Alma Mater. One can gauge love and belongingness of its former students by the fact that in various cities of Pakistan, they have formed their alumni associations just to keep that link intact and afresh with their alma mater. Apart from cities of Pakistan, the alumni associations are also active in India, England, Canada, and the US. They use to invite GCU Vice Chancellor and other senior Old Ravians to their functions and get together to share their feelings

#### **9.2 ALUMNI AFFAIRS: OUTSTANDING ACHIEVEMENTS ETC.**

GCU has played a commendable role to keep the link intact with its former students. As good will gesture GCU has some reserved seats on ‘kinship basis’, where admission to the children of former students is given.

In 1995, GC administration revived ‘Old Ravians Union’, and provided the former students an opportunity to organize and activate their alumni organization. This union was a forum for old students to revive links not only among themselves but with their alma mater as well. The Vice Chancellor is the ex-officio, patron of this Union and it has a constitution passed by its General Body. An office was provided to the union in the GCU premises. Whenever important functions take place at GCU, the invitations are extended to old students which keep this link alive.

The annual festival cricket match between Old Ravians and VC eleven is played at Oval ground in a friendly manner a permanent feature of its activities. Similarly, a lively debate contest is also arranged between old students and current students to exchange their intellect in a ‘House of Commons’ style. In the Syndicate, the governing body, some senior Old Ravians are also taken to formulate policies for GCU. Similarly, in different committees of the university, Old Ravians are also included to have their input in important matters.

It is worth mentioning that ‘Old Ravians Union’ is a democratic organization of former students of GCU. An old student can apply for its life membership by submitting filled-in form along with a copy of CNIC, a document showing that applicant remained a student of GC, and two photographs. The Union has its affiliated chapters in different cities of Pakistan as well as abroad. In the Executive Committee of the Union, every decade has one representative who is elected by the members of that decade. Representative of 1940s is the senior most Member Executive Committee and 2000s is the youngest representative. Apart from President, there are



two Vice Presidents (one male and one female), Secretary and Treasurer are also elected office bearers of the Union for a term of two years. However, Honorary Secretary has been nominated by VC amongst the Old Ravians faculty.

Some very senior and reputed old ravians were elected as its presidents. Mr. Parvez Masud (former Chief Secretary), Mr. Saadat Ullah Khan (former IG Police Punjab), Maj. Gen. (R) Saeed uz Zaman Janjua (Former High Commissioner Brunai Darussalam), Dr. Samar Mubarakmand ( Famous Nuclear Scientist & Member Planning Commission of Pakistan) Mr. Kamran Lashari (former Federal Secretary) remained Presidents of the Union.

The Union has provided a platform to the former students where they can meet and interact with each other, and recall and revise their memories. Executive Committee of the Union arranges various events like debates, mushairas, seminars, matches, tea parties, and dinners for its members and their families. These lively and colourful gatherings of Old Ravians community have been arranged within the premises of GCU. When old students come with their families and meet their old fellows, it always gives them great joy and pleasure.

The Union has been extending its support and help to GCU when need arises. The Union proved to be a great instrument of generating funds for GCU Endowment Fund Trust. It pursues and motivates old students to come forward, and contribute to this noble cause. Therefore, Union has been playing an important role for generating funds for the Endowment Fund Trust, which is meant to provide financial aid to the deserving students of GCU. It also has a role of bringing different Old Ravians organization closer, and thus the Union has established itself as mother organization of these organizations.

The Union did a commendable job to refrain the Punjab government from building the Metro Bus terminals at Lodgia/Lovers Garden at GCU. In this regard, Union office bearers met with the Chief Minister Punjab and appealed him to spare the Lovers garden of historic nature. Finally the demand was accepted, and bus terminal was shifted.

## Chapter-10: SPORTS

### 10.1 INTER-DEPARTMENTAL SPORTS

Following is the detail of results of 5<sup>th</sup> Inter-Departmental Games held during 2012-13:

Sr No	Game	Boys Results	Girls Results
1.	Gymnastics (Boys) (Individual)	Individual Competition	-
2.	Chess (Boys & Girls) (Team Event)	<b>Chess</b> <b>1<sup>st</sup> Position</b> Engineering <b>2<sup>nd</sup> Position</b> Philosophy <b>3<sup>rd</sup> Position</b> institute of Biotechnology <b>4<sup>th</sup> Position</b> Computer Science	<b>Chess</b> <b>1<sup>st</sup> Position</b> Engineering <b>2<sup>nd</sup> Position</b> Mathematics <b>3<sup>rd</sup> Position</b> Zoology <b>4<sup>th</sup> Position</b> Sustainable Development study center
3.	Ball Throw (Girls) (Individual)	-----	Individual Competition
4.	Mountaineering (Boys & Girls) (Team Event)	<b>Mountaineering</b> <b>1<sup>st</sup> Position</b> Economics <b>2<sup>nd</sup> Position</b> Urdu <b>3<sup>rd</sup> Position</b> Engineering <b>4<sup>th</sup> Position</b> Political Science	<b>Mountaineering</b> <b>1<sup>st</sup> Position</b> Political Science <b>2<sup>nd</sup> Position</b> institute of Biotechnology <b>3<sup>rd</sup> Position</b> History <b>4<sup>th</sup> Position</b> Engineering
5.	Tug of War (Boys & Girls) (Team Event)	<b>Tug of War</b> <b>1<sup>st</sup> Position</b> Engineering <b>2<sup>nd</sup> Position</b> History <b>3<sup>rd</sup> Position</b> CASP <b>4<sup>th</sup> Position</b> Economics	<b>Tug of War</b> <b>1<sup>st</sup> Position</b> institute of Biotechnology <b>2<sup>nd</sup> Position</b> Political Science <b>3<sup>rd</sup> Position</b> Mathematics <b>4<sup>th</sup> Position</b> Islamic Studies
6.	Squash (Boys & Girls) (Team Event)	<b>Squash</b> <b>1<sup>st</sup> Position</b> Engineering <b>2<sup>nd</sup> Position</b> History <b>3<sup>rd</sup> Position</b> Computer Science <b>4<sup>th</sup> Position</b> Economics	<b>Squash</b> <b>1<sup>st</sup> Position</b> Zoology <b>2<sup>nd</sup> Position</b> History <b>3<sup>rd</sup> Position</b> institute of Biotechnology <b>4<sup>th</sup> Position</b> Economics
7.	Basketball (Boys & Girls)	<b>Basketball</b> <b>1<sup>st</sup> Position</b> Urdu	<b>Basketball</b> <b>1<sup>st</sup> Position</b> Mathematics

