

Annual Report 2013-14

University of Gujrat



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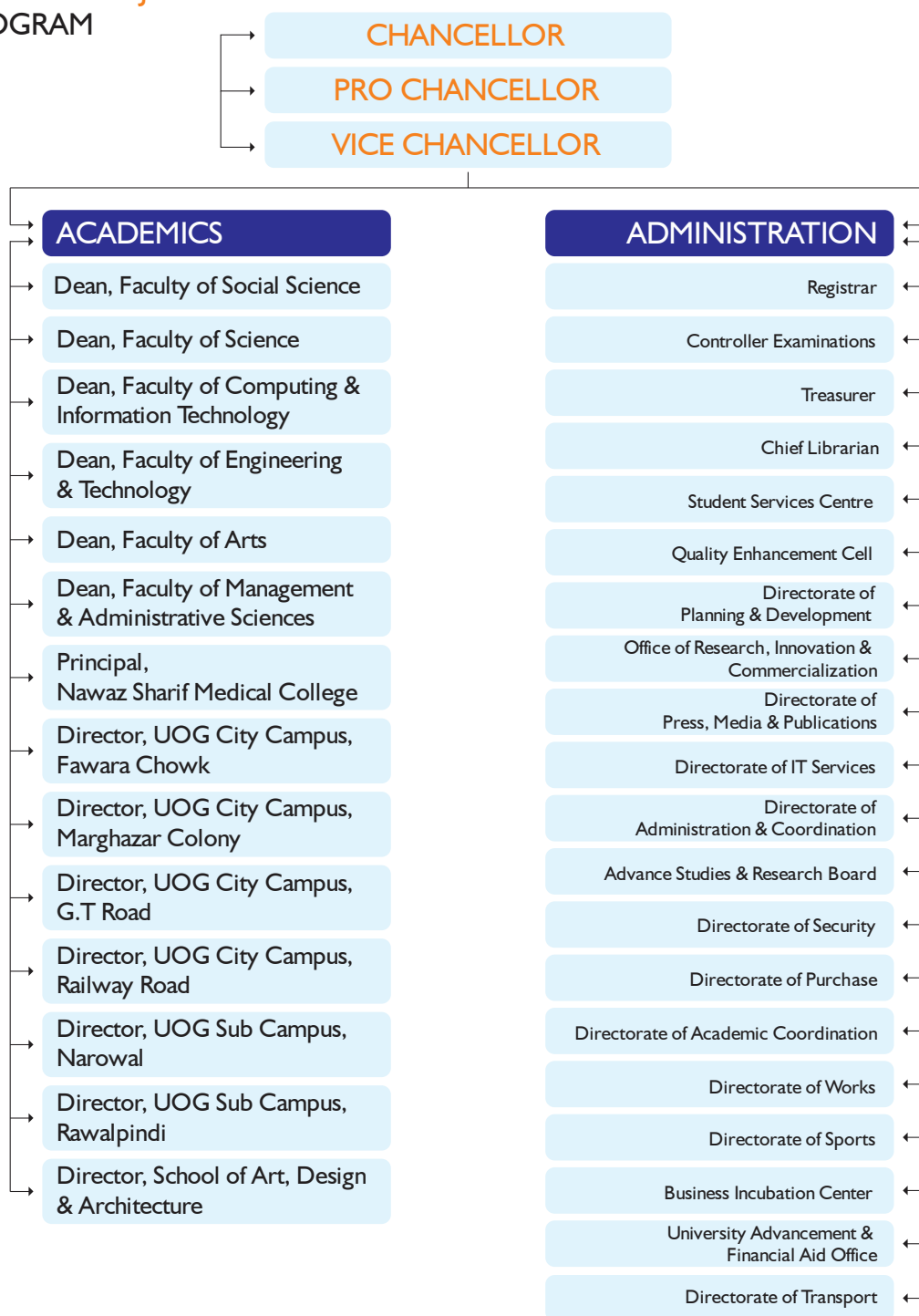
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UNIVERSITY OF GUJRAT ORGANOGRAM



Executive Summary

- University of Gujrat (UOG) was established in 2004 by Higher Education Department, Government of the Punjab 12 kms away from the Gujrat city for upholding literacy rate in Central Punjab with the aim to promote quality of education at all levels. The objective of establishing UOG in Gujrat is to modernize the higher education standards at national level. UOG improves the higher education sector by introducing qualitative education with research & development culture in a short span of time. This Annual Report for the year 2013-14 provides key information regarding facts of the university with its vision, mission and goals set to be achieved. Chapter wise details are as under:
- **Chapter-I** reflects the academic activities, which were carried out by UOG in the reporting period. These academic activities designate numerous programs at various degree levels being offered by UOG including marvelous academic achievements, foreign and institutional linkages as well as honours and awards bestowed upon UOG faculty and students in 2013-14.
- **Chapter-II** highlights Research and Development activities, which include ongoing as well as completed projects, publications of faculty member, research journals introduced by UOG and conferences, seminars and workshops etc. UOG's young and energetic faculty is dynamically involved in disseminating their research work in renowned national and international research journals. Office of Research, Innovation & Commercialization (ORIC) plays an important role to facilitate/execute research activities during 2013-14.
- **Chapter-III** refers to Quality Assurance of the university as per Higher Education Commission, Islamabad for ascertaining the impacts of quality assurance precisely, while

accentuating on the initiatives taken by Quality Enhancement Cell (QEC), UOG for cultivating of educational standards. The foremost emphasis of quality assurance program is unceasing proficient progress of faculty, preparation of self-assessment information, academic appraisal and assessment of the academic departments operational within the Quality Assurance (QA) charter.

- **Chapter-IV** indicates the Faculty Development programs comprising chances for improving academic qualification through available scholarship programs under different arrangements and further university undertaking steps for pre-service and in-service professional development programs/trainings etc.
- **Chapter-V** includes student's basic enrollment during reporting year at different levels with UOG policy towards employability for reflecting merit only. It also highlights faculty-student ratio for knowing the real strength of faculty and students.
- **Chapter-VI** shows university-industry linkages for promoting research in unattended areas according to market requirements and career guidance, internship and placement services of passed out students during 2013-14.
- **Chapter-VII** expresses steps carried out by UOG for the strengthening of its physical infrastructure, including ongoing and completed development projects/schemes of academic blocks/facilities, libraries and research equipment.
- **Chapter-VIII** purely designates the key facts of solidification of technological set-up such as digital library, PERN, video conferencing, campus management solution and web portal during the reporting year.
- **Chapter-IX** focuses on UOG's sky starring role and contributions in developing indigenous community by educating youth. This chapter also highlights the university-community interaction and its fruitful results.
- **Chapter-X** reveals UOG students' contributions and achievements in the area of Sports at national level for promoting educational linkages with healthy nation.
- **Chapter-XI** summarizes the awards and honors achieved by UOG faculty and participation of students in co-curricular activities during 2013-14 for claiming their talents. This chapter also furnishes information regarding faculty and student leadership under certain affable environment.
- **Chapter-XII** portrays financial position of UOG during the identified period for carrying out its academic activities.
- **Chapter-XIII** presents the information of UOG governance and management structure within area of working during the reporting year.
- **Chapter-XIV** exhibits UOG's initiatives and approaches to create and grow financial capital. UOG took several steps for catering its needs through its own sources. More than 70% of its expenditures are debited through its own sources.
- **Chapter- XV** indicates the success of UOG for establishing medical facilities in the shape of Nawaz Sharif Medical College (NSMC) for improving health facilities in Gujrat and promoting medical education in Central Punjab.

About the University



In 2004, the Punjab assembly, led by the then Chief Minister, Chaudhry Pervez Elahi, established UOG on the vacant land adjoining the shrine of Saint Hafiz Muhammad Hayat by passing an Act for establishment of the University. As per provision of this Act, the Government College, Gujrat, the Government Degree College for Women, Railway Road, Gujrat, the Fatima Jinnah College for Women, Gujrat and the Government College for Women, Marghzar Colony, Gujrat were reconstituted as the University of Gujrat. Soon after this development, the construction of new campus at Hafiz Hayat location began. In 2006, the university started working at this campus. It now works under the administrative control of the Secretary, Higher Education, Punjab, as a Provincial Public Sector University. However, the university is compliant to HEC in reference to policy, standard and quality of higher education.

The on-going public sector mega project, “Establishment of University of Gujrat”, reflects the upshot of the Punjab Government’s efforts and commitment to provide higher education according to the needs of peripheral areas of Gujrat, Gujranwala, Kharian, Sialkot, Wazirahbad, Mandibahuldin, Jhelum and Daska. University's main campus, i.e., Hafiz Hayat Campus was established on 983 Kanal and 09 Marlas of land at a distance of 12km from Gujrat city in a pollution-free scenic environment. This campus was designed artistically by the renowned architects of Government of the Punjab according to modern era educational set-ups, which

fascinates the visitors and other dignities. It has new majestic buildings with all the basic facilities to educate the remote area population. The university design comprises purpose-built classrooms and laboratories, a state-of-the-art digital library, conference halls, and multi-storied buildings for different departments. Lush green lawns, separate hostels for boys and girls, playgrounds, and modern residences for both teaching and non-teaching staff have enhanced the beauty of the campus manifold. Moreover, many other important development and research projects are currently in pipeline for seeking approval from their concerned competent forums.

This Annual Report FY 2013-14 is a comprehensive document reflecting the university's progress by contributing faculty, staff and students academic achievements with listed activities. This report covers the academic activities, events and progress that took place from July 2013 to June 2014. The pertaining record also highlights the challenges faced by our young, energetic faculty to carry out academic work with minimum available resources. Another objective of this report is to demonstrate our prospective students, funding and industry partners. This shows significant impact of the University and its eager commitment regarding educating youth of our nation.

Affiliated Colleges

UOG has steadily been accepting degree colleges' affiliations, which are ready to abide by the rules and regulations of the university. In 2013-14, the number of affiliated colleges had risen to ninety-one (91) at various degree programs. The purpose of affiliation of colleges with UOG is to promote higher education and to improve the educational standards.

UOG Vision, Mission & Commitment

UOG has developed its strategic vision for focusing on quality of education, research and innovative higher learning at national level with collaboration of renowned international prestigious institutes to teach the young people with modern era tools and techniques for easy access as a "World Class University". On same lines, UOG has its mission with the commitment to educate the young people in diverse areas of economy, social & scientific policy, science & technology and innovative research. It also encourages remote area youth for education, particularly females. UOG is also emphasizing to improve higher learning set-ups to educate the people of Pakistan with the aim to rise-up literacy rate for competing globally.

Students

Five thousand five hundred and thirty one (**5531**) students attained admission in various degree programs during the academic year 2013-14 at Hafiz Hayat Campus, UOG, four (04) City Campuses and a Medical College. Overall, 10,749 student are studying at Hafiz Hayat Campus, 8944 students in four (04) City Campuses and 431 students in Medical College. This increase refers to successful growth of university, which is attributed to factors such as introduction of new programs, maturity of existing programs, hiring of new faculty for expanding research.

Faculty

In order to offer variety of programs, UOG is enticing leading scholars and researchers in a variety of disciplines. However, most of the university faculty is young and committed to promote research and quality of education according to university vision and mission. Over 50 Faculty members were recruited during 2013-14. The strength of faculty members is over six hundred. This was witnessed as significant growth in the academic year 2013-14.

National and International Linkages

UOG constitutes (04) City Campuses and one (01) Medical College and has ninety-one (91) affiliated colleges. Along with its own campuses and affiliated colleges, UOG endeavors to establish linkages with national and international academic institutes and industry.

Research

UOG's most distinguishing feature is its emphasis on research. University faculty members undertook over ten (10) major research projects during 2013-14. Faculty members also published more than three hundred (300) research papers in various national and international renowned journals in reporting year including two (02) books.

UOG performed certain principal functions, which are as under:

- Provided basic facilities for higher learning and innovative research according to modern era standards.
- Reassured spreading, improvement, expansion and solicitation of knowledge in a scientific way.
- Delivered study courses/curricula with wide range of arenas and also carried out research to meet the needs of indigenous population as well as local market requirement.
- Partook in Public Discourse
- Awarded and conferred degrees at different levels including BS, MA/MSc MPhil/MS and PhD also awarded certificates and diplomas under various arrangements.
- Provided teaching for quality of education with forward-thinking knowledge and enquiry.
- Ensured University-Industry Linkage for extending innovative research in those areas, which need to be explored.

Printing Press and Digital Media

UOG has established its own printing press to facilitate the work of its researchers and to meet the printing needs of the university. This printing press has state of the art equipment that includes pre-press, printing press and post press machines. Along with print media services, university also has digital communication capability, which operates throughout the campus.

Events

The university has organized various conferences and workshops during 2013-14. In those events distinguished participants contributed to the learning of students. Along with academic events, the university has also organized sports events such as Inter-Department Sports Competitions, Inter-Varsity Championship, and Sports gala. The motive behind such sporting events is to motivate students to achieve excellence in sports and to enhance the sense of achievement and character building. The university has organized a career fair to bring together the students and potential employers from various organizations and industries. As a result of career fair, many students attained internships and jobs in those private sector establishments.

Quality Assurance

A Quality Enhancement Cell (QEC) has been established to improve the quality of education and services offered by UOG. The QEC is engaged in a variety of activities such as conducting surveys, organizing workshops and monitoring of teaching classes to ensure quality of pedagogy. It was a milestone event in the history of UOG reflecting the efforts being made to maintain high standards among teaching departments and research centers in the university.

Planning & Development Directorate

As the university is growing rapidly, Planning & Development Directorate has been established with the mandate of sustaining its growth and coordinating its inter and intra university planning and development activities. The directorate is engaged in securing funds for maintaining university's ongoing operations as well as expansion of its various departments, teaching and laboratory facilities. The Directorate of P&D has prepared policies and plans for developmental projects and catering the needs of rapidly expanding academia and research activities.

Office of Research, Innovation and Commercialization

The Office of Research, Innovation & Commercialization (ORIC) was established in September 2011 in pursuance of the policy of Higher Education Commission (HEC) Islamabad, to make Research a top Priority for a sustainable economic growth and future knowledge economy. The purpose of ORIC is to serve as a pivotal point to encompass all the research activities, develop, expand, enhance and manage the university's research programs/activities. ORIC performs some important functions, i.e. i) setting the strategic research guidelines and policies in accordance with the university's R&D vision, ii) Ensuring conducive Research and Development culture, so that research remains an integral component of academic activities at UOG, and iii) Encouraging and enhancing the University's Entrepreneurial Environment by strengthening university-industry relationships as well as expanding partnerships with public and private sector organizations including national and international donors and all other community-based organizations.

On-Campus Facilities

Hostels are available on campus for lodging of both male and female students. A hostel is devoted for the female faculty members. These hostels are equipped with facilities such as mess, kitchen, computer labs and gymnasium. UOG also provides transportation to students and faculty at nominal cost. Transportation pool supports university's goal of delivering quality education by offering pick and drop services to far flung areas such as Sialkot, Kharian, Gujranwala, Daska, Jhelum, Dinga, as well as many villages of Gujrat and neighboring districts. To make on-campus life more comfortable, the university has managed to open a branch of a commercial bank, a post office and a day care facility in its premises.

Chapter-1

Academic Activities

University of Gujrat (UOG) continues to improve and expand its academic programs, striving to achieve international educational standards. Its aim is to mentor and produce technical, innovative, research oriented and professionally skilled students. In 2013-14, UOG has introduced a variety of programs at various levels, i.e., Undergraduate, Graduate, Masters, MPhil and PhD.

1.1 Undergraduate and Postgraduate Programs

UOG offers a number of Undergraduate and Postgraduate programs in various disciplines. UOG is the first public sector university in Pakistan, which has introduced two years Associate Degree Program after intermediate to equip the students with technical skills and BS degree after intermediate in the province of Punjab. UOG offered undergraduate programs, i.e., one (1) Diploma/Certificate, six (6) Associate Degree Programs, forty (40) BS Degree Programs and twenty three (23) Master's Degree programs. Details of programs are as follows:

A) Diploma/Certificates	
1) Professional Diploma in Clinical Psychology	
B) Associate Degree	
1) Associate Degree in Textile Design	4) Associate Degree in Information Technology
2) Associate Degree in Paralegal	5) Associate Degree in Commerce and Accountancy
3) Associate Degree in Hotel and Restaurant Management	6) Associate Degree in Education
C) BSc/BS (Hons.) / LLB(Hons)/ B.Com (Hons) / B.Arch (4-5 years programs)	
1) Bachelor of Architecture	21) BS in Mass Communication & Media
2) Bachelor of Design in Ceramic Design	22) BS in English
3) Bachelor of Design in Communication Design	23) BS in Islamic Studies
4) Bachelor of Fine Arts	24) LLB (Hons)
5) Bachelor of Design in Multimedia Arts	25) BS in Computer Science
6) Bachelor of Design in Product Design	26) BS in Information Technology
7) Bachelor of Design in Textile Design	27) BS in Software Engineering
8) Bachelor of Science in Chemical Engineering	28) BS in Botany
9) BS in Chemical Technology	29) BS in Biochemistry and Molecular Biology
10) Bachelor of Science in Electrical	30) BS in Chemistry

Engineering	
11) BS in Electrical Technology	31) BS in Environmental Sciences
12) BS in Mechanical Technology	32) BS in Geography
13) BS in Mathematics	33) BS in Physics
14) BS in Statistics	34) BS in Zoology
15) BS in Banking and Finance	35) BS in Accounting and Finance
16) Bachelor of Commerce (Hons)	36) Bachelor of Business Administration
17) BS in Economics	37) B.Ed (Hons) (Elementary)
18) BS in History	38) BS in Political Science
19) BS in International Relations	39) BS in Psychology
20) BS in Sociology	40) MBBS (offered by UOG Medical College through University of Health Sciences, Lahore)
D) Masters Programs	
1) Masters in Mass Communication	13) Master of Arts in English
2) Master of Arts in Islamic Studies	14) Master of Science in Physical Education and Sports Sciences
3) Master of Science in Computer Science	15) Master of Science in Information Technology
4) Master of Science in Botany	16) Master of Science in Chemistry
5) Master of Science in Mathematics	17) Master of Science in Physics
6) Master of Science in Statistics	18) Master of Science in Zoology
7) Master of Commerce	19) Master of Business Administration (1.5 Years)
8) Master of Arts in Sociology	20) Master of Science in Psychology
9) Master of Arts in International Relations	21) Master of Arts in Political Science
10) Master of Arts in History	22) Master of Arts in Education
11) Master of Science in Economics	23) Master of Science in Biochemistry and Molecular Biology
12) Master of Science in Biotechnology	

1.2 MPhil/MS and PhD Programs

UOG offered 31 MPhil/MS programs and 11 PhD programs in various market based disciplines. Details of these programs are as under:

A) MPhil/MS Programs	
1) Master of Philosophy in Fine Arts	17) Master of Philosophy in Applied Translation Studies
2) Master of Philosophy in Mass Communication & Media	18) Master of Philosophy in English Literature & Linguistics
3) Master of Philosophy in Islamic Studies	19) LLM
4) MS in Computer Science	20) MS in Information Technology
5) Master of Science in Chemical Engineering	21) Master of Science in Electrical Engineering
6) Master of Philosophy in Biochemistry and Molecular Biology	22) Master of Philosophy in Biotechnology
7) Master of Philosophy in Botany	23) Master of Philosophy in Chemistry
8) Master of Philosophy in Environmental Sciences	24) Master of Philosophy in Geography
9) Master of Philosophy in Mathematics	25) Master of Philosophy in Physics
10) Master of Philosophy in Statistics	26) Master of Philosophy in Zoology
11) Master of Business Administration (3.5 Years)	27) MS in Business Administration
12) Master of Philosophy in Economics	28) Master of Philosophy in Education
13) Master of Philosophy in History	29) Master of Philosophy in Pakistan Studies
14) Master of Philosophy in Political Science	30) Master of Philosophy in International Relations
15) Master of Philosophy in Psychology	31) Master of Philosophy in Sociology
16) Master of Philosophy in Multimedia Arts	
B) PhD Programs	
1) PhD in Mass Communication & Media	7) PhD in Biochemistry and Molecular Biology
2) PhD in Botany	8) PhD in Biotechnology
3) PhD in Chemistry	9) PhD in Statistics

4) PhD in Zoology	10) PhD in Business Administration
5) PhD in Economics	11) PhD in Psychology
6) PhD in Sociology	

2. Academic Achievements

A number of academic milestones have been achieved by UOG within a short span of time at the national and international levels. Due to a large portfolio of academic achievements, it is a matter of extreme pride for UOG that in the recent Quality and Research based Ranking of Universities, published by the Higher Education Commission (HEC) Pakistan, UOG has been placed among the Top twenty universities in General (Large-Sized) category at the national level. This exhibits the rapid pace it has attained to reach at the apex of excellence with a rich blend of quality and quantity. UOG accomplished numerous academic achievements during 2013-14. Details of academic achievements are as under:

- 1) New Undergraduate, Graduate and Postgraduate programs were introduced in various disciplines.
- 2) Students of Department of Education in Associate Degree, BS (Hons) and MA Education completed their degrees.
- 3) The thesis/research work of students of BS Textile Design displayed.
- 4) Department of Physics attained following academic achievements during 2014-15 according to its set goals:
 - Designing and fabrication of Dip Coater
 - Biometric fingerprints based attendance and security system
 - Heater for thin film growing in pulsed laser deposition
- 5) More than three hundred (300) research publications including two (02) books of faculty members were published.
- 6) Over fifty (50) faculty members were recruited/hired at various levels for eliminating the deficiency of departments and smooth functioning of academic work with the aim to ensure quality of education and promotion of research culture.
- 7) Ninety-one (91) colleges were affiliated with university in different subjects for improving the higher education standards at college level.
- 8) A development project titled “Extension of P Block at UOG” amounting to Rs 99.00 Million was initiated during the reporting year according to academic requirements of Architecture Department and its accreditation with PCATP.
- 9) The two (02) major development projects/schemes i.e., establishment of UOG, and construction of Multipurpose Hall at UOG were completed.
- 10) A major development project titled “Strengthening and Expansion of University of Gujrat and its Allied Campuses” was submitted to Higher Education Comssion, Islamabad for

amounting to Rs.2988.147 Million for establishing new Sub-Campus at Narowal and provision of missing facilities at Hafiz Hayat Campus, UOG.

3. Foreign Academic Linkages

UOG established academic linkages with prestigious international higher education institutes for promoting academic and research activities according to changing patterns of international trends. UOG has also developed a strategic plan for strengthening academic relations with leading national and international universities and research institutions to tackle the challenges of modest academic world. These foreign links provide the access to focus on growing worldwide consciousness of students and faculty for the solidification of research and knowledge exchange. During 2013-14, UOG developed links with following international institutions of mutual cooperation:

- 1) University of Oklahoma, USA

4. Honours and Awards

UOG faculty and students secured honours and awards in different fields on the basis of their excellent performance. Details are as under:

- 1) Dr. Muhammad Asam Raza, Assistant Professor, Department of Chemistry received award from PCST Islamabad on the basis of his excellent performance in Research Productivity.
- 2) Dr. Muhammad Ashraf, Assistant Professor, Department of Chemistry received International Fellowship from Chinese Academy of Science.
- 3) Dr. Muhammad Nadeem Zafar, Assistant Professor, Department of Chemistry received travel grant from Higher Education Commission, Islamabad to present his research paper in 23rd conference held in Canada.
- 4) Dr. Muhammad Nadeem Zafar, Assistant Professor, Department of Chemistry received travel grant from Higher Education Commission, Islamabad to present his research paper in 4th International conference in held Portugal.
- 5) Mr. Ghafar Mohiudin, Assistant Professor, Ceramics Design Department received “Best Director” award, i.e., “Qissah” from University of Agriculture, Faisalabad.
- 6) Mr. Ghafar Mohiudin, Assistant Professor, Ceramics Design Department received 1st prize for his best theatre play during 16th All Pakistan Performing Art Competition, GIKI, Pakistan.
- 7) Mr. Ghafar Mohiudin, Assistant Professor, Ceramics Design Department received Best Director award for his best theatre play during 16th All Pakistan Performing Art Competition.
- 8) Mr. Ghafar Mohiudin, Assistant Professor, Ceramics Design Department received 1st prize for his Art & Craft competition during Punjab Youth Festival.
- 9) Mr. Tahir Hafeez Tarar, student of department of computer science got first (1st) position in Music competition from Punjab Youth Festival.
- 10) Mr. Tahir Hafeez Tarar, student of department of computer science got first (1st) position in 400-meter race competition of Punjab Youth Festival.

- 11) Mr. Tahir Hafeez Tarar, student of department of computer science got first (1st) position in 400-meter race competition of Annual Sports Gala, UOG.
- 12) Mr. Tahir Hafeez Tarar, student of department of computer science got second (2nd) position in 800-meter race competition of Annual Sports Gala, UOG.
- 13) Mr. Tahir Hafeez Tarar, student of department of computer science got first (1st) position in relay race competition of Annual Sports Gala, UOG.
- 14) Mr. Tahir Hafeez Tarar, student of department of computer science received the title of best cricket player of Inter-faculty cricket championship, UOG.
- 15) Syed Burhan-ul-Hassan, student of department of computer science received the title of best wicket keeper in cricket of Inter-faculty cricket championship, UOG.
- 16) Mr. Ali Haider, student of department of Information Technology won the speed competition of Annual Sports Gala, UOG.
- 17) Mr. Ali Haider, student of department of Information Technology received the title of best football player of Inter-faculty football championship, UOG.
- 18) Mr. Ali Haider, student of department of Information Technology was selected student partner of Microsoft Virtual Academy.
- 19) Ms. Aliya Amjad, student of department of Fine Arts won 1st prize in painting competition arranged under All Pakistan Young Artist Award held at Lahore Art Council.
- 20) Ms. Laraib Majeed, student of department of Fine Arts won 1st prize in painting competition arranged under All Pakistan Young Artist Award held at Lahore Art Council.
- 21) Mr. Umair Lodhi and Mr. Naeem Shazad, students of department of Ceramics Design received 1st prize during Art & Craft Clay work competition of Punjab Youth Festival, 2013.

