

# **Annual Report 2014-15**

## **University of Gujrat**

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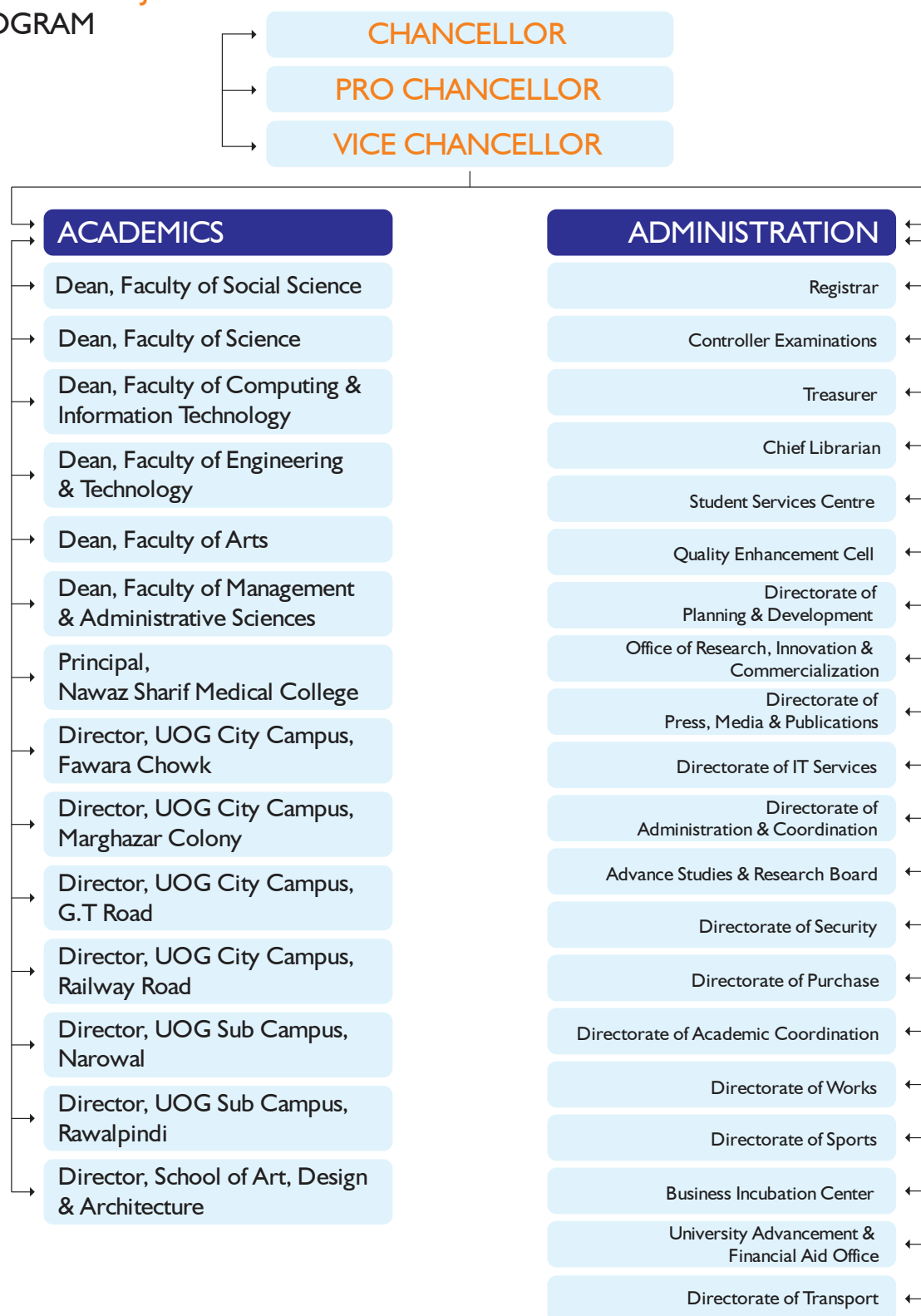
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# UNIVERSITY OF GUJRAT ORGANOGRAM



## Vice Chancellor Message



The revolution in different fields of knowledge which transformed the society in recent years also provided us with an opportunity to forge ahead on a new path with a greater responsibility – to instill in our students a critical judgement and ethical sensitivity, apart from the basic role of awarding them academic qualifications.

The first year at the helm of the University of Gujrat (UoG) has so far been very satisfying for me. A few critical steps in the right direction and everything fell into place, without letting the circumstances take a different trajectory. The University of Gujrat – which is now considered an emblem of higher education, and rightly so – had 114 research papers published by its faculty members in HEC recognized journals during the reporting year. The significant rise in the number of research publications was thanks largely to our renewed focus on promotion of research culture. To ensure quality of education, more than one hundred faculty members were recruited at various levels, which also helped smooth functioning of academic work. The number of colleges affiliated with the UoG in different subjects rose to 93.

A mega construction project worth Rs99 million was initiated during this period. The project titled 'Extension of P Block at UoG' was part of the requirements of Architecture Department and its accreditation with PCATP. The reporting period also saw the completion of construction of the Multipurpose Hall. A proposal for the establishment of the Business Incubation Centre (BIC) was also finalized recently. Two UoG sub-campuses were established in Narowal and Rawalpindi as designated colleges of Government of the Punjab.

A major development project titled 'Expansion of University of Gujrat and its allied campuses' was approved by Central Development Working Party (CDWP). The project worth billions of rupees included establishment of new UoG sub-campuses as well as construction of more facilities at Hafiz Hayat Campus.

The UoG is playing a pivotal role with regard to a brighter economic and social future of Pakistan. The basic mission of the varsity being the development of research oriented educational setup for achieving knowledge-based economy to boost socio-economic development of the country, the activities for the purpose are managed by the Office of Research, Innovation & Commercialization (ORIC).

We believe that research in the right direction can help us achieve our sustainable development goals. For this, our researchers need to focus on finding indigenous solutions to the problems facing the local industry. The University of Gujrat has strengthened its ties with the Chambers of Commerce and Industry in the region by signing various MoUs and arranging reciprocal visits so that the local industry could benefit from the ongoing research activities in different UoG departments.

The UoG contribution towards community development has been phenomenal too. Without making them feel the weight of their obligations too heavier, we engage our students in a host of social services projects as part of their character development and volunteerism training. The role of faculty is very important to inspire and prepare students in their academic endeavours. A teacher should also play the role of a mentor. Apart from knowledge, they should also inculcate patriotism in the minds of the students.

We believe that higher education should be promoted for social, economic, technical and cultural growth of the country. Good ideas are not enough – focusing on implementation is as important as policy making. Students are pride of the nation and all the stakeholders should fully realize their responsibilities in this regard.

Prof. Dr Zia Ul-Qayyum  
Vice Chancellor  
University of Gujrat





# 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 2014-15 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 2014-15.

**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 2014-15.

**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 students' basic enrolment 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 2014-15.

**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 2014-15 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 expenditure 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 also promoting medical education in Central Punjab.



## About the University

University of Gujrat (UOG) is a quite young and one of the fast growing public sector leading higher education institutes, which entails wide-ranging innovative research and teaching community. It is also dedicated to the transformative supremacy of edification for fostering greater understanding at national as well as international level to boost innovative research culture.

UOG was established by Government of the Punjab through promulgation of University of Gujrat Act IX of 2004. Accordingly, Government of the Punjab provided funds for the development of physical infrastructure in line of modern era requirements. The key purpose of establishing the university in Gujrat was to improve the educational needs of Central Punjab covering 300 km long region between Rawalpindi and Lahore. UOG also facilitates the people of Sialkot, Gujranwala, Hafiazabad, Jehlum and Mandibhuldin for getting higher education in a convenient way. Since its inception, UOG expanded the circle of higher education and research activities through: i) 01 main campus at Hafiz Hayat including 04 city campuses in Gujrat including one constituent Medical College, ii) 02 Government of the Punjab designated Sub-Campuses at Narowal and Rawalpindi and iii) 02 Sub-Campuses under Public-Private arrangement at Sialkot and Lahore. In addition, ninety three (93) colleges have been affiliated to UOG. The purpose of this affiliation is to strengthen quality teaching and academic standards and produce congenial academic environment for the youth of the region.

## Vision

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 improve the existing setup for further enhancing the literacy rate. Reiterating its commitment as a ‘World Class University’, UOG endeavors to teach the young people with modern era tools and techniques to compete globally for easy access to quality education. It believes in an equitable social policy and national veracity.

## Mission

UOG has equipped mission in line of its vision to educate the young people in diverse areas of economy, social & scientific policy, science & technology and innovative research for enabling them to compete globally. It also encourages remote area youth for education, particularly females. Its mission is to grow up young people according to global trends of education and research thereby contributing more and more for our country. The mission of UOG is to emphasize and improve higher learning set-ups and to educate the youth of Pakistan with the aim to rise-up literacy rate in order to compete at global level.

## Students

Thirty six hundred and fifty five (3655) students were enrolled in various degree programs during the academic year 2014-15 at Hafiz Hayat Campus, UOG including Four (04) City Campuses and a Medical College. Overall, 9708 student are studying at Hafiz Hayat Campus, 8792 students at Four (04) City Campuses and 431 students in Medical College. This increase refers to the 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's vision and mission. Over 100 Faculty members were recruited during 2014-15 to remove the deficiency in academic departments and streamline the academic work. The total strength of faculty members is 628. This growth is significantly witnessed during the academic year 2014-15.

## National and International Linkages

UOG constitutes two (02) Government designated Sub-campuses, two (02) Sub-Campuses under Public-Private Partnership, four (04) City Campuses, one (01) Medical College and has ninety three (93) affiliated colleges. Along with its own campuses and affiliated colleges, UOG endeavors to establish linkages with national and international academic institutes and industry. The key objective of establishing these linkages is to reinforce academic relations, scholarships and job opportunities for the students.

## Research

UOG's most distinguishing feature is its emphasis on research. University faculty members published more than 114 research papers in various national and international renowned journals in reporting year.

UOG performs certain principle functions, which are as under:

- Providing basic facilities for higher learning and innovative research according to modern era standards.
- Reassurance of the spreading, improvement, expansion and solicitation of knowledge in a scientific way.
- Delivery of study courses/curricula with wide range of arenas and also carrying out research to meet the needs of indigenous population as well as local market requirement.
- Partaking in public discourse
- Awarding and Conferring of degrees at different levels including BS, MA/MSc MPhil/MS, PhD and also award certificates and diplomas under various arrangements.
- Providing teaching for quality of education with forward-thinking knowledge and enquiry.
- Ensuring University-Industry Linkage for extending innovative research in those areas, which need to be explored.

## Chapter-1

# Academic Activities

In 2014-15, UOG increased its area of academic activities with the inclusion of two (02) Government designated Sub-Campuses at Narowal and Rawalpindi. All academic activities, i.e. academic programs at various levels are being carried out according to Academic Calendar of the university as approved by the Academic Council. UOG offered more than 100 market based academic programs during 2014-15 at BS, MA/MSc, MPhil/MS and PhD level.

## 1.1 Undergraduate and Postgraduate Programs

UOG offered wide range of undergraduate programs, i.e. one (01) Diploma/Certificate, six (06) Associate Degree, forty (40) BSc/BS (Hons.) / LLB (Hons) / B.Arch. in various disciplines and twenty (20) Masters Programs in different disciplines. Details of programs are as follows:

<b>A) Diploma/Certificates</b>	
1) Professional Diploma in Clinical Psychology	
<b>B) Associate Degree</b>	
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
<b>C) BSc/BS (Hons.) / LLB(Hons)/ B.Com(Hons) / B.Arch. (4-5 years programs)</b>	
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 Engineering	30) BS in Chemistry
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)
<b>D) Masters Programs</b>	
1) Masters in Mass Communication	11) Master of Arts in English
2) Master of Arts in Islamic Studies	12) Master of Science in Physical Education and Sports Sciences
3) Master of Science in Computer Science	13) Master of Science in Information Technology
4) Master of Science in Botany	14) Master of Science in Chemistry
5) Master of Science in Mathematics	15) Master of Science in Physics
6) Master of Science in Statistics	16) Master of Science in Zoology
7) Master of Commerce	17) Master of Business Administration (1.5

	Years)
8) Master of Science in Economics	18) Master of Arts in Education
9) Master of Arts in History	19) Master of Arts in International Relations
10) Master of Science in Psychology	20) Master of Arts in Sociology

## 1.2 MPhil/MS and PhD Programs

UOG offered 30 MPhil/MS programs and 11 PhD programs in various market-based disciplines. Details of these programs are as under:

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



14) Master of Philosophy in Political Science	29) Master of Philosophy in International Relations
15) Master of Philosophy in Psychology	30) Master of Philosophy in Sociology
<b>B) PhD Programs</b>	
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

UOG accomplished numerous academic achievements during 2014-15 according to its vision and mission for moving towards “New Horizons”. Details of academic achievements are as under:

- 1) New Undergraduate, Graduate and Postgraduate programs were introduced in various disciplines.
- 2) Department of History and Pakistan Studies completed its three (03) Research Degrees during the reporting year.
- 3) Students of Department of Education in Associate Degree, BS (Hons) and MA Education completed their degrees.
- 4) Above three hundred (300) students of BS Zoology completed their degrees.
- 5) Muhammad Kamran, Research Officer, Center for Languages and Translation Studies (CeLT) got DAAD partially funded scholarship for the one-month course of ‘Advanced Language Engineering’ in Sri Lanka.
- 6) The thesis/research work of students of BS Textile Design was displayed.
- 7) 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
- 8) 114 research publications of faculty members were published.
- 9) National Seerat Conference was organized by Department of Islamic Studies, UOG.
- 10) Inter Universities Competition in naat o qirat was organized by Department of Islamic Studies, UOG.



- 11) Seven (07) research papers of Engr. Naeem Abbas Kalair, Assistant Professor, Head of Electrical Engineering Department were published in HEC recognized Journals.
- 12) More than one hundred 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 education and promotion of research culture.
- 13) 93 colleges were affiliated with university in different subjects for improving the higher education standards at college level.
- 14) 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.
- 15) The two (02) major development projects/schemes, i.e. Establishment of UOG, and Construction of Multipurpose hall at UOG were completed.
- 16) A proposal for the establishment of Business Incubation Centre (BIC) at UOG was finalized during the last days of 2014-15.
- 17) During 2014-15, two (02) UOG Sub-Campuses were established in Narowal and Rawalpindi as designated colleges of Government of the Punjab.
- 18) A major development project titled “Strengthening and Expansion of University of Gujrat and its Allied Campuses” was approved by Central Development Working Party (CDWP) amounting to Rs.2988.147 Million for establishing new Sub-Campus at Narowal and also completing the missing facilities of Hafiz Hayat Campus, UOG.

### 3. Foreign Academic Linkages

In this global world, UOG considers that the collaboration and networking with prestigious international higher education institutes would collectively deal with the academic and research areas according to changing patterns of international trends. Accordingly, UOG has 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 approach to focus on growing worldwide consciousness of students and faculty for the solidification of research and knowledge exchange. It also nurtures global cooperation and harmony at various levels of education. During 2014-15, the department of Mass Communication established foreign academic linkages with University of Oklahoma, USA for improving educational standards and research activities.

### 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) Muhammad Kamran, Research Officer, Center for Languages and Translation Studies (CeLT) got DAAD partially funded scholarship for the one-month course of ‘Advanced Language Engineering’ in Sri Lanka.

- 2) Mr. Waqar Mehmood Dar, student of Department of Statistics won final trophy in sports, i.e., Badminton at Mirpur University of Science & Technology.
- 3) Mr. Tahir Hafeez Tarar, student of Department of Computer Sciences won 1st Position in BAIT BAZI competition at University of Veterinary and Animal Sciences, Lahore. He also won Consolation prize in BAIT BAZI competition during 3<sup>rd</sup> Layal pur Festival at Agricultural University Faisalabad.
- 4) The students of Department of Software Engineering won 1<sup>st</sup> & 2nd Positions in Speed Programming at University AJK, Muzafabad.

## 5. Institutional Linkages

UOG has strong linkages with local public and private sector universities, institutions and other organizations to collectively improve higher education sector and flourish research culture at national level. In this regard, UOG has signed numerous Memorandums of Understanding (MoUs) in different years since its inception.

With institutional collaboration at national level, UOG's academic departments have successfully attained benefits by executing as well as launching joint research projects, educational programs, curriculum development, labs and equipment upgradation, job placement of UOG graduates, organizing joint workshops, seminars and conferences etc. During 2014-15, the Department of Environmental Sciences established its institutional linkages with GC University Faisalabad, Agriculture University Faisalabad and Nuclear Institute for Agriculture and Biotechnology.

## Chapter-2

# Research and Development

## 2.1 R&D: An Overview

Since its inception from 2006 to onward, UOG is dynamically improving the quality of education and also contributing in generating market oriented research work with close liaison of local industry. University faculty members and students are assiduous to promote research and development arrangements through their dedication. In a short span of time, UOG has achieved a prestigious status in the list of other Pakistani universities due to its robust commitment for improving the educational standards and also promoting scientific research culture. This research culture covers to explore all fields including Basic Sciences, Social Sciences, Arts, Computer & Information technology, Architecture, Textile & Fine Arts, Business Administration and Engineering. UOG is fully dedicated to innovation of learning and encompassing frontlines of knowledge in a scientific way.