	(Team Event)	<b>2<sup>nd</sup> Position</b> Mathematics <b>3<sup>rd</sup> Position</b> Economics <b>4<sup>th</sup> Position</b> Geography	<b>2<sup>nd</sup> Position</b> institute of Biotechnology <b>3<sup>rd</sup> Position</b> Philosophy <b>4<sup>th</sup> Position</b> Zoology
8.	Tennis (Boys & Girls) (Team Event)	<b>Tennis</b> <b>1<sup>st</sup> Position</b> Computer Science <b>2<sup>nd</sup> Position</b> Political Science <b>3<sup>rd</sup> Position</b> Islamic Studies <b>4<sup>th</sup> Position</b> Economics	<b>Tennis</b> <b>1<sup>st</sup> Position</b> institute of Biotechnology <b>2<sup>nd</sup> Position</b> Engineering <b>3<sup>rd</sup> Position</b> Chemistry <b>4<sup>th</sup> Position</b> History
9.	Table Tennis (Boys & Girls) (Team Event)	<b>Table Tennis</b> <b>1<sup>st</sup> Position</b> Management Studies <b>2<sup>nd</sup> Position</b> Economics <b>3<sup>rd</sup> Position</b> Physics <b>4<sup>th</sup> Position</b> Engineering	<b>Table Tennis</b> <b>1<sup>st</sup> Position</b> institute of Biotechnology <b>2<sup>nd</sup> Position</b> Engineering <b>3<sup>rd</sup> Position</b> Psychology <b>4<sup>th</sup> Position</b> Management Studies
10.	Rowing (Boys & Girls) (Team Event)	<b>Rowing</b> <b>1<sup>st</sup> Position</b> Urdu <b>2<sup>nd</sup> Position</b> Economics <b>3<sup>rd</sup> Position</b> Political Science <b>4<sup>th</sup> Position</b> Engineering	<b>Rowing</b> <b>1<sup>st</sup> Position</b> Philosophy <b>2<sup>nd</sup> Position</b> institute of Biotechnology <b>3<sup>rd</sup> Position</b> Chemistry <b>4<sup>th</sup> Position</b> History
11.	Weightlifting (Boys) (Team Event)	<b>Weightlifting</b> <b>1<sup>st</sup> Position</b> Political Science <b>2<sup>nd</sup> Position</b> Engineering <b>3<sup>rd</sup> Position</b> Economics <b>4<sup>th</sup> Position</b> Urdu	-----
12.	Rifle shooting (Boys & Girls) (Team Event)	<b>Rifle Shooting</b> <b>1<sup>st</sup> Position</b> Economics <b>2<sup>nd</sup> Position</b> History <b>3<sup>rd</sup> Position</b> Political Science <b>4<sup>th</sup> Position</b> institute of Biotechnology	<b>Rifle Shooting</b> <b>1<sup>st</sup> Position</b> Economics <b>2<sup>nd</sup> Position</b> Statistics <b>3<sup>rd</sup> Position</b> Chemistry <b>4<sup>th</sup> Position</b> institute of Biotechnology
13.	Badminton (Boys &	<b>Badminton</b>	<b>Badminton</b>

	Girls) (Team Event)	<b>1<sup>st</sup> Position</b> Urdu <b>2<sup>nd</sup> Position</b> History <b>3<sup>rd</sup> Position</b> Management Studies <b>4<sup>th</sup> Position</b> Philosophy	<b>1<sup>st</sup> Position</b> History <b>2<sup>nd</sup> Position</b> Political Science <b>3<sup>rd</sup> Position</b> institute of Biotechnology <b>4<sup>th</sup> Position</b> Physics
14.	Volleyball (Boys & Girls) (Team Event)	<b>Volleyball</b> <b>1<sup>st</sup> Position</b> Urdu <b>2<sup>nd</sup> Position</b> Political Science <b>3<sup>rd</sup> Position</b> Geography <b>4<sup>th</sup> Position</b> Economics	<b>Volleyball</b> <b>1<sup>st</sup> Position</b> Philosophy <b>2<sup>nd</sup> Position</b> Botany <b>3<sup>rd</sup> Position</b> Chemistry <b>4<sup>th</sup> Position</b> Political Science
15.	Handball (Boys & Girls) (Team Event)	<b>Handball</b> <b>1<sup>st</sup> Position</b> Urdu <b>2<sup>nd</sup> Position</b> Economics <b>3<sup>rd</sup> Position</b> Geography <b>4<sup>th</sup> Position</b> Statistics	<b>Handball</b> <b>1<sup>st</sup> Position</b> Philosophy <b>2<sup>nd</sup> Position</b> Political Science <b>3<sup>rd</sup> Position</b> institute of Biotechnology <b>4<sup>th</sup> Position</b> Zoology
16.	Cross Country (Team Event)	<b>Cross- Country</b> <b>1<sup>st</sup> Position</b> Urdu <b>1<sup>st</sup> Position</b> Political Science <b>3<sup>rd</sup> Position</b> Economics <b>4<sup>th</sup> Position</b> History	<b>Cross- Country</b> <b>1<sup>st</sup> Position</b> Philosophy <b>1<sup>st</sup> Position</b> History <b>3<sup>rd</sup> Position</b> Political Science
17.	Mr. GCU Bodybuilding (Boys) (Individual)	Individual Competition	-----
18.	Athletics (Individual)	Individual Competition	Individual Competition

## 10.2 PARTICIPATION IN NATIONAL CHAMPIONSHIPS

Following players of GC University, Lahore participated in different games at National Level

SR #	NAME OF PLAYER	GAME	Event
1.	Altaf Hussain	Athletics	32 <sup>nd</sup> National Games
2.	Mohsin Naveed	Athletics	32 <sup>nd</sup> National Games
3.	Alam Sadam	Athletics	32 <sup>nd</sup> National Games
4.	Tariq Mehmood	Athletics	32 <sup>nd</sup> National Games
5.	Ghulam Qadar	Gymnastics	32 <sup>nd</sup> National Games
6.	Sadaf Mehboob	Rifle shooting	32 <sup>nd</sup> National Games
7.	Moez Ahmed Malik	Rifle shooting	32 <sup>nd</sup> National Games

8.	Muhammad Baber	Rowing	32 <sup>nd</sup> National Games
9.	Sharjeel Ahmed	Rowing	32 <sup>nd</sup> National Games
10.	Adnan Tassaduq	Rowing	32 <sup>nd</sup> National Games
11.	Ahmed Mahmood	Rowing	32 <sup>nd</sup> National Games
12.	Saad Ali Hassan	Rowing	32 <sup>nd</sup> National Games
13.	Hassan Kamran	Swimming	32 <sup>nd</sup> National Games
14.	Shahzaib Maqbool	Table Tennis	32 <sup>nd</sup> National Games
15.	Danish Ali	Table Tennis	32 <sup>nd</sup> National Games

### 10.3 ACHIEVEMENTS AT NATIONAL LEVEL

#### HEC intervarsity Sports Achievements 2012-13

The following is the detail of achievements of GCU Players at national level.