5. Institutional Linkages

UOG has strong linkages with local public and private sector universities, institutions and other organizations for collectively flourishing research culture. During 2013-14, UOG's departments established following institutional linkages:

- i. Physics department established its linkages with National Center for Physics (NCP), Islamabad.
- ii. Ceramics Design department established its linkages with: i) TEVTA Ceramics Institute, ii) SAFI Ceramics, iii) All Pakistan Pottery Association, iv) Jadon Ceramics, v) Leader Ceramics, and vi) Warriach Ceramics.

Chapter-2

Research and Development

2.1 R&D: An Overview

Research and development activities of University of Gujrat are managed by Office of Research, Innovation & Commercialization (ORIC). ORIC provides facilitation to all the research centers as well as faculties of the university. This Office was established in September 2011 in pursuance of the policy of Higher Education Commission (HEC) Islamabad, to make Research a top priority for a sustainable economic growth and future knowledge based economy. The purpose of this Office is to serve as a pivotal point to manage all the research activities, develop, expand and enhance the university research programs. It links research activities directly to the educational, social and economic priorities of the university and its broader community, under a single umbrella. 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.

ORIC is striving hard to promote and strengthen the research culture in all disciplines of UOG to bring it at par with other institutions of higher learning within the country and abroad. It is prodding students and faculty to maintain the highest standards of research. ORIC has positively set the pace to match up to the challenges in the field of Research and Commercialization. ORIC provides end-to-end services for all matters pertaining to research & development, innovation, inventions, commercialization, patents, collaborations, and for arranging seminars/ symposiums/ conferences and workshops.

Key role of ORIC is:

- Setting the strategic research directions and policies in accordance with the university's Research and Development (R&D) vision.
- Ensuring conducive Research and Development culture, so that research remains an integral component of academic activities at UOG.
- Encouraging and enhancing the University's Entrepreneurial Environment by strengthening university-industry relationship as well as expanding partnerships with public and private sector organizations of national and international donors and all other community-based organizations.

ORIC realizes the need to positively contribute in developing R&D and to play its role in transforming the economic focus of the country through strengthening of institution to institution and academia- industrial ties. ORIC is keenly involved in establishing linkages with academia, industry and the community to carry out different projects. Besides this, ORIC has signed a number of MOUs with local and regional industries to provide them industrial solutions along with the innovative ideas.

The ORIC performs certain operational activities to support the university, which are as follows:

- Developing and implementing the University's research policy.
- Fund-raising for research.

- Ensuring effective distribution and efficient use of research funds, in line with the priorities identified in the University's strategic plan.
- Setting standards and ensuring effective dissemination of high quality research output.
- Representing the interests of the University.
- Registration, patenting and commercialization of intellectual property.
- Promoting entrepreneurship, technology-transfer and commercialization activities that energize and support the local and national economy.
- Promoting and enhancing cross- cutting and multi-disciplinary research initiatives
- Processing the research proposals of UOG Faculty for seeking funding from HEC or other donor agencies.
- Channelizing research grant applications to the respective donor organizations and preparing technical reports thereof.
- Establishing links with donors and industry for enhancing research collaboration and sharing research results.
- Arranging and conducting seminars, conferences and training workshop programs for faculty awareness, development and faculty industry interaction.

Existing Facilities/ Research Centers in UOG

- Centre for Population, Urban and Environment Studies (CPUES)
- Institute of Natural Sciences
- Institute of Life Sciences
- Centre for Research in Emerging and Applied Technologies (CREAT)
- Software Development and Maintenance Cell (SDMC)
- Centre for Media and Mass Communication (CMMS)
- Arfa Karim Professional Skill Development Centre

2.1 Research Projects

Our young, energetic and talented faculty members approached, through their concerned offices/ departments, to national as well as international institutions / organizations for funding of their specific research projects. The university's research centers and academic departments actively participate to tap all such opportunities to win research projects from HEC and other donor research organizations. During last academic year (2013-14), several projects were initiated on the basis of funding from various sources.

The list of completed, on going and pipeline projects has been depicted below along with amount and source of funding.

2.2.1 Completed Projects

S N	Title of Research Proposal	Amount Approved (Rs.)	Date of Approval	Sponsoring Agency
1	Solar Powered Fiber Optical Lightning System.	Rs 55,000/-	9 May 2014	National ICT R&D Fund
2	Intelligent Power Sharing of Transformer with auto Protection & GSM Monitoring.	Rs 59,793/-	9 May 2014	National ICT R&D Fund
3	Voice Recognition Solar Vehicle.	Rs 73,750/-	9 May 2014	National ICT R&D Fund
4	Raspberry Pi Car Automation	Rs 49,750/-	9 May 2014	National ICT R&D Fund
5	Wireless Health Monitoring System	Rs 58,750/-	9 May 2014	National ICT R&D Fund
6	Enhancement of Usability and User Acceptance for Farmers	Rs 70,000/-	9 May 2014	National ICT R&D Fund
7	A Comparative Analysis of Child Maltreatment among Hearing Impaired, their Siblings and Normal Children	Rs 356,000/-	December 2013	HEC

2.2.2 Newly Launched/Approved Projects

Following research projects are being launched by UOG faculty members as well as approved by Higher Education Commission, Islamabad and other international agency:

Sr. No	Title of Research Proposal	Approved Amount	Date of Approval	HEC Ref. No.
1	Express Analysis and Proteomic Studies of Stress Responsive Genes	Rs 0.070 Million	23 October 2013	No: PM- IPFP/HRD/HEC/2011/22 62
2	Advancement of fuel technology with efficient homogenous water oxidation catalysis: as approach towards green and sustainable future	Rs 3.03 Million	23 May 2014	20-3257/NPRU/ R & D/ HEC/13/691
3.	Norwegian Center for the Advancement of Social Sciences (NCASS)	3.09 NOK	20 March 2014	Pak Norway Institutional Co-operation Programme sponsoring agency in collaboration of Oslo and Akershus University College.

2.3 Publications

UOG faculty members and students of research academic programs according to research policy centers are dedicated to delivering bold, new innovative ideas. The university Faculty members are perpetually writing articles, books, reports and working papers to strengthen research culture. The Directorate of Media and Publications is dedicated to facilitate for publication through national and international renowned publishers, in journals and newspapers. Faculty and students published 339 Research papers in various journals and authored two (02) books during the year 2013 and 2014. The details of Publications are given below:

UOG Faculty Publications 2013 (164)

Year 2013				
S#	Authors	Department, Faculty	Paper Title	Name of Journal
1	Fiaz Majeed	Department of Information Technology, Faculty of Computing and Information Technology	A Natural Language based Retrieval System for the Data Warehouse	Pakistan Journal of Science
2	Fiaz Majeed	Department of Information Technology, Faculty of Computing and Information Technology	A Rule-Based Natural Language Interface to Data Warehouse	International Journal of Multidisciplinary Sciences and Engineering
3	Zahid Anwar, Muhammad Gulfraz and Muhammad Irshad	Department of Biochemistry, Faculty of Science	Agro-industrial lignocellulosic biomass a key to unlock the future bio-energy: A brief review Radiation Research and Applied Sciences	Journal of Radiation Research and Applied Sciences
5	Naeem Mahmood Ashraf, Awais Asif	Department of Biochemistry, Faculty of Science	Current scenario of Aflatoxin Burdon: A Review of Pakistani Food Chain.	Journal of Public Health and Biological Sciences
6	Fiaz Majeed	Department of Information Technology, Faculty of Computing and Information Technology	Extending HTML5 Local Storage to Save More Data; Efficiently and in More Structured Way	IEEE International Conference on Digital Information Management (ICDIM)

7	Mujahid Farid, Muhammad Bilal Shakoor, Sana Ehsan, Shafaqat Ali, Muhammad Zubair and Muhammad Asif Hanif.	Department of Chemistry, Faculty of Science	Morphological, physiological and biochemical responses of different plant species to Cd stress.”	International Journal of Chemical and Biochemical Sciences.
8	Naeem Mahmood Ashraf, Hamid Ali & Rabia Javed	Department of Biochemistry, Faculty of Science	Review of Bordetella pertussis Pathology, Epidemiology And Immune Response.	Journal of Public Health and Biological Sciences
9	Muhammad Nadeem zafar, Abdul wahid, Muhammad afzal Ghauri, Muhammad Zubair, Muhammad Waseem Mumtaz, Farooq anwar, Muhammad Danish.	Department of Chemistry, Faculty of Science	Trichoderma hazarianum: A green sorbent for Pb (II) uptake from aqueous solutions.”	Toxicological & Environmental Chemistry.
10	Mirza Naveed Shahzad	Department of Statistics, Faculty of Social Science	Comparing TL-Moments, L- Moments and Conventional Moments of Dagum Distribution by Simulated data	Revista Colombiana de Estadística
11	Jamshad Ahmad and Syed Tauseef Mohyud-Din	Department of Mathematics, Faculty of Science	Solving Fractional Vibrational Problem Using Restarted Fractional Adomian’s Decomposition Method	Life Science Journal
12	M. N. Asghar, A. Javaid, M. Shafique, I. Nadeem, M. Ashfaq, S. Shahid	Department of Chemistry, Faculty of Science	GC-MS and antioxidant capacity analyses of cowpea seeds oils.”	Nutrition and Food Sciences.
13	Aliyha Ghumman	Psychology, Social Sciences	Role of Locus Control in Marital Adjustment among	World Applied Sciences Journal

			School Teachers: A Study of Working Women in Gujrat-Pakistan	
14	Shafiq-ur-Rehman, Durre Shahwar, Muhammad Asam Raza, Afifa Saeed, Faiza Ilyas and Saba Qaiser.	Department of Chemistry, Faculty of Science	Evaluation of acetylcholine esterase and protease inhibitory potential of <i>Sonchus oleraceus</i> , <i>Melia azedarach</i> and <i>Citrus sinensis</i> .”	Asian J Chem.
15	Aadil Abbas, Rabia Rehman, Shahzad Murtza and Rabia Ayub.	Department of Chemistry, Faculty of Science	Isothermal Evaluation of Chemical Modification of <i>Ricinus communis</i> Stem Used for Adsorptive Removal of Brilliant Blue FCF Dye from Water.”	Asian Journal of Chemistry
16	Tahir Iqbal	ICBS, Zoology	Optimization of chemical kinetics for base catalyzed transesterification of <i>Eruca sativa</i> oil.	Asian Journal of Chemistry.
17	Muhammad Waseem Mumtaz, Muhammad Asam Raza, Ahmad Adnan, Hamid Mukhtar, Irum Perveen,	Department of Chemistry, Faculty of Science	Optimization of Chemical Kinetics for Base Catalyzed Transesterification of <i>Eruca sativa</i> oil.”	Asian J. Chem.
18	M. Ibrahim, S. Ambreen, A. Hussain, N. Hussain, M Imran, B Ali, S.H. Sumrra and F. S. Rehmani.	Department of Chemistry, Faculty of Science	Phytochemical Investigation on <i>Euclayptus globulus</i> Labill”.	Asian J. Chem.
19	Dr. Zahoor Ahmad	Department of Statistics, Faculty of Social Science	Generalized Estimator of Population Mean for Two Phase Sampling using Multi-Auxiliary Variables in the Presence of Non-Response at First Phase for No Information Case.	Pakistan Journal of Statistics, Plot No. 44-A, Civic Centre, Liaquat Chowk, Sabzazar Scheme, Multan Road Lahore.

20	Dr. Zahoor Ahmad	Department of Statistics, Faculty of Social Science	Generalized Regression Estimators under Two Phase Sampling for Partial Information Case	Pakistan Journal of Statistics, Plot No. 44-A, Civic Centre, Liaquat Chowk, Sabzazar Scheme, Multan Road Lahore.
21	Dr. Zahoor Ahmad	Department of Statistics, Faculty of Social Science	Variance Estimation in Two-Phase Sampling using Multi-Auxiliary Variables in the presence of Non-Response	Pakistan Journal of Statistics, Plot No. 44-A, Civic Centre, Liaquat Chowk, Sabzazar Scheme, Multan Road Lahore.
22	Dr. Muhammad Asam Raza	Department of Chemistry, Faculty of Science	Evaluation of acetylcholine esterase and protease inhibitory potential of Sonchus oleraceus, Melia azedarach and Citrus sinensis	Asian J Chem
23	Dr. Muhammad Asam Raza	Department of Chemistry, Faculty of Science	Optimization of Chemical Kinetics for Base Catalyzed Transesterification of Eruca sativa oil	Asian J Chem
24	T. Shahzadi, N. Ikram, U. Rashid, A. Afroz, H.I. Butt, Z. Anwar, M. Irshad and S. Mehmood	Department of Biochemistry, Faculty of Science	Optimization of physical and nutritional factors for induced production of cellulase by co-culture solid-state bio-processing of corn stover	WSEAS Transactions on Environment and Development
25	Dr. Farrukh Shehzad	Department of Statistics, Faculty of Social Science	Minimal Neighbor Designs in Linear Blocs	Communication in Statistics-Simulation and Computation
26	Ashiq, M., Danish, M., Mohsin, M. A., Bari, S., Mukhtar, F.	Department of Chemistry, Faculty of Science	Chemistry of Platinum and Palladium Metal Complexes in Homogeneous and Heterogeneous Catalysis: A Mini Review.”	International Journal of Sciences: Basic and Applied Research (IJSBAR).

27	S. Akhter, B. A. Rakha, R. Iqbal and Muhammad Sajjad Ansari.	Zoology	Effect of bovine serum albumin on motility, plasmalemma, viability and chromatin integrity of buffalo bull spermatozoa.	Pakistan Journal of Zoology
28	S. Akhter, Muhammad Sajjad Ansari, B. A. Rakha, S. M. H. Andrabi, M. Qayyum and N. Ullah	Zoology	Effect of fructose in extender on fertility of buffalo semen.	Pakistan Journal of Zoology,
29	Muhammad Sajjad Ansari, B. A. Rakha, R. Iqbal and S. Akhter	Zoology	Effect of glutathione in extender on the freezability of Sahiwal bull spermatozoa.	Pakistan Journal of Zoology
30	Irshad, M., Z. Anwar, Z. Mahmood, T. Aqil, S. Mehmood and H. Nawaz	Department of Biochemistry, Faculty of Science	Bio-Processing of agro industrial waste orange peel for induced production of pectinase by Tricoderma Viridi; its purification and Characterization.	Turk. J. Biochem
31	S. N. Razzaq, M. Ashfaq, I. U. Khan, I. Mariam, S. S. Razzaq.	Department of Chemistry, Faculty of Science	Simultaneous RP-HPLC determination of sparfloxacin and dexamethasone in pharmaceutical formulations.”	Brazilian Journal of Pharmaceutical Science.
32	Muhammad Ashfaq	Department of Chemistry, Faculty of Science	LC Determination of Rosuvastatin and Ezetimibe in Human Plasma.	Journal of the Chilean Chemical Society
33	Tanzila Shahzadi, Sajid Mehmood, Muhammad Irshad, Zahid Anwar, Amber Afroz, Nadia Zeeshan, Umer Rashid and Kalsoom Sughra	Department of Biochemistry, Faculty of Science	Advances in Lignocellulosic Biotechnology: A brief review on Lignocellulosic Biomass and Cellulase	Advances In Bioscience and Biotechnology

34	Irshad, M., Z. Anwar, M. Ramzan, Z. Mahmood and H. Nawaz	Department of Biochemistry, Faculty of Science	Characterization of purified indigenous β -glucosidase produced from <i>Tricoderma</i> <i>viridi</i> through bio-processing of lignocellulosic waste	Adv. Biosci. Biotechnol
35	S. Qadeer, A. Batoool, K. Mehboob, Muha mmad Sajjad Ansari, B. A. Rakha, S. M. H. Andrabi, N. Ullah, R. Iqbal, S. Akhter	Zoology	Comparison of traditional antibiotic streptomycin with neomycin, polymyxin B or Colistin in extender for buffalo (<i>Bubalus bubalis</i>) bull spermatozoa.	Journal of Applied Animal Research,
36	Muhammad Khawar Islam	Department of Electrical Engineering, Faculty of Engineering & Technology	Characterization of 60 GHz Multi Quantum Well Passively Mode-locked Laser under Optical Self Injection Locking	OPTIK, Elsevier
37	Najmul Hassan, M. Irfan, Nawazish A. Khan, Shah Hussain, A. Shakoor and A. Majid	Department of Physics, Faculty of Science	Reduced Three-Dimensional (3D) Conductivity in Fe Doped CuTi-1223 Superconductors	Chinese Journal of Physics
38	Dr. Muhammad Asam Raza	Department of Chemistry, Faculty of Science	<i>Loranthus pulverulentus</i> : A potent source of natural antioxidants and alternative medicine	Journal of Chemistry
39	Bushra Akram & Fazeelat Khuwaja	Department of Psychology, Faculty of social science	A study on depression among working and non-working women of Gujrat, Pakistan	European Academic Research
40	Muhammad Ashfaq	Department of Chemistry, Faculty of Science	Simultaneous determination of Piroxicam and Paracetamol in pharmaceutical formulations using stability indicating HPLC method	Journal of Liquid Chromatography and Related Technologies
41	I.U. Khan, M. Ashfaq, S.N. Razzaq, I. Mariam.	Department of Chemistry, Faculty of Science	Simultaneous determination of Piroxicam and Paracetamol in pharmaceutical formulations using stability indicating HPLC method.”	J. Liq. Chrom. Rel. Technol.

42	R. Saleem, R. Iqbal, M. N. Abbas, A. Zahra, J. Iqbal, Muhammad Sajjad Ansari	Zoology	Effects of Tramadol on histopathological and biochemical parameters in mice (<i>Mus musculus</i>) model	Global Journal of Pharmacology
43	U. Zia, Muhammad Sajjad Ansari, S. Akhter, B. A. Rakha	Zoology	Breeding Biology of red vented bulbul (<i>Pycnonotus cafer</i>) in the area of Rawalpindi/Islamabad	Journal of animal and plant sciences
44	Muhammad Sajjad Ansari, B. A. Rakha, S. M. H. Andrabi, W. V. Holt, S. Akhter	Zoology	Thioglycol in extender improves the post-thaw quality of buffalo (<i>Bubalus bubalis</i>) bull spermatozoa	Journal of Animal and Plant Sciences
45	Fasiha Tun Nisa, Muhammad Irshad, Zahid Anwar, Amber Afroz, Nadia Ikram, Umer Rashid and Sajid Mehmood	Department of Biochemistry, Faculty of Science	Influence of Culture Conditions on Ligninolytic Production from <i>Ganoderma lucidum</i> Using Agro-Industrial Residues	Fresenius Environmental Bulletin
46	Imran Ashraf	Computing and Information Technology	Feature Level Opinion Mining of Educational Student Feedback Data using Sequential Pattern Mining and Association Rule Mining	International Journal of Computer Applications
47	Muhammad Nadeem Zafar, Azra Parveen, Raziya Nadeem.	Department of Chemistry, Faculty of Science	A pretreated green biosorbent based on Neem leaves biomass for the removal of lead from wastewater.”	Desalination and Water Treatment.
48	Sohail Hassan Khan , Muhammad Ashraf Anjum , Abida Parveen , Tabinda Khawaja & Naeem Mehmood	Department of Biochemistry, Faculty of Science	Effects of black cumin seed (<i>Nigella sativa</i> L.) on performance and immune system in newly evolved crossbred laying hens,	Veterinary Quarterly

	Ashraf			
49	Aamer Saeed* and Hummera Rafique.	Department of Chemistry, Faculty of Science	Synthesis of new N-[3-(Benzo[d]thiazol-2-yl)-4-methylthiazol-2(3H)-ylidene] substituted benzamides.”	Turk. J. Chem.
50	Asgher, M., M. Irshad and HMN. Iqbal	Department of Biochemistry, Faculty of Science	Purification and Characterization of Novel Manganese Peroxidase from Schizophyllum commune IBL-06	Int. J. Agric. Biol
51	Aamer Saeed* and Hummera Rafique.	Department of Chemistry, Faculty of Science	A New Total Synthesis and Antibacterial Activity of (±)- 7-Butyl-6, 8-dihydroxy-3- pentyl-3, 4- dihydroisochromen-1-one.”	J. Asian Nat. Prod. Res.
52	Aamer Saeed*, Hummera Rafique and Zaman Ashraf.	Department of Chemistry, Faculty of Science	Synthesis and antibacterial activity of typharin analog: 6,8-dihydroxy-7-methyl-3- styryl-3,4- dihydroisocoumarin.”	J. Asian Nat. Prod. Res.
53	Muhammad Khawar Islam	Department of Electrical Engineering, Faculty of Engineering & Technology	All-Optical Signal Processing of Fiber Impairments in Dual- Polarization 112Gbit/s m-ary QAM Coherent Transmission	Journal of Optical Society of Korea
54	Muhammad Saif Ur Rehman	Department of Environmental Sciences, Faculty of Science	Chemometric classification of advanced oxidation processes for the degradation of pharmaceuticals and personal care products.	Environmental Engineering &Management Journal.
55	Muhammad Nadeem Zafar, Sheikh Asrar Ahmad, Asim Mahmood Butt, Muhammad Abdul Qadir.	Department of Chemistry, Faculty of Science	Electrochemical Separation of Alanine, Cysteine and Glycine Using a Digital Thruster.”	Separation Science Technology.

56	Irshad, M., Z. Anwar, H.I. Butt, A. Afroz, N. Ikram and U. Rashid	Department of Biochemistry, Faculty of Science	The industrial applicability of purified cellulase complex indigenously produced by <i>Trichoderma viride</i> through solid-state bio-processing of agro-industrial and municipal paper wastes	BioRes
57	R. Ejaz, Muhammad Sajjad Ansari, B. A. Rakha, N. Ullah, A. U. Husna, R. Iqbal, S. Akhter	Zoology	Arachidic acid in extender improves post-thaw parameters of cryopreserved Nili-Ravi buffalo bull semen.	Reproduction in Domestic Animals
58	K.S. Ahmad, N. Rashid, M.F. Nazar, S. Tazaiyen	Department of Chemistry, Faculty of Science	Adsorption and Desorption Characteristic of Benzimidazole Based Fungicide Carbendazim in Pakistani Soils.”	Journal of the Chemical Society of Pakistan.
59	Rabia Rehman, Aadil Abbas, Shahzad Murtaza, Jamil Anwar, Tariq Mahmud, Saba Akbar	Department of Chemistry, Faculty of Science	Adsorption Parameters Optimization for Removal of Alizarin Red-S and Brilliant Blue FCF dyes from Water using <i>Abelmoschus esculentus</i> Stem Powder.”	Journal of Chemical Society of Pakistan.
60	Shahzad Murtaza, Tahseen Ghous, Safeer Ahmer, Raja Summe ullah, Aadil Abbas, Yasir Altaf, and Muhammad Khan.	Department of Chemistry, Faculty of Science	Anti Acetylcholine Esterase activity of extracts of <i>Oxystelma esculentum</i> , <i>Aerva javanica</i> and <i>Zanthoxylum armatum</i> .”	Journal of Chemical Society of Pakistan.
61	Rabia Rehman, Aadil Abbas, Shahzad Murtaza, Tariq Mahmud.	Department of Chemistry, Faculty of Science	Comparative Sorptive removal of Direct Red-28 dye from water Using Acid abse and 2-propanol treated Okra stem Powder.”	Journal of Chemical Society of Pakistan.

62	Muniza Qayyum, Waheed-Uz-Zaman, Rabia Rehman, Bashir Ahmad, Maqsood Ahmad, Sara Ali, Shahzad Murtaza.	Department of Chemistry, Faculty of Science	Statistical Analysis of Fluoride Levels in Human Urine and Drinking Water samples of Fluorinated Area of Punjab (Pakistan)."	Journal of Chemical Society of Pakistan.
63	Muhammad Faizan Nazar	Department of Chemistry, Faculty of Science	Quantum Chemical Designing of Efficient TC4 Based Sensitizers by Modification of Auxiliary Donor and Pi-spacer	Bulletin of the Chemical Society of Japan
64	M.I. Abdullah, M.R.S.A. Janjua, M.F. Nazar, A. Mahmood.	Department of Chemistry, Faculty of Science	Quantum Chemical Designing of Efficient TC4 Based Sensitizers by Modification of Auxiliary Donor and Pi-spacer."	Bulletin of the Chemical Society of Japan.
65	Sajjad H. Sumrra and Zahid H. Chohan.	Department of Chemistry, Faculty of Science	In vitro Antibacterial, Antifungal and Cytotoxic Activities of Some Triazole Schiff Bases and Their Vanadyl (IV) Complexes".	J. Enz. Inhibi. Med. Chem.
66	Muhammad Khawar Islam	Department of Electrical Engineering, Faculty of Engineering & Technology	Performance Analysis of BER Optimization in WDM Systems	Journal of Modern Optics, Taylor & Francis
67	Abdul Majid, G. Husnain, Muhammad Usman, Abdul Shakoor, Najmul hassan and J. J. Zhu	Department of Physics, Faculty of Science	Structural modifications of AlInN/GaN thin films by neon ion implantation	Physics letters A
68	Fujian Liu, Hao Zhang, Longfeng Zhu, Yanmei Liao, Faisal Nawaz, Xiangju Meng, Feng-Shou Xiao.	Department of Chemistry, Faculty of Science	High-temperature hydrothermal synthesis of magnetically active, ordered mesoporous resin and carbon monoliths with reusable adsorption for organic dye".	Adsorption.