Research and development activities of UOG are managed by Office of Research, Innovation & Commercialization (ORIC). ORIC provides facilitation to all the research centers as well as faculties of the university. The basic mission of UOG is to develop research oriented educational set-ups for encouraging knowledge base economy appropriate for boosting socio-economic development in the country. For this purpose, UOG established ORIC in 2011 with the vision to promote research culture on the one hand and also promote academia-industry linkages for the broader benefit of the local community. ORIC performs following functions:

- Encourages research culture by extending research activities and trends.
- Arranges research oriented workshops, conferences, trainings for faculty and students.
- Builds University-Industry Linkages
- Encourages Inter/cross Disciplinary Research
- Approaches Higher Education Commission for arranging research grants for faculty

Particularly, ORIC was established 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. UOG has also established

following offices/departments to carry out Research and Development activities and provide helping hands to researchers as well as students:

- 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 the last academic year 2014-15, 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.

### 2.1.1 Newly Launched/Ongoing:

SN	Title of Research Proposal	Amount Approved (Rs.)	Date of Approval	Sponsoring Agency
1	Coal Slurry CS as an Alternative fuel with Enhanced Combustion Efficiency and Utilization of Low Rank Pakistani Coal	11,164,812	16 October 2014	HEC
2	Regional Potential of Biodiesel Production from Slaughtering Waste	241,500	20 March 2015	HEC
3	Hyper-production of Commercial Cellulases from indigenously isolated and screening of local agro industrial wastes	3,786,182	07 May 2015	HEC

## 2.2 Publications

UOG faculty members have enthusiastically involved in disseminating their research efforts in well-known national and international research journals during 2014 and 2015. A total of 67 and 85

research papers / articles were published in ISI indexed research journals during the year 2014 and 2015 respectively. Detail is as under:

### HEC Verified ISI Indexed Publications 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; Murtaza, S	Palladium catalyzed Heck-Mizoroki and Suzuki-Miyaura coupling reactions (Review)	RUSS J COORD CHEM+
9	Iqbal, MS; Ghafoor, A; Ullah, I; Ahmad, H	Quantification and Compositional Diversity of Fatty Acid Methyl Esters Profile in Nigella sativa 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 <sub>2</sub> O <sub>4</sub> 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 <sup>3+</sup> , Fe <sup>2+</sup> ) and Basic (Ca <sup>2+</sup> , Mg <sup>2+</sup> ) 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 (BUBALUS BUBALIS) 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 Acinetobacter junii 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; Ghufuran, 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;	High frequency dielectric response and magnetic studies of Zn <sub>1-x</sub> Tb <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> nanocrystalline ferrites synthesized via micro-emulsion technique	J MAGN MAGN MATER



	Sher, M; Warsi, 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, MN; Shakir, I; Warsi, MF	New nanoparticulate Gd <sub>1-x</sub> Zr <sub>x</sub> Fe <sub>1-y</sub> Mn <sub>y</sub> O <sub>3</sub> multiferroics: Synthesis, characterization and evaluation of electrical, dielectric and magnetic parameters	J ALLOY COMPD
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 JalalpurJattan, 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 globulusLabill	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 <i>Ganoderma lucidum</i> USING AGRO-INDUSTRIAL RESIDUES	FRESEN ENVIRON BULL
51	Iqbal, Z; Yousaf, S	Hilbert series of the braid monoid $M B-4$ in band generators	TURK J MATH
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; Ghor, 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; Mehmmod, 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

### Publications 2015

During 2015, faculty published 85 research papers in ISI Indexed Journals. The detail of ISI Indexed Publications as verified by the HEC is given below:

Sr #	Authors	Title	Name of Journal
1	Irfan, M; Ahmad, I; Samra, SA; Saeed, A	Study on the synthesis and characterization of 3,3'-bicarbazole and pyridine based luminescent copolymers	MATER LETT
2	Danish, M; Akbar, S; Tahir, MN; Butt, RA; Ashfaq, M	Crystal structure of 4-[(2,4-dihydroxybenzylidene) amino] methyl} cyclohexanecarboxylic acid	ACTA CRYSTALLOGR E
3	Rehman, SU; Majid, A; Hassan, N; Shakoor, A; Murtaza, G; Khan, SD	A DFT study of the effects of Sc doping on electronic and optical properties of CdS nanoparticles	MATER SCI-POLAND

4	Nazar, MF; Abid, M; Danish, M; Ashfaq, M; Khan, AM; Zafar, MN; Mehmood, S; Asif, A	Impact of L-leucine on controlled release of ciprofloxacin through micellar catalyzed channels in aqueous medium	J MOL LIQ
5	Ahmad, S; Naeem, M	CLASSES OF SIMPLICIAL COMPLEXES WHICH ADMIT NONTRIVIAL COHEN-MACAULAY MODIFICATIONS	STUD SCI MATH HUNG
6	Akhter, S; Ansari, MS; Rakha, BA; Aziz, T; Andrabi, SMH; Ullah, N; Anwar, M; Qayyum, M	Effect of Milk Based Extenders on Motility and Acrosomal Integrity of Buffalo Bull ( <i>Bubalus bubalis</i> ) Spermatozoa at 5 degrees C	PAK J ZOOL
7	Hussain, SM; Shahzad, MM; Afzal, M; Javid, A; Mubarik, MS; Shah, SZH; Hussain, M; Ahmad, S; Arsalan, MZU; Manzoor, R; Riaz, D	Efficacy of Phytase Enzyme for Increasing Mineral Digestibility of <i>Cirrhinus mrigala</i> Fingerlings Fed on Soybean Meal-Based Diet	PAK J ZOOL
8	Adrees, M; Ali, S; Iqbal, M; Bharwana, SA; Siddiqi, Z; Farid, M; Ali, Q; Saeed, R; Rizwan, M	Mannitol alleviates chromium toxicity in wheat plants in relation to growth, yield, stimulation of anti-oxidative enzymes, oxidative stress and Cr uptake in sand and soil media	ECOTOX ENVIRON SAFE
9	Nazar, MF; Mukhtar, F; Ashfaq, M; Rahman, HMA; Zafar, MN; Sumrra, SH	Physicochemical investigation of antibacterial Moxifloxacin interacting with quaternary ammonium disinfectants	FLUID PHASE EQUILIBR
10	Ali, W; Kausar, A; Iqbal, T	Reinforcement of high performance polystyrene/polyamide/polythiophene with multi-walled carbon nanotube obtained through various routes	COMPOS INTERFACE
11	Jabeen, N; Mushtaq, M; Danish, M; Tahir, MN; Raza, MA	Crystal structure of 2-benzenesulfonamido-3-hydroxypropanoic acid	ACTA CRYSTALLOGR E

12	Nazar, MF; Murtaza, S; Khan, AM; Shah, SS; Asghar, N; Mahmood, A	Spectral-luminescent properties of pH-sensitive azo fluorophore in complexes with quaternary ammonium disinfectants	COLLOID POLYM SCI
13	Ahmad, A; Gu, XG; Li, L; Lu, SG; Xu, YS; Guo, XH	Effects of pH and Anions on the Generation of Reactive Oxygen Species (ROS) in nZVI-rGo-Activated Persulfate System	WATER AIR SOIL POLL
14	Ur Rehman, MS; Rashid, N; Ashfaq, M; Saif, A; Ahmad, N; Han, JI	Global risk of pharmaceutical contamination from highly populated developing countries	CHEMOSPHERE
15	Iqbal, T	Propagation length of surface plasmon polaritons excited by a 1D plasmonic grating	CURR APPL PHYS
16	Toor, Y; Nawaz, K; Hussain, K	ANTIBACTERIAL ACTIVITY OF FUMARIA INDICA (HAUSSKN.) PUGSLEY AGAINST SELECTED BACTERIAL STRAINS	PAK J BOT
17	Rizwan, M; Ali, S; Ibrahim, M; Farid, M; Adrees, M; Bharwana, SA; Zia-ur-Rehman, M; Qayyum, MF; Abbas, F	Mechanisms of silicon-mediated alleviation of drought and salt stress in plants: a review	ENVIRON SCI POLLUT R
18	Mirza, FM; Bergland, O	Market Power in the Norwegian Electricity Market: Are the Transmission Bottlenecks Truly Exogenous?	ENERG J
19	Ahmad, I; Murtaza, S; Ahmed, S	Electrochemical and photovoltaic study of sunset yellow and tartrazine dyes	MONATSH CHEM
20	Zaheer, IE; Ali, S; Rizwan, M; Farid, M; Shakoor, MB; Gill, RA; Najeeb, U; Iqbal, N; Ahmad, R	Citric acid assisted phytoremediation of copper by Brassica napus L.	ECOTOX ENVIRON SAFE
21	Mushtaq, A; Mehmood, S; Rehman, MAU; Younas, A; Rehman, MSU; Malik, MF; Hyder, MZ	Polio in Pakistan: Social constraints and travel implications	TRAVEL MED INFECT DI

22	John, P; Azeem, W; Ashfaq, M; Khan, IU; Razzaq, SN	Stability indicating RP-HPLC method for simultaneous determination of piroxicam and ofloxacin in binary combination	PAK J PHARM SCI
23	Majid, A; Arshad, H; Murtaza, S	Synthesis and characterization of Cr doped CdSe nanoparticles	SUPERLATTICE MICROST
24	Mirza, IM; Ali, K; Sarfraz, AK; Ali, A; ulHaq, A	A study of dielectric, optical and magnetic characteristics of maghemitenanocrystallites	MATER CHEM PHYS
25	Muhammad, N; Akbar, A; Shah, A; Abbas, G; Hussain, M; Khan, TA	ISOLATION OPTIMIZATION AND CHARACTERIZATION OF ANTIMICROBIAL PEPTIDE PRODUCING BACTERIA FROM SOIL	J ANIM PLANT SCI
26	Fiza, Y; Rakha, BA; Akhter, S; Ansari, MS	Breeding Biology of Scaly-Bellied Woodpecker, Picussquamatus, in Margalla Hills National Park, Pakistan	PAK J ZOOL
27	Nabi, A; Majid, A	First-principles study of the electronic and the magnetic properties of Cr-doped wurtzite cadmium sulfide ( $\text{Cd}_{1-x}\text{Cr}(x)\text{S}$ , $x=12.5\%$ and $6.25\%$ )	J KOREAN PHYS SOC
28	Kousar, T; Ahmad, I; Khan, MA; Nasar, G; Shahid, M; Shakir, I; Warsi, MF	Structural, electrical, dielectric and magnetic behavior of $\text{Gd}_{1-x}\text{Bi}_x\text{Fe}_{1-y}\text{Zr}_y\text{O}_3$ nanoparticles for advanced technological applications	CERAM INT
29	Vempati, S; Iqbal, T; Afsheen, S	Non-universal behavior of leaky surface waves in a one dimensional asymmetric plasmonic grating	J APPL PHYS
30	Imran, M; Arshad, M; Khalid, A; Hussain, S; Mumtaz, MW; Crowley, DE	Decolorization of Reactive Black-5 by Shewanellasp in the Presence of Metal Ions and Salts	WATER ENVIRON RES
31	Dar, A; Majid, A	DFT study of cerium doped aluminum nitride	EUR PHYS J-APPL PHYS
32	Ahmad, I; Mukhtar, A	Stochastic approach for the solution of multi-pantograph differential equation arising in cell-growth model	APPL MATH COMPUT
33	Mirza, FM; Najam, N; Mehdi, M; Ahmad, B	DETERMINANTS OF TECHNICAL EFFICIENCY OF WHEAT FARMS IN PAKISTAN	PAK J AGR SCI

34	Shakoor, A; Hussain, F; Hassan, N; Majid, A; Bhatti, MT; Siddique, H	A density functional theory study of Raman modes of cadmium hexathiohypodiphosphate (CdPS <sub>3</sub> )	MATER SCI-POLAND
35	Hussain, SM; Afzal, M; Javid, A; Hussain, AI; Ali, Q; Mustafa, I; Chatha, SAS; Shah, SZH; Hussain, M; Ullah, MI	Efficacy of Phytase Supplementation on Growth Performance and Mineral Digestibility of Labeorohita Fingerlings Fed on Cottonseed Meal Based Diet	PAK J ZOOL
36	Qadeer, S; Khan, MA; Ansari, MS; Rakha, BA; Ejaz, R; Iqbal, R; Younis, M; Ullah, N; DeVries, AL; Akhter, S	Efficiency of antifreeze glycoproteins for cryopreservation of Nili-Ravi (Bubalus bubalis) buffalo bull sperm	ANIM REPROD SCI
37	Mahmood, A; Khan, SUD; Rana, UA; Janjua, MRSA; Tahir, MH; Nazar, MF; Song, YZ	Effect of thiophene rings on UV/visible spectra and non-linear optical (NLO) properties of triphenylamine based dyes: a quantum chemical perspective	J PHYS ORG CHEM
38	Rakha, BA; Ansari, MS; Hussain, I; Malik, MF; Akhter, S; Blesbois, E	Semen characteristics of the Indian Red Jungle Fowl (Gallus gallus murghi)	EUR J WILDLIFE RES
39	Danish, M; Tahir, MN; Iftikhar, S; Ahmad, N	Crystal structure of catena-poly[bis[μ(3)- 2-(2-nitrophenyl)acetato-kappa O-3:O:O']- disilver(I)]	ACTA CRYSTALLOGR E
40	Danish, M; Tahir, MN; Jabeen, N; Raza, MA	Crystal structure of (2S)-3-methyl-2- [(naphthalen-1-ylsulfonyl)amino]-butanoic acid	ACTA CRYSTALLOGR E
41	Rehman, A; Gulfranz, M; Raja, GK; UlHaq, MI; Anwar, Z	A Comprehensive Approach to Utilize an Agricultural Pea peel (Pisumsativum) Waste as a Potential Source for Bio-ethanol Production	ROM BIOTECH LETT
42	Ahmed, W; Nazar, MF; Ali, SD; Rana, UA; Khan, SUD	Detailed investigation of optimized alkali catalyzed transesterification of Jatropha oil for biodiesel production	J ENERGY CHEM



43	Khalid, NR; Ahmed, E; Rasheed, A; Ahmad, M; Ramzan, M; Shakoor, A; Elahi, A; Abbas, SM; Hussain, R; Niaz, NA	CO-DOPING EFFECT OF CARBON AND YTTRIUM ON PHOTOCATALYTIC ACTIVITY OF TiO <sub>2</sub> NANOPARTICLES FOR METHYL ORANGE DEGRADATION	J OVONIC RES
44	Shahwar, D; Ullah, S; Khan, MA; Ahmad, N; Saeed, A; Ullah, S	Anticancer activity of Cinnamon tamala leaf constituents towards human ovarian cancer cells	PAK J PHARM SCI
45	Amin, N; Afzal, M; Yousaf, M; ArshadJavid, M	Choice of the pulse sequence and parameters for improved signal-to-noise ratio in T1-weighted study of MRI	J PAK MED ASSOC
46	Tabraiz, S; Ahmad, S; Shehzadi, I; Asif, MB	Study of physio-psychological effects on traffic wardens due to traffic noise pollution; exposure-effect relation	J ENVIRON HEALTH SCI
47	Nazar, MF; Abdullah, MI; Badshah, A; Mahmood, A; Rana, UA; Khan, SUD	Synthesis, structure-activity relationship and molecular docking of cyclohexenone based analogous as potent non-nucleoside reverse- transcriptase inhibitors	J MOL STRUCT
48	Danish, M; Tahir, MN; Anwar, U; Raza, MA	Crystal structure of ethyl N-(1,5-dimethyl-3- oxo-2-phenyl-2,3-dihydro-1H-pyrazol-4- yl)carbamate	ACTA CRYSTALLOGR E
49	Saleem, A; Anwar, S; Hussain, T; Ahmad, R; Mustafa, G; Ashfaq, M	Simultaneous Determination of Acetaminophen, Pamabrom and Pyrilamine Maleate in Pharmaceutical Formulations Using Stability Indicating HPLC Assay Method	J MEX CHEM SOC
50	Mushtaq, MT; Khan, I; Khan, MS; Koudelka, O	Signal Detection for QPSK Based Cognitive Radio Systems using Support Vector Machines	RADIOENGINEERING
51	Mumtaz, MW; Adnan, A; Mukhtar, H; Danish, M; Raza, MA	Determination of toxic metals in water of Lahore canal by atomic absorption spectroscopy	J WATER CHEM TECHNO+