Sr #	Name	Game	Performance
1.	Mohsin Naveed	Athletics	Silver Medal in National Games 2012
2.	Altaf Hussain	Athletics	Gold Medal in National Games 2012
3.	Alam Saddam	Athletics	Bronze Medal in National Games 2012
4.	Tariq Mehmood	Athletics	Bronze Medal in National Games 2012
5.	Ghulam Qadar	Gymnastics	Bronze Medal in National Games 2012
6.	Moeez Amjad Malik	Rifle shooting	Gold Medal in National Rifle shooting Championship
7.	Sadaf Aslam	Rifle shooting	Gold Medal in National Games 2012
8.	Ahmed Mahmood	Rowing	Two Silver Medal in National Games 2012 Two Silver Medal and three Bronze medal in National Championship 2012 (Quaid-e-Azam Trophy)
9.	Adnan Tassaduq	Rowing	Three Silver Medal in National Games 2012
10.	Saad Ali Hassan	Rowing	Silver medal in National Games 2012
11.	Muhammad Babar	Rowing	Silver Medal in National Games 2012
12.	Sharjeel Ahmed	Rowing	Silver Medal in National Games 2012
13.	Hassan kamran	Swimming	Two Silver Medal in National Games 2012 Two Bronze Medal in National Games 2012
14.	Shahzaib Maqbool	Table Tennis	Silver Medal in National Games 2012
15.	Danish Ali	Table Tennis	Silver medal in National Games 2012

### 10.4 INCENTIVES AND HONORS/AWARDS FOR SPORTS PERSONS

Following sportsmen awarded Sports Roll of Honor on the basis of their sports performance

Muhammad Umar S/o Fazal Karim  
Class B.Sc (Hons)  
Roll No 1275R (2008-12)

(Hockey)

Muhammad Waseem Sarwar S/o Muhammad Sarwar Class B.Sc (Hons) Roll No 806 (2008-12)	(Hockey)
Ali Raza S/o Muhammad Boota Class B.Sc (Hons) Roll No 1271 (2008-12)	(Hockey)
Hafiz Muhammad Ali S/o Muhammad Khalid Bhatti Class B.Sc (Hons) Top Up Roll No 1051 (2010-12)	(Gymnastics)
Umar Hayat S/o M. Aslam Class B.A (Hons) Roll No 1236 (2008-12)	(Basketball)
Wahab Irfan Butt S/o Hafiz Imran Butt Class F.A Roll No 1143 (2009-11)	(Weightlifting)
Subhan Naveed S/o Naveed Iqbal Class B.Sc (Hons) Roll No 240 (2008-12)	(Football)
Faraz Hafeez S/o Abdul Hafeez Class B.A (Hons) Roll No 816 (2008-12)	(Rowing)
Mustaqeem Mahmood Butt S/o Mahmood Ahmed Butt Class B.A (Hons) Roll No 1381R (2011-15)	(Weightlifting)
Muhammad Ali Raza S/o Rana Raza Ullah Khan Class B.A (Hons) Roll No 345 (2008-12)	(Rowing)

## **Chapter-11: UNIVERSITIES BUILDING LEADERSHIP**

### **11.1 FACULTY LEADERSHIP (AWARDS AND REPRESENTATION IN GOVT. POLICY MAKING COMMITTEES, MEMBERSHIPS ON VARIOUS COUNCILS ETC.)**

GCU Lahore teaching staff plays a significant role in academic world and higher education sector in Pakistan. Our faculty and staff members are engaged in a number of activities while performing leadership role, and thus achieving awards and distinctions in all major fields of life. Some of the key achievements of GCU faculty during 2012-2013 are summarized below:

- Prof Dr Ikram-ul-Haq, Director IIB, is the member of the National Curriculum review committee in Microbiology.
- Prof Dr Ikram-ul-Haq, Director IIB, is the member of the National Curriculum review committee in Biotechnology.
- Prof Dr Ikram-ul-Haq, Director IIB, has been granted one decade gold medal with cash prize for the best principal investigator by Pakistan Science Foundation.
- Prof Dr Ikram-ul-Haq, Director IIB, has been the member of Chief Minister's Education Reforms Committee.
- Prof Dr Ikram-ul-Haq, Director IIB and Dr Sikander Ali have won productive scientist award.
- Prof Dr Ikram-ul-Haq, Director IIB, has won Education Leadership Award in World Marketing Summit, 2013 held in Malaysia.
- Dr Hamid Mukhtar is the member of the Academic Committee of National Testing Services (NTS), Islamabad
- Dr. M. Akhyar Farrukh was nominated as Young Researcher by The Academy of Sciences for the Developing World (TWAS), Italy and selected by the Council for Lindau Nobel Laureate Meetings, Germany for 63rd Lindau Nobel Laureate Meeting in Chemistry in 29 June-05 July, 2013.
- Dr Muhammad Zahid Qureshi is FELLOW member of Institute of Chemists and member of Chemical society of Pakistan.
- Dr. Aziz ur Rehman served as Advisory editorial member of International journal of Pharmacy and Pharmaceutical Sciences.
- Dr. Aziz ur Rehman served as International advisory board member of Asian Journal of Chemical Sciences.
- Dr. Aziz ur Rehman got Life time membership of Chemical Society of Pakistan.
- Dr. Shazia Khurshid got life time membership of Association of Advancement of Sciences in Pakistan.
- The ASSMS is a member of all major international mathematical organizations including IMU, EMS, CIMPA, and the American Mathematical Society ,AMS.
- The ASSMS has been nominated the Secretarial Headquarter for the Network of International Mathematical Centers during the first two years.
- In 2012, the Punjab Government assigned ASSMS the responsibility of defining the undergraduate and graduate curriculums in mathematical sciences for the whole nation

## **11.2 STUDENT LEADERSHIP (CO-CURRICULAR ACTIVITIES: UNIVERSITY DRAMAS, EXHIBITIONS, EXPOS, COMPETITIONS, DEBATES AT NATIONAL AND INTERNATIONAL LEVELS)**

Government College University Lahore has a very rich tradition of Co-curriculum activities consisting over 145 years. Currently, seventeen and thirty six societies are functioning at the University and departmental levels, respectively. During the year 2012-13, these societies set new standards of co-curriculum activities by organizing various events and participating in different competitions. Detail of their achievements during 2012-13 is as under:

### **11.2.1 DEBATING SOCIETY**

The GCU Debating Society is the most prominent society; represent the university at various speech contests all over Pakistan. The overview of their achievements is as follows for the year 2012-13

Total Prize: 159

Team Trophies: 35

Runner up Trophies: 09

3<sup>rd</sup> position 03

Individual Prizes:

1<sup>st</sup>: 51

2<sup>nd</sup> : 37

3<sup>rd</sup> : 21

Consolation: 03

GCU Debating Society organized the following events on campus during the session 2012-13.