69	Tazeem Ahmad Khan	Department of Mathematics, Faculty of Science	A new type of fuzzy normal subgroups and fuzzy cosets	Journal of Intelligent and Fuzzy systems
70	Sajjad H. Sumrra and Zahid H. Chohan.	Department of Chemistry, Faculty of Science	Antibacterial and Antifungal Oxovanadium(IV) Complexes of Triazole Derived Schiff Bases: Their Synthesis, Characterization and Antimicrobial Activity”.	Med. Chem. Res.
71	Muhammad Asam Raza, Durre Shahwar.	Department of Chemistry, Faculty of Science	Trypsin inhibitory potential and microbial transformation of rutin isolated from Citrus sinensis.”	Medicinal Chemistry Research.
72	Aamer Saeed* and Hummera Rafique, Muhammad Arshad	Department of Chemistry, Faculty of Science	Design, synthesis, molecular docking studies and in vitro screening of ethyl 4-(3-benzoylthioureido) benzoates as urease inhibitors.”	Bioorganic Chemistry
73	S. Qadeer, M. A. Khan, Muhammad Sajjad Ansari, B. A. Rakha, R. Ejaz, A Hussna, A. Hussain, R. Iqbal, N. Ullah and S. Akhter	Zoology	Evaluation of Antifreeze Protein III for Cryopreservation of Nili-Ravi (Bubalus bubalis) Buffalo Bull Spermatozoa	Animal Reproduction Science
74	Durre Shahwar, Muhammad Asam Raza and Atta Ur Rehman.	Department of Chemistry, Faculty of Science	Evaluation of trypsin inhibitory activity of flavonoids extracted from orange peel and green tea leaves.”	Journal of Science Food and Agriculture.
75	Iqbal Ahmad	Department of Chemistry, Faculty of Science	Dimeric “paddle-wheel” carboxylates of copper (II): Synthesis, crystal structure and electrochemical studies.	Polyhedron
76	Muhammad Saif Ur Rehman	Department of Environmental Sciences, Faculty of Science	Biosorption of methylene blue from aqueous solutions by Typha angustata phytomass.	International Journal of Environmental Science & Technology
77	Abdul Majid, Sabeen Fatima and Amna Dar	Department of Physics, Faculty of Science	A density functional theory study of electronic properties of Ce:GaN	Computational Material Science

78	B. A. Rakha, I. Hussain, S. Akhter, N. Ullah, S. M. H. Andrabi, Muhammad Sajjad Ansari	Zoology	Evaluation of Tris-citric acid, skim milk and sodium citrate extenders for liquid storage of Punjab urial (<i>Ovis vignei punjabiensis</i>) spermatozoa.	Reproductive Biology,
79	Muhammad Iqbal, Iqbal Ahmad, Saqib Ali, Niaz Muhammad, Safeer Ahmed, Manzar Sohail.	Department of Chemistry, Faculty of Science	Dimeric “paddle-wheel” carboxylates of copper (II): Synthesis, crystal structure and electrochemical studies.”	Polyhedron.
81	S. Akhter, Muhammad Sajjad Ansari, B.A. Rakha, S. M. H. Andrabi, S. Qadeer, R. Iqbal, N. Ullah. [IF=]	Zoology	Efficiency of ciprofloxacin for bacterial control, post-thaw quality, and in vivo fertility of buffalo spermatozoa.	Theriogenology,
82	Aneela Sultan, Azhar Mahmood, Iqbal Ahmad, Muhammad N. Ashiq, Imran Shakir, Muhammad F. Warsi.	Department of Chemistry, Faculty of Science	New nanoparticulate $Gd_{1-x}Zr_xFe_{1-y}Mn_yO_3$ multiferroics: Synthesis, characterization and evaluation of electrical, dielectric and magnetic parameters”.	Journal of Alloys and Compounds.
83	Khurram Shehzad, Asad Ul-Haq, Sadaf Ul-Hassan, Faisal Nawaz, Faiz ur Rahman, Yasir Butt and Muhammad Pervaiz.	Department of Chemistry, Faculty of Science	All-organic PANI–DBSA/PVDF dielectric composites with unique electrical properties”.	Journal of Materials science.

84	Muhammad Saif Ur Rehman	Department of Environmental Sciences, Faculty of Science	Cancer and non-cancer risk assessment of trihalomethanes in urban drinking water supplies of Pakistan.	Ecotoxicology and Environmental Safety
85	Amna Dar and Abdul Majid	Department of Physics, Faculty of Science	Electronic structure analysis of Rare Earth ions Ce and Nd doped Gallium Nitride	Journal of Applied Physics
86	Abdul Majid	Department of Physics, Faculty of Science	Optical signatures of Ce related traps in GaN	Journal of Applied Physics
87	Sajjad Hussain Shah, Ghulam Nabi, Waheed S Khan, Abdul Majid, Chuanbao Cao, Safdar Ali, Mudassar Hussain, AzeemNabi, Saadi Ishaq, Faheem K. Butt	Department of Physics, Faculty of Science	Solvo-thermal synthesis of AlN nano-needles: Their photoluminescence and field emission properties	Materials Letters
88	David Aitken*, Xavier Goucher, Jean Ollivier, Hummera Rafique, Carlo Sambiagio, Francesco Secci.	Department of Chemistry, Faculty of Science	Photochemical transformation of 1, 2-dihydropyridin-3-ones: an original tandem retro [4+2] / [2+2] cycloaddition process.”	Tetrahedron Lett
89	Muhammad Saif Ur Rehman	Department of Environmental Sciences, Faculty of Science	Optimization Rapid harvesting of freshwater microalgae using chitosan	Process Biochemistry
90	Muhammad Saif Ur Rehman	Department of Environmental Sciences, Faculty of Science	Sono-assited sulfuric acid process for economical recovery of fermentable sugars and mesoporous pure silica from rice straw	Industrial Crops and Products

91	Muhammad Saif Ur Rehman	Department of Environmental Sciences, Faculty of Science	Recycling and energy recovery from spent algal biomass for sustainable algal biofuels	Biochemical Engineering Journal
92	Abdul Majid, J. J. Zhu, Najam al Hassan and Abdul Shakoor	Department of Physics, Faculty of Science	Structural modifications of GaN after Cerium implantation	Journal of Raman Spectroscopy
93	Muhammad Javed Iqbal	Department of Biochemistry and Molecular Biology, Faculty of Science, UOG	Liver Stem Cells: From Preface to Advancements	Current Stem Cell Research & Therapy
94	M. S. U. Rehman, N. Rashid, M. Ashfaq, A. Saif, N. Ahmad, J. I. Han.	Department of Chemistry, Faculty of Science	Global risk of pharmaceutical contamination from highly populated developing countries.Chemosphere.”	http://dx.doi.org/10.1016/j.chemosphere.2013.02.036
95	Muhammad Saif Ur Rehman	Department of Environmental Sciences, Faculty of Science	Enhanced electricity generation by using algae biomass and activated sludge in microbial fuel cell	Science of the Total Environment
96	Minling Shao, Muhammad Nadeem Zafar, Magnus Falk, Roland Ludwig, ChristophSygmund, Clemens K. Peterbauer, Dmitrii A.	Department of Chemistry, Faculty of Science	Optimization of a membrane- less glucose/oxygen enzymatic fuel cell based on a bioanode with high coulombic efficiency and current density.”	Chem. Phys. Chem.
97	Muhammad Saif-ur-Rehman, Muhammad Munir, Muhammad Ashfaq, Naim Rashid, Muhammad Faizan Nazar, Muhammad Danish, Jong-In Han.	Department of Chemistry, Faculty of Science	Adsorption of Brilliant Green dye from aqueous solution onto red clay.”	Chem. Eng. J.

98	Muhammad Saif Ur Rehman	Department of Environmental Sciences, Faculty of Science	Use of chitosan acid solutions to improve separation efficiency for harvesting of the microalga <i>C.vulgaris</i> .	Chemical Engineering Journal
99	Muhammad Saif Ur Rehman	Department of Environmental Sciences, Faculty of Science	Generation of electricity from FeCl ₃ pretreatment of rice straw using a fuel cell system	Bioresource Technology
100	Minling Shao, Muhammad Nadeem Zafar, Dmitrii A. Guschin, Roland Ludwig, Clemens K. Peterbauer, Wolfgang Schuhmann, Lo Gorton.	Department of Chemistry, Faculty of Science	Mutual enhancement of the current density and the coulombic efficiency for a bioanode by entrapping bi- enzymes with Os-complex modified electrodeposition paints.”	Biosensors & Bioelectronics.
101	Muhammad Akram & S. K. Tyagi	Department of Mathematics, Faculty of Science	Human Reliability Evaluation for Offshore Platform Musters Using Intuitionistic Fuzzy sets	IEEE Trans. On Fuzzy Systems
102	Muhammad Saif Ur Rehman	Department of Environmental Sciences, Faculty of Science	Current status, barriers and developments in hydrogen production by microalgae	Renewable and Sustainable Energy Reviews
103	Muhammad Saif Ur Rehman	Department of Environmental Sciences, Faculty of Science	Potential of bioenergy production from industrial hemp (<i>Cannabis sativa</i>): Pakistan perspective	Renewable and Sustainable Energy Reviews
104	Muhammad Ashfaq	Department of Chemistry, Faculty of Science	Simultaneous RP-HPLC determination of sparfloxacin and dexamethasone in pharmaceutical formulations.	Brazilian Journal of Pharmaceutical Science
105	Tahir Iqbal	ICBS, Zoology	16S rRNA gene sequence: <i>Bacillus</i> <i>megaterium</i> strain APDB9	NCBI, Nucleotide Database
106	Tahir Iqbal	ICBS, Zoology	16S rRNA gene sequence: <i>Bacillus</i> <i>thuringiensis</i> strain APDB10	NCBI, Nucleotide Database

107	Muhammad Asam Raza, Rukhsana Kausar, Faraz Ali Rana, Muhammad Danish, Durre Shahwar, and Farwa Anwar.	Department of Chemistry, Faculty of Science	Loranthus pulverulentus: “A potent source of natural antioxidants and alternative medicine.”	Article ID 250739, 7 pages. http://dx.doi.org/10.1155/2013/250739
108	Irum Perveen, Abdul Majid, Sobia Knawal, Iffat Naz, Shama Sehar, Safia Ahmed and Muhammad Asam Raza.	Department of Chemistry, Faculty of Science	Prevalence and Antimicrobial Susceptibility Pattern of Methicillin-Resistant Staphylococcus aureus and Coagulase-Negative Staphylococci in Rawalpindi, Pakistan.”	British Journal of Medicine & Medical Research.
109	Abdul Majid, Zeba Afzal, Shahzad Mutaza, Ghulam Nabi, and Naeem Ahmad.	Department of Chemistry, Faculty of Science	Synthesis and Characterization of Silver Doped Cadmium Oxide Nanoparticles”	Journal of Advanced Physics.
110	J. Ahmad, M. Shakeel, Q. M. Hassan, S.T. Mohyud-Din	Department of Mathematics, Faculty of Science	Analytical Solution of Black-Scholes Model Using Fractional Variational Iteration Method	International Journal of Modern Mathematical Sciences
111	Jamshad Ahmad and Syed Tauseef Mohyud-Din,	Department of Mathematics, Faculty of Science	Homotopy analysis method with modified Reimann-Liouville derivative for space fractional diffusion equation	International Journal of Physical Sciences
112	J. Ahmad, Q. M. Hassan, S. T. Mohyud-Din	Department of Mathematics, Faculty of Science	Solitary solutions of the fractional KdV equation using modified Remann-Liouville derivative,	Journal of Fractional calculus and Applications
113	Jamshad Ahmad, I. Ahmad, B. Ahmad	Department of Mathematics, Faculty of Science	Solutions of fractional heat-and-wave-like equations Via fractional variational iteration method	Journal of Mathematical Sciences: Advances and Applications,
114	Dr. Farrukh Shehzad	Department of Statistics, Faculty of Social Science	Parameter Estimation of Power function distribution with Moments	World Applied Science Journal

115	Dr. Zahoor Ahmad	Department of Statistics, Faculty of Social Science	General Class of Variance Estimators in simple Random Sampling using Multi-auxiliary Variables	Journal of Mathematics and System Science, David Publishing Company, 3592 Rosemead Blvd # 220, Rosemead, CA 91770, USA.
116	Dr. Zahoor Ahmad	Department of Statistics, Faculty of Social Science	Generalized Class of estimators in two-phase sampling using multi-auxiliary variables in the presence of Non-Response at Second Phases	Mathematical Sciences and Application E-Notes. Turkey
117	Dr. Zahoor Ahmad	Department of Statistics, Faculty of Social Science	Impact of CRM Practices on Customers' Behaviors.	International Journal of Business and Management Invention, ISSN (online): 2319-8028.
118	Dr. Zahoor Ahmad	Department of Statistics, Faculty of Social Science	Word-of-Mouth Communications: A Powerful contributor to Consumers Decision-making in Healthcare Market	International Journal of Business and Management Invention,
119	Mirza Naveed Shahzad	Department of Statistics, Faculty of Social Science	Parameter estimation of Singh Maddala distribution by moments	International Journal of Advanced Statistics and Probability
120	Muhammed Javed Iqbal	Department of Biochemistry and Molecular Biology, Faculty of Science, UOG	Current Scenario of Epilepsy in Pakistani population of Punjab and mutational screen of GABRG2 gene.	Pakistan Journal of Clinical and Biomedical Research
121	Syed Ali Abdullah Mehboob	Department of Management Sciences, Faculty of Management and Administrative Science	Job and Career influences on Career Commitment among Employees of Banking Sector: the Mediating effect of Job Satisfaction and Organizational Commitment	International Journal of Business and Management Invention

122	Muhammed Javed Iqbal	Department of Biochemistry and Molecular Biology, Faculty of Science, UOG	Master Regulators of Apoptosis.	Pakistan Journal of Medical and Health Sciences.
123	Muhammed Javed Iqbal	Department of Biochemistry and Molecular Biology, Faculty of Science, UOG	Carbon Nanotubes: Delivery Systems For Anticancer Drugs.	Journal of Rashid Latif Medical College 2 (2013) 01-04
124	N. Yaqoob, M. Aslam, M. Akram*	Department of Mathematics, Faculty of Science	Interval Valued Intuitionistic (S; T)-Fuzzy Ideals of Ternary Semigroups	Indian Journal of Science and Technology,
125	Naveed Yaqoob, Muhammad Akram* and M. Aslam	Department of Mathematics, Faculty of Science	Intuitionistic fuzzy soft groups induced by α -norm",	Indian Journal of Science and Technology,
126	Dr. Zahid Yousaf, Faiza Bajwa	Centre for Media & Communication Studies	Impact of Mimicry of Politicians in Pakistani Television Comedy Shows on Political Perception of Audience	International Journal of Physical & Social Sciences
127	Dr. Zahid Yousaf, Ehtisham Ali, Mehmood Ahmed	Centre for Media & Communication Studies	Media & Foreign Policy, Portrayal of Pak-US Relations in the Elite press during Pervez Musharraf and George W. Bush Regime	International Journal of Physical and Social Sciences
128	Dr. Zahid Yousaf, Farish Ullah, Ehtisham Ali	Centre for Media & Communication Studies	Coverage of Pak-India Relations in the Elite Press of Pakistan (June 2013-August 2013)	IISTE-Journal of Research on Humanities and Social Sciences
129	Dr. Zahid Yousaf	Centre for Media & Communication Studies	Portrayal of Women in Elite Press of Pakistan and United States	World Applied Sciences Journal
130	Dr. Zahid Yousaf, Zil E Huma, Ehtisham Ali	Centre for Media & Communication Studies	Reporting of Environmental Issues in Pakistani Press	World Applied Sciences Journal
131	Aliyha Ghumman	Psychology	Personality Traits Linked with Irrational Beliefs: A Case of Adults, Pakistan	Middle-East Journal of Scientific Research

132	Muhammad Khawar Islam	Department of Electrical Engineering, Faculty of Engineering & Technology	Content Searching Scheme with Distributed Data processing Service in Content Centric Networking	Journal of Basic and Applied Scientific Research
133	R. Iqbal, T. Aziz, I. Sarfaraz, R. Shabir, Muhammad Sajjad Ansari, M. F. Malik, R. Saleem, A. Zahra, S. Mehwish	Zoology	Effect of Vitamin E and Selenium on Immunity, Egg Production and Liver Function in Laying Hens (HY-LINE W-98)	Middle-East Journal of Scientific Research
134	Bushra Akram Rabia Mehboob, Anam Ijaz & Rukhsana Bashir	Department of Psychology, Faculty of social science	Scientific concepts of students with and without hearing impairment of grade VIII	Journal of Elementary Education
135	Muhammad Akram* and Naveed Yaqoob	Department of Mathematics, Faculty of Science	Cubic KU-subalgebras	International Journal of Pure and Applied Mathematics,
136	Muhammad Akram, Naveed Yaqoob and Madad Khan,	Department of Mathematics, Faculty of Science	On (m,n)-ideals in LA-semigroups,	Applied Mathematical Sciences,
137	Muhammad Akram and Naveed Yaqoob	Department of Mathematics, Faculty of Science	On intuitionistic fuzzy soft ordered ternary semigroups,	Inter. Jour. Pur and Appl. Math.
138	Muhammad Mushtaq	Department of Political Science & International Relations	Regional Hegemonic Aspirations of India: A Review of Indian Nuclear Program	Pakistan Journal of Social Sciences
139	Qamar-Un-Nisa, Fiaz Majeed	Department of Information Technology, Faculty of Computing and Information Technology	A Dynamic Form-Based Natural Language Interface to Data Warehouse	International Journal of Computer & Communication Engineering Research (IJCER)

140	M. Shahbaz, M.A Rasheed, M.S. Tahir, M.A. Ahmed, M.Danish and Adeel Ikram	Department of Chemical Engineering	A Parametric Study on the Production of Bio Fuels from Rapeseed Oil	3 rd International Conference on Environment and Industrial Innovation I.P
141	Muhammad suleman Tahir, Mahmood Saleem, Saeed Gul, Niaz Ahmad Akhtar and Matthaus Siebenhofer,	Department of Chemical Engineering	Actinometrical Determination of UV-Radiation in Wet-Tube Electrostatic Precipitator (WESP) and Degradation of Pollutants From Wastewater,	Aiche Annual Meeting san Francisco.
142	Nawaz Faisal, Wang Liang, Zhu Long-feng, Meng Xiang-ju, Xiao Feng-Shou.	Department of Chemistry, Faculty of Science	Ascorbic Acid Assisted Green Route for Synthesis of Water Dispersible Carbon Dots”.	Chemical Research in Chinese Universities
143	Muhammad Danish, M.S.TAHIR, M. A. Ahmad, M.shahbaz M.Saleem, A.Ahmad, N. Feroze	Department of Chemical Engineering	Characterization of Agro waste as an alternative fuel source”	Annual meeting Hilton San Francisco, a.
144	Qamar-Un-Nisa, Fiaz Majeed	Department of Information Technology, Faculty of Computing and Information Technology	Context Information Retrieval with Organizational Security Provision	IJMSE - International Journal of Multidisciplinary Sciences and Engineering
145	Dr. Zahid Yousaf	Centre for Media & Communication Studies	Coverage of Political Issues in Minorities’ Press of Pakistan	Mass Communicator: International Journal of Communication Studies
146	Hannan Zahida,b,*, M. R. Usmanb, M. Shahbaz, M. S. Tahir	Department of Chemical Engineering	Development of the MTH- System (Methylcyclohexane- Toluene-Hydrogen)for Hydrogen Production as Fuel for Stationary Applications”	impact factor Applied Energy journal

147	Dr. Zahid Yousaf, Syed Ali Hassan	Centre for Media & Communication Studies	Effects of Indian Film Stars in Multinational Advertisement on Trend Setting and Purchasing Behavior	International Journal of Scientific & Engineering Research
148	Dr. Zahid Yousaf, Mehmood Ahmed	Centre for Media & Communication Studies	Effects of SMS on writing skills of the University Students in Pakistan	International Journal of Asian Social Science
149	Dr. Zahid Yousaf, Munham Shehzad	Centre for Media & Communication Studies	Effects of Television Commercials on Literate and Illiterate People of Pakistan (A case study of Gujrat)	Journal of Mass Communication & Journalism,
150	Muhammad suleman Tahir and Mahmood Saleem	Department of Chemical Engineering	Enhanced Yield of Bio-Gas Production With Modified Thermo-Reactor Configuration and Separation of CO ₂ ,	Aiche Annual Meeting san Francisco
151	Dr. Zahid Yousaf	Centre for Media & Communication Studies	Investigative Reporting: A Comparative Analysis of Elite Urdu Press of Pakistan: A case of Daily Jang and Daily Express	Canadian Journal of Media Studies
152	Dr. Iftikhar Ahmad	Department of Mathematics, Faculty of Science	Physico-chemical parameters of surface and ground water and their environmental impact assessment in the Haripur	Journal of Geochemical Exploration
153	Raza Naqvi, M.Suleman Tahir, Jinyue, Erick Dahlquist,	Department of Chemical Engineering	Potential of Natural gas from Black liquor gasification based bio-refinery system integrated with Kraft pulp Mills in Pakistan	Applied energy Conference I.P
154	Dr. Muhammad Asam Raza	Department of Chemistry, Faculty of Science	Prevalence and Antimicrobial Susceptibility Pattern of Methicillin-Resistant Staphylococcus aureus and Coagulase-Negative Staphylococci in Rawalpindi, Pakistan	British Journal of Medicine & Medical Research
155	Shahida Bashir	Department of Mathematics, Faculty of Science	Prime bi ideals in ternary semirings	Annals of Fuzzy Mathematics and Informatics

156	Shahida Bashir	Department of Mathematics, Faculty of Science	Prime bi-ideals and prime fuzzy bi-ideals in semirings	World Applied Science Journal 22
157	Shahida Bashir	Department of Mathematics, Faculty of Science	Prime Fuzzy bi-ideals of T-semigroups	Annals of Fuzzy Mathematics Informatics
158	Muhammad Shahbaz, Asif Rasheed, M.Suleman Tahir, Raza Naqvi, Aman bin umer	Department of Chemical Engineering	Production of SNG from wood biomass; Integration with power production and district heating	The Fifth International Conference on Applied Energy.
159	Muhammad Shahbaz, Asif Rasheed, Raza Naqvi and Aman bin umer, M.S Tahir	Department of Chemical Engineering	Production of SNG from wood biomass; Integration with power production and district heating”	The Fifth International Conference on Applied Energy.
160	Hannan Zahid ^{a,*} , N. Amin ^a , F. Nisar ^b , R. Khan ^b , M. Latif ^b , M. S. Tahir	Department of Chemical Engineering	Sea Water Desalination Using Solar Still	JOURNAL OF FACULTY OF ENGINEERING & TECHNOLOGY,
161	Pusheng Guo, Muhammad Danish, Ping-gao Do, Zhixiang Kong, Rong Guan.	Department of Chemistry, Faculty of Science	Viscoelastic and adhesive properties of polystyrene-hydrogenated (3,4-polyisoprene and 1,4-polyisoprene)-polystyrene and polymethylmethacrylate-polybutylacrylate-polymethylmethacrylate based HMPSA .”	J. Adhes. Sci.Technol.
162	Imran Ashraf	Computing and Information Technology	Which web browser works best for detecting phishing	IEEE 5 th international conference on Information & Communication Technologies

163	Jamshad Ahmad, Q. M. Hassan, S. T. Mohyud-Din	Department of Mathematics, Faculty of Science	On linear and nonlinear fractional PDEs	Theoretical and Applied Mechanics
164	Q. M. Hassan, Jamshad Ahmad, M. Shakeel, B. Ahmad and S. T. Mohyud-Din	Department of Mathematics, Faculty of Science	Solution of biological population model using Homotopy Analysis Method	World Applied Sciences Journal

HEC Verified ISI Indexed Publications 2014 (67)

Year 2014			
Sr #	Authors	Title	Name of Journal
1	Majid, A; Imtiaz, A; Shakoor, A; Hassan, N	A computational study of anion photoelectron spectroscopy of zinc oxide nanoclusters	COMPUT THEOR CHEM
2	Nazar, MF; Mukhtar, F; Chaudry, S; Ashfaq, M; Mehmood, S; Asif, A; Rana, UA	Biophysical probing of antibacterial Gemifloxacin assimilated in surfactant mediated molecular assemblies	J MOL LIQ
3	Nawaz, M; Camussi, G; Valadi, H; Nazarenko, I; Ekstrom, K; Wang, XQ; Principe, S; Shah, N; Ashraf, NM; Fatima, F; Neder, L; Kislinger, T	The Emerging Role of Extracellular Vesicles as Biomarkers for Urogenital Cancers	NAT REV UROL
4	Ijaz, A; Anwar, Z; Irshad, M; Iqbal, Z; Arshad, M; Javed, M; Ahmad, MZ; Rehman, A; Ahmad, A	Purification and Kinetic Characterization of Statistically Optimized Cellulase Produced from Aspergillus niger	ROM BIOTECH LETT
5	Nabi, A; Hussain, R; Farooq, MH; Zubair, M	Experimental and Theoretical Investigation of Ferromagnetism in Mn-Doped SnO	NANOSCI NANOTECH LET
6	Bashir, R; Syed, Q; Mumtaz, MW; Anwar, F; Saari, N; Adnan, A	Growth Kinetics, Purification and Characterization of alpha-amylase Produced from Bacillus licheniformis DSM-1969 using Lignocellulosic Banana Waste as an Elicitor	BIORESOURCES
7	Irshad, M; Asgher, M; Anwar, Z; Ahmad, A	Biotechnological Valorization of Pectinolytics and Their Industrial Applications: A Review	NAT PROD COMMUN
8	Zafar, MN; Mohsin, MA; Danish, M; Nazar, MF;	Palladium catalyzed Heck-Mizoroki and Suzuki-Miyaura coupling reactions	RUSS J COORD CHEM+