52	Hussain, M; Hung, NT; Abbas, N; Khera, RA; Malik, I; Patonay, T; Kelzhanova, N; Abilov, ZA; Villinger, A; Langer, P	Synthesis of ArylatedBenzofurans by Regioselective Suzuki-Miyaura Cross-Coupling Reactions of 2,3-Dibromobenzofurans- and 2,3,5-Tribromobenzofurans	J HETEROCYCLIC CHEM
53	Imran, M; Crowley, DE; Khalid, A; Hussain, S; Mumtaz, MW; Arshad, M	Microbial biotechnology for decolorization of textile wastewaters	REV ENVIRON SCI BIO
54	Danish, M; Tahir, MN; Iftikhar, S; Raza, MA; Ashfaq, M	Crystal structure of catena-poly[[trimethyltin(IV)]-mu-2-(2-nitrophenyl)-acetato-kappa O-2:O ']	ACTA CRYSTALLOGR E
55	Danish, M; Tahir, MN; Iftikhar, S; Raza, MA; Ashfaq, M	Tetraaquabis[2-(2-nitrophenyl)acetato-kappa O]cobalt(II)	ACTA CRYSTALLOGR E
56	Danish, M; Tahir, MN; Hussain, A; Ashfaq, M; Sadiq, MN	Crystal structure of 4- {[ (naphthalen-2-yl)sulfonylamino]methyl} cyclohexanecarboxylic acid	ACTA CRYSTALLOGR E
57	Abbas, G; Zhang, M; Li, W; Zhang, JQ; Zheng, P	Performance stability of a lab-scale internal-loop airlift bio-particle reactor under substrate concentration shocks for simultaneous partial nitrification and anaerobic ammonia oxidation	SEP PURIF TECHNOL
58	Raza, MA; Mukhtar, F; Danish, M	Cuscutareflexa and CarthamusOxyacantha: potent sources of alternative and complimentary drug	SPRINGERPLUS
59	Chattha, SA; Hussain, SM; Javid, A; Abbas, MN; Mahmood, S; Barq, MG; Hussain, M	Seasonal Diet Composition of Leopard (Pantherapardus) in Machiara National Park, Azad Jammu and Kashmir, Pakistan	PAK J ZOOL
60	Zhao, ZQ; Tian, BH; Zhang, X; Ghulam, A; Zheng, TC; Shen, DS	Aerobic degradation study of three fluoroanilines and microbial community analysis: the effects of increased fluorine substitution	BIODEGRADATION

61	Shahwar, D; Ahmad, N; Yasmeen, A; Khan, MA; Ullah, S; Rahman, AU	Bioactive constituents from <i>Croton sparsiflorus</i> Morong	NAT PROD RES
62	Tariq, J; Murtaza, S; Tahir, MN; Zaheer, M	Crystal structure of N,N'-(1,2- phenylene)bis(2-chloroacetamide)	ACTA CRYSTALLOGR E
63	Khan, I; Ibrar, A; Ahmed, W; Saeed, A	Synthetic approaches, functionalization and therapeutic potential of quinazoline and quinazolinone skeletons: The advances continue	EUR J MED CHEM
64	Majid, A; Dar, A; Zhu, JJ	Cerium induced ferromagnetic exchange interactions in GaN	J MAGN MAGN MATER
65	Shah, A; Rahim, S; Bhatti, KH; Khan, A; Din, N; Imran, M; Mohsin, M; Ishtiaq, M; Nabila, A; Ansari, A; Hussain, S; Zafar, M; Mushtaq, M; Mumtaz, E; Iqbal, J	Ethnobotanical study and conservation status of trees in the district Sargodha, Punjab, Pakistan	PHYTON-INT J EXP BOT
66	Hussain, SM; Afzal, M; Nasir, S; Jabeen, F; Javid, A; Asrar, M; Azmat, H; Hussain, M; Shah, SZH; Arsalan, MZU	Effect of phytase supplementation on growth performance and mineral digestibility in Labeorohita (Hamilton, 1822) fingerlings fed on sunflower meal based diet	INDIAN J FISH
67	Akhtar, S; Kakei, Y; Bashir, K; Shahzad, A; Yamakawa, T; Arshad, M; Fayyaz-Ul-Hassan; Nakanishi, H; Nishizawa, NK	Characterizing the expression of genes involved in iron transport in Pakistani peanut varieties under iron deficiency stress	TURK J BOT
68	Ahmad, J; Mushtaq, M; Sajjad, N	EXACT SOLUTION OF WHITHAM- BROER-KAUP SHALLOW WATER WAVE EQUATIONS	J SCI ARTS
69	Ahmad, J; Bajwa, S; Siddique, I	SOLVING THE KLEIN-GORDON EQUATIONS VIA DIFFERENTIAL TRANSFORM METHOD	J SCI ARTS

70	Majid, A; Javed, M; Rana, UA; Khan, SUD	Ti-Ga-V-N complexes in GaN: a new prospect of carrier mediated ferromagnetism	RSC ADV
71	Iqbal, Z	Hilbert series of the finite dimensional generalized Hecke algebras	TURK J MATH
72	Danish, M; Raza, MA; Sharif, A; Ilyas, T; Anjum, N	Evaluation of the Therapeutic Potential of Cefradine Metal Complexes	LAT AM J PHARM
73	Sumrra, SH; Hanif, M; Chohan, ZH	Design, synthesis and in vitro bactericidal/fungicidal screening of some vanadyl(IV)complexes with mono- and di-substituted ONS donor triazoles	J ENZYM INHIB MED CH
74	Majid, A	Experimental and computational analysis of transition metal ion-doped AlInN/GaN thin films	RSC ADV
75	Azam, I; Afsheen, S; Zia, A; Javed, M; Saeed, R; Sarwar, MK; Munir, B	Evaluating Insects as Bioindicators of Heavy Metal Contamination and Accumulation near Industrial Area of Gujrat, Pakistan	BIOMED RES INT
76	John, P; Azeem, W; Ashfaq, M; Khan, IU; Razzaq, SN; Khan, SUD	STABILITY-INDICATING RP-HPLC METHOD FOR SIMULTANEOUS DETERMINATION OF METHOXSALEN AND p-AMINO BENZOIC ACID IN BINARY COMBINATION	B CHEM SOC ETHIOPIA
77	Rakha, BA; Hussain, I; Asma-ul-Husna; Malik, MF; Akhter, S; Ansari, MS	Impact of ejaculate frequencies on the quality of Red Jungle Fowl (Gallus gallusmurghi) semen	AVIAN BIOL RES
78	Choudhary, SJ; Mehmood, S; Naz, H; Jaafar, HZE; Zia-Ul-Haq, M	Effect of Sulfuric Acid on Pretreatment of YSS-10R Variety of Sorghum and Analysis of Its Interaction with Temperature and Time	BIORESOURCES
79	Hussain, SM; Afzal, M; Javid, A; Aslam, N; Hussain, M; Shah, SZH; Azmat, H; Mubarik, MS	Role of phytase supplementation in improving nutrient digestibility in Labeorohita (Hamilton, 1822) fingerlings fed on cottonseed meal based diet	INDIAN J FISH
80	Raza, MA; Shahwar, D; Khan, T	Radical Scavenging, Proteases Activities, and Phenolics Composition of Bark Extracts from 21 Medicinal Plants	J CHEM-NY

81	Zafar, MN; Aslam, I; Nadeem, R; Munir, S; Rana, UA; Khan, SUD	Characterization of chemically modified biosorbents from rice bran for biosorption of Ni(II)	J TAIWAN INST CHEM E
82	Abbas, G; Wang, L; Li, W; Zhang, M; Zheng, P	Kinetics of nitrogen removal in pilot-scale internal-loop airlift bio-particle reactor for simultaneous partial nitrification and anaerobic ammonia oxidation	ECOL ENG
83	Abbas, G; Wang, L; Zhang, HT; Zheng, P; Li, W; Zhang, M; Zeb, BS; Zhang, JQ	Evaluation of hydraulic characteristics of a pilot-scale air-lift internal-loop bioreactor	J ENVIRON SCI HEAL A
84	Akbar, M; Javaid, A	Management of Rumexdentatus (Toothed Dock) by Fungal Metabolites under Field Conditions	INT J AGRIC BIOL
85	Nazar, MF; Murtaza, S; Ijaz, B; Asfaq, M; Mohsin, MA	Photophysical Investigations of Carmoisine Interacting with Conventional Cationic Surfactants Under Different pH Conditions	J DISPER SCI TECHNOL

## 2.3 National Conferences, Seminars and Workshops during 2014-15

SN	Title of Conferences, Seminar Training Workshops	Date of Event
1	Research Sensitivity – Laws and Regulations	23 September 2014
2	National Symposium on “Innovation, Entrepreneurship and Research Commercialization	20 November 2014
3	Workshop on Peace, Advocacy & Social Entrepreneurship	06-07 December 2014
4	HACKTRIX 2014	26-28 September 2014
5	Peace, Advocacy and Social Entrepreneurship	06-07 December 2014
6	Intel Entrepreneurship Basic Course	21-22 October 2014
7	30th Annual General Meeting and Conference of Pakistan Society of Development Economics (PSDE)	02-04 December 2014
8	Role of Biotechnology for Economic Growth of Pakistan, at University of Gujrat	16 October 2014
9	3rd Entrepreneurship Conference LCL’14, at Jinnah Convention Centre, Islamabad	15 November 2014

10	Role of Biotechnology for Economic Growth of Pakistan, at University of Gujrat	16 October 2014
11	Entrepreneurship Basic Course	21-22 October 2014
12	3rd Entrepreneurship Conference LCL'14, Jinnah Convention Centre, Islamabad	15 November 2014
13	Role of Biotechnology for Economic Growth of Pakistan, at University of Gujrat	16 October 2014
14	3rd Entrepreneurship Conference LCL'14, Jinnah Convention Centre, Islamabad	15 November 2014
15	Advance Management Visit Program, Australia, Thailand	28 Nov to 12 Dec 2014
16	16-day Workshop for Faculty to Teach the Module of “Entrepreneurship and Leadership”	10 March 2015
17	Seminar on “Open Source Ecosystem for Pakistan	11 March 2015
18	Three Five-Day HEC IOT Training	28-29 March, 3-5 April 2015 11-12 April, 17-19 April 2015 05-09 June 2015
19	Disaster Management Drill	22 May 2015
20	One Day Workshop on Open Source Technologies	03 June 2015
21	Symposium on “Chemistry: A need of Hour”	04 June 2015
22	Five Day HEC IOT Training for HODs/Support Staff	05-09 June 2015
23	5G Emerging Technologies for Disaster Management – British Council Researchers Link	14-17 January 2015

### 2.3.1 International Conferences, Seminars and Workshops 2014-15

SN	Title of Conferences, Seminar Training Workshops	Date of Event
1	Enhanced Combustion of Rice Husk for Pollution Abatement and Regional Potential of Silica Production from Rice Husk Ash (RHA)	19-21 November 2014
2	Determination of Paracetamol, Diclofenac, Naproxen, Amlodipine & Rosuvastatin in Hospital waste by Liquid-liquid extraction and Validated HPLC-UV method.	03-06 December 2014
3	Human Development in the Era of Globalization: An Asian Perspective	05-08 January 2015
4	“A Versatile Bioanode with Improved Current Density and the Coulombic Efficiency through a Cascade Reaction”.	10-13 May 2015
5	A DCPSO for Dynamic Environment to locate and track Multiple Optima (DCPSO)	15-17 June 2015
6	An Efficient Indoor Navigation Technique to find optimal route for blinds using QR Codes.	15-17 June 2015
7	Study of Hybrid Approaches used for University Course Timetable Problem (UCTP)	15-17 June 2015

### 2.3.2 National Seminars and Conferences Attended by UOG Faculty

SN	Title of Conferences, Seminar Training Workshops	Date of Event
1	Workshop on Education Planning and Evaluation	10-13 February 2015
2	Pediatric Trauma Workshop	27 February 2015
3	Faculty Research and Training Program	05 March 2015
4	American Academy of Orthopedic Surgeons Annual Meeting	24-28 March 2015
5	31st International Congress, 6th APAGE/JSGE Single Topic on IBD	2-5 April 2015
6	Workshop on Updates on Neuropathies and Treatment Options	10 April 2015
7	19th Annual International Conference of Pakistan Society of Rheumatology	11-12 April 2015
8	Three-Day British Council Workshop on Citizenship Education and Community Engagement Program, Islamabad	01-03 June 2015
9	HEC/British Council's one-day event titled Research Partners Event in HEC, Islamabad	27 January 2015
10	Mobilink Discover NUST Business Plan Competition, Islamabad	16 March 2015
11	British Council Experience Sharing Workshop	4-5 May 2015
12	Pakistan Youth Change Advocacy Advocates' Learning and Advocacy Forum	08 June 2015

## 2.4 Research Journals:

- 1- Sociology

## 2.5 Research Collaborations

UOG developed academic as well as research collaboration with other renowned institutes/universities, industries and organizations at national and international level for extending research activities jointly for collective purpose, i.e., education and market oriented.

### 2.5.1 Indigenous

SR	Signed with	Purpose	Date
1	Virtual University	Joint degree/research/ faculty exchange	29 September 2014
2	Virtual University	Joint degree/research	13 November 2014
3	COMSATS Institute of	Technology Collaboration	24 February

	Information Technology		2015
4	Pakistan Institute of Entrepreneurship (PIE)	Entrepreneurship	24 February 2015
5	Open Source Foundation Pakistan (OSFP)	Establishing a Formal Mechanism for Collaboration and thereby expressing their interest in cooperating with each other	11 March 2015

### 2.5.2 Foreign Linkages:

SN	Name of Host Department	Collaborating Agency/Institution	Scope of Collaboration	Date of Link Established
1.	University of Gujrat	Institute of Process Engineering, Chinese Academy of Sciences (CAS)	Engineering Collaboration	01 July 2014
2.	University of Gujrat	British Council	Research/Joint training	01 December 2014
3.	UOG ORIC	University of the West of Scotland, UK	Research Cooperation, Student Exchange, Establishment of Disaster Management Centre	08 January 2015

### 2.5.3 Funding Grants for R&D

The university faculty has carried out their research and development projects with the help of national and international donor agencies. The UOG Office of Research, Innovation & Commercialization (ORIC) has approached the donor agencies for arranging funds according to the prescribed lines of Higher Education Commission (HEC). These donor agencies provided funds according to their area of interests in the field of research. The list of funding Agencies is given on next page:

- 1) Higher Education Commission ([www.hec.gov.pk](http://www.hec.gov.pk))
- 2) The Higher Education Department, Govt. of the Punjab
- 3) Pakistan Science Foundation ([www.psf.gov.pk](http://www.psf.gov.pk))
- 4) National ICT R&D Fund (<http://www.ictrdf.org.pk>)
- 5) Pak-US Joint Academic & Research Program (<http://publisher.hec.gov.pk/www.hec.gov.pk/pakus-rd>)
- 6) TWAS-COMSTECH Joint Research Grants (<http://twas.ictp.it/prog/grants/>)
- 7) Human Frontier Science Program ([www.hfsp.org](http://www.hfsp.org))
- 8) International Foundation for Science (<http://www.ifs.se>)
- 9) Research & Advocacy Fund ([www.rafpakistan.org](http://www.rafpakistan.org))



- 10) Talented Researcher Exchange Program (TRXP) ([www.britishcouncil.org/inspire](http://www.britishcouncil.org/inspire))
- 11) Academy of Finland (<http://www.aka.fi/en-gb/A/>)
- 12) Alexander von Humboldt Foundation (<http://www.avh.de/en/index.htm>) Australian Agency for International Development (AusAID) (<http://www.ausaid.gov.au>)
- 13) East WEST center ([www.eastwestcenter.org](http://www.eastwestcenter.org))
- 14) European Research Council (ERC) (<http://erc.europa.eu>)
- 15) EU Funding and Grants ([http://ec.europa.eu/index\\_en.htm](http://ec.europa.eu/index_en.htm))
- 16) International Development Research Center (<http://www.idrc.ca>)
- 17) Japan International Cooperation Agency (JICA) (<http://www.jica.go.jp>) Sigma Xi – The Scientific Research Society (<http://www.sigmaksi.org>)
- 18) The Asia Foundation: ([www.asiafoundation.org](http://www.asiafoundation.org))
- 19) UN Economic and Social Commission for Asia and Pacific ([www.unescap.org](http://www.unescap.org))
- 20) The Islamic Educational, Scientific & Cultural Organization (ISESCO) ([www.isesco.org](http://www.isesco.org))  
USAID Education program.

## 2.5.4 Operations of Office of Research, Innovation & Commercialization

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 the 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, not for profit organizations 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.

## Chapter-3

# Quality Assurance

### 3.1 Impact of Quality Assurance in the University

Quality Assurance and Assessment Process (QAAP) of academic work is a continuous process. The purpose of QAAP is to identify weak areas in academics and also take timely steps for improving those key areas. The impact of this kind of assessment is to help future planning in order to consider several options for accomplishing desirable results. This QAAP is effectively used as a tool to evaluate existing practices of overall academic work through set indicators for knowing the actual strengths and weaknesses of the whole system and to further address key steps for improving the existing conditions by implementing actions.

Higher Education Commission(HEC), Islamabad took a revolutionary step by establishing more than eighty (80) Quality Enhancement Cells (QEC) in public as well as private sector universities under the umbrella of Quality Assurance Setup. This Quality Assurance Agency, HEC through these QECs would actively be ensuring the cause of quality education on the one hand and also continuously helping to implement mandatory educational standards for improving higher learning setups on the other hand. Accordingly, the QEC at UOG is having a dedicated staff with the aim to implement Quality Assurance Mechanisms/Setups in the light of Self-Assessment Manual (SAM) and Quality Assurance Manual (QAM). Now, Impact Assessment is being executed to measure the impact of this activity not only for teaching purposes but also to ensure the quality of refined work in educational field, specifically research. The QAA and QEC are involved in the following procedures for streamlining the educational setup:

- i. Terms and Conditions regarding programs
- ii. Faculty evaluation and its job descriptions producing the required impact.
- iii. Compliance of faculty hiring and its eligibility criteria under specific arrangements, i.e., BS/TTS and FFH.
- iv. Self-assessment exercise at institutional level.