- Internal Debates (English, Urdu and Punjabi) October 2012
- 31<sup>st</sup> All Pakistan Allama Muhammad Iqbal Bilingual Declamation Contest-(November 2012)
- 17<sup>th</sup> Annual All Pakistan GCU Style Parliamentary Debates (March 2013)
- Noon Meem Rashid Monthly Debates (English, Urdu, and Punjabi) Sep 12 –Apr 13
- Weekly Training Camps for Debates and Declamations. Sep 12 – Apr 13

### **11.2.2 HIKING AND MOUNTAINEERING CLUB**

- Organized 2 days hike training in the mountains of thandiyani and its surrounding areas in October 2012.
- Organized snow hike at miran jani track at Muree from 22<sup>nd</sup> to 24<sup>th</sup> November 2012.
- Organized to celebrate international mountain day on December 11, 2012



- Organized 2 days hike training the mountains of Nathia Gali on Miranjani Track and Pipe Line Track IN December 2012.
- Organized an oath taking ceremony along-with anniversary celebration of HMC.
- Organized whole day training session for the members interested in artificial wall-climbing on February 2013.
- Organized a study trip to Ganga Choti situated in district Bagh of Azad Kashmir from 8<sup>th</sup> to 10<sup>th</sup> March 2013 and Muzaffarabad and Neelum Valley from June 13<sup>th</sup> to June 16<sup>th</sup> 2013.
- Organized a wall climbing competition on 24<sup>th</sup> to 25<sup>th</sup> March 2013.
- Organized a movi session related to mountaineering on april 17, 2013
- Organized a visit to Alhamra for the celebration of World Tourism Day on 27<sup>th</sup> September 2013.
- Organized 2 days hike training in Azad Kashmir (Bagh& Rawalakot) in MaRCH 2013.
- HMC members participated in the Wall Climbing competition organized by SNGPAL in March 2013 and got third positioning both boys and girls category Punjab Open Championship.

### **11.2.3 DRAMATIC CLUB**

Government College University Dramatic Club has actively participating in the competitions and festivals arranged by different colleges and organizations:

- GCU Dramatic Club performed “andhaa Footpathiya” at Punjab Youth Festival on December 17, 2012.
- GCU Dramatic Club participated in “Natak Show” at PTV on 23 March 2013.
- Performed annual play “Shah-e-Alam” on 29, 30 and 31 March 2013.
- Organized Theatre workshops from October 2012 to January 2013.

### **11.2.4 HORTICULTURAL SOCIETY**

The Horticultural Society is one of the prominent societies of GCU, participated in various events and competitions:

- Organized an annual Chrysanthemum show 2012 on 1<sup>st</sup> December, 2012 and won 5 positions out of 12.
- Organized to celebrate Annual Dinner with annual play and oath taking ceremony on December 19, 2012.
- Organized an Inter-collegiate competition dry flower/poster painting competition/botanical art exhibition in collaboration with pressed flower art society blossom.
- Sports was organized between 3 prominent societies of GCU Lahore. The games which were included in sports festival are: Table tennis, chess, badminton, tug of war, luso, carom, volleyball, basketball, spoon race and balloons pooping.
- Organized a study tour to Khewra Salt Mine and Kalar Kahar Lake.
- Celebrate a World forest Day with Punjab forest Department at Jallo Forest Park Lahore

- Organized an Annual spring flower show 2013 with Parks and Horticulture authority at the Baghe Jinnah and won 1<sup>st</sup> position.
- Celebrate the Fresh Flower Competition along with shirt painting and recycling competition.

#### **11.2.5 DISASTER RISK MANAGEMENT SOCIETY**

In 2012-13, the Disaster Risk Management Society has conducted the following events.

- Conducted a seminar on Climate Change and Role of the Youth in Disaster Management on 2<sup>nd</sup> April 2013.
- In 2013 the DRM society has organized a study tour from 6<sup>th</sup> - 7<sup>th</sup> April to Chasma Barage District Mianwali and Skaser District Khushab.
- Arranged a Two days study tour on 29<sup>th</sup> to 30 March 2013.
- Organized a seminar on medical geography on 01-03-2013.
- Organized a lecture on climate change in LCWU on June, 2013.
- Organized a lecture on physical environment on world environmental day on May, 2013
- Organized a visit to the Punjab Meteorology Department Lahore on May, 2013
- Organized a visit to the Flood Fore Casting Center Lahore on May, 2013.

#### **11.2.6 QUAID-E-AZAM POLITICAL SCIENCE SOCIETY**

Quaid-e-Azam Political Science Society has organized the following events during the year 2012-13.

- Organized a video conference lecture of Noam's Chomsky on the topic "Discourse of Terrorism".
- A lecture title as "Arab springs influence on Turkish foreign policy by Alper Y Dede.
- Lecturer on "Theories of international relation" by Ms. Ayesha Waheeda.
- Organized the first international conference on "Water resource management" on 9<sup>th</sup> - 11<sup>th</sup> January 2013.
- Arranged a function at Fazale Hussain Reading Room in Honour to Rafiuallah Kakar for achieving Rhodes Scholarship on December 14, 2012.
- Lecturer on "Decline European Economy by Mr. Freel Weisten, an English political activist.
- Formation of Quaid-e-Azam Youth Assembly.
- Publishing the magazine the name of "Expression" on April 19, 2013.

#### **11.2.7 DR. AJMAL PSYCHOLOGICAL SOCIETY**

Dr. Ajmal Psychological Society has organized the following events:

- Organized a seminar on the topic of "Perceptions of Democracy among Youth" on 04-10-2012.

- Seminar on the topic “Identification of stressors and its relationship with depression and anxiety of school teachers. On 11-10-2012
- Seminar on the topic of “Qualitative research methods” on 15-11-2012
- Seminar on the topic of “Emotional intelligence” on 08-11-2012.
- Seminar on the topic “Comparative study of subjective and objective burden among caregivers of diagnosed patients with schizophrenia and epilepsy” on 15-11-2012.
- Organized a conference on the topic of “Cognitive behavioral therapy (CBT) on 20<sup>th</sup> -21<sup>st</sup> 2012.
- Organized a Mental Health Week on the topic “From theory to practice: New challenges” on 06-12-2012.
- Organized an Oath taking ceremony Psychological Society on 08-11-2012.