	Murtaza, S	(Review)	
9	Iqbal, MS; Ghafoor, A; Ullah, I; Ahmad, H	Quantification and Compositional Diversity of Fatty Acid Methyl Esters Profile in <i>Nigella sativa</i> L. Germplasm	J AM OIL CHEM SOC
10	Ali, K; Sarfraz, AK; Ali, A; Mumtaz, A; Hasanain, SK	Temperature dependence magnetic properties and exchange bias effect in CuFe ₂ O ₄ nanoparticles embedded in NiO matrix	J MAGN MAGN MATER
11	Pereira, RC; Muetzel, S; Arbestain, MC; Bishop, P; Hina, K; Hedley, M	Assessment of the influence of biochar on rumen and silage fermentation: A laboratory-scale experiment	ANIM FEED SCI TECH
12	Mirza, FM; Bergland, O; Afzal, N	Electricity conservation policies and sectorial output in Pakistan: An empirical analysis	ENERG POLICY
13	Badshah, A; Nazar, MF; Mahmood, A; Ahmed, W; Abdullah, MI; Zafar, MN; Rana, UA	Synthesis, characterization of novel cyclohexenone derivatives and computation of their optical response	J MOL STRUCT
14	Abbas, G; Zheng, P; Wang, L; Li, W; Shahzad, KA; Zhang, HT; Hashmi, MZ; Zhang, JG; Zhang, M	Ammonia Nitrogen Removal by Single-stage Process: A Review	J CHEM SOC PAKISTAN
15	Nawaz, R; Arshad, M; Sarfraz, MS; Ashraf, MW; Hayyat, MU; Mahmood, R; Parkpian, P	Interactions Between Acidic (Al ³⁺ , Fe ²⁺) and Basic (Ca ²⁺ , Mg ²⁺) Cations in Oxisol and Ultisol under Acidification Induced by Simulated Acid Rain	ASIAN J CHEM
16	Abbas, MN; Rana, SA; Mahmood-ul-Hassan, M; Rana, N; Kausar, S; Iqbal, M	BIODIVERSITY AND DYNAMICS OF MACRO-INVERTEBRATE POPULATIONS IN WHEAT-WEEDS AGRO-ECOSYSTEM OF PUNJAB (PAKISTAN)	J ANIM PLANT SCI
17	Ansari, MS; Rakha, BA; Andrabi, SMH; Ullah, N; Iqbal, R; Holt, WV; Akhter, S	THIOGLYCOL IN EXTENDER IMPROVES THE POST-THAW QUALITY OF BUFFALO (<i>BUBALUS BUBALIS</i>) BULL SPERMATOZOA	J ANIM PLANT SCI
18	Anwar, F; Hussain, S; Ramzan, S; Hafeez, F; Arshad, M; Imran, M; Maqbool, Z; Abbas, N	Characterization of Reactive Red-120 Decolorizing Bacterial Strain <i>Acinetobacter junii</i> FA10 Capable of Simultaneous Removal of Azo Dyes and Hexavalent Chromium	WATER AIR SOIL POLL

19	Abbas, G; Zheng, P; Wang, L; Li, W; Zhang, M; Zhang, JQ	Oxygen Transfer Characteristics in a Pilot-Scale Airlift Internal-Loop Bioreactor for Simultaneous Partial Nitrification and Anaerobic Ammonia Oxidation	ENVIRON ENG SCI
20	Ashfaq, M; Akhtar, T; Mustafa, G; Danish, M; Razzaq, SN; Nazar, MF	Simultaneous estimation of rosuvastatin and amlodipine in pharmaceutical formulations using stability indicating HPLC method	BRAZ J PHARM SCI
21	Shakoor, A; Niaz, NA; Majid, A; Hassan, N; Farooq, M; Hussain, R	OPTO-ELECTRONIC PROPERTIES OF POLY (P-PHENYLENE VINYLENE) (PPV) INTERCALATED IN CdPS3	CHALCOGENIDE LETT
22	Nousheen, R; Batool, A; Rehman, MSU; Ghufra, MA; Hayat, MT; Mahmood, T	Fenton-biological coupled biochemical oxidation of mixed wastewater for color and COD reduction	J TAIWAN INST CHEM E
23	Ahmad, Z; Afzal, M; Shahid, U; Hanif, M	A GENERAL CLASS OF MEAN ESTIMATORS USING MIXTURE OF AUXILIARY VARIABLES FOR TWO-PHASE SAMPLING IN THE PRESENCE OF NON-RESPONSE AT SECOND PHASE FOR NO INFORMATION CASE	PAK J STAT
24	Qadeer, S; Khan, MA; Ansari, MS; Rakha, BA; Ejaz, R; Husna, AU; Ashiq, M; Iqbal, R; Ullah, N; Akhter, S	Evaluation of antifreeze protein III for cryopreservation of Nili-Ravi (Bubalus bubalis) buffalo bull sperm	ANIM REPROD SCI
25	Xia, FF; Su, Y; Wei, XM; He, YH; Wu, ZC; Ghulam, A; He, R	Diversity and activity of sulphur-oxidizing bacteria and sulphate-reducing bacteria in landfill cover soils	LETT APPL MICROBIOL
26	Mehmood, S; Gulfraz, M; Tahir, MS; Rehman, MSU; Aqil, T; Mahmood, T	STATISTICAL SCREENING AND SELECTION OF SWEET SORGHUM VARIETIES FOR BIOETHANOL PRODUCTION	PAK J BOT
27	Nazar, MF; Murtaza, S	Physicochemical investigation and spectral properties of Sunset Yellow dye in cetyltrimethylammonium bromide micellar solution under different pH conditions	COLOR TECHNOL
28	Chen, H; Zheng, P; Zhang, JQ; Xie, ZF; Ji, JY; Ghulam, A	Substrates and pathway of electricity generation in a nitrification-based microbial fuel cell	BIORESOURCE TECHNOL
29	Khan, MA; Sabir, M; Mahmood, A; Asghar, M; Mahmood, K; Khan, MA; Ahmad, I; Sher, M; Warsi,	High frequency dielectric response and magnetic studies of Zn _{1-x} TbxFe ₂ O ₄ nanocrystalline ferrites synthesized via micro-emulsion technique	J MAGN MAGN MATER

	MF		
30	Mahmood, A; Abdullah, MI; Nazar, MF	Quantum Chemical Designing of Novel Organic Non-Linear Optical Compounds	B KOREAN CHEM SOC
31	Wang, R; Zheng, P; Xing, YJ; Zhang, M; Ghulam, A; Zhao, ZQ; Li, W; Wang, L	Anaerobic ferrous oxidation by heterotrophic denitrifying enriched culture	J IND MICROBIOL BIOT
32	Nadeem, R; Zafar, MN; Afzal, A; Hanif, MA; Saeed, R	Potential of NaOH pretreated Mangifera indica waste biomass for the mitigation of Ni(II) and Co(II) from aqueous solutions	J TAIWAN INST CHEM E
33	Wang, L; Zheng, P; Xing, YJ; Li, W; Yang, J; Abbas, G; Liu, S; He, ZF; Zhang, JQ; Zhang, HT; Lu, HF	Effect of particle size on the performance of autotrophic nitrogen removal in the granular sludge bed reactor and microbiological mechanisms	BIORESOURCE TECHNOL
34	Li, W; Zheng, P; Wu, YL; Zhan, EC; Zhang, ZH; Wang, R; Xing, YJ; Abbas, G; Zeb, BS	Sludge bulking in a high-rate denitrifying automatic circulation (DAC) reactor	CHEM ENG J
35	Guo, PS; Danish, M; Du, PG; Kong, ZX; Guan, R	Viscoelastic and adhesive properties of polystyrene-hydrogenated (3,4-polyisoprene and 1,4-polyisoprene)-polystyrene and polymethyl methacrylate-polybutyl acrylate-polymethyl methacrylate-based HMPSA	J ADHES SCI TECHNOL
36	Cui, YF; Rashid, N; Hu, NX; Rehman, MSU; Han, JI	Electricity generation and microalgae cultivation in microbial fuel cell using microalgae-enriched anode and bio-cathode	ENERG CONVERS MANAGE
37	Nazar, MF; Raheel, M; Shah, SS; Danish, M; Ashfaq, M; Zafar, MN; Siddiq, M	Thermodynamic Characteristics and Spectral-Luminescent Properties of N-m-Tolylbenzamide in Microheterogeneous Surfactant Self-Assemblies	J SOLUTION CHEM
38	Khalil, HB; Zaidi, SJH	Energy crisis and potential of solar energy in Pakistan	RENEW SUST ENERG REV
39	Jabeen, S; Shah, MT; Ahmed, I; Khan, S; Hayat, MQ	Physico-chemical parameters of surface and ground water and their environmental impact assessment in the Haripur Basin, Pakistan	J GEOCHEM EXPLOR
40	Sultan, A; Mahmood, A; Goraya, NK; Qureshi, AM; Ahmad, I; Ashiq,	New nanoparticulate Gd _{1-x} Zr _x Fe _{1-y} Mn _y O ₃ multiferroics: Synthesis, characterization and evaluation of	J ALLOY COMPD

	MN; Shakir, I; Warsi, MF	electrical, dielectric and magnetic parameters	
41	Ansari, MS; Rakha, BA; Iqbal, R; Akhter, S	Effect of Glutathione in Extender on the Freezability of Sahiwal Bull Spermatozoa	PAK J ZOOL
42	Akhter, S; Rakha, BA; Iqbal, R; Ansari, MS	Effect of Bovine Serum Albumin on Motility, Plasmalemma, Viability and Chromatin Integrity of Buffalo Bull Spermatozoa	PAK J ZOOL
43	Raza, A; Qamer, MF; Afsheen, S; Adnan, M; Naeem, S; Atiq, M	Particulate Matter Associated Lung Function Decline in Brick Kiln Workers of Jalalpur Jattan, Pakistan	PAK J ZOOL
44	Akhter, S; Ansari, MS; Rakha, BA; Andrabi, SMH; Qayyum, M; Ullah, N	Effect of Fructose in Extender on Fertility of Buffalo Semen	PAK J ZOOL
45	Ibrahim, M; Ambreen, S; Hussain, A; Hussain, N; Imran, M; Ali, B; Sumrra, SH; Yousuf, M; Rehmani, FS	Phytochemical Investigation on Eucalyptus globulus Labill	ASIAN J CHEM
46	Li, W; Zheng, P; Guo, J; Ji, JY; Zhang, M; Zhang, ZH; Zhan, EC; Abbas, G	Characteristics of self-alkalization in high-rate denitrifying automatic circulation (DAC) reactor fed with methanol and sodium acetate	BIORESOURCE TECHNOL
47	Zhang, M; Zheng, P; Abbas, G; Chen, XG	Partitionable-space enhanced coagulation (PEC) reactor and its working mechanism: A new prospective chemical technology for phosphorus pollution control	WATER RES
48	Saeed, A; Khan, MS; Rafique, H; Shahid, M; Iqbal, J	Design, synthesis, molecular docking studies and in vitro screening of ethyl 4-(3-benzoylthioureido) benzoates as urease inhibitors	BIOORG CHEM
49	Ejaz, R; Ansari, MS; Rakha, BA; Ullah, N; Husna, AU; Iqbal, R; Akhter, S	Arachidic Acid in Extender Improves Post-thaw Parameters of Cryopreserved Nili-Ravi Buffalo Bull Semen	REPROD DOMEST ANIM
50	Nisa, FT; Asgher, M; Anwar, Z; Afroz, A; Zeeshan, N; Rashid, U; Irshad, M; Mehmood, S; Sughra, K	INFLUENCE OF CULTURE CONDITIONS ON LIGNINOLYTIC ENZYMES PRODUCTION FROM Ganoderma lucidum USING AGRO-INDUSTRIAL RESIDUES	FRESEN ENVIRON BULL
51	Iqbal, Z; Yousaf, S	Hilbert series of the braid monoid M B-4 in	TURK J MATH

		band generators	
52	Altaf, M; Javid, A; Irfan; Munir, MA; Ashraf, S; Umair, M; Iqbal, KJ; Khan, AM; Ali, Z	DIVERSITY OF WILD MAMMALIAN FAUNA OF CHENAB RIVERINE FOREST, PUNJAB, PAKISTAN	J ANIM PLANT SCI
53	Burgess, MG; Zafar, MN; Horner, ST; Clark, GR; Wright, LJ	Controlled translocation of palladium(II) within a 22 ring atom macrocyclic ligand	DALTON T
54	Aras, A; Iqbal, MJ; Naqvi, SKUH; Gercek, YC; Boztas, K; Gasparri, ML; Shatynska-Mytsyk, I; Fayyaz, S; Farooqi, AA	Anticancer Activity of Essential Oils: Targeting of Protein Networks in Cancer Cells	ASIAN PAC J CANCER P
55	Mumtaz, MW; Mukhtar, H; Anwar, F; Saari, N	RSM Based Optimization of Chemical and Enzymatic Transesterification of Palm Oil: Biodiesel Production and Assessment of Exhaust Emission Levels	SCI WORLD J
56	Ali, Z; Khan, AS; Karim, I; Uzair, M; Mahmood, T; Saeed, T; Sarwar, S; Ghori, N; Nisar, Z; Sarwat, SS; Qayyum, A; Khan, AA	Generation Mean Effects, Heterosis and Heritabilities for Seedling, Adult and Physiological Salinity Tolerance in Spring Wheat (<i>Triticum aestivum</i>)	INT J AGRIC BIOL
57	Zahur, M; Afroz, A; Rashid, U; Khaliq, S	Dermatomycoses: Challenges and Human Immune Responses	CURR PROTEIN PEPT SC
58	Janjua, MRSA; Mahmood, A; Nazar, MF; Yang, ZH; Pan, SL	Electronic Absorption Spectra and Nonlinear Optical Properties of Ruthenium Acetylide Complexes: A DFT Study Toward the Designing of New High NLO Response Compounds	ACTA CHIM SLOV
59	Zhao, ZQ; Feng, YJ; Feng, HJ; Ghulam, A; Su, Y; Shen, DS	Anaerobic biotransformation of fluoronitrobenzenes and microbial communities in methanogenic systems	J ENVIRON SCI HEAL A
60	Butt, HI; Shahzad, MI; Bashir, Q; Saqib, MAN; Khanum, A	Plasmid Based Expression and Bioactivity Evaluation of Caprine Growth Hormone Gene Cloned from a Local Pakistani Goat Breed, Beetal	INT J AGRIC BIOL
61	Abdul, M; Akram, W; Dar, A	DFT study of electronic and structural properties of Sm:GaN	COMP MATER SCI
62	Khan, IU; Razzaq, SN; Mariam, I; Ashfaq, M; Razzaq, SS	STABILITY-INDICATING RP-HPLC METHOD FOR SIMULTANEOUS DETERMINATION OF GATIFLOXACIN AND FLURBIPROFEN IN BINARY COMBINATION	QUIM NOVA

63	Zia, U; Ansari, MS; Akhter, S; Rakha, BA	BREEDING BIOLOGY OF RED VENTED BULBUL (PYCNONOTUS CAFER) IN THE AREA OF RAWALPINDI/ISLAMABAD	J ANIM PLANT SCI
64	Irshad, M; Anwar, Z; Mahmood, Z; Aqil, T; Mehmmmod, S; Nawaz, H	Bio-processing of agro-industrial waste orange peel for induced production of pectinase by Trichoderma viridi; its purification and characterization	TURK J BIOCHEM
65	Rehman, K; Iqbal, MJ; Zahra, N; Akash, MSH	Liver Stem Cells: From Preface to Advancements	CURR STEM CELL RES T
66	Li, W; Zheng, P; Ji, JY; Zhang, M; Guo, J; Zhang, JQ; Abbas, G	Floatation of granular sludge and its mechanism: A key approach for high-rate denitrifying reactor	BIORESOURCE TECHNOL
67	Khan, I; Ibrar, A; Abbas, N	Oxadiazoles as Privileged Motifs for Promising Anticancer Leads: Recent Advances and Future Prospects	ARCH PHARM

3.32 Articles and Books Published by UOG Faculty Members

- 1) Challenges in Implementation of TVM (Ticket Vending Machine) in Developing Countries for Mass Transport System: A Study of Human Behavior while Interacting with Ticket Vending Machine-TVM by Mazhar Abbas, Assistant Professor, SADA, UOG.
- 2) Design, User Experience, and Usability. User Experience Design for Everyday Life Applications and Services by Mazhar Abbas, Assistant Professor, SADA, UOG.

2.4 Conferences, Seminars and Workshops

UOG has organized a number of conferences, seminars and workshops for sharing the on-going research work, innovative and unique ideas and expanding educational dimensions. Our faculty members also participated in national and international conferences, seminars and workshops for discussing the key issues related to education, research methodology and their promotion. Summary of some main conferences, seminars and workshops is given below:

2.4.1 Seminars, Conferences, Workshops and other Events Organized by UOG				
Sr #	Event Date	Event Title	Venue	Type
1	4/7/2013	Career Counseling Seminar 2013	UOG	Seminar
2	3/9/2013	Youth Leadership Training Workshop	UOG	Workshop
3	6/9/2013	Defense Day Rally	UOG	Rally
4	11/9/2013	International Literacy Day Seminar	UOG	Seminar
5	10/9/2013	Training Workshop (Supporting Staff)	UOG	Workshop
6	26/9/2013	Three-day Conference on "Decentralization from Framework to Functionality"	Islamabad	Conference
7	1/10/2013	DICE 2013	UOG	Event
8	30/9/2013	Translation Day walk	UOG	Walk
9	7/10/2013	Sports Competitions by Express Media	UOG	Sports
10	10/10/2013	Changing trends of Media in Pakistan	UOG	Seminar

11	29/10/2013	Visit of UK students	UOG	Visit
12	3/11/2013	Dengue awareness seminar	UOG	Seminar
13	6/11/2013	Role of Journalism in Pakistani Society	UOG	Seminar
14	6/11/2013	First Brainier Quiz Competition 2013	UOG	Seminar
15	18/11/2013	Translation and its Demands	UOG	Competition
16	21/10/2013	Condolence Reference Syed Shabbir Hussain Shah	UOG	Reference
17	25/11/2013	Breast Cancer Seminar	UOG	Seminar
18	28/11/2013	Inter Departmental Debating Contest	UOG	Contest
19	3/12/2013	Visit of Delegation of CPSP of NSMC	UOG	Visit
20	5/12/2013	"Services of Science for Humanity" Inter Departmental Debate Competition	UOG	Competition
21	9/12/2013	Thaap Conference at UOG	UOG	Conference
22	14/12/2013	2nd Global Youth Leadership Conference	UOG	Conference
23	16/12/2013	Seminar on "Fall of Dhaka"	UOG	Seminar
24	24/12/2013	"Creative Writing" Seminar	UOG	Seminar
25	27/12/2013	"Quaid-e-Azam Emergence as a leader of Young Generation	UOG	Seminar
26	14/01/2014	Life of Prophet (PBUH) and Social Change	UOG	Seminar
27	15/1/2014	3rd Convocation	UOG	Convocation
28	23/1/2014	"Serat e Mustafa Seminar	UOG	Seminar
29	28/1/2014	Life of Prophet (PBUH) and Contemporary World	UOG	Seminar
30	30/1/2014	Translation : Creative Writing Intzar Husain	UOG	Seminar
31	2/2/2014	Poetic Translation	UOG	Talk
32	9/2/2014	Issues of HEC	UOG	Seminar
33	4/2/2014	Influence of Freud & Marx on literature	UOG	Seminar
34	4/2/2014	Mushaira by Qalmkar society	UOG	Mushaira
35	10/2/2014	Seminar on Breast Cancer" NSMC	UOG	Seminar
36	12/2/2014	Issues of Education in Pakistan	UOG	Debate
37	12/2/2014	Book Launching Khalid Mehmood's History of Norway"	UOG	Book Launching
38	15/2/2014	Seminar on Column Writing	UOG	Seminar
39	16/2/2014	Seminar on Prose Writing	UOG	Seminar
40	19/2/2014	Seminar on Charity NSMC	UOG	Seminar
41	23/2/2014	Tradition of Urdu Translation	UOG	Seminar
42	24/2/2014	Literary Festival	UOG	Festival
43	25/2/2014	Muslims and India's Partition	UOG	Seminar
44	22/2/2014	Tradition of Fiction Writing in Urdu	UOG	Seminar
45	01-3-2014	Translation and Screen Writing	UOG	Seminar
46	2/3/2014	Literary Historiography	UOG	Seminar
47	3-5/2/2014	International Women Day Celebration	UOG	Event
48	5/3/2014	Colloquium on Women Empowerment	UOG	Seminar
49	6/3/2014	USEFP Orientation Seminar	UOG	Seminar
50	7/3/2014	Women Literature ; Reclaiming the Silenced Voices	UOG	Seminar
51	10/3/2014	Unite Us" Dr Istiaq Ahmed	UOG	Seminar
52	19/3/2014	GRE International Test Preparation	UOG	Workshop
53	20/3/2014	Peer Orientation Session Bargad	UOG	Event
54	26/3/2014	Human Rights, Religion and Modern Changes	UOG	Seminar
55	27/3/2014	Seminar on Tree Plantation	UOG	Seminar
56	27/3/2014	Launching of "Hayyat" Literary Magazine NSMC	UOG	Book

				Launching
57	28-30/3/2014	1 st National Youth Leadership Conference	UOG	Conference
58	29/3/2014	Alumni Reunion 2014	UOG	Event
59	3-4/4/2014	Annual Sports Gala 2014	UOG	Sports
60	7/2/2014	Population, Women and Development	UOG	Seminar
61	8-10/4/2014	2 nd All Pakistan Declamation Contest	UOG	Competition
62	10/4/2014	Naat workshop	UOG	Workshop
63	19-20/4/2014	Training workshop for Journalists	UOG	Workshop
64	16-4-2014	1 st all Pakistan Quiz Competition	UOG	Competition
65	17/4/2014	2 nd Fundraising Week by UAFA	UOG	Event
66	23/4/2014	Seminar on Road Safety	UOG	Seminar
67	23/4/2014	World Book Day	UOG	Seminar
68	28/4/2014	1 st All Pakistan Inter University Qirrat and Naat Competition	UOG	Competition
69	2/5/2014	3 rd National Law Moot	UOG	Law Moot
70	2/5/2014	3 rd Hayyatians International Education Expo 2014	UOG	Edu. Expo
71	6/5/2014	Floral Exhibition by Botany Department	UOG	Exhibition
72	8/5/2014	Women & Technology a Talk	UOG	Talk
73	14/5/2014	Awareness Walk by NSMC	UOG	Walk
74	15/5/2014	Research Project Presentation “The Story in the Clay”	UOG	Project
75	21/5/2014	MOU signed between Pure Push and UOG	UOG	MOU
76	22/5/2014	Iqbal’s Thought in Contemporary Prospective	UOG	Seminar
77	29/5/2014	Active Citizen Program “ Orientation Session	UOG	Event
78	30/5/2014	MORA Scholarship Cheque Distribution Ceremony	UOG	Event
79	10/6/2014	Emerging PG Subjects Career Counseling	UOG	Seminar
80	17/6/2014	Poster Exhibition by Students of English Department	UOG	Exhibition
81	25-6-2014	Inauguration of the Central Library UOG	UOG	Event
82	27/6/2014	Textile Designing Exhibition	UOG	Exhibition

2.4.2 National Seminars and Conferences Attended by UOG Faculty

Sr. No.	Author(s)	Title of Paper	Title of Conference	Date & Venue of Conference
1	Prof Dr. Nizamuddin, VC, UOG	Universities as Knowledge-based Economy	Symposium during DICE Connect 2013	01-02 October 2013 held at University of Gujrat
2	Shahzada Babar, Manager, Uni-Ind Linkages	Academia – Industry Linkages & Socio-economic Development	Symposium during DICE Connect 2013	01-02 October 2013 held at University of Gujrat
3	Prof Dr. Khawar Islam, Dean, Faculty of Engineering, UOG	Policy, Planning and Implementation	Symposium during DICE Connect 2013	01-02 October 2013 held at University of Gujrat
4	Dr. Muddesar Iqbal,	Role of ORICs in	Symposium during	01-02 October

	Director, UOG	ORIC, Entrepreneurship	DICE Connect 2013	2013 held at University of Gujrat
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2.4.3 International Conferences / Seminars / Symposiums etc.

Sr. No.	Author(s)	Title of Paper	Title of Conference	Date & Venue of Conference (Country/City)
1	Dr. Muhamamd Raza Naqvi	Potential of Synthetic Gas Production from Black Liquor Gasification Based Bio-Refinery System Integrated with Kraft Pulp Mills in Pakistan	5 th International Conference on Applied Energy (ICAE 2013)	01-04.07.2013
2	Ms Rizwana Yousaf	Husband Only Foreign Migration : Women Left Behind	3 rd Shanghai International Conference on Social Sciences	11-13.07.2013 @ China
3	Dr. Muhammad Ashfaq	Derivatization/Chromophore Introduction of Tranexamic Acid and its HPLC Determination in Pharmaceutical Formulations	The 44 th IUPAC World Chemistry Congress	11-16.08.2013 @ Turkey
4	Dr. Javed Anjum Sheikh	From Global terminology to Local Terminology: A Review on Cross –Cultural Interface Design Solutions	15 th International Conference on Human Computer Interaction (HCI International 2013)	21-26.07.2013 @ USA
5	Ms.Tabussm Iqbal	A Corpus-based study of the use of Urdu cultural terms in Pakistani English Newspapers	2 nd Asia Pacific Corpus Linguistic Conference (APLA 2014)	7-9/03/2014 Hong Kong
6	Mr. Mushtaque Abbasi	The Politics of One Unit and the interests of Troika; A case study of Sindh	Annual Conference of the British Association for South Asian Studies (BASAS)2014	02-04/4/2014 London.UK
7	Mr. Tanveer Ahmed Nadeem	Determinants of Return Migration: A case of return from Greece	10 TH European Social Science History Conference	23-26/4/2014 Vienna University, Austria

2.5 Research Journal

The Center for Population, Urban and Environment Studies (CPUES), UOG is a central workplace to undertake social research with the collaboration of national and international institutes / organizations to explore the real issues of social life in Pakistan. The center has to its credit publishing an annual research journal "The Pakistan Journal of Social Issues" abbreviated as PJSI. Numerous interdisciplinary and result based research papers of UOG Faculty and researchers across the country have been published in this journal. UOG has planned to launch new research journals in the following fields:

- Modern era Engineering Technology in Pakistan
- The Role of Applied Sciences in Pakistan
- Innovative Research of Medical Education in Pakistan

2.6 Research Collaboration

UOG has an open door policy for enhancing linkages and extending cooperation for promoting research coordination and collaboration with national and international institutions for promoting research culture, strengthening educational dynamics, and technological outfit for introducing new fields of studies. The UOG also aims to enhance cooperation between the academic as well as non-academic institutions for producing skill oriented Human Resource. ORIC is keenly involved in establishing linkages with academia, industry and the community to carry out different projects. UOG has celebrated year 2013 as the "Year of University-Industry Linkages", ORIC organized a mega event in 2013; Distinguished, Innovations, Collaboration & Entrepreneurship. DICE-CONNECT 2013, a national level mega event, which included exhibition, competitions and symposium, to promote the environment of knowledge-based revolution in Pakistan by motivating people from both academia as well as industry to utilize state of the art high end technologies for the rapid development of innovative products. More than 40 universities across Pakistan participated in this event, besides organizations from strategic sector, TEVTA Punjab institutes, 70 plus industries, PUM Netherlands, and DICE Foundation USA. Further, Norwegian Center for the Advancement of Social Sciences (NCASS) has also been approved to be established with collaboration of Oslo and Akershus University College (HIOA) and Pak Norway Institutional Co-operation Programme on 20 March 2014.