Quality assurance related functions emphasize progressive and positive impact regarding teaching and research at institutional level. Accordingly, numerous assessment methods have been drawn for faculty evaluation. This evaluation mechanism is purely interacted with policy guidelines and quality framework manuals of HEC.

Following are the impacts of the Quality Enhancement Cell.

- Quality Enhancement Cell ensures commitment, satisfaction and expectations of all stakeholders.
- Improves quality through process control.
- Confirms the accreditation of all member councils and HEC.

- Assures the recruiting criteria of HEC.
- Helps in infrastructure and institutional support for good services.
- Arranges workshops, seminars and awareness sessions for quality recruitment.
- Rectifies the weak areas of the University for Faculty Development.
- Evaluates the data statistically and highlights the grey areas to point out the discrepancies.
- Highlights the strategic needs of the departments in terms of sources, process and people.
- Assists the implementation plans and remedial action plans.
- Networks with other association to share the best practices.
- Conducts evaluation of program, faculty and students.

### 3.2 Quality Enhancement Cell

The words “Quality Enhancement” refer to strengthen, enlarge, advance, uplift or rally prevailing system with its practices to enrich faculty of the University for undertaking teaching scope with its real meaning of certification to further ensure quality standards.

The Quality Enhancement Cell (QEC) at UOG was established on 3rd January 2008 in the phase-III of QEC’s Establishment, as per guidelines laid down in Quality Assurance Manual under the umbrella of Quality Assurance Agency (QAA) of Higher Education Commission. The purpose of QEC at UOG was to assimilate the idea of quality education in higher learning with greater levels of globally accepted standards. The foremost emphasis of quality assurance program is constant certified growth of workforce on international standards, self-assessment report and academic inspection including evaluation of academic practices under Quality Assurance (QA) prescribed framework. The central goal of all the activities undertaken by QEC is to emphasize on upgrading of educational standards on the one hand and review the current academic and administrative practices on the other hand. The Vision of QEC at UOG is as under:

*“In coming few years, ensuring the UOG amongst the Pakistan’s top ranking institutions through establishing highly effective and best practices”.*

The function of the QEC is to promote quality culture in Higher Education by ascertaining the implementation of quality standards and continuous enhancement of the quality parameters.

### QEC Activities

Following are some activities, which are being performed by QEC:

- Compilation of Workloads /Time tables / Annual reports
- Mid and Final Exam Monitoring
- Class Monitoring/Maintaining the Lecture Wise record
- Online surveys from UOGIS Database
- Compiling of Faculty Profiles
- Teacher Evaluation Survey/Course Evaluation Survey / Faculty Satisfaction Survey
- SAR

Furthermore, the QEC performs the following activates as well;

**a) Ranking: -**

The QEC is mainly engaged in compiling the data of all the departments for ranking to be sent to HEC for the evaluation purpose of HEC ranking.

**b) HEC Review Panel Visit:**

The Higher Education Commission (HEC) is striving for provision of quality education across the country. To improve the quality education HEC planned to arrange Review Panel Visits of degree awarding institutions (DAIs). For the purpose, the QEC made extreme efforts to collect all the required documents from the concerned departments and complete the arrangements for the above said visit.

**c) Visits of QEC**

QEC randomly visits the departments of constituent and affiliated colleges to ensure the quality and evaluation standards.

QEC at UOG has undertaken the responsibility of quality assurance and enhancement with great commitment and devotion. In order to achieve the set goals of QAA for QECs, Program Assessments and Feedback process have been strengthened and implemented in its true letter and spirit.

### **3.3 Membership of Associations/Networks**

Membership of Associations and Networks with different educational institutes is in progress for the enhancement of the educational standards of the university and for its better goodwill to complete the journey of achieving the standards near to perfection.

Following are the Associations/ Networks we are proceeding with:

- INQAAHE
- PCTN

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

Existing Accreditation Councils/ Professional Bodies are as under:

- 1) National Computing Education Accreditation Council (NCEAC)(Under process)
- 2) Pakistan Engineering Council (PEC)
- 3) National Accreditation Council for Teacher Education (NACTE) (Under process)
- 4) National Business Education Accreditation Council (NBEAC) (Under process)
- 5) Pakistan Council of Architects and Town Planners (PCATP) (Under process)

## Chapter-4

# Faculty Development

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

UOG faculty comprises of men and women who are not only highly skilled scholars, but also aspiring and self-committed individuals who are persistently engaged in their own research. The faculty members come from across the country and also abroad, bringing with them knowledge and diverse range of research techniques. However, UOG is facing challenges regarding shortage of faculty and also issues pertaining to faculty development. Currently, more than 110 faculty members are holding PhD degree in various fields but this is not satisfactory to carry forward the academic and research activities of the university. Accordingly, 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 policy initiative allowed faculty and staff members to proceed admission in MS/MPhil and PhD programs at UOG with following Terms & Conditions:

- 1) The faculty and staff members shall be allowed to improve their higher education.
- 2) 25% of Academic and Administrative employees of the university in their respective departments shall avail this opportunity at a time.
- 3) No Objection Certificate shall be granted to only those employees who have served on regular basis for at least two (02) years at the university.
- 4) During office workload relaxation shall only be granted subject to the registration of his/her courses.
- 5) Admissions shall be granted according to approved admission policy of the university.
- 6) 50% of the total semester fee shall be waived off.

In addition, UOG is also seeking funding from HEC for sending faculty on MS/MPhil/PhD programs abroad under the project “Strengthening and Expansion of University of Gujrat and its Allied Campuses”. This Human Resource Development Plan (HRD) of UOG is envisaged to improve faculty skills, knowledge, utilization of resources and reduction of dependency on external technical support. In future, it will help to produce capable graduates from the university.

### 4.2 Returned Scholars

During 2014-15, four (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
1	Amjad Ali	Lecturer	Information Technology	PhD	South Korea

2	Dr. Muhammad Salman Haider	Assistant Professor	Chemical Engineering	PhD	South Korea
3	Dr. Zaffar Iqbal	Assistant Professor	Mathematics	Post Doc	France
4	Ghulam Mustafa	Assistant Professor	Chemistry	PhD	Pakistan

### 4.3 Present Scholars

Following faculty members started their study during 2014-15:

Sr. No.	Name of Faculty Member	Designation	Department	Nature of Study with Subject	Country
01	Dr. Mirza Ashfaq Ahmed	Assistant Professor	Management Science	Post Doc	USA
02	Shahid Mahmood	Lecturer	Zoology	PhD	Pakistan
03	Nasir Majeed	Assistant Professor	Law	PhD	Pakistan
04	Aliya Basharat	Lecturer	Psychology	PhD	UK
05	Faiqa Yaseen	Lecturer	Psychology	PhD	Pakistan
06	Ayesha Altaf	Lecturer	Computer Science	PhD	Pakistan
07	Nauman Riaz	Assistant Professor	Computer Science	PhD	UK
08	Khurram Ijaz	Lecturer	Software Engineering	PhD	Malaysia
09	Muhammad Shafiq	Lecturer	Information Technology	PhD	South Korea
10	Dr. Ghulam Abbas	Assistant Professor	Chemical Engineering	PhD	China
11	Shahida Bashir	Assistant	Mathematics	PhD	China

		Professor			
12	Muhammad Abid Dar	Lecturer	Mathematics	PhD	Germany
13	NasiraParveen	Sports Officer	Sports Department	M.Phil	Pakistan

#### 4.4 Pre-service and In-service Professional Development Programs

Being a newly established institute, UOG constantly arranged/organized various professional development programs with cooperation of Government agencies and other prestigious institutes. Office of the Registrar, ORIC, QEC and Business Incubation Centre (BIC) are the key offices to arrange workshops, trainings etc. for faculty, staff capacity building and skill enhancement. Details of In-service Professional Development Programs are as under:

Sr. No.	Training Program / Seminars / Capacity	Date	No. of Participants
1	HEC Indigenous on Campus (IOT) Training Program under Modern University Governance Program	13.10.2014 to 18.10.2014	35
2	HEC Indigenous on Campus (IOT) Training for the Officers of BPS-17 & BPS-18, University of Gujrat	05-04-2015 to 28-03-2015	35
3	HEC Indigenous on Campus Training (IOT) for the Officers (BPS19 & BPS20) of University of Gujrat	April 11-12-17-18-19, 2015	35
4	HEC Indigenous on-Campus Training (IOT) for the Head of Departments/Chairperson and supporting staff of University of Gujrat	5th June to 9th June 2015	35

## Chapter-5

# Access

### 5.1 Basic Enrollment

More than eighteen thousand students are studying at Main Campus, i.e. Hafiz Hayat Campus, UOG, Gujrat and its City Campuses including Medical College, i.e. NSMC. In 2014-15, 3655 students got admission at main Hafiz Hayat Campus, UOG, Gujrat and its City Campuses including Medical College, i.e. NSMC in different degree programs. Out of which 55.73% female students belong to remote areas. Detail of basic enrollment during 2014-15 is as under:

Study Program	Male	Female	Total	Gender wise Ratio %	
				Male	Female
PhD	12	12	24	50.00	50.00
MS/MPhil/MBA(3.5 years)/LLM	199	180	379	52.50	47.49
MA/MSc	220	656	876	25.11	74.89
BS/BSc/B.Com/LLB/MBBS/B.Arch. (Undergraduate 16-17 years Education)	1084	1069	2153	50.35	49.65
Associate Degree (14 Years Education)	103	120	223	46.18	53.81
<b>Total</b>	<b>1618</b>	<b>2037</b>	<b>3655</b>	<b>44.27</b>	<b>55.73</b>

### 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, religious 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

62.26 % of female students and 37.74 % 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 student 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)	321	128	449	71.49	28.51
		M.Phil	10	4	14	71.43	28.57
		Master of Science	1	4	5	20.00	80.00
2	Information Technology	BS (Hons)	334	118	452	73.89	26.11
		M.Phil	7	6	13	53.85	46.15
		Master of Science	0	8	8	0.00	100.00
3	Software Engineering	BS (Hons)	143	55	198	72.22	27.78
		BS (Hons) (Replica)	109	8	117	93.16	6.84
Total A(1)			925	331	1256	73.65	26.35
A(2) Faculty of Arts (FA)							
4	English	BS(Hons)	48	204	252	19.05	80.95
		MA	0	1	1	0.00	100.00
		MPhil (Literature)	1	7	8	12.50	87.50
		M.Phil (Linguistic)	8	21	29	27.59	72.41
5	Center for Languages & Translation Studies	MPhil	19	15	34	55.88	44.12
6	Islamic Studies	BS(Hons)	7	63	70	10.00	90.00
		MA	0	10	10	0.00	100.00
		MPhil	8	8	16	50.00	50.00
7	Mass Communication	BS(Hons)	200	85	285	70.18	29.82
		MA	36	41	77	46.75	53.25
		M.Phil	17	8	25	68.00	32.00
		PhD	9	2	11	81.82	18.18
8	Physical Education	Master of Science	12	34	46	26.09	73.91
Total A(2)			365	499	864	42.25	57.75
A(3) School of Art, Design and Architecture (SADA)							
9	Architecture	B.Arch.	74	16	90	82.22	17.78
10	Textile Design	BS(Hons)	3	50	53	5.66	94.34

11	Ceramics Design	BS(Hons)	9	15	24	37.50	62.50
12	Fine Arts	Bachelor of Fine Arts	5	38	43	11.63	88.37
		M.Phil	0	1	1	0.00	100.00
13	Communication Design	BS(Hons)	48	88	136	35.29	64.71
14	Multimedia Arts	BS(Hons)	28	9	37	75.68	24.32
15	Product Design	BS(Hons)	39	8	47	82.98	17.02
<b>Total A(3)</b>			<b>206</b>	<b>225</b>	<b>431</b>	<b>47.80</b>	<b>52.20</b>
<b>A(4) Faculty of Science (FS)</b>							
16	Biochemistry & Molecular Biology and Biotechnology	BS (B&MB)	46	283	329	13.98	86.02
		BS (Biotechnology)	29	132	161	18.01	81.99
		M.Phil (B&MB)	11	27	38	28.95	71.05
		PhD (B&MB)	2	1	3	66.67	33.33
		M.Phil Biotechnology	7	15	22	31.82	68.18
		PhD Biotechnology	1	0	1	100.00	0.00
17	Zoology	BS (Hons)	28	314	342	8.19	91.81
		Master of Science	0	2	2	0.00	100.00
		M.Phil	8	36	44	18.18	81.82
		PhD	4	1	5	80.00	20.00
18	Botany	BS (Hons)	43	236	279	15.41	84.59
		M.Phil	10	21	31	32.26	67.74
		PhD	1	2	3	33.33	66.67
19	Chemistry	BS(Hons)	78	228	306	25.49	74.51
		Master of Science	0	50	50	0.00	100.00
		M.Phil	13	47	60	21.67	78.33
		PhD	7	3	10	70.00	30.00
20	Environmental Sciences	BS(Hons)	43	132	175	24.57	75.43
		MPhil	7	4	11	63.64	36.36
21	Mathematics	BS(Hons)	104	229	333	31.23	68.77
		Master of Science	2	1	3	66.67	33.33
		MPhil	6	28	34	17.65	82.35
22	Physics	BS	136	117	253	53.75	46.25
		M.Phil	9	9	18	50.00	50.00
		Master of Science	0	3	3	0.00	100.00
23	Statistics	BS(Hons)	67	121	188	35.64	64.36
		Master of Science	15	48	63	23.81	76.19
		M.Phil	3	11	14	21.43	78.57
		PhD	2	0	2	100.00	0.00
24	Geography	BS	39	67	106	36.79	63.21

<b>Total A(4)</b>			<b>721</b>	<b>2168</b>	<b>2889</b>	<b>24.96</b>	<b>75.04</b>
<b>A(5) Faculty of Engineering &amp; Technology (FE&amp;T)</b>							
25	Chemical Engineering	Bachelor of Science	179	23	202	88.61	11.39
		B-Tech (Evening)	76	1	77	98.70	1.30
		Master of Science (Engineering)	23	1	24	95.83	4.17
26	Electrical Engineering	Bachelor of Science	202	16	218	92.66	7.34
		B-Tech (Evening)	210	0	210	100.00	0.00
		Master of Science (Engineering)	27	1	28	96.43	3.57
27	Mechanical Engineering	B.Tech (Evening)	171	1	172	99.42	0.58
<b>Total A(5)</b>			<b>888</b>	<b>43</b>	<b>931</b>	<b>95.38</b>	<b>4.62</b>
<b>A(6) Faculty of Social Sciences (FSS)</b>							
28	Economics	BS(Hons)	78	152	230	33.91	66.09
		M.Phil	6	16	22	27.27	72.73
		Master of Science	14	99	113	12.39	87.61
		PhD	0	1	1	0.00	100.00
29	Sociology	BS(Hons)	52	108	160	32.50	67.50
		M.A	11	50	61	18.03	81.97
		M.Phil	6	6	12	50.00	50.00
		PhD	3	0	3	100.00	0.00
30	History & Pakistan Studies	BS(Hons)History	34	31	65	52.31	47.69
		M.Phil Pakistan Studies	11	2	13	84.62	15.38
		MPhil History	19	4	23	82.61	17.39
31	Political Science & IR	BS(Hons) IR	125	42	167	74.85	25.15
		M.A IR	4	3	7	57.14	42.86
		M.Phil IR	6	3	9	66.67	33.33
		BS(Hons)Political Science	72	49	121	59.50	40.50
		M.Phil Political Science	22	8	30	73.33	26.67
32	Psychology	BS(Hons)	28	240	268	10.45	89.55
		Master of Science	1	98	99	1.01	98.99
		M.Phil	0	28	28	0.00	100.00
		M.Phil (Weekend Program)	0	9	9	0.00	100.00

