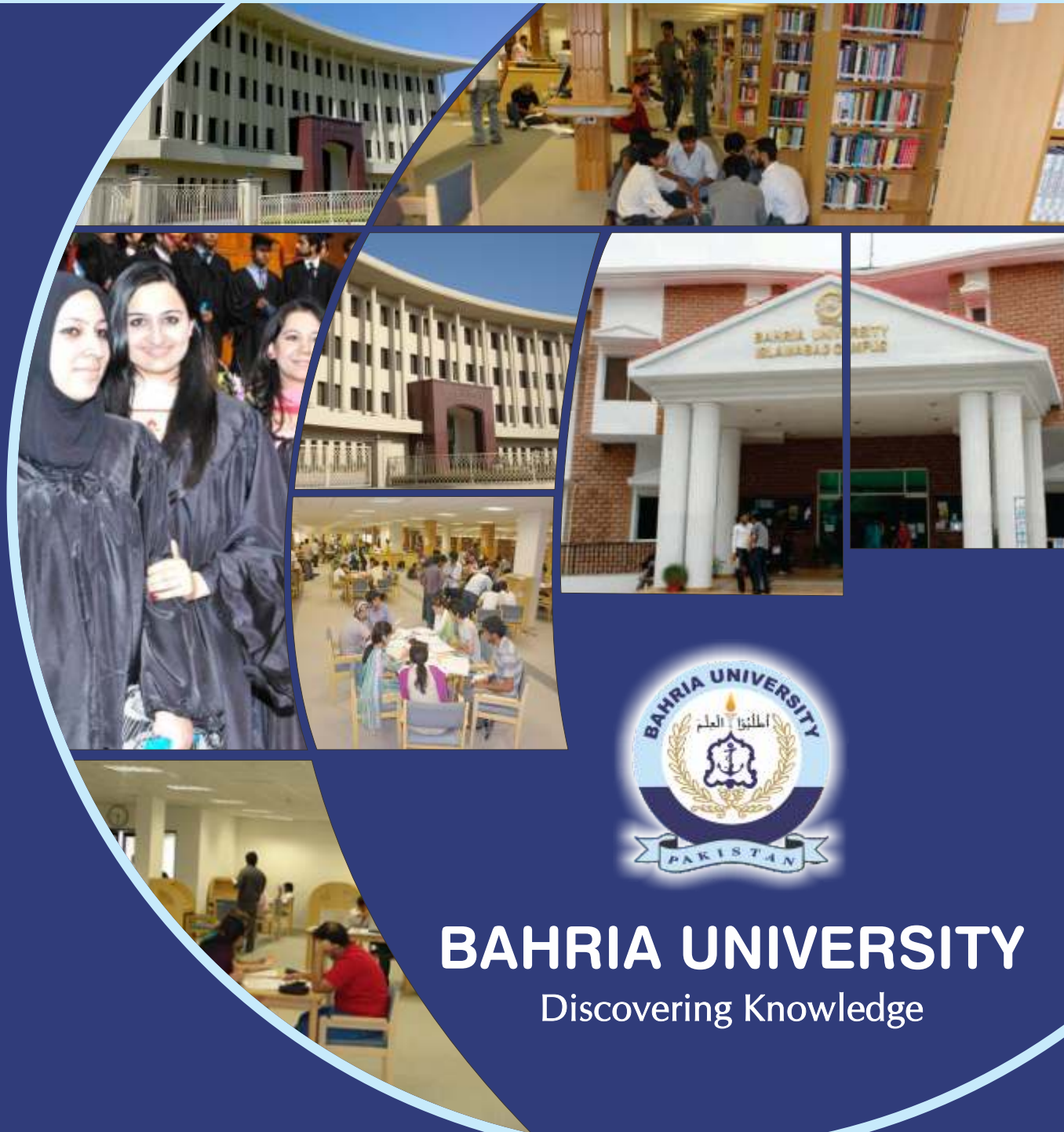


ANNUAL REPORT 2015-16



BAHRIA UNIVERSITY
Discovering Knowledge

ANNUAL REPORT 2015-16



BAHRIA UNIVERSITY
Discovering Knowledge

Directorate of Quality Assurance Bahria University
Head Office, Shangrilla Road, Sector E-8,
Islamabad, Pakistan