2.7 Promotion of Indigenous Research

UOG has given top priority to promote indigenous research-oriented education for accomplishing social benefits. The university reaffirms its desire to strengthen indigenous research activities with participation of faculty members. Several faculty research projects are focusing on socio- economic and gender based basic human rights issues of the local population. The Center for Population, Urban and Environment Studies (CPUES) is committed to promote indigenous research in a disciplined and meaningful way.

The university also encourages innovative avenues for capacity building of staff with regard to knowledge and resources. The Center urged the scholars and researchers to promote the indigenous research on a host of social and industrial issues in order to find out meaningful solutions for benefiting the communities living in the geographical proximity of the university.

2.8 Funding Grants for R&D

UOG faculty has carried out their research and development projects with the help of national and international donor agencies. ORIC, UOG has also approached the donor agencies for arranging funds according to Higher Education Commission (HEC) guidelines. Details of funding Agencies are as below:

- Higher Education Commission (www.hec.gov.pk)
- The Higher Education Department, Govt. of the Punjab
- Pakistan Science Foundation (www.psf.gov.pk)
- National ICT R&D Fund (<http://www.ictrdf.org.pk>)
- Pak-US Joint Academic & Research Program (<http://publisher.hec.gov.pk/www.hec.gov.pk/pakus-rd>)
- TWAS-COMSTEC Joint Research Grants (<http://twas.ictp.it/prog/grants/>)
- Human Frontier Science Program (www.hfsp.org)
- International Foundation for Science (<http://www.ifs.se>)
- Research & Advocacy Fund (www.rafpakistan.org)
- Talented Researcher Exchange Program (TRXP) (www.britishcouncil.org/inspire)
- Academy of Finland (<http://www.aka.fi/en-gb/A/>)
- Alexander von Humboldt Foundation (<http://www.avh.de/en/index.htm>) Australian Agency for International Development (AusAID) (<http://www.ausaid.gov.au>)
- East WEST Center (www.eastwestcenter.org)
- European Research Council (ERC) (<http://erc.europa.eu>)
- EU Funding and Grants (http://ec.europa.eu/index_en.htm)
- International Development Research Center (<http://www.idrc.ca>)
- Japan International Cooperation Agency (JICA) (<http://www.jica.go.jp>) Sigma Xi – The Scientific Research Society (<http://www.sigmaxi.org>)
- The Asia Foundation(www.asiafoundation.org)
- UN Economic and Social Commission for Asia and Pacific (www.unescap.org)
- The Islamic Educational, Scientific & Cultural Organization (ISESCO) (www.isesco.org) USAID Education Program

Chapter-3

Quality Assurance

The UOG Quality Assurance Framework describes the main policies, procedures and guidance related to quality assurance, learning and teaching enhancement and academic standards. Quality Assurance in University of Gujrat is currently providing a range of internal and external mechanisms of academics, which assess teaching and research quality. The Quality Assurance key principle is that the primary determinant of teaching quality is the relationship between those delivering and supporting teaching and the student. In accord with this, its policies and processes aim to:

- a) Support regular reflective practice on the part of staff, teaching teams and academic managers.
- b) Create a culture of continuous improvement and enhancement.
- c) Encompass the requirements of professional statutory bodies
- d) Facilitate communication of needs and priorities.

3.1 Impact of Quality Assurance in the University

The quality assurance practices and procedures adapted by QEC at UOG have secured remarkable success during last year. QEC was placed in “w” category of QECs with the score of 92/100. This has been achieved by vigorous efforts made by the cell to monitor, evaluate and report the performance to the stakeholders of higher education with the objective to develop and strengthen quality culture at UOG. UOG has secured 11th position in the category of “Large Universities” which is itself a great achievement for the institution having very short history of its existence. QEC has played significant role and contributed immensely in this achievement which is greatly applauded and appreciated by QAA and university authorities.

Key Achievements:

QEC performs its functions as per guidelines laid in quality assurance manual of HEC which dictates that the QEC would be responsible for the quality assurance and enhancement in the university. In this connection, following activities have been carried out by QEC which indicate its dedicated efforts to promote quality culture at UOG.

1. *Evaluation of Self-Assessment Reports by Assessment Teams (8 departments)*
2. *Course Files Auditing (26 Departments)*
3. *Monitoring of Classes to ensure class conduct*
4. *Monitoring of Examinations*
5. *Monitoring of Admissions*
6. *Trainings of PT members (10 Departments)*
7. *SAR preparation (10 Programs)*
8. *Training of young faculty of institute of Biological and Chemical Sciences (IB&CS)*
9. *Awareness seminar on “quality in education” for students and teachers*

10. Participation in seminars, conferences and training sessions held by various organization

11. Promotion of quality assurance practices through print media

In addition to above mentioned activities QEC also performs various tasks assigned by the competent authority for the assurance of quality.

Future Outlook of QEC at UOG

The maintenance and assurance of quality in teaching-learning experience has a diversified notion and need periodic assessment based on feedback mechanism. The major ingredients of programs are inputs and processes (student intake, teaching methodologies, academic staff, infrastructural support, diversification and relevance of curriculum) which need to be assessed on quality parameters. In this regard, QEC plans to adopt several other innovative initiatives in order to protect the interests of stakeholders regarding quality of education at UOG.

The University of Gujrat is providing opportunities of education to the youth of Jhelum, Mandi Bahau Din, Bhimber (AJK), Hafiz Abad and other districts of Punjab, Baluchistan & FATA in addition to the industrial triangle of Gujranawala, Gujrat and Sialkot districts of Punjab provinces. There are about thirty undergraduate programs offered at main campus at Hafiz Hayat and constituent colleges in various disciplines of formal and professional education. UOG offers more than twenty five research degree programs (M Phil and Ph D programs) in various disciplines including Basic Sciences, Social Sciences, Engineering, Computer Science and Information Technology, Commerce and Business Management, Art & Design and Education. The university has also successfully implemented semester system BS program / Associate degree programs in nine affiliated public sector colleges. The university has more than eighty affiliated colleges spread well over Punjab province and Federal Capital.

The successful launch of such a great number of programs in diversified fields of specialization is highly commendable and indicates visionary outlook of the authority in higher education which has earned UOG's place in the category of "Large Universities" and ranked 11th ahead of all contemporary institution of similar standing. The university top management aspires higher rank in the future due to growth and progress of programs offered at post graduate level with enhanced research output in quantitative as well as qualitative terms.

The expansion of existing programs and launching of new programs have made the role of QEC pivotal in ascertaining the quality of teaching and research. QEC is aware of the responsibilities and expectations of the stakeholders about the challenge of quality assurance and enhancement in order to bring international compatibility and competency of graduates.

3.2 Quality Enhancement Cell

Quality Enhancement Cell (QEC) at UOG was established on 03rd January, 2008 in the phase III of QEC's Establishment as per guidelines of Quality Assurance Agency (QAA) of Higher Education Commission. The function of the QEC's is to promote quality culture in higher education by ascertaining the implementation of quality standards and continuous enhancement of the quality

parameters. QEC at UOG has undertaken the responsibility of quality assurance and enhancement with great commitment and devotion.

Quality of education is a multidimensional term, which encompasses various spheres of teaching-learning activities mainly focused on integrating quality inputs and quality processes to produce quality graduates. The academia has established academic standards for various programs to harmonize the teaching learning practices in global context. The primary objective of establishing such academic standards is to bring global synchronization in the competency of graduates and standardize teaching learning process. These standards pertaining to various aspects of higher education are absolutely dynamic in nature, thus, need to be defined and redefined, by the academic world on account of feedback from different stakeholders of higher education. Thus, the process of quality enhancement continues and is assessed and reassessed by reviewing the inputs, procedures and processes periodically.

In order to cope with the emerging challenges in the education sector in Pakistan, the establishment of Quality Enhancement Cells was a landmark of Quality assurance Agency (QAA) in developing and promoting quality culture in the universities. QECs are primarily concerned with assuring and enhancing the quality of education focusing on the development of programs' specifications and review of the quality standards. QEC also develops quality assurance procedures to evaluate the processes, which are in place to ensure the provision of quality education to the graduates.

Quality Assurance Practices at UOG

QEC has established a strong and vibrant mechanism for the implementation of quality processes and procedures at UOG. QEC has secured great success in achieving targets of implementation of quality assuring practices during last three years at UOG. QEC at UOG is being lead by Dr Tahir Aqil who has great potential to foresee the impact of quality in education and his innovative approaches have earned applause from all quarters of UOG and QAA of HEC.

Quality enhancement practices in place at UOG include feedback surveys, program reviews, periodic assessment, auditing of courses, monitoring of classes and examinations, trainings and workshops for the promotion of quality culture. The feedback mechanism comprised of Student course evaluation, Faculty course review, Survey of graduating students, Research student's progress review, Faculty survey, Alumni survey, Teachers' Evaluation survey and survey of departments offering Ph D program. The input thus obtained from different stakeholders is subjected to statistical analysis, which is then utilized in decision making for academic improvement.

The review process, comprising self-reviews performed at departmental level, peer review of programs by experts of national repute and external review by quality assurance bodies, is carried out to assess our strengths and enhance our capabilities. The program appraisal includes review of program objectives, outcomes, curriculum, institutional facilities and institutional support accomplished through a systemized process of Self Assessment of Programs. This periodic

assessment ensures continuous improvement in the program segments evaluated by assessment teams indicating clearly the areas, which need improvement.

3.3 Membership of Associations/Networks

QEC has acquired membership of International Network for Quality Assurance Agencies in Higher Education (INQAHEE) and QEC-NETWORKS in order to develop academic standards, review existing quality parameters and implement qualification frameworks. Through the membership of Associations, UOG is flourishing the academic programs according to international standards. The membership of these associations is beneficial for maintaining and managing the quality of education along with modern lines.

3.4 Accreditation of Programs from Relevant Councils

QEC also encourages the accreditation of programs with reputable accreditation bodies i.e. Pakistan Medical and Dental Council (PMDC) and Pakistan Engineering Council (PEC). Moreover, Director QEC being member of Academic Council, Advanced Studies and Research Board, and Committee of Control of Research Centre provides his opinion and expertise in various matters pertaining to quality assurance and enhancement in higher education.

Chapter-4

Faculty Development

4.1 Faculty Development Programs (MS/PhD Local + Foreign)

UOG initiated to organize faculty development program for upgrading the educational standards of faculty members and also ensure to maintain quality of education by improvement to compete at international level. The purpose of these types of activities is to boost the interpersonal and specific teaching skills. Prof. Dr. Zia-Ul-Qayyum, Vice Chancellor took initiative with his arrival in December 2014 for introducing a comprehensive “Faculty Development Program (FDP)” for upgrading and capacity building of faculty members. This FDP was launched by Academic branch of Registrar office, UOG with the aim to support UOG faculty and administrative staff for encouraging their teaching, research, outreach and leadership abilities by improving education. To accomplish this goal, the FDP offers a broad range of programs in the following features:

- Faculty Development (Departmental and University level programs).
- Promoting the Research Attitude.
- Research Methodologies & Use of Contemporary Application Tools.
- Organizational/Leadership Development
- Capacity Building for Taking Mega Tasks
- Quality of Education

On these lines, UOG provides excellent opportunities to its faculty and staff members for improving higher education by taking admission in UOG weekend programs as well as explore other opportunities at national and international level. During 2013-14, more than ten (10) faculty staff members moved at national and international institutes for higher education under various arrangements. The purpose of this kind of faculty development programs is to strengthen the academic and research areas of UOG. This Human Resource Development Plan (HRD) of UOG is envisaged to improve faculty skills, knowledge, utilization of resources; reduce dependency on external technical support. In future, it will help to produce capable graduates from university.

4.2 Returned Scholars

During 2013-14, 04 faculty members completed their higher studies and returned to join UOG.

Details are as under:

Sr. No .	Name of Faculty Member	Designation	Department	Study Program,i.e., MS/MPhil/ PhD with subject	Country
01	Moazzam Ali Malik	Assistant Professor	English	Ph.D.	Pakistan
02	Amjad Ali	Lecturer	Information Technology	Ph.D.	South Korea
03	Dr. Zaffar Iqbal	Assistant Professor	Mathematics	Post Doc	France

		(TTS)			
04	Dr. Muhammad Zeeshan Anwar	Lecturer	Anatomy, NSMC	M.Phil.	Pakistan

4.3 Present Scholars

Following faculty members started their study during 2013-14:

Sr. No.	Name of Faculty Member	Designation	Department	Nature of Study with subject	Country
01	Muhammad Farooq	Lecturer	Statistics	PhD	Germany
02	Faiqa Yaseen	Lecturer	Psychology	PhD	Pakistan
03	Mussarat Yasmin	Assistant Professor	English	PhD	USA
04	Dr. Ghulam Ali	Assistant Professor	English	PhD	Pakistan
05	Nauman Riaz	Assistant Professor	Computer Science	PhD	UK
06	Muhammad Shafiq	Lecturer	Information Technology	PhD	South Korea
07	Mudassar Maraj	Lecturer	Physics	PhD	China
08	Shahida Bashir	Assistant Professor	Mathematics	PhD	China
09	Dr. Zaffar Iqbal	Assistant Professor (TTS)	Mathematics	Post Doc	France
10	Muhammad Abid Dar	Lecturer	Mathematics	PhD	Germany
11	Sumaira Naeem	Lecturer	Chemistry	PhD	Malaysia
12	Hamama Islam Butt	Lecturer / Demonstrator	Biochemistry & Molecular Biology	PhD	China

Chapter-5

Access

5.1 Basic Enrollment

Over twenty thousand students are studying at Main Campus, i.e., Hafiz Hayat, UOG, Gujrat and its city campuses including one Medical College. In 2013-14, 5531 students got admission at Hafiz Hayat, UOG, Gujrat and its city campuses including Medical College, i.e., NSMC in different degree programs. Out of which, 50.86% are female students of remote areas. Detail of basic enrollment during 2013-14 is as under:

Study Program	Male	Female	Total	Gender wise Ratio %	
				Male	Female
PhD	13	2	15	86.67	13.33
MS/MPhil/MBA(3.5 years)/LLM	502	511	1013	49.56	50.44
MA/MSc	296	799	1095	27.03	72.97
BS/BSc/B.Com/LLB/MBBS/B.Arch. (Undergraduate 16-17 years education)	1782	1400	3182	56.00	44.00
Associate Degree (14 Years education)	125	101	226	55.31	44.69
Total	2718	2813	5531	49.14	50.86

5.2 Equity

UOG is providing equal admission opportunities on the basis of merit as per prescribed rules & regulations, policies and procedures of the University. Equal admission opportunity refers that all people, irrespective of gender, race, colour, age, religion, belief, marital or parental status have the same access to employment as well as admission. Particularly, university environment is free of gender discrimination or harassment and provides equal opportunities to women.

5.3 Gender-wise Detail

62.80 % of female students and 37.20 % male students are studying at Main Campus, i.e., Hafiz Hayat, UOG, Gujrat and its city campuses including Medical College, i.e., NSMC in various degree programs. Program wise distribution of male and female students is reflected in the table below.

Sr. #	Name of Department	Name of Degree/ Program	Gender wise Strength			Gender wise Ratio %	
			Male	Female	Total	Male	Female
A) Hafiz Hayat Campus, UOG							
A(1) Faculty of Computing & Information Technology (FCS&IT)							
1	Computer Science	BS (Hons)	394	159	553	71.25	28.75
		M.Sc	13	51	64	20.31	79.69
		MS/MPhil	31	20	51	60.78	39.22
2	Information Technology	BS (Hons)	377	135	512	73.63	26.37
		MSc	17	46	63	26.98	73.02
		MPhil	26	17	43	60.47	39.53
3	Software Engineering	BS (Hons)	246	43	289	85.12	14.88
Total A (1)			1104	471	1575	70.10	29.90
A (2) Faculty of Arts (FA)							
4	English	BS(Hons)	47	212	259	18.15	81.85
		MA	16	80	96	16.67	83.33
		M.Phill (English-Applied Translation Studies)	6	7	13	46.15	53.85
		MPhil (Literature)	9	19	28	32.14	67.86
		M.Phill (Linguistic)	12	31	43	27.91	72.09
5	Center for Languages & Translation Studies	MPhil	16	12	28	57.14	42.86
6	Islamic Studies	BS(Hons)	5	48	53	9.43	90.57
		MA/MSc	5	17	22	22.73	77.27
		MS/MPhil	16	22	38	42.11	57.89
7	Center for Media & Communication Studies	BS(Hons)	192	70	262	73.28	26.72
		BS(Hons)(Replica)	68	18	86	79.07	20.93
		MA /MSc	42	51	93	45.16	54.84
		MS/MPhil	40	12	52	76.92	23.08
8	Physical Education & Sports Sciences	Master of Science	14	39	53	26.42	73.58
Total A (2)			488	638	1126	43.34	56.66
A(3) School of Art, Design and Architecture (SADA)							

9	Architecture	B.Arch.	72	18	90	80.00	20.00
		B.Arch.(Replica)	6	1	7	85.71	14.29
10	Textile Design	BS(Hons)	0	26	26	0.00	100.00
11	Ceramics Design	BS(Hons)	6	11	17	35.29	64.71
12	Fine Arts	Bachelor of Fine Arts	3	23	26	11.54	88.46
		Bachelor of Fine Arts (Replica)	0	1	1	0.00	100.00
		M.Phil	1	3	4	25.00	75.00
13	Communication Design	BS(Hons)	36	79	115	31.30	68.70
		BS(Hons) (Replica)	8	2	10	80.00	20.00
14	Multimedia Arts	BS(Hons)	14	5	19	73.68	26.32
		MS/MPhil	4	3	7	57.14	42.86
15	Product Design	BS(Hons)	19	7	26	73.08	26.92
Total A(3)			91	160	251	36.25	63.75
A(4) Faculty of Science (FS)							
16	Biochemistry & Molecular Biology and Biotechnology	BS (B&MB)	32	203	235	13.62	86.38
		BS (Biotechnology)	26	92	118	22.03	77.97
		BS(Hons) (B&MB)	19	89	108	17.59	82.41
		BS (Replica) (B&MB)	6	41	47	12.77	87.23
		Master of Science(B&MB)	0	1	1	0.00	100.00
		M.Phil(B&MB)	17	20	37	45.95	54.05
		Mphil Biotechnology	6	11	17	35.29	64.71
		Master of Science Biotechnology	0	1	1	0.00	100.00
17	Zoology	BS (Hons)	54	651	705	7.66	92.34
		Master of Science	10	86	96	10.42	89.58
		M.Phil	6	25	31	19.35	80.65
		PhD	5	1	6	83.33	16.67
18	Botany	BS (Hons)	41	224	265	15.47	84.53
		BS (Replica)	4	18	22	18.18	81.82
		Master of Science	11	56	67	16.42	83.58
		M.Phil	8	19	27	29.63	70.37
19	Chemistry	BS(Hons)	83	243	326	25.46	74.54

		Master of Science	9	41	50	18.00	82.00
		M.Phil	10	28	38	26.32	73.68
20	Enviromental Sci.	BS(Hons)	63	128	191	32.98	67.02
		MPhil	8	2	10	80.00	20.00
21	Mathematics	BS(Hons)	105	263	368	28.53	71.47
		Master of Science	9	26	35	25.71	74.29
		MPhil	4	21	25	16.00	84.00
22	Physics	BS (Hons)	116	194	310	37.42	62.58
		BS (Replica)	22	28	50	44.00	56.00
		M.Phil	9	10	19	47.37	52.63
		Master of Science	22	33	55	40.00	60.00
23	Statistics	BS(Hons)	67	104	171	39.18	60.82
		MPhil	4	10	14	28.57	71.43
		Master of Science	8	28	36	22.22	77.78
24	Geography	BS(Hons)	18	27	45	40.00	60.00
		MPhil	5	2	7	71.43	28.57
Total A(4)			807	2726	3533	22.84	77.16
A(5) Faculty of Engineering & Technology (FE&T)							
25	Chemical Engineering	Bachelor of Science	181	24	205	88.29	11.71
		B-Tech (Evening)	63	1	64	98.44	1.56
		Master of Science (Engineering)	13	1	14	92.86	7.14
26	Electrical Engineering	Bachelor of Science	204	21	225	90.67	9.33
		B-Tech (Evening)	170	0	170	100.00	0.00
		Master of Science (Engineering)	24	0	24	100.00	0.00
27	Mechanical Engineering	B.Tech (Evening)	136	1	137	99.27	0.73
Total A(5)			791	48	839	94.28	5.72
A(6) Faculty of Social Sciences (FSS)							
28	Economics	BS(Hons)	74	134	208	35.58	64.42
		M.Phil	9	31	40	22.50	77.50
		Master of Science	25	92	117	21.37	78.63
29	Sociology	BS(Hons)	60	83	143	41.96	58.04
		M.A	25	77	102	24.51	75.49
		M.Phil	14	15	29	48.28	51.72
		PhD	3	0	3	100.00	0.00

32	History & Pakistan Studies	BS(Hons)	29	13	42	69.05	30.95
		MA	2	14	16	12.50	87.50
		MPhil	23	5	28	82.14	17.86
		M.Phil Pakistan Studies	17	4	21	80.95	19.05
33	Political Science & International Relations	BS(Hons)Political Science	59	43	102	57.84	42.16
		MA Political Science	8	14	22	36.36	63.64
		Mphil Political Science	14	11	25	56.00	44.00
		BS (Hons) International Relations	108	27	135	80.00	20.00
		M.A International Relations	11	14	25	44.00	56.00
		M.Phil International Relations	10	12	22	45.45	54.55
34	Psychology	BS(Hons)	27	234	261	10.34	89.66
		BS(Replica)	2	5	7	28.57	71.43
		Master of Science	2	108	110	1.82	98.18
		M.Phil	1	44	45	2.22	97.78
		Professiona Diploma in Clinical Psychology	0	15	15	0.00	100.00
35	Education	Associate Degree	0	30	30	0.00	100.00
		Bachelor of Education (B.Ed)	0	96	96	0.00	100.00
		M.Phil	3	36	39	7.69	92.31
		Mphil (Weekend Program)	29	25	54	53.70	46.30
Total A(6)			555	1182	1737	31.95	68.05
A(7) Faculty of Management and Administrative Sciences (FM&AS)							
36	Management Sciences	BBA (Hons)	167	159	326	51.23	48.77
		BBA (Hons)	82	51	133	61.65	38.35
		BBA (Replica)	129	57	186	69.35	30.65
		MBA (1.5 Years)	32	24	56	57.14	42.86
		MBA (3.5 Years)	189	206	395	47.85	52.15
		MBA (3.5 Years) (Replica)	59	49	108	54.63	45.37
		M.Phil	39	1	40	97.50	2.50
		PhD	5	17	22	22.73	77.27
37	Commerce	Associate Degree	0	1	1	0.00	100.00
		B.Com (Hons)	157	53	210	74.76	25.24

		M.Com	49	69	118	41.53	58.47
38	Institute of Hotel & Restaurant Management	Associate Degree	72	21	93	77.42	22.58
Total A(7)			980	708	1688	58.06	41.94
Grand Total A(1+2+3+4+5+6+7)			4816	5933	10749	44.80	55.20
B) Nawaz Sharif Medical College(NSMC), Gujrat						Ratio%	
Sr.#	Department Name	Degree/Program	Male	Female	Total	Male	Female
39	Medical Sciences	MBBS	132	299	431	30.63	69.37
Total (B)			132	299	431	30.63	69.37
C) Fatima Jinnah City Campus (FJ), Gujrat							
40	Art & Design	Associate Degree	0	11	11	0.00	100.00
41	Chemistry	Master of Science	1	44	45	2.22	97.78
42	Commerce	Associate Degree in Accounting & Finance	0	46	46	0.00	100.00
43	Computer Science	BS (Hons) (Evening)	36	9	45	80.00	20.00
		BS (Eevening)	171	18	189	90.48	9.52
44	Education	Associate Degree	0	51	51	0.00	100.00
		BS	0	59	59	0.00	100.00
		BS (Hons)	0	42	42	0.00	100.00
		M.A	0	42	42	0.00	100.00
		M.Phil	1	1	2	50.00	50.00
45	Information Technology	Associate Degree	0	61	61	0.00	100.00
		BS (Hons) (Evening)	26	3	29	89.66	10.34
		BS (Eevening)	163	10	173	94.22	5.78
46	Mathematics	Master of Science	1	37	38	2.63	97.37
47	Physics	Master of Science	33	40	73	45.21	54.79
48	Textile Design	Associate Degree	0	8	8	0.00	100.00
49	Intermediate FA/FSc	Pre-Medical	0	237	237	0.00	100.00
		Pre-Engg	0	101	101	0.00	100.00
		Commerce	0	383	383	0.00	100.00
		Humanities / Gen. Sci.	0	1359	1359	0.00	100.00
		Total (C)	431	2562	2993	0.00	85.60
D) UOG G.T Road City Campus, Gujrat							

50	Botany	Master of Science	11	64	75	14.67	85.33
51	Commerce	Associate Degree	12	0	12	100.00	0.00
		B.Com (Hons)	31	2	33	93.94	6.06
		M.Com	51	58	109	46.79	53.21
		M.Com (Evening)	78	17	95	82.11	17.89
52	History	M.A	1	12	13	7.69	92.31
53	Information Technology	Associate Degree	55	0	55	100.00	0.00
54	International Relations	M.A	13	24	37	35.14	64.86
55	Islamic Studies	M.A	1	15	16	6.25	93.75
56	Management Sciences	BBA (Evening)	275	48	323	85.14	14.86
		MBA (Evening)	85	27	112	75.89	24.11
		MBA (3.5 Years) (Evening)	313	98	411	76.16	23.84
57		Associate Degree	79	10	89	88.76	11.24
	School of Law	LLB (Hons)	141	74	215	65.58	34.42
		LLM	16	3	19	84.21	15.79
58	Zoology	Master of Science	12	87	99	12.12	87.88
60	Intermediate	FA/FSc	400	0	400	100	0
		Total (D)	1574	539	2113	74.49	25.51
E) UOG Marghazar City Campus, Gujrat							
61	Computer Science	BS (Evening)	210	19	229	91.70	8.30
		Master of Science	24	37	61	39.34	60.66
62	English	M.A	6	59	65	9.23	90.77
63	Information Technology	BS (Evening)	144	20	164	87.80	12.20
		Master of Science	0	45	45	0.00	100.00
64	Software Engineering	BS (Evening)	150	16	166	90.36	9.64
65	Intermediate	FSc	0	1694	1694	0.00	100.00
		ICS					
		Humanities					
		I.Com					
66	Commerce	Bachelor of Commerce	0	204	204	0	100
		Total (E)	534	1898	2432	21.96	78.04
F) UOG Railway Road City Campus, Gujrat							

67	Intermediate	FSc (Pre-Medi + Pre-Eng)	0	52	52	0	100
		FA	0	637	637	0	100
68	Commerce	Bachelor of Commerce	0	30	30	0	100
69	Arts	Bachelor of Arts	0	687	687	0	100
		Total (F)	0	1406	1406	0	100
Grand Total (A+B+C+D+E+F)			7487	12637	20124	37.20	62.80

5.4 Employability

The Career Guidance and Placement office under the umbrella of Student Services Centre is the key office to explore employment opportunities of university graduates after completion of their degrees. For this purpose, on-campus recruitment sessions, i.e., training, workshops, and job fairs are constantly organized by these offices. In 2013-14, this office facilitates more than twelve hundred students to avail internship opportunities in different institutions and organizations.