		Professional Diploma in Clinical Psychology	0	13	13	0.00	100.00
		PhD	0	5	5	0.00	100.00
33	Education	Associate Degree	0	29	29	0.00	100.00
		Bachelor of Education (B.Ed.)	0	128	128	0.00	100.00
		M.A	0	18	18	0.00	100.00
		M.Phil	0	12	12	0.00	100.00
		M.Phil (Weekend Program)	1	19	20	5.00	95.00
<b>Total A(6)</b>			<b>493</b>	<b>1173</b>	<b>1666</b>	<b>29.59</b>	<b>70.41</b>
<b>A(7) Faculty of Management and Administrative Sciences (FM&amp;AS)</b>							
34	Management Sciences	BBA (Hons)	213	205	418	50.96	49.04
		BBA (Hons)	30	10	40	75.00	25.00
		BBA (Replica)	109	55	164	66.46	33.54
		MBA (1.5 Years)	29	13	42	69.05	30.95
		MBA (3.5 Years)	186	218	404	46.04	53.96
		MBA (3.5 Years) (Replica)	55	47	102	53.92	46.08
		M.Phil	34	14	48	70.83	29.17
		PhD	3	1	4	75.00	25.00
35	Commerce	B.Com (Hons)	129	46	175	73.71	26.29
		BS (Accounting & Finance)	56	22	78	71.79	28.21
		BS (Banking & Finance)	45	29	74	60.81	39.19
		M.Com	0	1	1	0.00	100.00
36	Institute of Hotel & Restaurant Management	Associate Degree	96	25	121	79.34	20.66
<b>Total A(7)</b>			<b>985</b>	<b>686</b>	<b>1671</b>	<b>58.95</b>	<b>41.05</b>
<b>Grand Total A(1+2+3+4+5+6+7)</b>			<b>4583</b>	<b>5125</b>	<b>9708</b>	<b>47.21</b>	<b>52.79</b>
<b>B) Nawaz Sharif Medical College(NSMC), Gujrat</b>							
<b>Sr.#</b>	<b>Department Name</b>	<b>Degree/Program</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>
37	Medical Sciences	MBBS	132	299	431	30.63	69.37
<b>Total(B)</b>			<b>132</b>	<b>299</b>	<b>431</b>	<b>30.63</b>	<b>69.37</b>
<b>C) Fatima Jinnah City Campus(FJ), Gujrat</b>							
38	Chemistry	Master of Science	0	42	42	0.00	100.00
39	Commerce	Associate Degree in Accounting & Finance	4	74	78	5.13	94.87

40	Computer Science	BS (Evening)	163	16	179	91.06	8.94
41	Education	Associate Degree	0	1	1	0.00	100.00
		BS	0	59	59	0.00	100.00
		BS (Hons)	0	5	5	0.00	100.00
		M.A	0	20	20	0.00	100.00
		M.Phil	1	2	3	33.33	66.67
42	Information Technology	Associate Degree	0	30	30	0.00	100.00
		BS (Hons) (Evening)	1	0	1	100.00	0.00
		BS (Evening)	156	9	165	94.55	5.45
43	Mathematics	Master of Science	0	35	35	0.00	100.00
44	Physics	Master of Science	30	34	64	46.88	53.13
45	Textile Design	Associate Degree	0	7	7	0.00	100.00
46	Intermediate FA/FSc	Pre-Medical	0	272	272	0.00	100.00
		Pre-Eng.	0	98	98	0.00	100.00
		Commerce	0	364	364	0.00	100.00
		Humanities / Gen. Sci.	0	1238	1238	0.00	100.00
		<b>Total (C)</b>	<b>355</b>	<b>2306</b>	<b>2661</b>	<b>13.34</b>	<b>86.66</b>
<b>D) UOG G T Road City Campus, Gujrat</b>							
47	Botany	Master of Science	9	54	63	14.29	85.71
48	Commerce	Associate Degree	30	2	32	93.75	6.25
		B.Com (Hons)	31	2	33	93.94	6.06
		M.Com	44	48	92	47.83	52.17
		M.Com (Evening)	90	21	111	81.08	18.92
49	History	M.A	1	8	9	11.11	88.89
50	Information Technology	Associate Degree	51	0	51	100.00	0.00
51	International Relations	M.A	16	45	61	26.23	73.77
52	Islamic Studies	M.A	2	33	35	5.71	94.29
53	Management Sciences	BBA (Evening)	269	39	308	87.34	12.66
		MBA (1.5 Years) (Evening)	3	2	5	60.00	40.00
		MBA (Evening)	1	0	1	100.00	0.00
		MBA (3.5 Years) (Evening)	291	78	369	78.86	21.14
54		Associate Degree	79	13	92	85.87	14.13
	School of Law	LLB (Hons)	153	70	223	68.61	31.39
		LLM	13	3	16	81.25	18.75
55	Zoology	Master of Science	12	77	89	13.48	86.52

56	Intermediate	Part I	218	0	218	100.00	0.00
		Part II	125	0	125	100.00	0.00
		<b>Total (D)</b>	<b>1438</b>	<b>495</b>	<b>1933</b>	<b>74.39</b>	<b>25.61</b>
<b>E) UOG Marghazar City Campus, Gujrat</b>							
57	Botany	Master of Science	0	59	59	0.00	100.00
58	Zoology	Master of Science	0	49	49	0.00	100.00
59	Computer Science	BS (Evening)	262	22	284	92.25	7.75
		Master of Science	23	34	57	40.35	59.65
60	English	M.A	3	55	58	5.17	94.83
61	Information Technology	Associate Degree	0	30	30	0.00	100.00
		BS (Evening)	168	19	187	89.84	10.16
		Master of Science	0	91	91	0.00	100.00
62	Software Engineering	BS (Evening)	180	18	198	90.91	9.09
63	Intermediate	FSc	0	1779	1779	0.00	100.00
		ICS					
		Humanities					
		I.Com					
		<b>Total (E)</b>	<b>636</b>	<b>2156</b>	<b>2792</b>	<b>22.78</b>	<b>77.22</b>
<b>F) UOG Railway Road City Campus, Gujrat</b>							
64	Intermediate	FSc (Pre-Medi + Pre-Eng.)	0	52	52	0.00	100.00
		FA	0	637	637	0.00	100.00
65	Commerce	Bachelor of Commerce	0	30	30	0.00	100.00
66	Arts	Bachelor of Arts	0	687	687	0.00	100.00
		<b>Total (F)</b>	<b>0</b>	<b>1406</b>	<b>1406</b>	<b>0.00</b>	<b>100.00</b>
		<b>Grand Total (A+B+C+D+E+F)</b>	<b>7144</b>	<b>11787</b>	<b>18931</b>	<b>37.74</b>	<b>62.26</b>

## 5.4 Employability

The Career Guidance and Placement Office under the umbrella of Student Services Centre & University Advancement & Financial Aid Office (UA & FAO) of UOG are the key offices to ensure and explore employment opportunities of university graduates after the completion of their degrees. For this purpose, on-campus recruitment sessions, i.e., training and workshops and job fairs are constantly organized by these offices. In 2014-15, these offices facilitated 1411 students for getting internship opportunities in different institutes and organizations

### **5.5 Faculty-Student Ratio**

UOG have 628 faculty members for teaching 18931 students during the period under report (2014-15). This comes to a ratio of 31 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 is captivating a qualitative increase forward by emerging robust connections with local industry through wide-ranging support for research projects jointly including specified research centers/institutes, research associations, industrial link and new corporate incubators. The purpose of this type of cooperation with several national as well as foreign universities/institutions are to certify the capacity building of UOG faculty members in interdisciplinary research techniques and theoretic methods. UOG is dynamically advancing for further vigorous foreign cooperation for extending the areas of research activities and also arranging funds for UOG faculty development program.

Sr#	Signed with	Purpose	Date
1	Saffi Ceramic industries	Research and designing of ceramic products	13 January 2015
2	NAZRAN (Pvt.) Limited	Talent and resource sharing	16 February 2015
3	Fibre Craft Industries, Lahore	Talent and resource sharing	27 May 2015

### 6.2 New Initiatives

UOG took-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. UOG also organized numerous conferences, seminars, workshops, trainings with the collaboration of national and international organizations/ donor agencies/industries for enhancing the university-industrial linkages. 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 2014-15:

- i. ORIC, UOG 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.



### 6.3 Internship and Placement Office Center, UOG

UOG is already committed to provide its students with job placement services. The Student Services Center is the key office to help the students to find an excellent job opportunity according to their career interests and abilities. 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 proactively establishing relationships with local industry for internships, jobs, scholarships and financial support to needy students. During 2014-15, 1411 students availed these employment services from Career Guidance & Placement office. Details are as under:

Sr. No.	Program	Number of Internship Referrals in 2015
1	BBA (Hons)	247
2	MBA	206
3	B.Com (Hons)	67
4	M.Com	196
5	BS (Hons) Mass Communication & Media	102
6	MA Mass Communication & Media	78
7	BS (Hons) Psychology	56
8	MSc Psychology	80
9	MPhil Psychology	16
10	BSc Electrical Engineering	52
11	BSc Chemical Engineering	39
12	BS (Hons)/MSc Computer Science & Information Technology	44
13	BS (Hons) Environmental Sciences	42
14	BS (Hons) Sociology/MA Sociology	15
15	BS (Hons)/MSc Chemistry	07
16	BS (Hons)/ MSc Economics	20
17	BS (Hons) Statistics	12
18	BS (Hons)/MSc Zoology	09
19	BS (Hons) Biochemistry	23
20	Associate Degree/BS (Hons) Art Design & Architecture	72
21	B. Tech Mechanical Engineering	28
<b>Total Number of Internship Referrals</b>		<b>1411</b>

### 6.4 Student Counseling and Career Guidance

The Student Services Center purposes to explore those areas of work, which may boost and advance students' academic and intellectual accomplishments. These offices also strive for the employment quests of students. The persistence of these two offices is to offer up-to-date and forward-thinking information to the students for their academic work purposes and professional skill enlargement. It also supports the students to mark proper varieties at the right time and cultivate understanding for right choices. The Career Guidance office of Students Services Center

deals with students' counseling to support them for identifying their aptitudes and standards for refined professional choices.

**Key Objectives:**

1. To assist students to make most suitable and accurate job choices with clear career path.
2. To properly guide students to cultivate their educational interests for long term aims.
3. To bring about and provide timely 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.

**Key Facilities:**

The key offices, i.e., Student Services Center offer numerous other facilities to students in consultation of academic departments.

1. On Campus Career Advisory
2. Individual Counseling Services
3. Group Counseling Services
4. Teaching Training
5. Professional Development Programs

## Chapter-7

# Strengthening Physical Infrastructure

### 7.1 Development Projects (Laboratories, Libraries, etc.)

UOG has its own Work Committee and Work Rules, for the execution of development projects regarding civil works through enlisted contractor/firms, approved by the Syndicate in its 17<sup>th</sup> meeting held on 02.03.2013. All development projects either funded by Government concerned departments or by university's own sources are being executed according to University of Gujrat's (UOG) Work Rules and Punjab Procurement Regularity Authority Rules (PPRA), 2014. These Work Rules are derived from PPRA Rules and Contract Document, C&W Department, Govt. of the Punjab. All the academic requirements are collected from academic departments at the end of each financial year with complete justification. These academic requests are presented to Work Committee with tentative cost estimates for inclusion in the Annual Works Program (AWP) and for onward Transmission to the Syndicate through Finance & Planning Committee. After approval from the competent forum, the approved developmental schemes/projects are executed through university funds as listed in AWP.

During 2014-15, 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 is planned to be executed during 2014-15 subject to the provision of funds from concerned funding agency. 983 Kanal and 9 Marla's land were 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, Thirty three (33) Grade 18-19 Residencies, 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.

## **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 College, 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 one (1) Faculty Hostel, forty (40) Faculty Apartments, Twenty (20) Faculty Residences, three (03) Student Hostels, Boundary Wall, two (02) Clinical Blocks at ABS, twenty (20) bedded Ward emergency at ABS (64 bedded each), one (01) Operation Theater at ABS, roads and landscaping. Presently, the work is in progress and almost 65% 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 million in mid of FY 2014-15. Accordingly, the work started and is still in progress and will be completed in 2015-16. The basic purpose of the project is to provide a Multipurpose Conference Hall for arranging academic activities, co-curricular, indoor sports activities and also organizing official meetings, functions, under one roof.

## **4. Extension of “P” Block, University of Gujrat**

The project/scheme titled “Extension of “P” Block, University of Gujrat” was initiated on the request of Architecture Department, UOG with the approval of Work Committee amounting to Rs 99.395 Million through its own sources, i.e., AWP 2014-15 for carrying out academic work and research activities as per standards of Pakistan Council of Architects and Town Planners (PCATP). This project is mandatory for the accreditation of PCATP before proceeding any academic program in the university. During 2014-15, Consultant was hired for Architectural & Structural Designs/ Drawings and top-supervision of the project. The construction work is now being carried out under supervision of Works Department, UOG.

## **5. Strengthening & Expansion of University of Gujrat and its Allied Campuses**

The project “Strengthening & Expansion of University of Gujrat and Its Allied Campuses” was approved by CDWP on 28.04.2015 and Administrative Approval was issued on 13.05.2015 for Rs.2988 million.147 Million including FEC of Rs.135.707 Million with completion time of 36 Months. The two major components are included in this project. First construction component covers missing academic facilities of Hafiz Hayat Campus, Gujrat and the Second construction component designated for the establishment of UOG Sub-Campus at Narowal.

## 6. Construction of Additional Portion of Central Library, UOG

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 provide additional facilities to the disable persons and study and research sections. Twenty two million (22) rupees were allocated for this scheme through university’s own sources. The design for this work/scheme was prepared by Director (Planning and Design), C&W Department, Government of the Punjab. The Work/Scheme was executed and completed during the reporting year for Rs 19.00 million with the saving of Rs 03.00 million.

## 7.2 Research Equipment

UOG provided equipment’s to its academic departments during 2014-15 for streamlining the academic work and also executing the research activities as per time-to-time requirements. Detail of department wise research equipment is as under:

Sr.No.	Name of Department	Scientific Instrument /Equipment with Description
1	Botany	<ol style="list-style-type: none"> <li>1. 05 Nos of Thermocycler, PCR, Gel Electrophoresis acquired for Biodiversity Informatics and Genomics Lab.</li> <li>2. 02 Nos of research tools acquired for Functional Genomics Lab.</li> <li>3. 05 Nos of Computers procured for Plant Bioinformatics Lab.</li> <li>4. 02 Nos of research tools, i.e., Herbarium Presser acquired for Plant Taxonomy and Molecular Synthetics Lab.</li> <li>5. 05 Nos of Flame Photometer, Spectrophotometer, LCI Analyzer, pH Meter acquired for Plant Physiology and Photo hormones Lab.</li> </ol>
2	Zoology	<ol style="list-style-type: none"> <li>1. 04 Nos of chemicals &amp; microscopes procured for Insect Systematics and pest Management Lab.</li> <li>2. 02 Nos of research tools, i.e., Incubator Chemical Racks acquired for Postgraduate Research Lab.</li> </ol>

## 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, provide 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:

#### 1) Annual Reviews

- Offers comprehensive, timely collections of critical reviews written by leading scientists and each year publishes approximately 46 focused disciplines within the Biomedical, Life, Physical, and Social Sciences including Economics.
- Critically reviews the most significant primary research literature to guide researchers to the principal contributions of their field and helps them to keep up to date in their area of research.
- Each article is its own search engine, providing a gateway to the essential primary research literature referenced within each topic.

## 2) EBRARY

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

## 3) EDINBURGH UNIVERSITY PRESS

- Tables of contents and abstracts of all articles can be viewed for free.
- The advanced search function of the site allows easy access to specific content and you can save your search for future use.
- Registers to receive alerts when new content in your field of interest is uploaded to the site, and to view sample issues and featured articles for free.
- Tracks article citations, downloads bibliographic information and access exclusive supplementary material that is only available online.

## 4) ASTM

- ASTM Standards & Engineering Digital Library is a vast collection of industry-leading standards and technical engineering information.
- It covers a broad range of engineering disciplines, including aerospace, biomedical, chemical, civil, environmental, geological, health and safety, industrial, materials science, mechanical, nuclear, petroleum, soil science and solar engineering.

## 5) EMERALD

- Comprises 150 titles in the fields of Management, Information Science and Engineering.
- The Emerald full text collection features over 58,000 articles from published titles.
- Flagships titles such as Management Decision, European Journal of Marketing, Journal of Documentation, Leadership & Organization Development Journal, The TQM Magazine and Industrial Robot.
- Optimizes online viewing and navigation with the ebrary reader can expand his research with Info Tools
- Saves and manages research through a Personal Bookshelf and automatic citations.

## 6) McGraw Hill Collections

- Focused around 14 major areas of engineering including 274 titles, Access Engineering features a new taxonomy book view offering comprehensive coverage and faster title-by-title access to engineering collection.
- Harrison's Online answers their clinical questions 95% of the time: Diagnosis and treatment of 4,700 diseases and disorders. Contributions by the world-renowned authors and physicians.
- Highly recommended for all science users from high school through college, as well as users in large libraries.

- Contains full text and illustrations of McGraw-Hill Encyclopedia of Science and Technology.
- 8,500 Encyclopedia and Research Update articles by leading researchers, including Nobel Prize winners.
- 100,000+ terms from Dictionary of Scientific and Technical Terms.

## **7) PROJECT MUSE**

- Provides access to 430 full-text journals from 108 publishers in humanities and social science.

## **8) SPRINGERLINK**

- Information services for Science, Technical and Medical journals.
- Springer Link provides access to 503 full-text Springer-Verlag Journals and 738 full-text journals formerly published by Kluwer Academic Publishing.

## **9) TAYLOR & FRANCIS JOURNALS**

- More than 1000 journal titles in a full range of disciplines.
- New Issue Alerts generate an alert for new issues of journals in your chosen areas. Publication Alerts generate an alert for new publications within your chosen subject area.
- Citation Alerts generate an alert when new citations of your chosen articles, chapters or records appear.
- iFirst Alerts receive alerts on new articles in your field once they have been accepted for publication.
- Search Alerts display your saved searches.
- RSS feeds receive a feed of the latest articles published in your chosen publication.