### 11.2.8 COMPUTER SCIENCE SOCIETY

Computer Science Society has organized the following events:

- Organized a HEC Microsoft outreach session in September 14, 2012
- Organized a session on Entrepreneurship in September 25, 2012
- Organized a session about windows 8 Metro Style App development in September 26, 2012.
- Organized a Seminar on October 19, 2012
- Organized a seminar from 9<sup>th</sup> to 11<sup>th</sup> November, 2012.
- Organized a Programme Club continued 4 weeks (3days/week) in December 18, 2012.

### 11.2.9 ARABIC SOCIETY

Arabic Society has organized the following events:

#### **Lectures:**

- “Why we learn Arabic & Islamic Studies” on 17-11-2012
- “Relations towards Non-Muslims in the Era of Holy Prophet (PBUH) on 03-04-2013
- “Scope to study and research in British Institution & Universities” on 05-03-2013.
- Lecture by Prof. Rao Irtiza Hussain Ashrafi on 06-02-2013.

#### **Mushaira:**

- To tribute Imam Hussain (R.A) on 13-12-2012
- Natia Muhaaira on 11-02-2013

### 11.2.10 MAJLIS-E-ULOOM-E-ISLAMYAH

- Organized an oath taking ceremony on 06-12-2012.
- Organized a lecture title “Uloom-e-Islamia ki Farogh main Jamia Al-Azhar ka Kardar on 20-11-2012.
- Organized a Naat competition on 21-12-2012.

- Organized a lecture title “Islam and Science kay Bunyadi Taswrat aur unka bahmi taluk” on 28-02-2013.
- Organized a lecture on “Moasrana Islami Fiker kay Rujhanat” on 14-03-2013.
- Organized a Quiz competition on 13-03-2013.
- Organized a lecture title “Islam main Haqook-e-Niswan Asr-e-hazar kay Tanazur main” on 20-03-2013

### 11.2.11 MAJLIS-E-IQBAL

Majlis-e-Iqbal has organized the following events:

National level events:

- 1<sup>st</sup> position in All Pakistan Ghazal competition 2013
- 2<sup>nd</sup> position (runners up) in Radio Pakistan Bait Bazi competition

University Level Events: (Seminars, Lectures)

- Organized a Fikr-e-Iqbal conference on Iqbal’s anniversary
- Organized a seminar on famous novel “ufaq ke paar ki chaah mein”
- Organized a workshop on problems of urdu orthography
- Organized a lecture by abid Hussain, Secretary Punjab Progressive writer Association
- Organized a visit to literary conference at Al-Hamra
- Organized a lecture by Dr. Abdul Waheed, Secretar Lahore Progressive Association Lahore
- Majlis-e-Iqbal attend Faiz Seminar at Alhamra
- Organized a study Tour for Muzaar-e-Iqbal, Lahore
- Organized a lecture by Rasheed Misbah, seior leader of Anjuman-e-Taraqqi Pasand Musanfeen.

### 11.2.12 PUNJABI MAJLIS

Punjabi Majlis has organized the following events:

#### **Academic Activities:**

- Arrange first introductory meeting of Punjabi Majlis on 10-12-2012.
- Organized a “Ghazal competition” on 19-12-2012.
- Organized a 5 Poem competitions on 26<sup>th</sup> December 2012, 16<sup>th</sup> January, 30<sup>th</sup> January, 13<sup>th</sup> February and 13<sup>th</sup> March 2013,
- Organized a discussion session with Prof. Muneer Lahori, former teacher GCU Lahore and Advisor Punjabi Majlis on 28<sup>th</sup> March 2013.

#### **Seminars**

- Organized two seminars in reference to “Shafqat Tanveer Mirza (Late) on 31-12-2012 and for Prof. Dr. Abbas Najmi (Late) on 11-02-2013

- Punjabi Majlis also organized 3 Discussion Session on 20-02-2011, 21-03-2013 and 03-04-2013.
- Organized an Annual Dinner on 28-05-2013.
- Organized a Punjabi Moshara on 30-01-2013.

### **11.2.13 PHOTOGRAPHY CLUB**

The Photography Club has always been silently contributing its fair share by not only polishing the talent of young photographers but also by organizing workshops and mega events at national level.

- Photography club registered over 150 members for the year 2012-13
- Arranged a photography competition based on the theme “Street Magic” for the students of the university followed by an exhibition in October 2012. The exhibition showcased over 100 pictures contributed by the participants.
- In November 2012, the club arranged a photography competition based on the theme “Dawn & Dusk”.
- Organised a workshop on Basic photography skills in February 2013.

### **11.2.14 GARRETT HISTORY SOCIETY**

Garrett History Society has organized the following events:

- Organized a study tour to Islamabad.
- Organized an International Workshop on Oral History in January 2013.
- Organized a lecture on Middle East affair in February 2013.
- Organized a lecture on Sama, Qawali in april 2013.
- Organized a lecture on Molana abul Kalam Azad in March 2013.
- Arrange an annual Dinner in May 2013.
- Arrange a welcome dinner in December 2013.

### **11.2.15 BLOOD DONOR SOCIETY**

Blood Donor Society is working for a noble cause. During the previous year, this society has conducted the following activities:

- In November 21<sup>st</sup> to 22<sup>nd</sup>, 2013, the society has set up a “Free grouping and registration” camp. More than 600 students checked their blood groups and registered themselves.
- Organized a lecture on Blood composition and importance of blood transfusion.
- Set up a blood camp on December 27, 2013 with the collaboration of Shoukat Khanum Memorial Cancer Hospital & Research Center in which 87 students and 09 faculty membrs of GCU donate the blood.
- Organized to celebrate a World Blood Donors Day on June 14<sup>th</sup> 2013.

### **11.2.16 SONDHI TRANSLATION SOCIETY**

- Previous translations would be compiled in a book shape on the occasion of 150<sup>th</sup> celebration.
- In 2012-13 society regularly organized their weekly critical academic sessions.
- Society specially focused to translate Urdu literature in English language.
- Society has also translated the fictions of Urdu in English language.
- The society also selected the few famous writing from Turkish and Persian literature for translation.

### **11.2.17 RAVIANS QUIZ SOCIETY**

Ravians Quiz Society has organized the following events:

- Allama Iqbal Inter departmental and inter societies quiz competition
- Quaid-e-Azam inter collegiate and inter university quiz competition(inter university competition first time ever in the history)
- Seerat-un-Nabi (S.A.W.W) inter departmental and inter societies quiz competition (conducted first time ever in the history of GCU)
- Iqbal Hostel Quiz competition (conducted first time ever)
- Conducted the GCU master mind quiz competition.