5.5 Faculty-Student Ratio

UOG has 602 faculty members and overall 20,124 students enrolled during the period under report (2013-14). This comes to a ratio of 33 students per teacher. It shows that there is a healthy balance in this ratio as teachers can fully concentrate on their students and students can get optimum benefit from their teachers.

Chapter-6

University Building Economies

6.1 University-Industry Linkages

UOG in its initial developmental phase is struggling to establish educational infrastructure for the promotion of quality education and innovative research within limited available funding from Government of the Punjab and Higher Education Commission, Islamabad. Since its operation in 2006, UOG is hectically engaged in establishing links with local as well as international industries and educational institutions for boosting up its role in economic development of the country. The Office of Research, Innovation & Commercialization (ORIC), SSC & University Advancement, and Financial Aid Office (UA&FAO) are responsible for this task. University of Gujrat is also focusing to improve the quality of education and promote innovative research areas. In accordance with university's vision, mission and goals, the UOG is striving to enhance its outreach capacity through horizontal expansion by establishing two Sub-campuses under public-private partnership arrangements in five major cities, i.e., Sialkot and Lahore. The University aims at building on its current strengths for the production of quality among students and upward growth in scholarly and creative activities.

UOG is recognized as a seat of knowledge creativity, innovation, research and technological advancement in Central Punjab. UOG is an important strategic asset of Higher Education in Pakistan that delivers the socio-economic benefits to the country. Collaborations between UOG and industry is playing a vital role in securing and leveraging additional resources of quality and technology in addition to producing graduates that have the knowledge and professional skills which are required for effective contribution to the workforce. UOG is performing its desired role with regard to academic promotion as well as maintaining liaison with Higher Education Commission (HEC) and Higher Education Department, Government of Punjab. It is developing and commercializing the green technologies. It connects academic institutions that are engaged in research, the companies, which are creating associated products, and the owners who use those products.

The University is facing considerable financial constraints that affect its economy, academic environment, and institutional research capacity. However, it takes steps to initiate and accelerate measures to strengthen institutional capacity and linkages with industry. Currently, UOG has established linkages with following organizations under the umbrella of ORIC:

- Rise Corporation, Sialkot, Pakistan
- Oakwood Trading, Defense Road, Sialkot, Pakistan
- Fouzi Brothers Rang Pura Road, Sialkot, Pakistan.
- Kounain Industries Pvt Ltd.
- Star Berry Enterprises, Zafarwal Road, Sailkot, Pakistan

- Dr.Frigz International Pvt.Ltd Airport Road Gohadpur, Sialkot, Pakistan.
- German HealthCare Industries Pvt Ltd, PO SIE Sialkot, Pakistan.

6.2 New Initiatives

University of Gujrat has taken up numerous new initiatives to strengthen university-industrial linkages for removing the financial constraints and drawing line of action to encourage economic growth and resource generation. Our new economic initiatives are based on innovative philanthropic efforts to enhance fast track university transition of traditional economic structure. Following initiatives have been taken during last year (2013-14):

- Office of the Research, Innovation and Commercialization (ORIC) has been proposed to establish a smart Grid in upcoming year, Center of Excellence in Renewable Energy & Energy Efficiency Program (REEEP) for smart metering by exploring sources of PV, BIOMASS, utility and hybrid system. The grid would produce 1MW to fulfill UOG needs.
- UOG organized numerous conferences, seminars, workshops, trainings with the collaboration of national and international organizations/ donor agencies/industries for enhancing the university- industrial linkages.

6.3 Internship and Placement Office Center, UOG

UOG is already committed to provide its students with job placement services. The Student Services Center and UA & FAO are the key offices helping the students to find an excellent job opportunity according to their career interests and ability. It offers them an opportunity to interact freely with different companies, organizations, industries and enterprises for employment purposes through several workshops and Seminars. The offices maintain close relationship with industry and business companies.

For placement purposes of the UOG graduates, Career Guidance & Placement office in Student Services Center is pro-actively establishing relationships with local industry for internships, jobs, scholarships and financial support to needy students. During 2013-14, 2654 students availed these employment services from Career Guidance & Placement office. The aim is to give an insight to the students into what employers want from recruits and to compete in a global jobs market.

Details are as under:

Sr. No.	Program	Number of Internship Referrals in 2012	Number of Internship Referrals in 2013	Number of Internship Referrals in 2014
1	BBA (Hons)	170	212	183
2	MBA	90	354	115
3	B.Com (Hons)	46	63	78
4	M.Com	47	224	132
5	BS (Hons) MassCommunication & Media	67	99	87
6	MA Mass Communication & Media	47	86	92
7	BS (Hons) Psychology	37	75	30

8	MSc Psychology	42	89	78
9	MPhil Psychology	0	11	10
10	BSc Electrical Engineering	41	44	47
11	BSc Chemical Engineering	36	39	46
12	BS (Hons)/MSc Computer Science & Information Technology	17	47	27
13	BS (Hons) Environmental Sciences	0	31	10
14	BS (Hons) Sociology/MA Sociology	11	03	13
15	BS (Hons)/MSc Chemistry	02	06	15
16	BS (Hons)/ MSc Economics	41	29	23
17	BS (Hons) Statistics	04	04	08
18	BS (Hons)/MSc Zoology	01	02	07
19	BS (Hons) Biochemistry	0	17	15
20	BS (Hons)/MA Population Sciences	03	7	0
21	Associate Degree/BS (Hons) Art Design & Architecture	13	70	80
22	B. Tech Mechanical Engineering	0	14	32
Total Number of Internship Referrals		715	1526	1128

6.4 Student Career Guidance

To support the holistic development of the students, and to produce the “brightest brains” the university has established a Career Development Office at Student Services Center that creates a vital and engaged campus community where students will be able to learn and develop the knowledge, skills, and values needed to lead and serve the nation.

Career Development office is focused to provide the career awareness to the students. The CDO has facilitated the students and Alumni in professional and career development. It helps the students to cope up with real world challenges and enhance their unique abilities, interest and aptitudes. CDO also enabled the students to compete in the market with some competitive advantages, which can allow them to attain desired professional objectives.

Key Objectives:

1. Assist students to make most suitable and accurate job choices with clear career path.
2. Properly guide students to cultivate their educational interests for long-term aims.
3. Timely bring about and provide information concerning student scholarships.
4. To support students for preparing interview and improve their interpersonal skills
5. To consolidate several events such as seminars / workshops / lectures / trainings, etc. for students.

Chapter-7

Strengthening of Physical Infrastructure

7.1 Development Projects (Laboratories, Libraries, etc.)

UOG has its own Work Committee and Work Rules, for execution of development projects regarding civil works through enlisted contractor/firms, approved by the Syndicate in its 17th meeting held on 02.03.2013. All development projects either funded by Government concerned departments or from university's own sources are being executed according to University of Gujrat (UOG) Work Rules. These Work Rules are derived from PPRA Rules and Contract Document, C&W Department, Govt. of the Punjab. These academic requests are presented in front of Work Committee with tentative cost estimates for inclusion of Annual Works Program (AWP) of the University for onward transmission to the Syndicate through Finance & Planning Committee. After approval from the competent forum, the approved developmental schemes/projects will be executed through university funds as listed in AWP.

During 2013-14, following projects/schemes were taken-up:

1. Establishment of University of Gujrat

The project titled "Establishment of University of Gujrat" was initiated by Higher Education Department, Government of the Punjab in 2006 for establishing university in Gujrat to fulfill the higher educational needs of Central Punjab population. Funds amounting to Rs 3458.358 million were allocated for this project. 80% of the construction work was completed during 2013-14 and the remaining 20% of construction work has been planned to be executed during 2014-15 subject to the provision of funds from concerned funding agency. 983 Kanal and 9 Marla's land was designated by Government of the Punjab for this project. Under the umbrella of this project, numerous facilities were constructed, i.e., Seven (07) Academic Blocks, Three (03) Admin. Blocks, Four (04) Hostels, One (01) Canteen, Community Facilities Three (03) Mini Markets, One (01) Mosque, One (01) Guest House, One (01) Female Faculty Accommodation, One Boundary Wall, Residencies for Vice Chancellor, Registrar & Controller of Examinations, Eight (08) Grade 20 Residencies, Eight (08) Grade 15-17 Residencies, Twelve (12) Grade 11-14 Residencies, Twenty four (24) Grade 1-10 Residencies, Two (02) Overhead reservoir and internal Roads. The project will be completed in next financial year subject to the provision of funds issued by Higher Education Department, Government of the Punjab for the construction of remaining items.

2. Establishment of Nawaz Sharif Medical College (NSMC) & Uplifting of ABS (DHQ) as Teaching Hospital

Government of the Punjab took a historic step in the direction of full scope of essential health care facilities in Gujrat area. The Chief Minister, Punjab issued directions to establish "Nawaz Sharif

Medical, University of Gujrat” in September 2008. The PC-I of project titled “Establishment NSMC & Uplifting of ABS (DHQ) as Teaching Hospital” was approved by PDWP in its meeting held on 2009 and accordingly Pakistan Medical & Dental Association (PM&DC) recognized the college. Rs 1974.246 million are allocated for this project. The project comprises facilities, i.e., one (1) Faculty Hostel, forty (40) Faculty Apartments, Twenty (20) Faculty Residences, three (03) Student Hostels, one (1) Boundary Wall, two (02) Clinical Blocks at ABS, twenty (20) bedded Ward emergency at ABS, one (01) Operation Theater at ABS, roads and landscaping in the approved PC-I. Presently, the work is in progress and almost 45% is completed.

3. Construction of Multipurpose Hall at University of Gujrat

The project titled “Construction of Multipurpose Hall at University of Gujrat” was approved by Central Development Working Party (CDWP) on 14.03.2012 and funds were provided by Higher Education Commission, Islamabad amounting to Rs 50.250. This project was timely identified according to University academic requirements (current as well as future). The funds of this project are in process of transfer from HEC to UOG. Accordingly, the work will be executed during next financial year.

4. Construction of Mini Market No. 2 First Floor of IHRM, UOG

The work/scheme titled “Construction of Mini Market No.02 First Floor of IHRM, UOG” was initiated on request of Institute of Hotel and Restaurant Management, UOG with the approval of Work Committee amounting to Rs 14.334 Million through its own sources, i.e., AWP 2013-14 for carrying out academic work and research activities. The purpose of this work/scheme was to streamline the academic work of newly launched Associate Degree in Hotel and Restaurant Management. Through this work/scheme, new classrooms with practical area were provided to students.

5. Construction of Store for Maintenance Department, UOG

The work/scheme titled “Construction of Store for Maintenance Department, UOG” was initiated on request of Maintenance Branch, Administration and Coordination Department, UOG. With the approval of Work Committee, Rs1.650 Million were spent on this project through university’s own sources, i.e., AWP for minor repair work of the university. This work/scheme was executed during 2013-14.

6. Construction of Male Staff Room # 02 for Girls Hostel, UOG

The work/scheme titled “Construction of Male Staff room # 02 for Girls Hostel, UOG” was initiated on request of Hostel Warden duly endorsed by Chairperson, Hall council. With the approval of Work Committee, Rs 0.311 Million were spent on this project through university’s own sources, i.e., AWP for male staff members.

7.2 Research Equipment

UOG provided equipment to its academic departments during 2013-14 for streamlining the academic work and executing the research activities as per time-to-time requirements. Department-wise detail of research equipment is as under:

Sr. No.	Name of Department	Scientific Instrument /Equipment with Description
1	Textile Design	<ul style="list-style-type: none">• Weaving Lab. was established on 02.09.2013 with 16 small 04 large size equipments.• It included Hand loom and Paddle loom with 02 Nos Tracing table, 01 No Exposing Table, 01 No Embroidery Machine Juki (LZ-271) China, 01 No Embroidery & Stitching Machine Model (Singer) 1302, 01 No Silver Reed knitting Machine Model 280 and 01 No LCD.
2	Physical Education	<ol style="list-style-type: none">1. Bio-Motors Abilities Lab was established with following equipments:<ul style="list-style-type: none">• 05 Nos Hardware Step box Flexibility Box Horizontal Bar.

Chapter-8

Strengthening Technological Infrastructure

UOG constantly improves and strengthens its Information Technology set-up with the provision of funds from Higher Education Commission (HEC) and Higher Education Department, Government of the Punjab. Currently, UOG has large IT set-up with the focus to support academic work and encourage research activities. Each academic department retains a computer lab for faculty and students. All faculty members have separate computer systems in their respective offices. Senior faculty members have separate laptops. The HEC provided high-speed internet connectivity of 60 Mbs at the Hafiz Hayat Campus for internet connectivity to the students and faculty.

8.1 Digital Library

National Digital Library programme was launched by Higher Education Commission of Pakistan (HEC) in February 2004 with the purpose to increase the access to scientific literature in Pakistan. The HEC secured inclusion in the Programme for Enhancement of Research Information (PERI) of the International Network for Scientific Publications (INASP). The Digital Library Office of HEC and National Academy of Science (USA) under their collaborative programme, funded under the Joint Pak-US S&T fund, provides access to Research Journals from well-reputed American Scientific Societies to meet the specific requirements of the research in Pakistani Universities. The programme provides researchers within the public and private universities of Pakistan and non-profit research and development organizations with access to international scholarly literature based on electronic (online) delivery, providing access to high quality peer-reviewed journals, databases, articles and PhD theses across a wide range of disciplines. University of Gujrat is also fully facilitated with access to the HEC Digital Library Programme. Brief introduction of resources available to UOG is as under:

EBRARY

- Ebrary offers a wide variety of multidisciplinary content. It acquires large number of titles from leading academic publishers.

American Society of Agricultural and Biological Engineers

- ASABE Technical Library includes a range of content including journals, textbook materials, monographs, standards and proceedings as well as the important reference work-in-progress, Design Topics.

Cambridge University Press

- Cambridge Journals Full Package, which includes 209, Journal titles in Linguistics, Politics, Medicine, Science, Technology, Social Science and Humanities. CUP is the

<p>printing and publishing house of the University of Cambridge and is the oldest press in world.</p>
<p><u>NRC Research Press Journals Online</u></p> <ul style="list-style-type: none"> • Online Journals in a broad range of research area. It provides full text of 16 online journals with back files dating back to 2001 in most cases.
<p><u>International Forestry Review</u></p> <ul style="list-style-type: none"> • The International Forestry Review is a peer-reviewed scientific journal that publishes papers, research notes and book reviews on all aspects of Forestry and Forest Research. It is published four times per year. Themed editions are a regular feature and attract a wide audience.
<p><u>Institute for Operations Research and Management Sciences (INFORMS)</u></p> <ul style="list-style-type: none"> • INFORMS publishes 12 scholarly journals, including a journal for the practice of OR/MS (Interfaces), as well as an on-line open access journal (INFORMS Transactions on Education).
<p><u>EDINBURGH UNIVERSITY PRESS</u></p> <ul style="list-style-type: none"> • Edinburgh University Press publishes over 30 Journals across a range of disciplines in the humanities and social sciences.
<p><u>ROYAL COLLEGE OF PHYSICIANS</u></p> <ul style="list-style-type: none"> • Royal College publishes Clinical Medicine Journal and it is read by leading physicians in hospitals across the world.
<p><u>EMERALD</u></p> <ul style="list-style-type: none"> • Emerald is a dynamic database comprising over 150 titles in the fields of “Management, Information Science and Engineering. • The Emerald fulltext collection features over 58,000 articles from titles published by Emerald. • Flagship titles such as Management Decision, European Journal of Marketing, Journal of Documentation, Leadership & Organization Development Journal, The TQM Magazine and Industrial Robot.
<p><u>MCGRAW HILL COLLECTIONS</u></p> <p>Following collections of McGraw Hill are subscribed to your institution:</p> <ul style="list-style-type: none"> • <u>McGraw-Hill's Access Science</u> • <u>McGraw- Hill's Access Engineering</u>

<p><u>PROJECT MUSE</u></p> <ul style="list-style-type: none"> • Project MUSE provides access to 430 full-text Journals from 108 publishers in humanities and social science. MUSE pricing meets library needs around the world.
<p><u>SPRINGER LINK</u></p> <ul style="list-style-type: none"> • One of the world's leading information services for Science, Technical and Medical Journals. • SpringerLink provides access to 503 full-text Springer-Verlag Journals and 738 full-text Journals formerly published by Kluwer Academic Publishing.
<p><u>TAYLOR & FRANCIS Journals</u></p> <ul style="list-style-type: none"> • Taylor & Francis has grown rapidly over the last two decades to become a leading international academic publisher. • More than 1000 Journal titles in a full range of disciplines.
<p><u>University of Chicago Press</u></p> <ul style="list-style-type: none"> • The Journals Division publishes Journals and serials in a wide range of disciplines, including several Journals that were the first scholarly publications in their respective fields.
<p><u>WILEY-BLACKWELL JOURNALS</u></p> <ul style="list-style-type: none"> • Since the Blackwell-Synergy merger with Wiley-Interscience, all the Journals available to HEC consortium are now available through Wiley-Interscience. • Online database containing over 1,234 Journals in science, technology, medicine, humanities and social sciences.

8.2 Pakistan Education & Research Network (PERN)

The PERN in UOG is fully functional with its desired objectives to focus on collaborative research, knowledge sharing, resource sharing and distance learning by connecting people via Internet Resources. UOG is connected to PERN along with Higher Education Commission. UOG is availing HEC PERN 60 Mbps internet backbone link for research and academic activities.

UOG is availing the following facilities with the connection HEC PERN:

1. Digital library
2. Video Conferencing
3. Turnitin

Through HEC PERN facility, students and faculty carries out research and academic activities smoothly as per its desired objectives. Through HEC PERN, UOG provides the facility of digital library with 15 available resources and enhances the quality of video conferencing.

8.3 Video Conferencing

In UOG, Video Conferencing facility has become a key method for using teaching purposes as well as training of faculty staff members. This technology is fully helpful for University business and organizational training. It is critical that instructors and trainers develop new knowledge and skills to understand this technology and to realize and use its potential for constructive purposes. Details of Video Conferencing events during 2013-14 are as under:

Sr #	Event title	Type	Date	Organized By
1	Meeting regarding KIU Search Committee	Meeting	03rd January, 2014	HEC
2	Video Conferencing session with IUB Bahawalpur	Meeting	6th January 2014	HEC
3	Video Con Request	Meeting	08th January, 2014	UOG
4	The LEADERSHIP Dimension in Teaching” by Resource Person Mr. Safeer Ahmed Khan	Meeting	10th January, 2014	HEC
5	PAS Online Lecture: Bio-MEMS: Advanced Technology in Personal Health Care	Lecturer	16th January, 2014	PAS
6	Video Con Request	Meeting	04th Feb, 2104	HEC
7	2nd QEC session on Making your Personal Development Plans	Session	Feb 10,2014	Khyber Medical University
8	DIPC 2014 Intro session	Session	20th February, 2014	IBA- Karachi
9	Video conf. at GIK Institute for Cambridge University press Training session	Training Session	24th Feb, 2014	HEC
10	Webinar session "Societal Grand Challenges and the Role of Engineering Education in the 21st Century	Webinar	Feb 27th,2014	HEC and Harvard University
11	4th International Conference on Business Management (ICoBM)	Conference	26-27 February 2014	Sukkur Institute of Business Administration, in collaboration with University of Management and Technology
12	Fulbright Orientation Program	Orientation	06th March, 2014	HEC
13	An Overview of Quality & Productivity Society of Pakistan	Session	March,10, 2014	Khyber Medical University

14	Asia Wireless Infrastructure	Seminar	11th March, 2014	Ministry of Internal Affairs and Communications
15	Why Study the Brain	Webinar	March 14th, 2014	HEC and Harvard University
16	Human Rights, Religion and Modern Challenges	Seminar	27th March, 2014	UOG
17	Leadership Skills	Workshop	31st March, 2014 and 1st April, 2014	HEC
18	Sustainable Quality Improvement in Pakistan on Saturday	Workshop	5th April 2014	HEC
19	Approaches of Assessing Quality in Higher Education Institutions	Session	April 10, 2014	Khyber Medical University
20	Awareness Seminar on "Horizon 2020"	Seminar	25th April 2014	NUST
21	Women in Politics: The Case of India	Webinar	8th May, 2014	HEC and Harvard University
22	Monthly Video Conference on May 09, 2014 among QECs of Public and Private Sector Universities of Pakistan.	Conference	9th May , 2014	Khyber Medical University
23	Social Marketing: Strategies for uplifting Social Causes and ethics in Pakistan	Seminar	02nd June, 2014	HEC
24	WORTHY CHAIRMAN-HEC, ADDRESS TO ALL PUBLIC SECTOR HEIS. VC's for UNIVERSITY GOVERNANCE ENHANCEMENT	Meeting	19th Jun, 2014	HEC
25	DICE-INVENT 2014: Entrepreneurship Competition and Training Program for Pakistani Youth	Workshop	3rd July, 2014	IBA Karachi
26	Capturing Willingness to Pay and Its Determinants through Contingent Valuation Method for Improved Solid Waste Management in Abbottabad, Pakistan	Seminar	July 09, 2014	PIDE
27	Video Conference with Turnitin and Leeds	Conference	August 5, 2014 & August 6, 2014	HEC

	Metropolitan University, UK			
28	Using KPI for Performance Evaluation at Program and Institutional Level	Seminar	18th August, 2014	HEC
29	Arrangement of Video Con regarding Researcher Links Program	Meeting	September 15, 2014	HEC
30	Right of People to Peace	Seminar	23rd September, 2014	AIOU and Universal Sufi Council
31	Online Asset Management System for Linking Laptops and Bags with Students' CNIC (PM Laptop Scheme)	Conference	13th October, 2014	HEC
32	Universities Laptop Distribution discussion	Discussion	21st October, 2014	HEC
33	Harvard University SAI Webinar Series (2014-2015)	Webinar	1st October, 2014	HEC
34	Online Lecture on Peace and Conflict studies	Lecture	13th November, 2014	University of Peshawar
35	Video Conference Calendar for session among Public and Private sector Universities QECs	Conference	10th December , 2014	HEC

8.4 Campus Management Solution

UOG initiated a project related to campus management solution under the umbrella of Software Development Cell (SDC) in accordance with HEC guidelines to facilitate the interaction and communication system with faculty, staff members and students to enhance educational standards. Presently, UOG Information System (UOGIS Academic Module), UOG Alumni portal, UOG faculty and student web portal, UOG OPAC Library system and database management system are the key projects to assist the faculty and students regarding their academic activities. The UOGIS is a comprehensive solution that automates majority of tasks that are required in proper functioning of UOG. The UOGIS has reached advanced stage level campus management solution, which is comparatively more beneficial due to its modalities of stages. UOGIS allows faculty to record attendance, enter sessional marks and upload lecture notes, schedule and any other information they would like to share. Students are permitted to login and see their marks and attendance data as well as the lecture stuff. This facility has made academic activities easy for both—faculty and students. Because of UOGIS, UOG has an advantage over what other universities campus management solutions are offering, in that they are not at such advanced level.

The UOG Alumni portal is another system to actuate the faculty and students on a single forum for social interaction to discuss the academic issues and devise their solutions. Our campus

management solution is integrated and acts as management information system, which efficiently deals with the various UOG activities, i.e., faculty & student management, administrative functions, etc. It increases the key benefits of students including enhancement of interaction and communication with teachers, the ability for students to meet many regular requirements such as scheduling and verification of attendance without the assistance of a university employee. The campus management solution at UOG is also managed and updated with student academic activities from the stages of admission, examination details, career placement or internships, and alumni relations. The program also provides students and alumni with immediate access in time information regarding events and new developments. It also provides students access to online course selection and registration process with timetable, results and examination schedules. The UOGIS facilitates the students to register themselves for online courses and generate fee challan from anywhere around the world. Lecture sharing with affiliated colleges is also feasible.