## **10) WILEY-BLACKWELL JOURNALS**

- All the journals available to HEC consortium are now available through Wiley-Inter science.
- Online database containing over 1,234 journals in Science, Technology, Medicine, Humanities and Social Sciences.

## **11) AMERICAN SOCIETY OF AGRICULTURAL BIOLOGICAL ENGINEERS (ASABE)**

- Provides 1,500 information resources each year, including technical papers from meetings and conferences, peer-reviewed journal articles, a membership magazine, textbooks, reference books, and standards. These are available in electronic format in our ASABE Online Technical Library.



**12) CANADIAN SCIENCE PUBLISHING (NRC Research Press)**

- An all-inclusive and cost-effective package. “ingentaconnect” gives you access to the largest linking network of its kind online. “ingentaconnect” is ideal for publishers looking to put their content online for the first time and increases the global visibility of their publications.
- Publishing Technology is the largest supplier of technology and related services for the publishing industry.

**13) INSTITUTE OF ENGINEERING AND TECHNOLOGY (IET)**

- Provides more than 100,000 technical papers from 1994 onwards for all IET journals, magazines, conference publications and seminar digests. Highly cited journals such as Electronics Letters are available alongside 24 Journal titles, the IET's only online journal Micro & Nano Letters, the IET's member magazine Engineering & Technology, plus seminar digests and conference publications.
- E-Books service, bringing professionals access to some 300 titles across 12 specialist disciplines, covering all key areas of engineering and technology.

**14) INSTITUTES FOR OPERATIONS RESEARCH AND THE MANAGEMENT SCIENCES (INFORMS)**

- Operations Research, Management Science, Analytics
- Operations Management and Information Systems
- Decision Analysis
- Research Theory
- Marketing Research and Science
- Computing and Information Technologies
- Strategic Management, Mathematical Theory and Supply Chain Management

**15) UNIVERSITY OF CHICAGO PRESS**

- Providing Electronic publishing, delivering original, peer-reviewed research from international scholars.

**16) WORLD BANK E-LIBRARY**

- Browse by content type, topic, key word, series, and other metadata
- Chapter-level abstracts and individual chapter downloads for a growing number of books
- Downloadable metadata records for easier cataloging
- Social bookmarking icons for sharing pages and abstracts as well as search and browse results

## 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. University of Gujrat is connected to PERN along with Higher Education Commission. UOG is availing HEC PERN 60 Mbps internet backbone link for research and academics activities. UOG is availing the following facilities with the connection HEC PERN:

1. Digital library
2. Video Conference
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 16 available resources and enhances the quality of video conferencing.

## 8.3 Video Conferencing Facility

In UOG, Video conferencing facility has become a key method for teaching and training of faculty and staff members. This technology is much helpful for University business and organizational training purposes. 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 held in 2014-15 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. Safer 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	Conference	26-27 February 2014	Sukkur Institute of

	Business Management (ICoBM)			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	Conference	August 5,	HEC

	and Leeds Metropolitan University, UK		2014 & August 6, 2014	
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
36	Open Stack Training at IST Islamabad	Training	31st December, 2014 to 01st January, 2015	HEC
37	NATIONAL APP DEVELOPMENT COMPETITION AWARENESS SESSION	Seminar	30th January, 2015	HEC
38	VIDEO CPNFERENCE REGARDING RESOLVING ISSUES OF PM NATIONAL LAPTOP DISTRIBUTION PHASE II (REVISED SCHEDULE)	Meeting	30th Jan, 2015	HEC
39	Video Conference Seminar on Management of Higher Education	Seminar	Feb 4, 2015	HEC
40	Harvard SAI Webinar - Disaster Management & Emergency Response	Webinar	10th Feb, 2015	HEC and Harvard University
41	ERP SCANNED LETTERS	Conference	25th Feb, 2015	HEC
42	Draft Program - Japan-SAARC Energy Symposium	Session	10th March and 11th March, 2015	HEC
43	Live Video of Change Pakistan conference hook up to PERN	Seminar	20th March & 21st March, 2015	HEC
44	Enrique Penalosa's Lecture at NED University of Engineering	Lecture	27th March, 2015	HEC

	&Technology			
45	International Symposium on Dairy Animal Reproduction (ISDAR 2015)	Seminar	30th to 31st March, 2015	HEC
46	Video Conference regarding sponsoring advertisement of 3rd International Conference	Meeting	29th April, 2015	HEC
47	The First International Seminar on Educational Thoughts of Rumi and Iqbal: Issues & Challenges	Seminar	06th May, 2015	HEC
48	National Harmony Workshop 2015- live broadcast through video conferencing	Workshop	11th to 15th May, 2015	HEC
49	3rd International Social Sciences Conference	Conference	13-14 May 2015	HEC
50	Video Conference with all public sector Universities about Fulbright Scholarship Program	Meeting	19th May, 2015	HEC
51	Workshop on Governance under HEC's Indigenous On-Campus Training at PIEAS	Workshop	03rd June, 2015	PIEAS
52	NEDUET is organizing two CPD workshops	Workshop	June 6, 2014	HEC
53	Role of Teachers & Teaching Institutions in Creating Harmony in Society and Community Building	Lecture	08th June, 2015	HEC
54	Assessment of Learning Outcomes: Quality Session at Institute of Business Management, Karachi	Session	10th August, 2015	Institute of Business Management, Karachi
55	Mission Vision Objective Outcomes	Session	Sep,11,2015	Khyber Medical University
56	Early Response to Disaster across the LOC	Seminar	29th September, 2015	HEC
57	Opening Ceremony of "Pakistan School on Internet Governance	Seminar	October 5th, 2015	HEC
58	Video Conference session on Grade Mark and Peer Review in turnitin.com	Session	10th November, 2015	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 the 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

## 8.5 Web Portal

UOG web portal [www.uog.edu.pk](http://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 related 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 in 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 from 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, 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 to have a 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, UOG highlighted the important issues and catered 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 UOG's worth within the society for the strengthening of indigenous education.

## 9.2 University's role in Community Building

UOG has three main roles, namely: Education, Research, and Community Service. The purpose of the community service role is to assist in developing community potential in order to achieve desired societal goals. University research also contributes to societal welfare and developing community potential i.e. excellent research partnerships, industrial-research partnerships and book writing in co-operation with local companies. These services contribute to community development. In this regard, UOG took developmental initiatives including literacy programs, reforestation projects and business incubator development. UOG Student Services Center (SSC) plays a pivotal role in community building. Furthermore, SSC has established three forums for encouraging the role of university in community building. These are Internship & Placement Office, Career Counseling Office and Hayatian's Alumni Association. UOG maintains and builds its relationships with the community in several direct and indirect ways, for example:

- It provides opportunities of higher education to the surrounding communities.
- UOG is the biggest employer of unskilled workers and supports staff living in its vicinity.
- UOG also hires skilled and professional staff from nearby villages and towns.
- UOG Campus FM Radio serves a large population in 50Kms radius. Its programmes 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. (See SSR below)
- Various departments assign projects and activities to the students that may involve productive and beneficial activities for the community. For example, students of the Development Communication launched a dental education programme in nearby villages.
- Campus FM Radio plans to broadcast programmes for a variety of audience in the communities.
- Presence of over 15,000 students and staff in the city and suburb is changing business landscape of the city and rural Gujrat. New businesses are emerging and a variety of services is mushrooming. These are offering employment opportunities to many in the neighborhood.

With the establishment of Hayatian's Alumni Association, UOG fosters lifelong connections between students and faculty for the development of university academia providing financial and technical assistance for deserving students in the shape of scholarships. On the Alumni forum, University promotes, encourages, and assists in effective communication between faculty and the alumni. Alumni participate in productive activities such as students' recruitment and career development in the broad spectrum of activities. This platform serves to develop strong relationship between Hayatians and UOG for common interests of academics.

### **9.3 Alumni Affairs: Outstanding Achievements**

Hayatians Alumni Association is an association of former students, existing students, faculty and people, who have attained a prominent position in the field of education. The member of the Haytians' Alumni Association represents university within the society as an Ambassador for achieving its desired objectives. The member is a mouthpiece of UOG at social level. The Association consists of two forums: the General Body (GB) and the Executive Committee (EC). The General Body is the supreme authority of the alumni and all the members of the alumni are the part of General Body. The Executive Committee is a forum for implementation of the Alumni's strategy with active and effective mode. The EC is comprised of following twelve members elected by General Body and one member will be nominated by the UOG Competent Authority for two years:

1. President
2. Vice President
3. General Secretary
4. Joint Secretary
5. Information Secretary
6. Secretary Finance
7. Executive (Five Members)

There are two types of membership offered by Hayatians Alumni Association

- a. Regular membership
- b. Honorary membership

The major achievement of the UOG Hayatians Alumni Association is to gather all alumni and faculty under one roof, for the benefit of UOG graduates. The Hayatians Alumni Association forum plays a key role in the development of the University and fund raising for deserving students in the form of scholarships. The recent event organized by the Association and UOG brought to the fore the good news that many members of the UOG Alumni had secured excellent positions in the industry and public sector.

### **Achievements of Hayatians Alumni**

The University Alumni have achieved their desired objectives within a short span of time and enhanced the University's 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. Following are the achievements of Alumni in the year 2014-15:

- 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 of faculty members and students have been 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 industry internship initiatives.

## Chapter-10

# Sports

Sports Department, UOG was established in 2007. The Sports Department, UOG provides all essential facilities to the students for physical activities, particularly sport purposes for the well-being and healthy grooming of youth. Hundreds of scientific studies and researches across the world have conclusively proved that regular physical activities lead to higher life expectancy and better quality of life by maintaining fitness. Accordingly, Sports Department, UOG provides following facilities/services to their students:

1. Provides indoor sports facilities for male & female students such as Badminton, Basketball, Chess, Gymnastics, Karate, Netball, Table Tennis & Weightlifting.
2. Provides 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 participate.
4. Conducts Inter-faculty Championships on annual basis.
5. Conducts Inter-departmental 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 interdepartmental tournaments and friendly matches with other universities and colleges.

The indoor sport activities are expanding by constructing 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 like Badminton, Basketball, Chess, Gymnastics, Karate, Netball, Table Tennis and Weightlifting etc. have become popular among students.

### 10.1 Inter-Faculty/ Intervarsities / Departmental Sports

Following is the detail of Inter-Faculty Sports held during 2014-15:

<b>Inter-Faculty Sports</b>	
<b>A) Event Name: Football (Men) Championship</b>	
<b>Organized By:</b>	Sports Department, UOG
<b>Date of Commencement</b>	22 <sup>th</sup> 24 <sup>th</sup> April 2015
<b>Venue:</b>	Sports Ground
<b>No of Participating Teams</b>	08

<b>Participating Faculties/ Campuses:</b>	<ul style="list-style-type: none"> <li>• School of Arts, Design &amp; Architect</li> <li>• Faculty of Engineering</li> <li>• Faculty of Management Sciences (E)</li> <li>• Faculty of Computer Science &amp; Information Technology (E)</li> <li>• Faculty of Social Sciences</li> <li>• Faculty of Basic Sciences</li> <li>• Faculty of Computer Science &amp; Information Technology (M)</li> <li>• Faculty of Management Sciences (M)</li> </ul>
<b>No of Participants(Students):</b>	128
<b>Championship Runners Up:</b>	Faculty of Computer Science & Information Technology (E)
<b>Winner:</b>	Faculty of Management Sciences (M)
<b>Award:</b>	Certificates to all participating Students
<b>B) Event Name: Basketball (Men) Championship</b>	
<b>Organized By:</b>	Sports Department, UOG
<b>Date of Commencement</b>	20th 21 <sup>th</sup> April 2015
<b>Venue:</b>	Sports Ground
<b>No of Participating Teams</b>	06
<b>Participating Faculties/ Campuses:</b>	<ul style="list-style-type: none"> <li>• School of Arts, Design &amp; Architect</li> <li>• Faculty of Engineering</li> <li>• Faculty of Basic Sciences</li> <li>• Faculty of Computer Science &amp; Information Technology (E)</li> <li>• Nawaz Sharif Medical College</li> <li>• School of Law</li> </ul>
<b>No of Participants(Students):</b>	90
<b>Championship Runners Up:</b>	Faculty of Engineering
<b>Winner:</b>	Faculty of Computer Science & Information Technology (E)
<b>Award:</b>	Certificates to all participating Students
<b>C) Event Name: Cricket (Men) Championship</b>	
<b>Organized By:</b>	Sports Department, UOG
<b>Date of Commencement:</b>	17 <sup>th</sup> to 19 <sup>th</sup> December 2014
<b>Venue:</b>	Sports Ground
<b>No of Participating Teams</b>	06
<b>Participating Faculties/ Campuses:</b>	<ul style="list-style-type: none"> <li>• Faculty of Engineering</li> <li>• School of Arts, Design and Architect</li> <li>• Faculty of Social Sciences</li> <li>• Faculty of Management Sciences</li> <li>• Faculty of Basic Sciences</li> <li>• Faculty of Computer Science &amp; Information Technology</li> <li>• Faculty of Arts</li> </ul>
<b>No of Participants (Students):</b>	90

<b>Championship Runners Up:</b>	Faculty of Management Sciences	
<b>Winner:</b>	Faculty of Computer Science & Information Technology	
<b>Award:</b>	Certificates to all participating Students	
<b>D) UOG Annual Sports Gala 2015</b>		
<b>Organized By:</b>	Sports Department, UOG	
<b>Date of Commencement</b>	22nd to 24 April 2015	
<b>Venue:</b>	Sports Ground	
<b>Participants:</b>	All Students (Male & Female), Faculty Members and Administrative Staff of UOG.	
<b>Participating Faculties/Campuses:</b>	<ul style="list-style-type: none"><li>• UOG Hafiz Hayat Campus</li><li>• UOG City Campus G.T Road Gujrat</li><li>• UOG City Campus Railway Road Gujrat</li><li>• UOG City Campus Marghzar College</li><li>• UOG City Campus Fatima Jinnah College</li><li>• UOG Rawalpindi Campus</li></ul>	
<b>Games &amp; Events:</b>	<b>Athletics (Men):</b> 100m, 200m, 400m, 800m, 1500m, 4x100 m Relay race, Long Jump, Triple Jump, Discus Throw, Shot Put & Javelin Throw <b>Athletics (Women):</b> 100m, 200m, 400m, 800m, 4x100 m Relay race, Long Jump, Discus Throw, Shot Put & Javelin Throw	
<b>Award:</b>	<b>Trophies:</b> Awarded Trophies to Department & Best Athlete (Men & Women) <b>Medals:</b> Awarded Gold Medals (21 Medals) to 1 <sup>st</sup> Position Holders in Athletics Event Awarded Silver Medals (21 Medals) to 2 <sup>nd</sup> Position Holders in Athletics Event Awarded Bronze Medals (22 Medals) to 3 <sup>rd</sup> Position Holders in Athletics Event <b>Certificates:</b> Awarded Certificates to all Students who participated in Games & Events of Annual Sports Gala 2015.	
<b>Intervarsities Sports</b>		
<b>E) Volleyball (Women) Championship 2014-15</b>		
<b>Organized By:</b>	Shaheed Benazir Bhutto Women University of Peshawar under the supervision of HEC	
<b>Date of Commencement</b>	13 <sup>th</sup> to 15 <sup>th</sup> April 2015	
<b>Venue:</b>	Shaheed Benazir Bhutto Women University of Peshawar	
<b>Participating Teams:</b>	UOG Volleyball (Women) Team	
<b>Participating Student Players:</b>	<b>Student's Name</b>	<b>Department</b>

	Kanwal Shahzadi Asma Zanib Atiqa Sarwar Neelam Hassan Muniba Zia Amina Bashir Irshad Fatima Ishrat Fatima Nosheen Rafique Ameena Taj Seemab Iftkhar Madeha Naz	UOG Rawalpindi Campus UOG Rawalpindi Campus UOG Rawalpindi Campus UOG Rawalpindi Campus UOG Rawalpindi Campus UOG Rawalpindi Campus UOG Rawalpindi Campus UOG Rawalpindi Campus UOG Rawalpindi Campus UOG Rawalpindi Campus UOG Rawalpindi Campus UOG Hafiz Hayat Campus UOG Hafiz Hayat Campus
<b>No of Participants (Students):</b>	12	
<b>Position:</b>	Loose Semi-Final Match	
<b>F) Basketball (Women) Championship 2014-15</b>		
<b>Organized By:</b>	Bahria University Islamabad under the supervision of HEC	
<b>Date of Commencement</b>	17 <sup>th</sup> to 20 <sup>th</sup> May 2015	
<b>Venue:</b>	Bahria University Islamabad	
<b>Participating Teams:</b>	UOG Basketball (Women) Team	
<b>Participating Student Players:</b>	<b>Student's Name</b>	<b>Department</b>
	Kanwal Shahzadi	UOG Rawalpindi Campus
	Asma Zanib	UOG Rawalpindi Campus
	Atiqa Sarwar	UOG Rawalpindi Campus
	Neelam Hassan	UOG Rawalpindi Campus
	Muniba Zia	UOG Rawalpindi Campus
	Amina Bashir	UOG Rawalpindi Campus
	Jamil Fatima	UOG Hafiz Hayat Campus
	Ishrat Fatima	UOG Rawalpindi Campus
	Seemab Iftkhar	UOG Hafiz Hayat Campus
	Madeha Naz	UOG Hafiz Hayat Campus
	Rafia Majeed	UOG Hafiz Hayat Campus
<b>No of Participants (Students):</b>	11	
<b>Position:</b>	Loose Semi-Final Match	
<b>G) Departmental Sports Day</b>		
	Sports Department, UOG facilitates various departments to Conduct Departmental Sports Day from 01-07-2014 to 30-06-2015. Details of Departments are as under: <ul style="list-style-type: none"> <li>• Department of Physics on 23-04-2015</li> <li>• Department of Chemical Engineering on 11-06-2015</li> <li>• Department of Chemical Engineering on 27-03-2015</li> <li>• Department of Commerce on 21-05-2014</li> <li>• Nawaz Sharif Medical College (Indoor Sports) on 22-04-2015</li> <li>• Nawaz Sharif Medical College on 22-04-2015</li> </ul>	

	<ul style="list-style-type: none"> <li>• Department of Electrical Engineering on 09-04-15</li> </ul>
<b>H) Seminar on Drug Addiction and Doping in Sports (2015)</b>	
<b>Organized By:</b>	Sports Department, UOG
<b>Date of Commencement</b>	19-03-2015
<b>Venue:</b>	University of Gujrat Hafiz Hayat Campus
<b>Participants:</b>	Students of University of Gujrat
<b>Award:</b>	Awarded Certificates to all participants.
<b>Chief Guest</b>	Dr. Farishullah Yousafzai (Dean Faculty of Arts) Mr. M. Yaqoob (Director Students Affairs)



## Chapter-11

# University Building Leadership

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

UOG faculty members have actively participated in educational sphere for upgrading/improving the higher education sector in Pakistan. The faculty and staff members are fully involved in several activities despite the fact of performing leadership role. Some of the significant achievements of UOG faculty during 2014-15 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 Ashraf, Assistant Professor, Department of Fine Arts 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 student leadership. The purpose of organizing these activities is to extend students interpersonal qualities for future leadership. UOG organizes a wide array of co-curricular activities consistently to build up student leadership abilities such as confidence initiative, decision making and communication skills. These kind of co-curricular activities are organized at all levels from departmental to national level to groom youth intellectually as well as morally. The University Sports Department has encouraged the students to participate in university as well as national level games.