### **11.2.18 FINE ARTS SOCIETY**

An Annual Exhibition of Art work was organized by Fine Arts Society, Department of Fine Arts on 19<sup>th</sup> February, 2013 in Salam (Old) Hall GCU in which the students of Fine Arts and the members of Fine Arts Society (Ravians) displayed their work

## **11.3 OTHER EVENTS AND ACHIEVEMENTS OF THE STUDENTS**

- Sustainable Development Study Center (SDSC) organized Interuniversity Sustainable Development Idea Competition on 12<sup>th</sup> & 13<sup>th</sup> March, 2013
- SDSC organized Trash Collection (solid waste management) campaign in collaboration with LWMC on 14<sup>th</sup> march 2012 in GC University.
- SDSC organized Eco-Art competition in collaboration with EHS UET on 16<sup>th</sup> March. Celebrated “Eco-Resolution Day” and “Eco-Walk” to spread awareness among Ravians
- Ms. Amna Nawaz, Ms. Attikah Nasir and Ms. Ayesha Shahid, won second prize in poster competition arranged by Beacon House National University on the theme of “Peace-Building: Promoting Ethnic Harmony”.
- Ms. Arj Ramzan, Ms. Saima Ghafoor and Ms. Rabbia Kiran the students of MS in Clinical Psychology, Session 2011-13 won second prize in a competition of Short Films arranged by Media Watch Society of GC University Lahore on 16<sup>th</sup> April, 2013. The title of their documentary was “Chiragh Talay Andhera” and the film highlighted the burning issue of child labor.

- Ms. Halima Sadia Qureshi student of MS in Clinical Psychology, session 2012-14 won 1st prize in a National level E-gaming competition organized by Nerds of Arts and Gurus of Science Society of GC University Lahore.
- Maryam Rizvi student of MS in Clinical Psychology, Session 2011-2013 secured second position in Urdu Article Writing, All Pakistan Technology and Art Test 2013 from 24 to 16 April, 2013 organized by GC University Lahore.
- On 16th April, 2013, The students of MSCP-Part-II (Session 2011-2013) , Ms. Arj Ramzan, Ms. Saima Ghafoor and Ms. Rabbia Kiran participated in a competition of short films by Media Watch Society of GC University Lahore and won second prize. The title of their documentary was “Chiragh Talay Andhera” and the film highlighted the burning issue of child labor.
- Abbas Khan and Gul-e-Arzo students of B.Sc (Hons) in Zoology participated in Seerat-ul-Nabi (S.A.W) quiz competition 2013 and secured 2nd position in the competition.
- A student project of Mr. Shahbaz Tabassum Regd No. 959-TC-09 supervised by Engr. Khurram M. Butt, Assistant Professor entitled as “Vision Based Target Tracking System” won second position in All Pakistan Science Fair (University Level) at GIKI in 2012
- Muhammad Armaghan, a third year B.Sc (Electrical Engineering) student of GC University Lahore, has been appointed the Google Student Ambassador (GSA) by the Google

## Chapter -12: FINANCE

### 12.1 ANNUAL STATEMENT OF ACCOUNT

Annual Statement of the FY 2012-13 was Rs.789,692,300/-

### 12.2 FINANCIAL YEAR 2012-13 AT GLANCE

	INCOME	Amount in Rs.
	<b>TOTAL INCOME:</b>	<b>789,774,200</b>
<b>G125</b>	<b>Total Education and Training Fund (Punjab Govt.)</b>	<b>58,643,000</b>
<b>G 12502</b>	<b>Fund for Grants to Universities</b>	
i-	Grant-in-Aid	17,643,000
ii-	Supplementary Grant (CM Grant)	40,000,000
iii-	Encashment of LP.R	1,000,000
<b>G 12501</b>	<b>Federal Education Fee Funds.</b>	<b>446,396,700</b>
	<b>(Higher Education Commission Grants.)</b>	
i-	For University Budgetary Support	340,534,000
ii-	Additional Grant	27,723,000
	<b>HEC Funded Programmes.</b>	
a-	Grant for Tenure Track Salaries	46,921,000
b-	Foreign Faculty Hiring	4,248,500
c-	Dr. Salam Chair	5,741,200
d-	Establishment of Strengthening of Office of Research Innovation and Commercialization	6,200,000
e-	Strengthening of Quality Enhancement Cell	4,033,000
f-	Establishment and Strengthening Financial Aid Office	5,000,000
g-	Need Based Scholarship	5,996,000
<b>C028</b>	<b>Total Social Services (University Income)</b>	<b>284,734,500</b>
i-	Fees	156,504,100
ii-	Rent from Buildings (Cafeteria, U.B.L. etc)	1,448,100
iii-	Hostel Room Rent	3,518,000
iv-	Prospectus	7,317,200
v-	Transport	13,048,800
vi-	Income from Affiliated Institute	1,611,600
vii-	Other Misc. Receipts(Tender Fee, Job Forms, Profit etc)	84,171,400
viii-	GCU Share Professional Studies Program.	17,115,300



	<b>EXPENDITURE</b>	<b>Amount in Rs.</b>
	<b>TOTAL EXPENDITURE</b>	<b>789,692,300</b>
	<b>TOTAL-A-I</b>	<b>775,492,300</b>
A0I	Employees Related Expenses. (Pay & Allowances)	544,446,900
	<b>HEC Funded Programmes.</b>	
a-	Payment of salaries of Tenure Track Programme	46,921,000
b-	Foreign Faculty Hiring	4,248,500
c-	Dr. Salam Chair	5,741,200
d-	Establishment of Strengthening of Office of Research Annotation and Commercialization	6,200,000
e-	Strengthening of Quality Enhancement Cell	4,033,000
f-	Establishment and Strengthening Financial Aid Office	5,000,000
g-	Need Based Scholarship	5,996,000
A03.	Operating Expenses. (Utilities, Communication Transportation & General)	61,070,000
A096	Purchase of Durable Goods.	13,000,000
A13	Repair & Maintenance of Durable Goods	4,000,000
A094	Other Stores and Stocks. (Laboratory Development)	18,930,000
	Allocation of Profit to Pension & GP Fund	36,705,700
A-022	Research Projects.	6,500,000
A-039	Academic Development. (Library Books, journals & Publication)	2,700,000
<b>A-13</b>	<b>Repair &amp; Maintenance.</b>	
<b>A-133</b>	<b>Buildings &amp; Structures.</b>	<b>10,000,000</b>
A-133-1	Repair & Maintenance. (Funded by G.C.U)	10,000,000
A-133-2	Repair & Maintenance. (Funded by Govt. of Punjab)	
	<b>TOTAL-A-II</b>	<b>14,200,000</b>
<b>A-039</b>	<b>General Expenses.</b>	<b>14,200,000</b>
<b>A-03970</b>	<b>Others.</b>	

i-	Library Development	1,000,000
ii-	G.C.U Scholarship to Deserving Students	5,000,000
iii-	Examination	5,000,000
iv-	Ph. D Programme Expenses	1,200,000
v-	GCU New Campus Kalashah Kaku	2,000,000
	<b>Surplus / (Deficit)</b>	<b>81,900</b>