LIST OF ABBREVIATIONS

ACM	Academic Council Meeting
ACSE	Asian Council of Science Editors
APQN	Asia Pacific Quality Network
AQAIIW	Association of Quality Assurance Agencies of the Islamic World
ACU	Association of Commonwealth Universities
AGI	Askari General Insurance
AT	Assessment Team
BJPP	Bahria Journal of Professional Psychology
BOG	Board of Governors
BU	Bahria University
BUHQ	Bahria University Headquarters
BUIC	Bahria University Islamabad Campus
BUJICT	Bahria University Journal of Information & Communication Technologies
BUKC	Bahria University Karachi Campus
BULC	Bahria University Lahore Campus
BUM&DC	Bahria University Medical & Dental College
BYTE	Bahria Youth Technothon
CPSP	College of Physicians and Surgeons Pakistan
CPEC	China–Pakistan Economic Corridor
CAC	Corporate Advisory Committees
CNS	Chief of Naval Staff
DQA	Director Quality Assurance
PGP	Post Graduate Programs
DBOS	Departmental Board of Studies
EFU	Eastern Federal Union
ERC	Ethical Review Committee
FDA	Faculty Development Academy
FBOS	Faculty Board of Studies
FDRC	Faculty Departmental Research Committees
GMJACS	Global Management Journal for Academic & Corporate Studies
HEC	Higher Education Commission
HEI	Higher Education Institutes
HERC	Higher Education and Research Committee

LIST OF ABBREVIATIONS

INQAAHE	The International Network for Quality Assurance Agencies in Higher Education
IOT	Indigenous on Campus Training
IPP	Institute of Professional Psychology
JBUMS	Journal of Bahria University Medical Sciences
JLSP	Journal of Law and Social Policy
KDU	Kotelawala Defence University
MIC	Microsoft Innovation Centre
MTC	Maritime Technologies Complex
NCEG	National Center of Excellence in Geology
NADRA	National Database and Registration Authority
NDU	National Defence University
NESCOM	National Engineering and Scientific Commission
NUST	National University of Sciences and Technology
NMS	National Maritime Seminar
NCMPR	National Centre for Maritime Policy Research
ORIC	Office of Research, Innovation & Commercialization
PDC	Professional Development Centre
PITB	Punjab Information Technology Board
PCTN	Pakistan Chapter of Talloires Network
PEC	Pakistan Engineering Council
PERN	Pakistan Education and Research Network
PM&DC	Pakistan Medical and Dental Council
QA	Quality Assurance
QAA	Quality Assurance Agency
QPSP	Quality and Productivity Society of Pakistan
QEC	Quality Enhancement Cell
RIU	Riphah International University
SECP	Securities and Exchange Commission of Pakistan
SAR	Self-Assessment Report
HALP	Huawei Authorized Learning Partnership
UNIDO	United Nations Industrial Development Organization
UOG	University of Gujrat
USEF	United States Education Foundation

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BAHRIA UNIVERSITY





Rector's Message

It gives me immense pleasure to reflect upon the significant advancement made by Bahria University through its Annual Report. The report intends to feature the noteworthy accomplishments of Bahria University in areas of academic, research and social improvement in the year 2015-2016. Our success as a University depends on developing a culture and environment that attracts new students and staff and supports their talent, creativity and commitment.

Bahria University continues to grow rapidly pursuing the vision of being an internationally recognized institution. This is being achieved through improvement in the academic and research policies and facilities; having strong presence in three of the largest cities in Pakistan, with an ever growing student community and a wide variety of disciplines. A number of new programs have been started after obtaining NOC from HEC.

Review of rules and procedures has brought about number of measures to enhance academic quality and standards. Further enhancement in research is being focused through induction of PhD faculty, up gradation of labs, dedicated PG Directorate, incentives to faculty members for higher education and quality publications.

Bahria University has also got a vibrant Office for Research, Innovation and Commercialization (ORIC). Number of short courses have also been undertaken for capacity development faculty, students and professionals. Professional grooming is being focused through changes in curriculum and special courses. Placement and internship is being

given greater emphasis for better employability of our graduates.

Bahria University thrives for a global presence by equipping its students, staff and faculty with the global knowledge and expertise to become a world renowned University. For this the University strives to prepare its graduates to be internationally competent and produce skills that enable them to easily adapt to any global context. To achieve this, the University has over 30+ International partner Universities.

Bahria University, through its strong community support program, stands not just as an emblem of quality education but also of compassion. To extend a helping hand to the society, Bahria University is working in collaboration with various nonprofit and government organizations and this network continues to grow. Apart from a dedicated student support center, a wellbeing center has also been set up to help in mental issues of students, faculty and community in general.