UOG has demonstrated outstanding results in co-curricular activities like debating, public speaking, exhibitions, poetry competitions, essay writing, quizzes, drama, art and painting. It is documented by the success of our students at the national level competitions. The extra-curricular and co-curricular activities at UOG are carried out through sports department, concerned academic departments and students' societies. The office of Co-curricular Activities at SSC manages the

planning and execution of student organization events, coordinates numerous events in collaboration with academic and non-academic departments.

Currently there are more than 40 societies working rigorously to provide an exciting and vibrant campus life. All Societies conduct Inter and Intra University competitions. HITS, IEEE, Tedx, Lafz, Kasauti, Theatre, Literary Festival, and Inquisitive are few of the flagship events of the campus. In addition to already registered 45 student societies at UOG the new leadership envisioned to form technical societies so that our students may be connected with the international forums like IEEE, AICHIE, SHRAM, PIE, OSFP, and many more. Detail of events held during 2014-15 is as under:

ACADEMIC SESSION-2014-15					
Sr. No.	Event Title	Date	Venue	No. of Participants	Nature of Event
1	Active Citizenship Program (FMAS)	June 25, 2015	HH Campus, UOG	325	Awareness Campaigns
2	Financial Analysis Competition (FAC'15)	June 18, 2015	HH Campus, UOG	75	Training for Finance & Financial Analysis
3	"The Book in My Life" (Readers' Club)	June 18, 2015	HH Campus, UOG	80	Mutual Discussion
4	Business Research Exhibition (BRE'15)	June 17, 2015	HH Campus, UOG	75	Inter-departmental Poster Competition
5	Cross Section Presentation Competition (FMAS)	June 16, 2015	HH Campus, UOG	150	Ratio Analysis of KSE listed Companies
6	International Business Impact on Social Media & Cultural Day (Department of Commerce)	June 16, 2015	HH Campus, UOG	130	Workshop & Cultural Day
7	Farewell Party (JBHCS)	June 16, 2015	HH Campus, UOG	200	Departmental Party
8	Farewell Party (IKSSO)	June 16, 2015	HH Campus, UOG	300	Departmental Party
9	Genomics Seminar (Botany Depart.)	June 15, 2015	HH Campus, UOG	220	Seminar
10	LAFZ'15	June 13-16, 2015	HH Campus, UOG	52	26 Universities Participated
11	Education, Budget & Media	June 10, 2015	HH Campus, UOG	300	Seminar
12	Poster Competition'15 (Psychology)	June 08, 2015	HH Campus, UOG	51	Inter-departmental Competition
13	Farewell Party (Department of Economics)	June 05, 2015	HH Campus, UOG	200	Departmental Party
14	Chemistry: A Need of Hour	June 04, 2015	HH Campus, UOG	250	Seminar
15	Dawn Education Expo' 15	May 30-31, 2015	PC Hotel, Lahore	02	Represented UOG
16	KE Media Fest	May 28-29, 2015	KEMU, Lahore		1 <sup>st</sup> Position 02 Catg.
17	Inquizitive'2015	May 26-27, 2015	HH Campus, UOG	50	25 Universities Participated

18	AdWar'2015	May 22, 2015	IBA, Karachi	10	Represented UOG
19	UOG Ambassadors Workshop	May 20, 2015	HH Campus, UOG	250	Training Workshop
20	Qira't & Naat Workshop	May 19, 2015	HH Campus, UOG	150	Training Workshop
21	Pakistani Media & National Integration (CMCS)	May 14, 2015	HH Campus, UOG	250	Seminar
22	GAETEX'15	May 07-13, 2015	Zahoor Ellahi Stadium, Gujrat	35	Represented UOG
23	IST Youth Carnival'15	May 07, 2015	IST, Islamabad		1 <sup>st</sup> Position
24	Loan Scheme Interviews (Ehsan Trust, Karachi)	April 29, 2015	HH Campus, UOG	14	Qarz-e-Hasna Loan Interview
25	IEEE Orientation	Apr 28, 2015	HH Campus, UOG	275	Orientation Session
26	University College Birmingham, Seminar	Apr 27, 2015	HH Campus, UOG	200	Study Seminar
27	Pakistan Computer Society Congress 2015	Apr 25, 2015	GC University, Faisalabad	32	Represented UOG
28	HITECH OLYMPIAD'15	Apr 21-24, 2015	HITECH University, Taxila		1 <sup>st</sup> Position
29	The Literary Festival'15	Apr 21-22, 2015	HH Campus, UOG	250	15 Universities Participated
30	Book Fair' 15	Apr 20-22, 2015	HH Campus, UOG	3000	Annual Book Fair
31	Farewell Party (Qalamkar)	Apr 17, 2015	HH Campus, UOG	70	Farewell
32	SIMORGH Workshop'15	Apr 16, 2015	HH Campus, UOG	200	Training Session
33	MUST Olympiad'15	Apr 10-12, 2015	MUST, Mirpur, AJK	65	04 First Position 03 Second Position 02 Third Position
34	Math Genius'15	Apr 10, 2015	HH Campus, UOG	1530	Math Competition
35	Economics Department Seminar	Apr 10, 2015	HH Campus, UOG	200	Seminar
36	Translation & National Renaissance: Pakistani Context	Apr 09, 2015	HH Campus, UOG	250	Seminar
37	Inauguration Session (SES)	Apr 08, 2015	HH Campus, UOG	150	Society Event
38	Interviewing Skills (SPEAKS)	Apr 07, 2015	HH Campus, UOG	250	Training Workshop
39	Innovatus'15	Apr 06, 2015	HH Campus, UOG	35	Inter-departmental Poster Competition
40	Agri Media Fest'15	Apr 2-3, 2015	University of Agriculture, Faisalabad		1 <sup>st</sup> Position
41	TED <sup>x</sup> University of Gujrat	Apr 02, 2015	HH Campus, UOG	315	International Event
42	Color Therapy (SUFA)	Apr 02, 2015	HH Campus, UOG	220	Seminar
43	Blood Donation Campaign'15 (Sundas Foundation, Gujrat)	Apr 01, 2015	HH Campus, UOG	101	Blood Donation Campaign

44	Inter Society Quiz Competition (HQS)	March 27, 2015	HH Campus, UOG	56	Internal Society Competition
45	International Day of Forests & Tree'2015	Mar 26, 2015	HH Campus, UOG	250	Plantation & Walk
46	Media Fest'15 (GIKI)	Mar 20-22, 2015	GIKI, Swabi, KPK		1 <sup>st</sup> Position
47	17 <sup>th</sup> All Pakistan Declamation Contest, Award of Allama Iqbal Shield-2014 (Round-II)	Mar 05-06, 2015	HEC Regional Office, Lahore	04	Provincial Level Declamation Contest
48	Youth Activation & Capacity Building Training (HAC)	Feb 21, 2015	Mangla Lake & Ramkot Fort, Mangla	65	Training Workshop
49	Bestival'15	Feb 19-22, 2015	Beacon House National University, Lahore		1 <sup>st</sup> Position 03 Catg.
50	FILUMS'15 (LUMS International Film Festival)	Feb 13-15, 2015	LUMS, Lahore		1 <sup>st</sup> Position 03 Catg. (More than 400 films all over the world)
51	3 <sup>rd</sup> Inter-departmental Qira't & Naat Competitiion-2015	Jan 27, 2015	HH Campus	82	Interdepartmental Competition
52	HQS Welcome Party	Jan 23, 2015	HH Campus	150	Oath Tacking Ceremony
53	6 <sup>th</sup> Annual Brand War, SPEAKS	Jan 22, 2015	HH Campus	250	Marketing Training
54	Advanced Research Techniques (ART), SPEAKS	Jan 20-21, 2015	HH Campus	200	Research Training
55	NUKTA'14	Dec 05-08, 2014	PIEAS, Islamabad		1 <sup>st</sup> Position 02 Catg.
56	17 <sup>th</sup> All Pakistan Declamation Contest, Award of Allama Iqbal Shield-2014 (Round-I)	Nov 28, 2014	HH Campus	33	Interdepartmental Declamation Contest
57	5 <sup>th</sup> All Pakistan Tetra-Lingual Declamation Championship-2014	Nov 12-13, 2014	Forman Christian College University, Lahore	03	Represented UOG
58	4 <sup>th</sup> All Pakistan Allama Iqbal Bilingual Declamation Contest-2014	Nov 10-11, 2014	Govt. College University, Lahore	02	Represented UOG
59	Elecxon-2014	Oct 30, 2014	HH Campus	579	Interdepartmental Competitions
60	Farewell Party (HQS)	Oct 24, 2014	HH Campus	150	Farewell Party to the Seniors
61	SIMORGH Seminar	Oct 21, 2014	HH Campus	300	Baseline Questioner

## 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 the 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 Gujarat 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 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 Gujarat 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 Gujarat (Rs million)			
Description	2012-13	2013-14	2014-15
<b>A) Receipts</b>			
Grants in Aid (Higher Education Deptt., Government of Punjab)	68.616	55.804	68.874
Grants in Aid (Provincial Government) Health	-	75.000	150.000
Grant in Aid (Federal Government)	248.817	284.698	333.366
Receipts from all own sources	567.077	632.469	732.572
<b>Total Receipts:</b>	<b>884.510</b>	<b>1,047.971</b>	<b>1284.812</b>
<b>D) Non Development Expenditure</b>			
Pay & Allowances	541.630	594.520	648.150
Other Charges/operating expenses/contingencies etc.	267.787	347.043	301.816
<b>Total Expenditures:</b>	<b>809.417</b>	<b>941.563</b>	<b>949.966</b>

<b>E) Transfer Pension, Endowment etc.</b>	-	<b>105.000</b>	<b>300.000</b>
<b>F) Development Expenditure UOG</b>	7.404	36.148	61.796
<b>Surplus (Deficit) (A-B-C-D):</b>	67.689	(34.740)	(26.950)
<b>University Development Accounts (Govt. Grants ) (Rs Million)</b>			
Receipts (Development Grant received from Govt.) Total	121.00	150.410	133.610
Developmental Expenditure Total	65.018	88.620	161.326

## 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 2014-15, the UOG received Rs 218.874 million from Government of the

Punjab and Rs333.874 million from the Higher Education Commission. These funds were lesser than the UOG's own resources amounting to Rs. 732.572million.

## 12.3 Development Budget

Government of the Punjab allocated Rs133.610 million for their two ongoing 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 and Construction of Multipurpose Hall at UOG funded by HEC. Details of developmental budget year wise are given below:

<b>University Developmental Budget (Government)</b>		<b>Rs in million</b>		
<b>Description</b>	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>	
<b>A) Receipts</b>				
<b>RECEIPTS</b>				
1.Establishment of University of Gujrat	71.000	60.160	94.160	
2. Establishment of NSMC & Uplifting of ABS (DHQ) as Teaching Hospital	50.000	40.000	39.450	
3. Construction of Multipurpose Hall at UOG		50.250	0	
<b>Total Receipts:</b>	<b>121.00</b>	<b>150.410</b>	<b>133.610</b>	
<b>B) Expenditure</b>				

1.Establishment of University of Gujrat	48.046	<b>58.540</b>	<b>93.989</b>
2.Establishment of NSMC & Uplifting of ABS (DHQ) as Teaching Hospital	17.120	<b>29.619</b>	<b>38.337</b>
3. Construction of Multipurpose Hall at UOG		<b>0.461</b>	<b>29.000</b>
<b>Total Receipts:</b>	<b>65.166</b>	<b>88.620</b>	<b>161.326</b>
<b>Balance return to Government or CF to Next Year</b>	<b>55.834</b>	<b>61.790</b>	<b>22.074</b>

## 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 333.366 million and Rs218.874 million, respectively. The details are given below:

<b>Source of Annual Recurring Budget (2014-15)</b>	
<b>Source of Finance</b>	<b>Rs (millions)</b>
Higher Education Commission, Islamabad	333.366
Higher Education Department, Government of the Punjab	218.874

## 12.5 Self-generated Income

The UOG generated income through its own sources i.e. Rs732.572 million during the reporting year (2014-15). 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 2014-15 is as follows:

<b>Sr. No.</b>	<b>University own Sources</b>	<b>Rs (millions)</b>
1.	Academic Fees /charges etc. (all programs)	663.793
2.	Receipts from Examination fees (affiliated colleges, private students etc.)	50.548
3.	Sale of Forms, Bid money and others, etc.	18.231

	Total	732.572
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## Chapter-13

# University Governance

Being 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 IX 2004 (amended), the Syndicate shall be the executive body of the University and subject to the provisions of this Act and Statutes, take 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 2014-15 is as follows:

#### 1) 22<sup>nd</sup> Syndicate Meeting was held on 12-07-2014

**Proceedings:** (04) Agenda items and 07 table agenda items were discussed in this meeting. Details are as under:

#### **Agenda Items:**

1. Opening Remarks and Progress report of the University of Gujrat.
2. Confirmation of Proceedings of 21st Meeting of the Syndicate.
3. Recommendations of the Finance and Planning Committee UOG.

(3.a): Overview of the Budget for the FY 2013-14 including revised budget along with the Statement of Accounts for FY 2013-14 (till May, 2014).

(3.b): Budget Estimates for the FY 2014-15 including increase in number of Posts,

Scholarships, Funds for Students Societies etc.

(3.c): Policy Regarding Deduction of House Rent Allowance from Spouse if living together.

(3.d): Adoption of Benevolent Fund Rule of Government of the Punjab for UOG Employees.

4. Approval of the Actions Taken by the Vice Chancellor under section 14 (4) of UOG ACT IX of 2004.

**Table Agenda Items:**

1. Recommendation of the Selection Board for the Appointment of Teaching Faculty in UOG City Campuses.
2. Grant of Performance Based Increments to the Faculty members recruited under Tenure Track System of HEC.
3. Approval for Affiliation and De-Affiliation of various Colleges.
4. Appointment of Chairperson in the Department of Chemistry.
5. Establishment of University of Gujrat Sub-Campuses in Narowal, Chakwal and Rawalpindi Districts.
6. Miscellaneous Recommendations/ Points Raised by Honorable Member Syndicate, Dr. Ijaz Bashir.
7. Appeal of Prof. Dr. Sajjad Hussain, Principal, Nawaz Sharif Medical College, University of Gujrat under Section 43 of the UOG ACT 2004 against appointment letter issued by the Vice Chancellor dated 31.10.2013.