### 12.3 RECURRING & DEVELOPMENT GRANT

Source	2012-2013
Recurring	
(i) Punjab Grant	58,643,000
(ii) HEC	446,396,700
<b>Total:</b>	<b>505,039,700</b>

### 12.4 SELF-GENERATED INCOME

DETAILS OF INCOME OF FY 2012-13		
Items		Amount in Rs.
	<b>Total Self-Generated Income</b>	<b>284,734,500</b>
	<b>Total Social Services-I (University Income)</b>	
	<b>Fees</b>	<b>156,504,100</b>
i-	Tuition Fee	99,388,500
ii-	Admission Fee	8,230,600
iii-	Registration Fee	2,067,000
iv-	Examination Fee	9,165,500
v-	Sports Fee	5,096,100
vi-	Other Fee (Additional Fee, etc)	22,112,600
vii-	Ph. D. Programme	9,261,100
viii-	Short Courses	1,182,700
	<b>Social Services-II (University Income)</b>	<b>128,230,400</b>
i-	Rent from Buildings (Canteen, U.B.L. etc)	1,448,100
ii-	Hostel Room Rent	3,518,000
iii-	Prospectus	7,317,200

iv-	Transport	13,048,800
v-	Income from Affiliated Institute	1,611,600
vi-	Other Misc. Receipts(Tender Fee, Syllabus, Job Forms, Profit, etc)	84,171,400
vii-	GCU Share Professional Studies Programme	17,115,300

## 12.5 AUDIT REPORT

No test audit note was issued during the course of audit. Moreover, maintenance of accounts was also found good.

## 12.6 TREND OF PER STUDENT SPENDING

Discipline	2012-13			
	Arts / Humanities / Social Sciences	Sciences (Basic and Natural)/ Agriculture	Engineering	Grand Total
<b>Cost per Student (Rs.)</b>				
Pay & Allowances of Faculty / Officers / Staff in Teaching Departments Basis	<b>25,436</b>	<b>130,406</b>		<b>155,842</b>
Total Pay & Allowances Basis	<b>63,589</b>	<b>326,016</b>	<b>11,111,161</b>	<b>11,500,766</b>
Total Expenditure Basis	<b>89,025</b>	<b>326,016</b>	<b>11,111,161</b>	<b>11,656,608</b>

## Chapter-13: UNIVERSITY GOVERNANCE

### 13.1 SYNDICATE MEETINGS

The Syndicate is the executive body of the University and takes effective measures to raise the standard of teaching, research, technological development, publication and other academic pursuits and exercise general supervision over the affairs and management of the property of the University. The Vice-Chancellor is the Chairperson and the Registrar is the Secretary of the Syndicate.

The detail of the meetings of the Syndicate held during 2012-13 is as follows:

<b><i>Meeting Number</i></b>	<b><i>Date of meeting</i></b>
38 <sup>th</sup>	16-08-2012
39 <sup>th</sup>	27-02-2013
40 <sup>th</sup>	27-06-2013

### 13.2 ACADEMIC COUNCIL MEETINGS

The Academic Council is the academic body of the University and has the powers to lay down proper standards of instruction, research, publication and examination and to regulate and promote the academic life of the University and affiliated colleges. The Vice-Chancellor is Chairperson of the Academic Council. The quorum for a meeting of the Academic Council shall be one- third of the total number of member.

The detail of the meetings of the Academic Council held during 2012-13 is as follows:

<b><i>Meeting Number</i></b>	<b><i>Date of meeting</i></b>
11 <sup>th</sup>	09-08-2012
12 <sup>th</sup>	04-10-2012

### 13.3 ADVANCED STUDIES AND RESEARCH BOARD MEETINGS

The functions of the Advanced Studies and Research Board are to –

- i. advise the Authorities on all matters connected with the promotion of Advanced Studies and Research in the University;
- ii. consider and report to the Authorities on the institution of research degrees in the University;
- iii. propose Regulations regarding the award of research degrees;
- iv. appoint supervisors for research studies and to determine the subjects of their thesis;
- v. recommend panels of names of paper setters and examiners for research examinations after considering the proposals of the Board of Studies in this behalf; and
- vi. perform such other functions as may be prescribed by Statutes.

The detail of the meetings of the Advanced Studies and Research Board (ASRB) held during 2012-13 is as follows:

<b><i>Meeting Number</i></b>	<b><i>Date of meeting</i></b>
25 <sup>th</sup>	23-05-2013
26 <sup>th</sup>	10-12-2013

## **Chapter-14: OFFICE OF RESOURCE GENERATION/DEVELOPMENT**

### **14.1 INITIATIVES AND IMPLEMENTATION**

#### **14.1.1 PROJECTS UNDER IMPLEMENTATION DURING 2012-13**

- a. Feasibility Study and Master Planning of New Campus of GCU, Kala Shah Kaku, Lahore sponsored by HEC with project cost Rs. 23.944 million.
- b. Renovation and Restoration of Historical Building of Main GCU Campus Lahore sponsored by HEC with project cost Rs. 99.486 million.
- c. Renovation / Upgradation of Existing Building GC University Campus, Lahore (Phase-I) sponsored by HEC with project cost Rs. 23.490 million.

#### **14.1.2 STUDENT FINANCIAL AID OFFICE**

The Student Financial Aid Office (SFAO) offered the following two new scholarships at undergraduate and postgraduate level from Academic year 2012:

- HEC French Need Based Scholarship
- HEC Needs Based Scholarship

#### **14.1.3 RS 32.904 MILLION SCHOLARSHIPS GIVEN TO GCU STUDENTS**

The GC University Lahore first-time gave away the a record amount of Rs 32.904 million to deserving students through various scholarships funded by internal and external resources. These scholarships were disbursed during the financial year 2012-13 among 942 needy students, who could not afford their academic expenses.

It is pertinent to mention here that the scholarships of Rs. 19.149 million were given away from the GCU Budget while Rs 73.45 were given to needy students from the donations of Old Ravians to GCU Endowment Fund Trust.

#### **14.1.4 GCU ENDOWMENT FUND TRUST (GCUEFT)**

In 2003, the GCU established an Endowment Fund Trust (GCUEFT) for raising endowment fund in a planned manner which could sponsor educational and development projects of the University.

With the financial support of Old Ravians (the old students of GCU), the GCUEFT has got accumulated Rs.150 million in few years' time which is a big success. In this regard GCU is a pioneer and role-model in public sector universities of Pakistan.