Sr #	Project/Module Name	Status
1	UOGIS Academic Module	Running
2	UOGIS Student Web Portal	Running
3	UOGIS Faculty web Portal	Running
4	UOGIS OPAC Library Portal	Running
5	UOGIS Examination Module	Running

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8.5 Web Portal

UOG web portal www.uog.edu.pk is an integrated web service for faculty and students. The university web site is attractive, with colorful tools and services arranged into convenient categories. The portal provides an interface to various services and events. It can present the UOG academic life cycle and inform the people about their educational interests, and activities. This web portal represents the worth of organizational progress through new initiatives for academic programs with technical and skill-based initiatives.

Our web portal indicates all the information relating to university for existing students as well as newcomers. It provides the details of Academics, Examinations, Research, H.H Learning Resource Center, Career opportunities, News Updates, Quick Links, Hayatians Alumni Portal, Students Services Centre, Office of Research, Innovation & Commercialization (ORIC) and Press, Media & Publications. The UOG site navigation is designed to be user friendly together with various tools and services to access University's key features such as faculty, departments, disciplines, research and teaching categories, admission details, new developments and all office details with key personnel. All students and faculty are provided with e-mail address and login facility. The UOG web portal provides news updates regarding new developments at UOG on daily basis to the faculty, students and other users.

Chapter-9

Universities Building Communities

9.1 University-Community Interaction

Community interaction as a core function of UOG is to encourage and accomplish enterprises with communities to facilitate cooperation between the university and communities and deliver the means whereby they can dynamically realize knowledge, teach and learn new adding's/areas. UOG strongly distinguishes community interaction related activities for teaching, learning and research. Such activities may fulfill following terms and conditions:

- The activity should be interactively associated to an identifiable group in a community outside the institution.
- Collaboration should be actively allied to recognizable needs of both the university and the community. There should be an obviously identified advantage for the community and for the university.
- The interaction should be a sustained action within a reciprocally distinct relationship.

The UOG management supports the combination of three core purposes, i.e. teaching and learning, research and community interaction. In its strategic framework for planning and development of academic promotion and infrastructural development as per UOG Vision espouses the outlook that the task of a University is to:

- Create knowledge (research)
- Transfer knowledge (teaching)
- Apply knowledge (community interaction)

The Community Interaction Policy affirms the University's commitment and relationship with the communities in which it is rooted. The UOG policy endorses the acknowledgement of its contribution for the reduction of illiteracy through several academic initiatives and commitments to redress the developmental initiatives according to community needs.

In support of its mission under selected focus areas, CIP highlights the important issues and caters to the community needs on regular basis. UOG undertakes to play a leading role in serving the community and opening up new opportunities for the people of the community who wish to improve their lives. To the successful implementation of these tasks, the UOG Students Services Center (SSC) has chalked out the strategy for community participation to encourage the healthy educational environment. The Center has organized a number of programs for the community's interaction and development, in which local people have also participated. The center engaged the students to organize various literary programs on the shrine of Saint Hafiz Hayat. These programs were beneficial for UOG's sustainable academic development and to interact with people who participate for the development of UOG through funding and financial grants. UOG adopted two important modalities for community interaction:

- a) **Collaboration:** Establish collaboration between UOG and community for achieving mutual objectives and goals.
- b) **Social Customs and Developments:** UOG conducts research and identifies the society's values and customs for sustainable social development.

UOG established Hayatians Alumni Association of existing & former students and faculty for the community interaction and the achievement of university's desirable goals. The Hayatians Alumni is the supportive forum for interaction between UOG and local area people. The Alumni role is to build the UOG worth within the society for the strengthening of indigenous education.

9.2 University's Role in Building Community

Being a higher education institution, UOG has an obvious vested interest in building strong relationships with local communities for imparting standardized education and research. The academia community linkage and interaction is the key to launch community-based projects for strengthening the growth of education system and enhancing the literacy rate as assigned by Higher Education Commission in accordance with our National Education Policy. The university plays a major role in building community for accomplishing the set national targets. Awareness and urge for education can easily be traced out with the involvement of community. UOG is intrinsically an important institution in North East Central region of Punjab for helping socio-economic development of community. Our faculty, students, concerned offices; university alumni and societies are the main source and drive for community building. UOG undertakes to play a leading role in serving the community and opening up new opportunities for the people of the community who wish to improve their lives. To the successful implementation of these tasks, the UOG Students Services Center (SSC), Office of Research Innovation and Commercialization (ORIC) and Business Incubation Center (BIC) have chalked out the strategy for community participation to encourage the healthy educational environment. The SSC has organized a number of programs for the community interaction and development, in which local people have also participated. These programs were beneficial for UOG's sustainable academic development and to interact with people who participate for the development of UOG through funding and financial grants. UOG adopted three vital modalities for community interaction:

- **Collaboration:** Establish collaboration between UOG and community for achieving mutual objectives and goals.
- **Social Customs and Developments:** UOG conducts research and identifies the society's values and customs for sustainable social development.
- **Health and Education Awareness:** Introduce health and education awareness through community interaction programs, i.e., educational expos, functions and through alumni forum.

Furthermore, SSC has established three forums for encouraging the role of university in community building, i.e., Internship & Placement Office, Career Counseling Office and Hayatian's

Alumni Association. These forums are also involved in carrying out all the activities of community building through numerous societies.

Key Features of UOG Community Building

UOG provides open access to surrounding communities for getting higher education.

- It supports furnishing of skills to populace living in its vicinity as upcoming human resource through professional education.
- It hires skilled and professional staff from nearby villages and towns FM 106.6 radio serves a large population in 50 KMs radius. Its programs offer information, news, and entertaining materials for all kinds of audience.
- UOG has demarcated four Union Councils where students are able to conduct surveys and research with friendly inhabitants.
- Various departments assign projects and activities to the students that may involve productive and beneficial activities for the community. For example, students of the Communication Department launched a dental education program in nearby villages.
- Campus FM Radio plans to broadcast programs for a variety of audience in the communities.
- UOG has made an in depth research on neighboring communities of the varsity and compiled a data bank which forms a basis for further researches in different disciplines.

9.3 Alumni Affairs: Outstanding Achievements

UOG established its Hayatians Alumni Association last year with the aim to strengthen university-community interaction for the development of socio-economic growth and specific health sector. The university alumni are fostering the lifelong connections between students and faculty for the development of university academics and ensuring the provision of financial and technical assistance for deserving students in the shape of scholarships. It also promotes, encourages and assists in effective communication between faculty and the alumni to play their crucial roles in community development. The university alumni forum encourages the students to participate in productive activities such as students' recruitment and career development. The members of the Haytians' Alumni Association represent the university within the society as Ambassadors of the varsity for achieving its desired objectives.

The purpose of the Haytians' Alumni Association is to provide opportunities for Haytians' alumni, students, family and friends to support UOG key strategic initiatives, which include the revitalization and expansion of financial resources, achieving academic excellence, enhancing research, and creative initiatives by engaging the community for achieving its goals.

Achievements of Hayatians Alumni

The University alumni have achieved their desired objectives within a short span of time and enhanced the university academic strength at national level. The Hayatians Alumni Association

forum plays a key role in the development of University and fund raising for deserving students in the form of scholarships. Followings are the achievements of alumni in the year 2013-14:

- Organized several events for university-community interaction and promotion of research-based culture in this region.
- Arranged Alumni Annual Dinner for interaction between students and faculty and announcement of key initiatives.
- A large number faculty members and students were registered on the forum of university Alumni.
- Established new links with local communities and industry for working on common interest areas and boasting the socio-economic development.
- Provided career opportunities to university graduates through our internship program and also industry internship initiatives.

Chapter-10

Sports

Along with academic events, University organizes sports events such as Inter-Department Sports Competitions, Inter-Varsity Championship, and Sports Gala. The motive behind such sports events is to motivate students for healthy activity and encourage students' spirit to enhance the sense of achievement and character building in every realm of their lives. Sports Department UOG, was established in 2007. The Sports Department, UOG provides all essential facilities to the students for physical activities, particularly sports purposes for the well-being and healthy grooming of youth. Accordingly, Sports Department UOG provides following facilities/services to their students:

1. Provides facilities for indoor sports for male & female students such as Badminton, Basketball, Chess, Gymnastics, Karate, Netball, Table Tennis & Weightlifting.
2. Makes available outdoor sports facilities for male and female students such as Athletics, Cricket, Football, Kabaddi, Volleyball & Tug of War.
3. Conducts Annual Sports Gala at each year in which students from UOG Hafiz Hayat Campus, all City Campuses of UOG, and all campuses from other cities participates.
4. Conducts Inter-faculty Championships on annual basis.
5. Conducts Interdepartmental Championships on annual basis.
6. Ensures participation in Intervarsity Championship almost every year.
7. Provides training & coaching facilities to student players for participation in Intervarsity Championships.
8. Provides non-consumable sports gears for preparation and participation in championships.
9. Assists all Departments of UOG to organize their Sports activities.
10. Arranges Inter-departmental tournaments and friendly matches with other universities and colleges.

The indoor sports activities are expanding with the construction of Allama Iqbal Hall as Multipurpose Hall at UOG. The funds are provided by Higher Education Commission, Islamabad. The purpose of this facility is to encourage students' indoor sports activities. With the provision of this facility, the Sports activities regarding Badminton, Basketball, Chess, Gymnastics, Karate, Netball, Table Tennis and Weightlifting etc. would highly become popular among students.

10.1 Inter-Faculty/ Intervarsities / Departmental Sports

Following is the detail of Inter-Faculty Sports held during 2013-14:

Inter-Faculty Sports	
A) Event Name: Cricket (Men) Championship 2013-14	
Organized By:	Sports Department, UOG
Date of Conduct	04 th to 06 th December 2013

Venue:	Sports Ground
No of Participating Teams	09
Participating Faculties/ Campuses:	<ul style="list-style-type: none"> • School of Law • Nawaz Sharif Medical College • Faculty of Social Sciences • Faculty of Basic Sciences • School of Arts, Design & Architect • Faculty of Engineering & Technology • Faculty of Management Sciences • UOG City Campus • Faculty of Computer Science & Information Technology
No of Participants(Students):	135
Championship Runners Up:	Faculty of Social Sciences
Winner:	Faculty of Computer Science & Information Technology
Award:	Certificates to all participating Students
B) Event Name: FOOTBALL (MEN) CHAMPIONSHIP 2013-14	
Organized By:	Sports Department, UOG
Date of Event	04 th to 06 th December 2013
Venue:	Sports Ground
No of Participating Teams	08
Participating Faculties/ Campuses:	<ul style="list-style-type: none"> • School of Arts, Design & Architect • Nawaz Sharif Medical College • Faculty of Engineering • Faculty of Management Sciences (E) • School of Law • Faculty of Computer Science & Information Technology • Faculty of Social Sciences • Faculty of Basic Sciences
No of Participants (Students):	128
Championship Runners Up:	Faculty of Social Sciences
Winner:	School of Arts, Design & Architect
Award:	Certificates to all participating Students
C) Event Name: BASKET BALL (MEN) CHAMPIONSHIP 2013-14	
Organized By:	Sports Department, UOG
Date of Conduct:	17 th to 19 th December 2014
Venue:	Sports Ground
No of Participating Teams	06
Participating Faculties/ Campuses:	<ul style="list-style-type: none"> • Faculty of Engineering • School of Arts, Design and Architect • Faculty of Social Sciences • Faculty of Management Sciences • Faculty of Basic Sciences

	<ul style="list-style-type: none"> • Faculty of Computer Science & Information Technology • Faculty of Arts
No of Participants(Students):	90
Championship Runners Up:	Faculty of Management Sciences
Winner:	Faculty of Computer Science & Information Technology
Award:	Certificates to all participating Students
D) Event Name: BASKET BALL (WOMEN) CHAMPIONSHIP 2013-14	
Organized By:	Sports Department, UOG
Date of Event:	12 th & 13 th December 2013
Venue:	Sports Ground
No of Participating Teams	03
Participating Faculties/ Campuses:	<ul style="list-style-type: none"> • School of Law • Faculty of Social Sciences • Faculty of Computer Science & Information Technology
No of Participants (Students):	36
Championship Runners Up:	School of Law
Winner:	Faculty of Computer Science & Information Technology
Award:	Certificates to all participating Students
E) TABLE TENNIS (MEN) CHAMPIONSHIP 2013-14	
Organized By:	Sports Department, UOG
Date of Event:	12 th & 13 th December 2013
Venue:	Sports Ground
No of Participating Teams	06
Participating Faculties/ Campuses:	Faculty of Computer Science & Information Technology Faculty of Arts Faculty of Engineering Nawaz Sharif Medical College UOG City Campus G.T Road Gujrat School of Arts, Design & Architect
No of Participants (Students):	30
Championship Runners Up:	Faculty of Computer Science & Information Technology
Winner:	School of Arts, Design & Architect
Award:	Certificates to all participating Students
F) UOG Seminar (Significance of Women Sports)	
Organized By:	Sports Department, UOG
Date of Conduct:	07-10-2013
Venue:	University of Gujrat Hafiz Hayat Campus
No of Participating Teams	All Female Students of University Of Gujrat and City Campuses
Participating Faculties/ Campuses:	<ul style="list-style-type: none"> • UOG Hafiz Hayat Campus • UOG City Campus Railway Road Gujrat • UOG City Campus Marghzar College • UOG City Campus Fatima Jinnah College

No of Participants (Students):	150
Quiz Completion:	1 st Position UOG Hafiz Hayat Campus 2 nd Position UOG City Campus Fatima Jinnah College
Winner:	Trophies & Books (General knowledge & Islamic Books) were awarded to 1 st & 2 nd Position Holders.
Award:	Certificate to all Postion Holders
G) UOG Annual Sports Gala 2014	
Organized By:	Sports Department, UOG
Date of Event:	02th to 04 April 2014
Venue:	Sports Ground
Participants:	All Students (Male & Female), Faculty Members and Administrative Staff of UOG.
Participating Faculties/Campuses:	<ul style="list-style-type: none"> • UOG Hafiz Hayat Campus • UOG City Campus G.T Road Gujrat • UOG City Campus Railway Road Gujrat • UOG City Campus Marghzar College • UOG City Campus Fatima Jinnah College • Govt. College Women University Sialkot
No of Participants (Students):	250
No of Spectators:	15,000 Approximately
Games & Events:	Athletics (Men): 100m, 200m, 400m, 800m, 1500m, 4x100 m Relay race, Long Jump, Triple Jump, Discus Throw, Shot Put & Javelin Throw Athletics (Women): 100m, 200m, 400m, 800m, 4x100 m Relay race, Long Jump, Discus Throw, Shot Put & Javelin Throw, 100m Race, Faculty Kids Race
Award:	Trophies: Awarded Trophies to Departments & Best Athlete (Men & Women) Medals: Awarded Gold Medals (30 Medals) to 1 st Position Holders in Athletics Event Awarded Silver Medals (30 Medals) to 2 nd Position Holders in Athletics Event Awarded Bronze Medals (32 Medals) to 3 rd Position Holders in Athletics Event Certificates: Awarded Certificates to all Students who participated in Games & Events of Annual Sports Gala 2014. Souvenir: Souvenirs were awarded to all Guests at Annual Sports Gala 2014
Intervarsities Sports	
H) CRICKET (MEN) CHAMPIONSHIP 2013-14 ZONE C	

Organized By:	COMSATS Islamabad under the supervision of HEC	
Date of Event:	20-01-2014	
Venue:	COMSATS Islamabad	
Participating Teams:	UOG Cricket Team	
Participating Student Players:	Student's Name	Department, UOG
	Mohsin Raza	Information Technology
	Ahsan Sadiq	Basic Sciences
	Waheed Rasool	Social Science
	M. Aftab Akhtar Sheikh	Basic Science
	Tabbish Ali	Information Technology
	Qasim Liaqat	Engineering
	Waqar Mehmood Dar	Social Science
	Waqas Asghar	SADA
	Awais Hussain	Information Technology
	Abid Riaz	Engineering
	Hafiz Ahmed Nisar	Basic Science
	Syed Waseem Abbas	Social Science
	Ahsan Ayaz	Basic Science
	Zeeshan Ahmed	Social Science
	Azam Javid	Social Science
	Wahab Amjad	Social Sciences
No of Participants (Students):	16	
Position:	Loose Semi-Final Match	
I) ATHLETICS (WOMEN) CHAMPIONSHIP 2013-14 ZONE C		
Organized By:	University of Peshawar under the supervision of HEC	
Date of Conduct:	04-02-2014	
Venue:	University of Peshawar	
Participating Teams:	UOG Athletes (Women)	
Participating Student Players:	Student's Name	Department
	Sonia Khalid	Political Science
	Qundeel Anayat	Govt College (W) Kharian
	Samreen Arif	Physical Education
No of Participants (Students):	03	
J) Departmental Sports Day		
	Sports Department, UOG facilitates the various departments to Conduct Departmental Sports Day from 01-07-2013 to 30-06-2014. Details are as below: <ul style="list-style-type: none">• Department of Management Sciences on 10-12-2014• Institute of Hotel & Restaurant Management on 04-12-2014• Department of Chemistry on 27-11-2014	

	<ul style="list-style-type: none">Department of Chemical Engineering from 28-04-2014 to 05-05-2014Department of Commerce on 09-04-2014	
K) Punjab Youth Festival 2014		
Organized By:	Government of Punjab, Pakistan	
Date of Event:	09 th to 16 th February 2014	
Venue:	15 Games were hosted by University of Gujrat 14 Games were hosted by Gift University	
Participants:	University of Gujrat, Gujrat Gift University, Gujranwala	
	Men	Women
No of Participants from UOG	124	77
UOG Winner (No of Participants)	90	49
No of Games & Events:	19	10
UOG Winner (No of Games)	14	06
Games & Events:	<ol style="list-style-type: none">Arm WrestlingAthleticsBadmintonBilliardBody BuildingBasketballChessCricketFootballGymnasticsHockyMat WrestlingKarateKabaddiTable TennisTaekwondoTug of WarVolleyballWeightlifting	<ol style="list-style-type: none">AthleticsBadmintonBasketballCricketHockeyKarateTable TennisTaekwondoTug of WarVolleyball
Award:	Government of Punjab awarded Certificates to all participants of Punjab Youth Festival Divisional Level (Gujranwala Division)	

Chapter-11

University Building Leadership

11.1 Faculty Leadership (Awards and Representation in Govt. Policymaking Committees, Memberships on various Councils etc.)

UOG faculty members actively participate in educational sphere for upgrading/improving the higher education sector in Pakistan. The faculty and staff members are fully involved in several activities despite primarily performing their leadership roles. Some of the significant achievements of UOG faculty during 2013-14 are as below:

- i. Wajid Ali, Assistant Professor, Department of Fine Arts is the member of the National Curriculum Review Committee (NCRC) for Curriculum Revise of Fine Arts.
- ii. Wajid Ali, Assistant Professor, Department of Fine Arts is the member of the BOS Hunza University Mansehra for Board of Studies of Fine Arts.
- iii. Wajid Ali, Assistant Professor, Department of Fine Arts is the member of the BOS NUST for Board of Studies of Fine Arts.
- iv. Muhammad Asif Sharif, Director, School of Arts, Design and Architecture is the member of the BOS Punjab University Art and Design.

11.2 Student Leadership (Co-curricular Activities: University dramas,exhibitions, expos, competitions, debates at National and International levels)

Since its inception from 2006, UOG promotes a tradition of Co-Curricular activities for building students' aptitude for leadership. The purpose of organizing these activities is to extend students interpersonal qualities for future leadership. Currently, forty (40) societies are functional at departmental levels in the UOG respectively. During the year 2013-14, these societies established new ideals of co-curricular activities by forming numerous events and contributing in different competitions.

In addition to already registered 45 student societies at UOG, the new leadership envisioned to form technical societies so that our students may get connected with the international forums like IEEE, AICHIE, SHRAM, PIE, OSFP, and many more. Details of some competitions/events during 2013-14 are as under:

Chapter-12

Finance

Introduction: Office of the Treasurer

Office of the Treasurer is primarily entrusted to manage property, finances and the investments of the university and its funds. UOG fund is comprised of all moneys received in form of fees, donations, trusts, bequests, endowments, contributions, grants and other sources. Role of the office of Treasurer as Secretariat of Finance & Planning Committee (An Authority under University of Gujrat ACT 2004) includes Financial Planning, advising, executing and reporting of Fund based accounting i.e., preparing annual and revised budget estimates of University.

The other proprietary role of the office of the Treasurer is to ensure that the funds of University are expanded on the purposes for which they are provided. In order to ensure this responsibility, it is authorized to devise a system of internal Audit, its reporting mechanism and enforcement of other effective & efficient checks and balances, internal control measures to avoid/ minimize errors, omissions and inefficiencies.

Moreover, maintaining of prescribed books of accounts/record, presenting it for external audit, preparing annual statement of accounts and reporting it to relevant Authority, is the accountancy function assigned under Section 35 of University of Gujrat Act, 2004 services areas of the office of Treasurer are classified as Fee/Receivable Management, account, budget, disbursement, pay roll management, withholding tax agent for Federal & Provincial exchequer, Asset Management, project based accounting, trust fund management etc.

Being part of University administration, Office of the Treasurer is well motivated to contribute its effective role for achieving University's mission/strategic goals and objectives.

12.1 Annual Statement of Accounts

Annual Statement of Accounts, University Of Gujrat (Rs million)			
Description	2011-12	2012-13	2013-14
A) Receipts			
Grants in Aid (Higher Education Deptt., Government of Punjab)	65.400	68.616	55.804
Grants in Aid (Provincial Government) Health	88.280	-	75.000
Grant in Aid (Federal Government)	152.033	248.817	284.698
Receipts from all own sources	330.795	567.077	632.469
Total Receipts:	636.508	884.510	1,047.971
A) Non Development Expenditure			
Pay & Allowances	399.910	541.630	594.520
Other Charges/operating expenses/contingencies etc	237.330	267.787	347.043
Total Expenditures:	637.240	809.417	941.563

B) Transfer Pension, Endowment etc	-	-	105.000
C) Development Expenditure UOG	-	7.404	36.148
Surplus (Deficit) (A-B-C-D):	0.732	67.689	34.740
University Development Accounts (Govt. Grants) (Rs Million)			
Receipts (Development Grant received from Govt.) Total	60.00	121.00	150.410
Developmental Expenditure Total	56.719	65.018	88.620

12.2 Financial Year at a Glance

The University of Gujrat has received funding from Government of the Punjab for development purposes, whereas Higher Education Commission (HEC) provided funds for development as well as non-development purposes to run the academic affairs smoothly, to maintain quality of education and research culture. The university also generates revenue through its own financial sources in the form of academic, registration & affiliation fees, examination fees (from affiliated colleges), hostel dues and sale of forms. The UOG encourages resource generation with the help of new initiatives and strategies. During the financial year 2013-14, the UOG received Rs 130.804 million from Government of the Punjab and Rs 284.698 million from the Higher Education Commission. These funds were lesser than the UOG's own resources amounting to Rs. 632.469million.

12.3 Development Budget

Government of the Punjab allocated Rs 150.41 million for three projects at the University of Gujrat, i.e., Establishment of University of Gujrat, Establishment of Nawaz Sharif Medical College (UOG) & Uplifting of Aziz Bhatti Shaheed (DHQ) as Teaching Hospital whereas Construction of Multipurpose Hall at UOG is HEC funded. The details of Developmental Budget year wise are given below:

University Developmental Budget (Government)		Rs in million		
Description	2011-12	2012-13	2013-14	
A) Receipts				
RECEIPTS				
1. Establishment of University of Gujrat	-	71.000	60.160	
2. Establishment of NSMC & Uplifting of ABS (DHQ) as Teaching Hospital	60.000	50.000	40.000	
3. Construction of Multipurpose Hall at UOG			50.250	
Total Receipts:	60.00	121.00	150.410	
B) Expenditure				

1. Establishment of University of Gujrat	-	48.046	58.540
2. Establishment of NSMC & Uplifting of ABS (DHQ) as Teaching Hospital	56.719	17.120	29.619
3. Construction of Multipurpose Hall at UOG			0.461
Total Receipts:	56.719	65.166	88.620
Balance Return to Government or CF to Next Year	3.281	55.834	61.790

12.4 Recurring Budget

The University of Gujrat received annual recurring grants from the Higher Education Commission, Islamabad and Higher Education Department, Government of the Punjab as Rs.284.698 million and Rs.130.804 million, respectively. The details are given below:

Source of Annual Recurring Budget (2013-14)	
Source of Finance	Rs (millions)
Higher Education Commission, Islamabad	284.698
Higher Education Department, Government of the Punjab	130.804

12.5 Self-generated Income

The UOG generated income through its own sources i.e. Rs 632.469 million during the reporting year (2013-14). The University Self-generated income was based on academic fees, receipts from registration & affiliation, receipts from examination fee (affiliated colleges, private students etc), hostel dues and sale of forms, bid money and others. The self-generated income is augmented by government grants. Breakup of Self-generated income during 2013-14 is as follows:

Sr.No.	University's Own Sources	Rs (millions)
1.	Academic Fees /Charges etc. (all Programs)	571.548
2.	Receipts from Examination Fees (affiliated colleges, private students etc.)	45.622
3.	Sale of Forms, Bid money and others, etc.	15.299
	Total	632.469

Chapter-13

University Governance

Being a Public Sector University, UOG is having governing structure to run the university in a better way. This governing structure is identical to other Public Sector Universities in Pakistan. All governing bodies, officers and authorities of the university are mentioned in the University of Gujrat Act IX of 2004 under section 8-25. Details of governing authorities and their roles as per the University of Gujrat Act IX of 2004 are below:

- The Syndicate;
- The Academic Council;
- The Board of Faculties;
- The Selection Board;
- The Advanced Studies and Research Board;
- The Finance and Planning Committee;
- The Affiliation Committee;
- The Discipline Committee; and
- Such other Authorities as may be prescribed by Statutes and Regulations.

13.1 Syndicate Meetings

According to UOG ACT 2004 (amended), the Syndicate shall be the executive body of the University and subject to the provisions of this Act and Statutes 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.

Detail of the meetings of the Syndicate held during 2013-14 is as follows:

1) 17th Syndicate meeting was held on 02-03-2013

Proceedings: (04) Agenda items and 01 table agenda item were discussed in this meeting. Details are as under:

Agenda No. 1: Confirmation of Proceedings of 16th Meeting of the Syndicate

Decision: Syndicate members reviewed the proceedings at length and confirmed.