Initially, the Syndicate confirmed the proceedings of the 21<sup>st</sup> meeting of the UOG Syndicate and then examined the recommendations of the Finance and Planning Committee UOG. The Syndicate also overviewed the budget for the FY 2013-14 including revised budget alongwith statement of accounts up to May 2014. After detailed deliberations, the Syndicate approved: (i) the revised budget along with Statement of Accounts for financial year 2013-14, (ii) Budget Estimates for the FY 2014-15 including increase in number of posts, scholarships, funds for students Societies etc. as per recommendations of the Finance and planning Committee, (iii) Policy regarding deduction of house rent allowance from spouse if living together as per Government letter No.FD.SR.I.3-4/85 (Pt.I) (PR) dated 19<sup>th</sup> April notification, adoption of benevolent fund rules of Government of the Punjab for UOG employees and (iv) actions taken by the Vice Chancellor under section 14 (4)

of UOG ACT IX of 2004. Further, the Syndicate also discussed seven (07) table agenda items and also award approval for (i) Appointments of teaching faculty in UOG City Campuses as per recommendations of the Selection Board, (ii) grants of one performance based increment to the faculty members recruited under tenure track manual/rules of HEC, (iii) affiliation of two (02) new colleges and de-affiliation of eight (08) colleges, (iv) appointment of Dr. Shahzad Murtaza, Associate Professor, as Chairperson Department of Chemistry for a period of 03 years, and (v) establishment of three (03) UOG Campuses, i.e., Narowal, Chakwal and Rawalpindi. Lastly, the Syndicate constituted a committee for examining the suggestions proposed by Dr. Ijaz Bashir, Syndicate member and formulate working plan keeping in view of ground realities and implications of the proposal and also forward the appeal of Principal, NSMC for forthcoming meeting of the Syndicate with comprehensive report in the light of recommendations of the relevant Selection Board.

## **2) 23<sup>rd</sup> Syndicate meeting was held on 24-09-2014**

Four (04) Agenda items and six (06) table agenda items were discussed in this meeting. Details are as under:

1. Confirmation of Proceedings of 22nd Meeting of the Syndicate
2. Approval of the Action Taken by the Vice Chancellor under section 14(3) of UOG ACT IX of 2004.
3. Recommendations of the Selection Board for the Appointment of Academic and Administrative staff.
4. Approval of Recommendations of 3<sup>rd</sup> Meeting of UOG Academic Council.

### **Table Agenda Items:**

1. Confirmation of Services and posts of UOG Employees appointed on regular basis in University of Gujrat.
2. Replacement of one University Teacher in Affiliation Committee.
3. Affiliation and Disaffiliation of Colleges with UOG.
4. Fee Exemption for University Employees, their spouse and children.
5. Report of the Committee Constituted to Examine Suggestions of Dr. Ejaz Bashir (member syndicate).
6. Award of Charge of Principal in the UOG City Campus, G.T Road Gujrat.

### **Proceedings:**

Initially, (i) the Syndicate confirmed the proceedings of the 22<sup>nd</sup> meeting of the UOG Syndicate and then awarded approval of: (ii) actions taken by the Vice Chancellor under section 14 (4) of UOG ACT IX of 2004 in the best interest of the university, (iii) Appointment of Academic and Administrative staff, and (iv) Recommendations of 3rd meeting of UOG Academic Council. Further, the Syndicate also discussed six (06) table agenda items, wherein (i) confirmed the services and posts of UOG employees appointed on regular basis and also award approval for (ii) nominated Dr. Zahid Yousaf , Assistant Professor in Mass Communication as member of the Affiliation Committee in exercise of power vested in section 22(2) (xx) of UOG Act IX of 2004, recommendations of the Affiliation Committee, total fee exemption shall be given to only one child of UOG employees ( BPS-2 to BPS-16) and full tuition fee waiver shall be given to one Child of UOG employees (BPS-17 and above ) in regular Academic Programs of UOG and 75% tuition fee waiver in case of self-sponsored / evening /weekend Programs in all Campuses, final recommendations of the Committee after having feedback from the stakeholders be presented before the house in its subsequent meeting, and appointment of Mr. Muhammad Arif, Additional Director QEC (BPS-19) as principal (BPS-20) UOG City Campus, GT Road, Gujrat.

### **3) 24<sup>th</sup> Syndicate Meeting was held on 08-04-2015**

Twenty-five (25) Agenda items and 06 table agenda items were discussed in this meeting. Details are as under:

1. Implementation Report of 23rd meeting of the Syndicate.
2. Approval of the actions taken by the Vice Chancellor under section 14 (3) of UOG Act IX of 2004.
3. Fee Refund Policy at the Time of Admissions.
4. Approval to Publish/Print UOG Annual Report 2012-13 and Fact Book 2013-14.
5. Late Registrations of Affiliated Colleges.
6. Nomination for Redressal of Grievances Committee.
7. Advance Increments on the basis of first division.
8. Special Examination due to loss of Answer Sheets.
9. Conveyance allowance.
10. Special Incentives for the UOG employees serving at campuses out of Gujrat
11. Implementation of 3% employment quota for disabled persons
12. Probation period of UOG faculty/staff selected in 2014

13. Establishment of College of Veterinary Science and Livestock Management (as constituent part of UOG)
14. Full fee refund to the admission applicants in Department of Commerce
15. Delegation of Authority to Sanction belated / time barred claims of expenditure related to previous financial years
16. Establishment of Board of Trustees for Safe
17. Compensations for hostel staff
18. University of Engineering and Technology, Lahore, Entry Test Remuneration
19. Adoption of Model Tenure Track Process Statutes
20. Nomination of members of the Selection Board
21. Revision of Tuition Fee for the students of MBBS, Nawaz Sharif Medical College, UOG
22. Request to waive off the fine against late submission of Examination Fee
23. Recommendations of the Selection Boards held on 2nd, 3rd, 7th, 27th and 28th march 2015
24. Affiliation and De-affiliation of Colleges
25. Confirmation / Endorsement of the minutes of 4th meeting of the Academic Council

**Table Agenda items:**

1. Matters pertaining to the salary package and deductions of Principal, Nawaz Sharif Medical College, University of Gujrat
2. Deliberations on Daily Wage Rates and Payment to the Staff working on Weekends
3. Consideration of admission of Fall-2013 as Spring-2014 for PhD program in Department of Chemistry
4. Audit Observation - Audit Report 2010-2014 (para no. 24 & 40)
5. Establishment of the Guest House / Camp Office in Lahore and Rawalpindi
6. Promotion cases of 5 Assistant Registrars (BPS-17) to the ranks of Deputy Registrars (BPS-18) and 01 Assistant Controller of Examinations (BPS-17) to Deputy Controller of Examinations (BPS-18)
- 7.

**Proceedings:**

Initially, (i) the Syndicate confirmed the proceedings of the 23<sup>rd</sup> meeting of the UOG Syndicate and then awarded approval of: (ii) actions taken by the Vice Chancellor under section 14 (4) of UOG

ACT IX of 2004 in best interest of the university, (iii) fee refund policy at the time of admissions, (iv) to publish/print Annual Report 2012-13 and Fact book 2013-14 in exercise of powers vested in section 22 (2) (iii) of UOG Act IX of 2004, (v) to cease the consequences of late registration for this particular case i.e. one time waiver in double fee and allowed to charge Rs 100 per candidate only as a token of fine. Further, the powers in this regard are delegated to the Vice Chancellor. In addition to above it was also decided that strict disciplinary action be taken against the Principals concerned, letter of displeasure be written to them and the HED be informed about the negligent behavior of the Principals, (vi) nominated Prof Maqsood Akhter, Principal Punjab College, Jalalpur Jattan, Gujrat as a member to redressal of grievances committee, (vii) award advance increments in accordance with UOG Service Statutes, (viii) decision taken by the Vice Chancellor regarding special examination due to loss of answer sheets, (ix) Conveyance Allowance shall be given to all employees after deduction transportation charges as per Government directions/policy and UOG Service Statutes, (x) special incentives for the UOG employees serving at campuses out of Gujrat with rates, i.e., BPS-16 and below 8,000 PKR per month, BPS-17 to BPS-18 12,000 PKR per month and BPS-19 and above 18,000 PKR per month, (xi) 3% employment quota for disabled persons as per Government notification, (xii) the appointment orders may not be substituted and all new appointees, either their previous services at UOG were confirmed or not, have to observe the probation and it is not necessary that the same be written in the appointment letters, (xiii) to establish the College of Veterinary Science and Livestock Management (as constituent part of UOG), (xiv) the Vice Chancellor and delegated such powers to deal matters regarding full fee refund to the admission applicants in future, (xv) delegate its powers in this regard to the Vice Chancellor under section 22(2) (i) read with section 22(2) (xxvii) of UOG Act IX of 2004 to sanction time barred claims of development and operational expenditure related to previous financial years, (xvi) for establishment of Board of Trustees for SAFE, (xvii) to compensate by the provision of allowances/benefits on meritorious grounds with rates, i.e., Hostel Wardens @ Rs. 10,000/month, Coordinators @ Rs. 6,000/month and Deputy Wardens @ Rs. 5,000/month, (xviii) to the payment of remuneration for performing duty regarding entry test of University of Engineering and Technology, Lahore., (xix) to adopt the Version 2.0 of Model Tenure Track Process Statutes of HEC till formulation and approval of TTS Statutes of UOG, (xx) to appoint the two members for UOG Selection Board, (xxi) to enhance the fee of the students of Nawaz Sharif Medical College, (xxii) the action taken by the Vice Chancellor and delegated

powers in this regard to the Vice Chancellor to waive off the fine against late submission of examination fee, (xxiii) the recommendations given by the Selection Board in its meetings held on 2nd, 3rd, 7th, 27th and 28th March 2015 in exercise of powers vested under Section 22 (2) (xvii) of UOG Act IX of 2004 read with section 7 (1) of the First Statutes (Section 52) of the act ibid, (xxiv) the recommendations of the Affiliation Committee, (xxv) the minutes of the 4th Meeting of Academic Council in appreciation of the powers vested under section 22. (2) (xxv) of UOG Act IX of 2004.

Further, the Syndicate also discussed six (06) table agenda items, wherein (i) the Syndicate agreed that the Salary of the Principal be revised as proposed above and the case be forwarded to the Chancellor, University of Gujrat through Higher Education Department for final approval and then (ii) discussed the matter of daily wage rates and payment to the staff working on weekends. It was recommended that the issue be settled in such a way that the salary of the employees does not decrease. It was further decided that the Treasurer and the Representative of Finance Department shall propose a solution to resolve the matter amicably and present in forthcoming meeting. In addition, the Syndicate also approved the: (iii) consideration of admission of Fall-2013 as Spring 2014 for PhD program in Department of Chemistry, (iv) to regularize the audit Para's, and (v) proposal as stop gap arrangement and recommended to procure a suitable piece of land to construct Camp Offices / Guest Houses in Lahore and Rawalpindi. Lastly, the Syndicate defer the recommendations of the Promotion Board regarding promotion cases of five (05) Assistant Registrars (BPS-17) to the ranks of Deputy Registrars (Bps-18) and 01 Assistant Controller of Examinations (BPS-17) to Deputy Controller of Examinations (Bps-18) for forthcoming meeting.

## 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 3<sup>rd</sup> meeting of the Academic Council was held on 9<sup>th</sup> September 2014. The Vice Chancellor, UOG presided the meeting. Following agenda items were discussed and approved by the Council:

**Agenda Item A:** Confirmation of the proceedings of 2<sup>nd</sup> meeting of Academic Council held on September 28<sup>th</sup>, 2013

**Agenda Item B:** Approval of New Program in the Existing Departments

**Agenda Item C:** Revised Nomenclatures of the Departments

**Agenda Item D:** Re-Constitution/ Re-Organization of Faculties

**Agenda Item E:** Approval of Syllabi and Scheme of Studies

**Agenda Item F:** Approval of External Examiners of B.Des/B.Sc./M.Sc./MS/MPhil and PhD Thesis

**Agenda Item G:** Approval of Admission Policy 2014-2015

**Agenda Item H:** Approval of Merit Scholarship to 1<sup>st</sup> Position holders of UOG

**Agenda Item I:** Approval of Tuition Fee Concession Policy

**Agenda Item J:** Re-visiting the Decision regarding Continuing Education from Associate Degree of Education to B.Ed. (Hons)

**Agenda Item K:** Consideration of Admission of Fall-2013 as Spring 2014 for PhD Program in Department of Chemistry.



## Chapter-14

# 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 with 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 liable to guide and implement future initiatives. During 2014-15, UOG took-up following initiatives and also ensured their implementation:

- i. Introduced/started **PhD program** in more than ten (10) disciplines.
- ii. Appointed more than **One Hundred Teaching Members** at various levels for removing staff deficiency and strengthen academic area.
- iii. Established **Financial Aid Office** for providing scholarships to students according to HEC guidelines.
- iv. Granted **Affiliation More Than Fifteen (15) 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 with UOG amounting to Rs 90.00 million for Master Planning of future academic facilities.
- vii. Initiated process for acquiring 136 Kanal 11 Marla's land in front of UOG Gate No.1 amounting to Rs 198.419 million for the provision of sports facilities for students.
- viii. The Project "**Strengthening & Expansion of University of Gujrat and Its Allied Campuses**" was approved by Central Development Working Party (CDWP) on 28.04.2015. Accordingly, Administrative Approval of this project was issued on 13.05.2015 for Rs.2988.147 Million. The two (02) construction components are included: (i) Strengthening of University of Gujrat and (ii) Establishment of University of Gujrat Sub-Campus at Narowal. The Consultant hiring process for designing of civil work related items are in process for both construction components.

- ix. The work/scheme “**Extension of “P” Block at UOG**” was initiated on the request of Architecture Department amounting to Rs 99.00 million through university own sources for academic purposes and fulfillment of accreditation requirements of PCATP. The tendering process for award of civil work was just completed and the work/scheme will be executed in initial days of next financial year, i.e., 2015-16.
- x. 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 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 work is in progress and will be completed in next financial year, i.e., 2015-16.
- xi. 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 provide additional facilities to the disable persons as well as to study and research sections. Rs 22.00 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 student’s enrollment, infrastructural development and newly launched degree programs in various disciplines. Following initiatives for future planning are as under:

- a) UOG undertakes planning for the expansion of academic infrastructure, 2 to 3 new campuses in different cities, i.e., Narowal, Rawalpindi, Bhakkar, Murree etc. for improving the higher education sector.
- b) Prioritize the projects of research and faculty development.
- c) Construction of faculty residencies and hostels for students.
- d) New Database Center and networking set-up for better IT services.
- e) University of Gujrat will 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.
- f) Plan to install the one Mega Watt Solar Power Plant for domestic energy needs and resource generation through commercial activity.
- g) Prepare strategic plan for UOG for the exigency of the University academia and infrastructural developments. This plan contains the strategies for human resource development and areas of research and development.
- h) Establishment of Business Incubation Centre in next year.
- i) Launch capacity-building program for faculty and staff to improve their skills.
- j) Construction of additional academic facilities, i.e., Labs and Rooms.
- k) Provide Lab equipment’s for faculty of engineering and faculty of Arts under the project “Strengthening & Expansion of UOG and its Allied Campuses”.

- l) Establishment of Botanical Garden for extending research activities as per requirements of Botany Department.
- m) Start PhD Physics Program from Fall-2015 and Stimulation Lab
- n) Department of Computer Sciences' start of MS (Computer Science) as well as PhD program under faculty development program and also Upgradation of existing and establishing new labs.
- o) Center for Media & Communication Studies is planning TV Studio under the Linkage Program (University of Gujrat-Gaylord College of Journalism & Mass Communication Funded by US State Development.
- p) Center for Languages and Translation Studies (CeLT) has planned to start short term courses/certificates in: Spoken English, English for kids, English for Hotel Staff, IELTS (Preparatory Classes), German Language Goethe-Zertifikat A1, French Language DELF A1, Chinese Language Level 1, Machine Assisted Translation, Fundamentals of Acoustic Phonetics, Spanish Language, Japanese Language, Computational Linguistics Speech Processing, Urdu Computational Grammar, Statistical Language Processing and one year PGD Diploma in Translation Studies.
- q) Procure buses and vehicles for students and employees staff for extending transportation circle.
- r) Extend institutional, foreign and industry linkages for extending research and academic cooperation with innovativeness.
- s) Department of Product Design planned to start Associate Degree in Furniture Design.

## 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, out of which Rs.1284 Million have already been utilized. Now, more than 60% work is completed. Currently, the construction work of one (01) student hostel, twenty (20) faculty houses and female faculty hostel are under progress and will be completed in next financial year.

The classes of MBBS started on 13.04.2009 in one dedicated block of university. During 2014-15, one hundred and eight (108) students enrolled in MBBS program. Four Hundred and ninety one (491) total number of 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 health facilities in remote areas for dealing with patients, who belong to two categories i-e Outdoor cases and Emergency cases. Presently, Seven (07) Basic Medical Sciences Departments and Sixteen (16) Clinical Sciences Departments are operational in medical college. The Pakistan Medical & Dental Council awarded FCPS training for MBBS doctors in various clinical departments. Following are the key facilities available at NSMC, UOG:

#### A) Health 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. Towards the end of 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 providing highly advanced and rare diagnostic laboratory tests including molecular diagnostic tests. Advance Research & Diagnostic Lab are 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. Details of lab facilities areas are as below:

- Biochemistry Laboratory
- Advance Resarch & Diagnostic Laboratory
- Pathology Laboratory
- Physiology Laboratory
- Histology Laboratory
- Pharmacology Laboratory
- Forensic Laboratory
- Gross Anatomy Laboratory (Dissection Hall)