The Trust constituted an Executive Committee to work on its behalf. The committee has organized different cultural and social functions for fund raising. It also launched campaigns in students, old students of GCU and philanthropists to motivate them to give financial support to the trust. It has successfully managed to collect 150 Million rupees, and fixed deposited it in sound banks. Last year, the trust distributed about **7.3** Million rupees among **162** most deserving students of GCU to complete their degrees, which is exemplary achievement in public sector universities. Now it has almost **32** Golden Scholarships and **23** Silver Scholarships for the students. One Golden Scholarship gives Rs. 100,000/- to a student to cover his/her university fee and hostel expenses. Similarly, Silver scholarship gives Rs. 50,000/- which covers university fee of one student. Apart from these scholarships different packages of financial aid of Rs. 40,000, Rs. 35,000 and Rs. 25,000 are also given to the deserving students.

## **14.2 FUTURE PLANS**

### **14.2.1 ENDOWMENT FUND TRUST GC UNIVERSITY LAHORE**

The Executive Committee of Trust has planned to generate about 200 Million rupees per year; and in next ten years, a target of 1000 Million rupees has been set. It is expected that after 10 years, the trust would have enough amount in its kitty that not a single deserving student would be left unattended.

GCU would become an institution where students of marginalized families would not feel any hesitation to take admission because of academic expenses. For fund generation, it has been planned to arrange some cultural shows in England and the USA where a large number of Old Ravians live. Similarly, reputed banks, multinationals, establishments, chambers of commerce, and trader organizations would be approached to obtain financial support for the Trust.

### **14.2.2 ESTABLISHMENT OF NEW CAMPUS OF GCU, KALA SHAH KAKU, LAHORE**

The University aims to put in place a purpose built Campus at Kala Shah Kaku which will offer state-of-the-art facilities to the students and research scholars. Master Planning of the new Campus is almost completed, generous funding from the Federal Government / Govt. of the Punjab is required to establish this modern Campus.

Punjab Chief Minister and Old Ravian Najam Sethi laid a foundation stone of new campus of GC University Lahore at Kala Shah Kaku on 28-04-2013 and announced a grant of Rs 100 million for the initial infrastructural development of the 370-acres campus that would impart education to 60,000 students after complete development. The boundary wall construction has been accomplished.

The Academic Feasibility Study and Master Planning have also been completed and approved by the Syndicate. The PC-I has been prepared and near to submit for the development of new campus.

### **14.2.3 RENOVATION AND RESTORATION OF HISTORIC BUILDING OF MAIN GCU CAMPUS, LAHORE**

Renovation and Restoration of old building is about to commence. HEC / Planning Commission has approved Rs. 100 million for this purpose and releases of funds have been made.

### **14.2.4 FACULTY DEVELOPMENT PROGRAMME OF NEW CAMPUS, KALA SHAH KAKU, GOVERNMENT COLLEGE UNIVERSITY, LAHORE**

The programme "Faculty Development Programme for New Campus, Kala Shah Kaku" is designed to strengthen the faculty of New Campus. This project will be part of the project, "Establishment of New Campus of GCU, Kala Shah Kaku, Lahore".

### **14.2.5 RENOVATION / UPGRADATION OF EXISTING BUILDING GC UNIVERSITY CAMPUS, LAHORE (PHASE-I)**

Provincial Government has funded this project costing Rs. 23.490 million. Work will shortly commence.

### **14.2.6 UPGRADATION AND STRENGTHENING OF SCIENCE LABORATORIES OF GCU, LAHORE**

This project is aimed at modernization of Science Laboratories of GCU, Lahore with aim to:-

- a. Provide access to the students of Science Department to the latest laboratory equipment and consumable.
- b. Enable the faculty member of various specialization of GC University, Lahore to use sophisticated and precision equipment for their research projects.
- c. Fully exploit potentials of the faculty for that have been trained abroad.

PC-I of the project amounting to Rs. 252.1745 million has been submitted to HEC for approval.

### **14.2.7 EXTENSION OF GIRLS HOSTEL, GC UNIVERSITY, LAHORE**

This project is designed to provide additional accommodation facility for the female students of GCU Lahore and to reduce the growing demand-supply gap of hostel accommodation for the students seeking admission in our University. We are waiting for approval of the project from Govt. of the Punjab.



## **Chapter-15: HEALTH CENTRE/ MEDICAL FACILITIES**

### **15.1 MEDICAL FACILITIES AVAILABLE**

GC University Clinic is playing an important and significant role in dealing with patients which belong to two categories i-e Outdoor cases and Emergency cases. First Aid facilities are provided to Emergency cases in order to secure their lives. Students, as well as Academic and Administrative staff are being provided with copious number of medical facilities which are very beneficial to maintain their physical and mental health. To fulfill this aim, a wide range of medicines are available, both oral and injectable. It is equipped with all the basic and fundamental instruments for the examination and diagnosis of patients. Medical Officers and Paramedic staff are working with zeal and zest and giving their full devotion to work. During year 2012-13 11,287 patients were being treated at GCU Clinic.

The staff of GCU clinic is constituted by following:

- (i) Medical Officer (Male)
- (ii) Medical Officer (Female)
- (iii) Dispenser
- (iv) Attendant

#### **15.1.1 CASES PRESENTED IN GCU CLINIC**

##### **Usual cases:**

Sorethroat, Gastroenteritis, Allergy, Asthma, Urinary tract infections, Trauma, Infected wounds, Hypertension, Diabetes Mellitus, Migraine, jaundice, Hepatitis C and Skin Diseases etc.

##### **Rare Case:**

Sites Inverses, Kartagener's Syndrome, Gilbert Syndrome

#### **15.1.2 MEDICINES AVAILABLE**

- Analgesics (Oral, Injectable)
- Antibiotics (Oral)
- Antiallergics (Oral, Injectable)
- Antiseptics
- Anti-inflammatory (Oral)
- Steroids (Injectable)
- Antihypertensive (Oral)
- Fluids (Oral, Injectable)

### 15.1.3 EQUIPMENT AVAILABLE

- Sphygmomanometer (B.P Apparatus)
- Stethoscope
- Glucometer
- Nebulizer
- Oxygen cylinders
- ECG machine
- Needle cutters
- Statures
- Ambulance service is provided to shift the emergency cases to the nearest tertiary care hospital

## PHOTO SECTION

### STONE LAYING CEREMONY AT KALA SHA KAKU CAMPUS



### VISIT OF NITISH KUMAR, C.M. BIHAR, INDIA



### 113<sup>th</sup> ANNUAL SPORTS







**LAPTOP DISTRIBUTION CEREMONY**



**6<sup>th</sup> WORLD CONFERENCE AT ASSMS**



## 11<sup>th</sup> CONVOCATION