Agenda No. 2: Recommendations of the Finance & Planning Committee, UOG

Decision:

(i) Syndicate approved the Works Rules and the proposal for establishment of Directorate of Works with the post BS-20 and agreed to record dissenting note of representative of FD, GOP.

(ii) Syndicate approved the revision of development budget of UOG for FY 2012-13.

Agenda No. 3: Recommendation of Selection Board and Creation of New Posts (BS-17 & above)

Decision: The House approved the recommendation of selection Board and the action taken by the Vice Chancellor regarding the appointment of recommended candidates and creation of new posts (BS-17 and above) by the Selection Board under Section 14(3) of UOG Act IX of 2004.

Agenda No. 04: Permission to advertise for recruitment of Academic & Administrative Staff for Contractual Appointment on the UOG website instead of two national newspapers.

Decision: It was decided by the august House that due to the restriction of the Election Commission of Pakistan on new recruitment, it would be wise to keep pending the new recruitment for the time being until the ban imposed on recruitment is withdrawn by the election commission, so as to avoid any legal complications. However, the Syndicate allowed UOG to advertise for recruitment of Academic & Administrative Staff only for Contractual Appointment on the UOG website instead of two national newspapers.

Table Agenda No.01: Remuneration to Full Time University Employees on account of Additional Teaching load During Working Hours.

Discussion & Decision: The members of the Syndicate eventually decided that if there is a similar precedent in other Public Sector Universities, then UOG may pay remuneration to full time university teachers on account of extra teaching load assigned to them during working hours according to already approved rates for different teaching cadres.

2) 18th Syndicate Meeting was held on 04-05-2013

Proceedings: (02) Agenda items were discussed in this meeting. Details are as under:

Agenda No 01 : Confirmation of Proceedings of 17th Meeting of the Syndicate

Decision: The sixteen-member house, after extended and exhaustive deliberations, confirmed the proceedings of 17th Meeting of the Syndicate by majority. It was also decided that, in future, minutes shall be issued within one week after the Syndicate meeting and members shall communicate their comments (if any) within two weeks. Otherwise, minutes shall be deemed confirmed / approved.

Agenda No 02: Issues related to Selection Board held on 1st & 2nd Feb, 2013

Decision: The members discussed the proceedings of Selection Board extensively and were of the view that as the Syndicate has already taken necessary action in its last meeting; therefore, no action is required at this point of time. It was also unanimously decided that no deliberations could be made at this stage, as the matter is sub-judice.

3) 19th Syndicate meeting was held on 03-10-2013

Proceedings : (9) Agenda items and 4 table agenda items were discussed in this meeting. Details are as under:

Agenda No. 01: Confirmation of Proceedings of 18th Meeting of the Syndicate

Decision: The Syndicate unanimously confirmed the minutes of 18th meeting of the Syndicate.

Agenda No. 2: Recommendations of the Finance and Planning Committee, UOG

Agenda No. 2.1: Revised Budget (2012-13), Statement of Accounts (2013-14) and Budget Estimate (2013-14)

Decision: The House unanimously approved the revised budget (2012-13) and budget estimates (2013-14). The house also recommended Dr. Ejaz Bashir as Chairman of the Fund Raising Committee (from Expatriate Pakistanis/Gujratis) and authorized Vice Chancellor, UOG to nominate additional members of the said committee.

Agenda No. 2.2: Revised Rates of Health Professional Allowance

Decision: The House unanimously approved the increase of Rs. 1200/- in Health Professional Allowance for the Doctors of NSMC, UOG, as per notification No. SO/ (ND) 2-26/2012 dated 03-01-2013.

Agenda No. 2.3: Recommendations of the Finance and Planning Committee, UOG

Decision: The House unanimously approved that the fee for expatriates/foreign student at NSMC, shall remain USD 8000 and increased charged amount will be refunded to the students.

Agenda No. 2.4: Revision of Daily Wage Rates for the Administrative/Support Staff of UOG

Decision: The House unanimously approved the daily wage rates as notified by UOG vide No. UOG/AdR/39805 dated 22nd July 2013 and recommended to advertise these posts on regular/long term contract basis within a period of six months.

Agenda No. 2.5: Revision of Rate of Visiting Faculty in various Faculties of UOG

Decision: The House unanimously approved the revised rates for the visiting faculty, included the category of Lecturer @ Rs. 1000/hour and extended these rates to all departments of the university.

Agenda No. 2.6: Directorship/Chairmanship/Headship/Coordinator-Ship Allowance

Decision: The House unanimously approved the allowance for the Deans / Directors of faculties @ Rs. 10000/- per month and Chairperson or HODs / Statutory Heads of the Departments / Coordinators of the Academic Department @ Rs. 8000/- per month.

Agenda No. 2.7: Payment to Technical Review Panel

Decision: The House unanimously approved the payment of 500 US dollars for evaluation (by the foreign TRP members) of each applicant to be hired under TTS system

Agenda No. 3: Recommendations of the Selection Boards, UOG

Decision: The House unanimously endorsed the recommendations of all three Selection Boards. Recommendations for the Department of Civil Works and for NSMC were approved for further process while the administrative posts were decided to be re-advertised as recommended by the relevant Selection Board.

Agenda No. 4: Approval of the Recommendations/Minutes of 2nd Meeting of Academic Council of UOG

Decision: The House discussed and endorsed the recommendations of the Academic Council given in its 2nd meeting held on 28th September 2013.

Agenda No. 5: Approval of the Actions Taken by the Vice Chancellor under Section 14 (3) of UOG ACT IX OF 2004

Decision: The august house approved the actions taken by the Vice Chancellor, UOG under Section 14(3) of UOG Act IX of 2004.

Agenda No. 6: Permission to Incorporate Posts of Newly established Offices in the Service Statutes, UOG

Decision: The Syndicate accorded approval to define criteria for recruitment of the staff ancillary to these offices/departments and for submission of the same to the Government for its inclusion in the UOG Service Statutes, 2011.

Agenda No. 7: Grant of Leave of UOG Faculty Members

Decision: a. The Syndicate recommended that the Vice Chancellor should initiate inquiry under the

disciplinary rules against Mr. Mudassar Maraj for his misconduct and unauthorized absence.

b. The house decided that request of Mr. Naeem Abbas for the grant of study leave does not fall under the category of said study leave rules as he has not got admission abroad. Further, his application is incomplete and ambiguous and he may complete his case with appropriate approved documentation and resubmit it for reconsideration of the Syndicate.

Agenda No. 8: Delegation of Power to the Vice Chancellor

Decision: The Syndicate, after discussing the pros and cons, delegated the power of initiation of inquiries against the employees of the UOG under PEEDA rules to the Vice Chancellor and further instructed to bring the actions to the Syndicate in the very next meeting.

Agenda No. 9 : Appointment of the Members of Board of Studies of Various Departments

Decision: The honorable House endorsed the members of Board of Studies, appointed by the Vice Chancellor.

Agenda No. 10: Approval of the Nominations for Various Statutory Bodies of UOG

Decision: The respected House unanimously endorsed the proposed nominations for Affiliation and Discipline Committees.

Agenda No. 11: Revisiting the Decision of Cessation of Advance Increments

Decision: A committee comprising Directors of academic faculties, Registrar, Treasurer and the Legal Advisor/Officer shall examine the relevant cases and furnish recommendations for presenting before the Syndicate's next meeting for perusal and decision.

Agenda No. 12: Approval of Mobile Phone Credit to UOG Authorities

Decision: The house unanimously approved the residential cum mobile phone ceiling at Rs.3000/- for Registrar, Treasurer, Controller of Examinations, Deans and Academic & Admin Directors.

Agenda No. 13: Rationalization of Examination Fee

Decision: The august house endorsed the enhanced examination fee as presented by the Controller of Examinations, UOG

Table Agenda No. 1: Case of MS. BAD-E-SABA for the award of Degree

Decision: The House approved the "Pass" status and the issuance of the degree to the candidate

Table Agenda No. 2: Special Allowance for Assistant Professor (BS-19) NSMC, UOG

Decision: The Syndicate approved a sum of Rs. 40,000 per month as Special Allowance for the Assistant Professor of NSMC, UOG w.e.f. FY 2013-14.

Table Agenda No. 3: Approval of Full Tuition Fee Waiver to 1st and 2nd Position Holders in each Semester

Decision: The Syndicate requested the chair to withdraw the item as it is a prerogative of the University to facilitate and appreciate the students on Merit.

Table Agenda No. 4 : Departmental Charges/Dues, UOG

Decision: The Syndicate appreciated the proposal and approved it unanimously.

Table Agenda No. 5: Establishment of Institute of Behavioral Sciences

Decision: The Syndicate accorded the approval of establishment of institute of Behavioral Sciences in the Faculty of Social Sciences at the University of Gujrat.

Table Agenda No. 6: Payment For Extra Teaching

Decision: The House appreciated the proposal and approved the payment to the teachers for their extra teaching workload as per the rates fixed for visiting faculty. The extra workload shall be considered, irrespective of time frame, over and above the workload already specified by the UOG.

Table Agenda No. 7 : Up-Gradation of Post of the Director, QEC

Decision: The august house directed to frame statutes for its recommendation and approval of the Chancellor. Further, it was decided that the instant case may be placed before the selection Board for its recommendations after approval of the statutes.

4) 20th Syndicate meeting was held on 24-01-2014

Proceedings : (06) Agenda items and (6) Table agenda items were discussed in this meeting. Details are as under:

Agenda No.1: Confirmation of Proceeding of 19th Meeting of the Syndicate

Decision: The Syndicate approved the proceedings of 19th Meeting of the Syndicate.

Agenda No.2: Approval of the Actions Taken by Vice Chancellor under Section 14 (3) of UOG `ACT IX OF 2004

Decision: The Honorable House is requested to please endorse the actions taken by the Chairman Syndicate in the best interest of the University.

Agenda No.3: Recommendation of the Selection Board for Appointment Of Academic Staff during its meetings held

Decision: The August House endorsed the recommendations of the selection Board after detailed deliberations.

Agenda No.4: Appointment of a Director in Directorate of Press, Media and Publications on Current Charge Basis

Decision: The House agreed that Sheikh Abdul Rasheed, Additional Registrar may work as Director in the Directorate of Media Publications, UOG as a stopgap arrangement but the officer concerned shall only be entitled to an additional charge allowance along with his pay as Additional Registrar.

Agenda No.5: Appointment of Assistant Professors in Department of Mass Communication & Media and Department of Chemistry on Acting Charge Basis

Decision: The Syndicate agreed that the officers may work as Assistant Professors in their respective departments as stopgap arrangement, but they will not be entitled to draw additional charge allowance along with their pay as lecturer.

Agenda No.6: Approval for Affiliation and Renewal of Affiliation of Various Colleges

Decision: The August House discussed and approved the recommendations of the Affiliation Committee, UOG for new affiliations Subject to the condition that a brief portfolio regarding private sector's affiliated colleges shall be presented before the August House in its subsequent meeting. The House also approved the recommendations of the Affiliation Committee, UOG for the renewal of affiliation of Colleges with the University. The House advised the University not to grant affiliation to the colleges in anticipation of approval by the Syndicate.

Table Agenda No.1: Revision of Remuneration Rates of Senior/ Junior Speakers, Experts, Educationists, Member Of Statuary Bodies

Decision: The Syndicate unanimously approved the aforementioned proposal.

Table Agenda No.2: Approval for Grant of Anesthesia Allowance to Doctors of NSMC,UOG

Decision: The House approved the Anesthesia Allowance to Medical Doctors as per health department, Government of the Punjab Notification mentioned above.

Table Agenda No.3: Approval for Re-Imbursement of Expenditure Incurred On Medical Treatment Of Daily Wage Staff, Previously Working on Contract Basis

Decision: The Proposal was discussed at length and the House Unanimously regretted the proposal of re-

imbursement of Medical charges to those daily wage employees, who were previously working on contract basis at the University.

Table Agenda No.4: Approval for Transfer of Disaster Relief Fund into Students Advancement Fund Endowment (SAFE)

Decision: Detailed discussion was made by the House regarding the transfer of disaster relief fund into students advancement fund endowment (safe) and the same was regretted by the House with the suggestion that the disaster relief fund can be invested and its interest can be utilized for the purpose of financial aid to the needy students.

Table Agenda No.5: Illegal Absence Of Ms.Rizwana Yousaf D/O Muhammad Yousaf, Lecturer In Sociology,UOG

Decision: The House unanimously agreed that inquiry proceedings as per rules may be initiated against the concerned lecturer.

Table Agenda No.6: Approval of TTS Statutes of the UOG

Decision: The Syndicate constituted a committee comprising the Registrar, Director A&C, Chairman BISE GRW and Treasurer for the formulation of the said statutes. The Committee shall present the draft in the subsequent meeting of the Syndicate for consideration and approval.

5) 21st Syndicate Meeting was held on 25-04-2014

Proceedings: Tend (10) Agenda items and One (01) table agenda items were discussed in this meeting. Details are as under:

Agenda No. 1: Progress Report by Vice Chancellor

Agenda No. 2: Confirmation of Proceedings of 20th Meeting of the Syndicate

Decision: Proceedings and Minutes of 20th Meeting of the Syndicate held on 24th January 2014 were presented before the Syndicate and confirmed accordingly.

Agenda No. 03: Approval of the Actions Taken By the Vice Chancellor Under Section 14(3) of UOG ACT IX OF 2004

Decision: The House unanimously endorsed the actions taken by the Chairman Syndicate in the best interest of the University.

Agenda No. 4: Preservation of 5% Minorities Quota in University Employment

Decision: The House approved the Proposal for adoption of the same notification accordingly.

Agenda No. 5: Approval Of Alumni Privileges/Services

Decision: The House Unanimously endorsed the recommendations made by the University Management on the subject. However, accommodation facility at UOG Guest House was restricted up to maximum 02 days per month on 30% discount and the house has not endorsed kinship quota for admission of alumni children at UOG.

Agenda No. 6: Approval for Adoption of Government of the Punjab, S&GAD, (Regulation Wing) Notification No.SOR-iii (S&GAD)2-10-2006 dated 20-08-2007

Decision: The House unanimously approved the adoption of Government of the Punjab's Notification and policy mentioned above. The Additional Secretary, Finance Department, Government of the Punjab further suggested that Financial Assistance Package announced by the Punjab Government, Finance Department for the families of the Government employees, who died during service, vide their letter No. FD.SR.1/13-10/2004 dated 10th November 2004, should also be adopted. Earlier death cases shall be considered as special cases and dealt accordingly. Earlier death cases shall also be reported in the next Syndicate meeting.

The House agreed and indorsed the proposal.

Agenda No. 07: Grant of Project Allowance to the Principal/Project Director of Nawaz Sharif Medical College.

Decision: The House decided that the case may be recommended and referred to the Chancellor being competent authority for final approval.

Agenda No. 08: Approval of the Remuneration Rates for Administrative Experts/Trainers.

Decision: The Syndicate approved the remuneration rates for Administrative and Financial matters experts/trainers as proposed above.

Agenda No. 09: Full Fee Refund to Students enrolled in Fall-2013

Decision: The House approved the full fee refund to concerned students as on time measure in relaxation to fee refund rules.

Agenda No. 10: Attestation of Degrees for Grant of MPhil/MS Ph.D. Allowance

Decision: The Syndicate unanimously endorsed the proposal and decided that in-service employees shall have to produce their degrees/transcripts attested by the HEC along with their application for MPhil/Ph.D. allowance. It was further advised by the house that now onwards at the time of new hiring HEC attested degrees shall be demanded from selected candidate within 60 (sixty) days from the date of their joining.

Agenda No. 11: Recommendations of the Selection Board for the Appointment of Academic Staff

Decision: The House endorsed the recommendation of the Selection BOARD, MEETING ON 13TH TO 14TH February 2014 and 17th to 18th April, 2014 as mentioned above.

Table Agenda No. 1: Request of Mr. Muhammad Bakhat Nawaz, Ms. Attiya Zulfiqar, both Assistant Registrar and Ms. Nashaba Kousar, Assistant Controller of Examinations for affording an opportunity for representation regarding filling of administrative posts in BPS-18 through direct recruitment against the rules/method given in UOG Service Statutes

Decision: After thorough deliberations, the house concluded that for compliance to the order passed by the High Court Lahore, a speaking order may be submitted to the Additional Registrar, Lahore High Court. However, the Syndicate members taking a sympathetic view recommended university management to examine their cases and the university may call meeting of the Selection Board as early as possible, to promote the petitioners on acting charge bases as per rules until their promotion matures.

13.2 Academic Council Meetings

The Academic Council shall be the academic body of the UOG as per provisions of the University Act IX 2004 to regulate the proper standards of academic work, issue instructions for teachers, researchers, publishing of research work (publications), conduct of examinations, affiliated colleges and other academic affairs of the university. UOG Academic Council liable to advise the Syndicate on academic matters for the smooth function of the university academia affairs. The 2nd Meeting of Academic Council was held on 28th September 2013 at UOG. Following agenda items were discussed and approved by the house:

1. Establishment of New Departments and Introduction of various programs, diplomas and certificates.
2. Revised Nomenclatures of Departments and Programs
3. Reconstitution of Faculties
4. Approval of Syllabi and Scheme of Studies

5. Approval of External Examiners for MS/MPhil and PhD Thesis recommended by respective Boards of Studies
6. Approval /Endorsement of Various Rules, Regulations and Policies:
 - i. Rules for MS/MPhil Program
 - ii. Thesis/Dissertation Format
 - iii. Associate Degree Guidelines by HEC
 - iv. Admission Policy 2012-13 and 2013-14
 - v. Short Courses Rules
 - vi. Amendments in the Semester System Rules and Regulations
7. Approval of the Establishment of Centers at UOG
 - i. Office of Research, Innovation and Commercialization (ORIC)
 - ii. Centre for Research in Emerging and Applied Technologies (CREAT)
8. Endorsement of HEC Guidelines for Private-Public Partnership for opening UOG Campuses in other Cities
9. Approval for full tuition fee Waiver to 1st and 2nd Position Holders in Each Semester
10. Approval of Equivalence for Thesis and CR hours in terms of Teachers' Workload
11. Revisiting the Decision regarding Continuing Education from Associate Degree to BS (4 years Program)
12. Information Regarding the award of Scholarships for the year 2011-12 and 2012-13.

Office of Resource Generation / Development

14.1 Initiatives and Implementation

In UOG, the management offices, i.e., the Vice Chancellor, the Registrar, Director (Academics), Director (Planning & Development), Director (Quality Enhancement Cell), Director (Students Services Center), Director (IT Services), Director (A&C), Director (Works), Director (Financial Aid Office) and Director (ORIC) are playing vital role for forming human resource development in consultation of Academic Deans. The Office of the Vice Chancellor and the Registrar Office are the key offices to take up important decisions to run the university affairs in a better way and maintain conducive working environment. All these offices provide all kind of support to academic Dean Offices for executing their academic work on day-to-day basis and reshaping the academic policies according to modern era requirements. These offices are responsible for defining academic and research rules & procedures, recruitment of faculty & staff, students' academic affairs and are liable to guide and implement future initiatives. During 2013-14, UOG took-up following initiatives and also ensured implementation:

- i. Introduced/started **New Academic programs** at undergraduate and post-graduate level according to local industry requirements.
- ii. Appointed large number **teaching staff** at various levels for removing staff deficiency and strengthening academic area.
- iii. Established **New Academic and Administrative Offices** for carrying out academic work smoothly according to HEC guidelines.
- iv. Granted **Affiliation to a number of Colleges** for improving higher education in these colleges.
- v. **Strengthened Students Alumni and extended the Student Societies** for promoting co-curricular activities for healthy learning.
- vi. Initiated process for acquiring **386 Kanal 14 Marla's land** adjacent to UOG amounting to Rs 88.594 million for Master Planning of future academic facilities.
- vii. Initiated process for acquiring **136 Kanal 18 Marla's land** in front of UOG Gate No.1 amounting to Rs 239.412 million for the provision of sports facilities to students.
- viii. The project "**Strengthening & Expansion of University of Gujrat and Its Allied Campuses**" for Rs.2988.147 Million was submitted for seeking approval from Competent Forum.
- ix. The project "**Construction of Academic Block for NSMC, UOG**" amounting to Rs 698.583 Million was submitted during 2013-14 to Health Department, Government of the Punjab for approval.

- x. The work/scheme “**Construction of Additional portion of Central Library, UOG**” was initiated during the reporting year as per request of the Library Department to facilitate the disable persons as well as study and research sections. Rs 22.00 million were allocated for this work/scheme through university’s own sources.
- xi. The work/scheme “**Construction of Mini Market No.02 First Floor of IHRM, UOG**” was initiated during the reporting year as per request of the Institute of Hotel and Restaurant Management to provide classrooms for academic work. Rs 14.33 million were allocated for this work/scheme through university’s own sources.

14.2 Future Plans

UOG is growing rapidly due to increasing number of students’ enrollment, infrastructural development and newly launched degree programs in various disciplines. Following initiatives for future planning are as under:

- a) To undertake planning for the expansion of academic infrastructure, 2 to 3 new Campuses in different cities, i.e., Narowal, Rawalpindi, Bhakkar, Muree etc for improving the higher education sector.
- b) To prioritize the projects of research and faculty development.
- c) To construct faculty residencies and hostels for students.
- d) To start the UOG-Vice Chancellor’s Young Researcher Scholarship Program to articulate and publicize the Vice Chancellor’s vision for the promotion of Higher Education in Pakistan.
- e) To plan to install the one Mega Watt Solar Power Plant for domestic energy needs and resource generation through commercial activity.
- f) To prepare strategic plan for UOG with the aim to exigency of the University academia and infrastructural developments. This plan contains the strategies for human resource development and the areas of research and development.
- g) To organize capacity building programs/trainings for faculty and staff to improve their skills.
- h) To construct additional academic facilities, i.e., Labs and rooms.
- i) To procure buses and vehicles for students and employees staff for extending transportation circle.
- j) To extend institutional, foreign and industry linkages for extending research and academic cooperation with innovativeness.
- k) To have TV Studio under the Linkage Program (University of Gujrat-Gaylord College of Journalism & Mass Communication Funded by US State Department.
- l) To strengthen Hafiz Hayat Campus and four (04) City Campuses academic infrastructure to streamline the academic activities.

Chapter-15

Health Centre/Medical Facilities

15.1 Medical Facilities available at NSMC College

University of Gujrat (UOG) achieved another milestone by establishing the Nawaz Sharif Medical College (NSMC), because medical education, though in high demand, was not available in the industrial triangle prior to its establishment. Realizing inadequate facilities of medical education and quality health services in the industrial triangle, Government of the Punjab took a historic step to revolutionize the health care facilities in Gujrat by establishing the NSMC at UOG in September 2008. The approved project cost is Rs.1974.246 Million. The construction work of one (01) student hostel, twenty (20) faculty houses and Female Faculty Hostel are under progress and will complete in the next financial year. On same lines, another project titled “Construction of Academic Block of Nawaz Sharif Medical College, UOG Gujrat” was submitted to Health Department, Government of the Punjab amounting to Rs 698.583 Million for seeking approval.

The classes of MBBS started on 13.04.2009 in one dedicated block of university. During 2013-14, ninety seven (97) students were enrolled in NSMC. Four hundred and thirty one (431) students are studying in MBBS program and 105 faculty members are working in various disciplines of NSMC, UOG. Further, the construction work of Faculty Apartments, two (02) student hostels and two (02) additional blocks at teaching hospital will also be executed in the end of next financial year. NSMC, UOG is playing significant role to improve the standards of medical education at national level and ensure the provision of health facilities in remote areas, falling within two categories i-e Outdoor cases and Emergency cases. Following departments are operational in NSMC:

A) Basic Medical Sciences Departments	B) Clinical Sciences Departments
1. Anatomy	1. Medicine
2. Physiology	2. Surgery
3. Pathology& Microbiology	3. Obstetrics-Gynecology
4. Community Medicine	4. Orthopedics
5. Behavioral Sciences	5. Urology
6. Forensic Medicine	6. Radiology
7. Pharmacology	7. Ophthalmology
	8. Physiotherapy & Rehabilitation Medicine
	9. Pediatrics
	10. Dermatology
	11. Anesthesia
	12. Pathology
	13. ENT
	14. Dental
	15. Chest Diseases
	16. OT

Key Facilities of NSMC, UOG

A) Heath Care Centre

A Health Care Centre was established at the premises of Nawaz Sharif Medical College, University of Gujrat in 2009. The primary aim of establishing this facility was to provide primary care/treatment to the students, faculty and staff of University of Gujrat. Health Care Centre contains Reception, Medical Inspection Room, Diagnostic Lab and Detention/Treatment Room. Medical officer examines the patients in Medical Inspection Room and advises treatment accordingly. Diagnostic Lab has the facility to carry out routine investigations helpful in diagnosis. Detention/Treatment room is used to detain and treat the patients as per advice of the Medical officer. The Health Care Centre also provides medicines to the patients accordingly. Patients who need consultation/ treatment from concerned specialists are transferred through University Ambulance to ABS Teaching Hospital where they get treatment or even admission if required. In the last academic year, health care center added a laboratory and ambulance to facilitate the staff and students.

B) Advance Research & Diagnostic Lab at Medical Block UOG

An advanced Research & Diagnostic laboratory was fully equipped with latest automated analyzers for Diagnostic and Research purposes including Molecular Medicine and Drug Research. This laboratory envisages for providing highly advanced and rare diagnostic laboratory tests including molecular diagnostic tests. Advance Research & Diagnostic Lab is providing both general and specialized testing along with integrated academic, scientific and technical research assays. The aim and purpose of this laboratory is to assist researchers of medical field at UOG by providing them high quality diagnostic laboratory testing services. Eight (08) labs are operational, i.e., Biochemistry Laboratory, Advance Resarch & Diagnostic Laboratory, Pathology Laboratory, Physiology Laboratory, Histology Laboratory, Pharmacology Laboratory, Forensic Laboratory and Gross Anatomy Laboratory.