The progress made by Bahria University gives me confidence that its efforts will contribute in nurturing a well-trained and socially conscious generation of future leaders. I would like to thank BOG and other statutory bodies for their support in transforming BU in to a dynamic and progressive organization that is committed to excellence in Higher Education.

Vice Admiral (R) Tanveer Faiz HI (M)

EXECUTIVE SUMMARY

Bahria University, from its inception in the year 2000, strives to be a leading institution for growth, sustainability and development, where our community of students, staff, and faculty demonstrate our ongoing commitment to be innovators and researchers in working to reduce our ecological impact and enhance the university experience for all community members.

The University encourages meaningful participation in the planning and implementation of Bahria sustainability policies, initiatives, projects and practices. At Bahria University we persistently foster the integration of knowledge and issues about sustainability into research, education and application. The past year has seen considerable progress in advancing sustainability at Bahria, by not only bringing an increase in student intake but it has also brought considerable increase in its Ph.D faculty from 67 in 2014 to 88 in 2016, to enhance its Research and innovation paradigms.

To recognize and honour the academic achievement of graduating students Bahria University regularly holds its convocation ceremonies. In the year 2015-16 Bahria University held its 14th and 15th convocation respectively chaired by the Chairman HEC Prof. Dr. Mukhtar Ahmed and President of Pakistan Mr. Mamnoon Hussain. Similarly BUMDC held its 3rd convocation, chaired by Ms. Saira Afzal Tarrar, Minister of State for National Health Services, Regulations and Coordination. She praised Bahria University's ongoing commitment towards excellence in education sector. Karachi Campus also held its 12th convocation on 20th December, 2015. Chief of the Naval Staff, Admiral Muhammad Zakullah NI (M) graced the occasion with his presence.

Through enhancement in academic-industry linkages, collaboration with international research organizations and peer institutions the university has strengthened its research portfolio during the year 2015-16. As a result of our dedicated focus Bahria University has significantly increased its research output. Till date BU faculty has published

1061 journal publications, 548 conference papers and 43 books. With the increased focus on research and innovation there are currently 149 Ph.D scholars enrolled in different programmes at BU. To keep ourselves at competitive level and to increase the university-academia linkages Bahria University signed 7 MOUs with various HEIs at national and international level during the last year.

Professional development of Faculty and Staff is of utmost importance at Bahria University. A new department, (LDC) Leadership Development Center has been established. In the academic year 2015-16 more than ninety five faculty development programs and trainings were conducted at national and international level.

The scholarship policy at Bahria University was revised and implemented. During the FY 2015-16 BU has supported 12% of total student strength under various scholarship categories. As per previous scholarship policy averagely 30% of total university allocated scholarship budget was consumed for merit whereas 70% was utilized for the award of need based scholarship. As per new policy for the FY 2015-16 Bahria University has disbursed 48% under merit and 52% under need based scholarship categories.

To provide carrier opportunities to the passing out students the university has established linkages with the industry. The university provides a platform by holding open house and carrier expo's for student's internships and placements in different organizations. Renowned companies from national and international sector such as Telenor, Soneri Bank, Faisal Bank, Nestle, Attock petroleum and many others, - visited the university and conducted interviews for hiring in their respective organizations.

To inculcate in students the feeling of brotherhood the university involves students in community support programs. In this regard Lettus Bee Kids literary program was imitated by the university. The BULC has also signed an MOU with CIVITAN, an

association of community service, to establish a general framework to facilitate co-operation between the two parties. The university is also a member of The Pakistan Chapter for Talloires Network, the 13 universities who are members of this; take up collaborative projects of community support in the vicinity of Islamabad.

The university observes various international days like Labor Day, Women's day etc. This is to create awareness among students about the importance of these days. In this context various motivational talks by renowned speakers were held.

Realizing the pivotal role of sports in student's overall development, the university provides ample opportunities to students to participate in different sports events. The university has one of the best gymnasium for this very purpose. Intra and inter sports events are held on regular basis for students physical grooming.

Under the leadership program the students are given a practical experience in various fields. In this regard the Law students went to National Assembly to observe the proceedings of the house. The department also arranges internships as it is mandatory in the five years of LLB.

In the same context of Leadership program the EE department also conducted a series of seminars. Certain workshops were held for faculty development also like RF energy harvesting, Introduction and research challenges etc. Under the

same program certain extracurricular activities were held like Barbeque festival at BULC and Independence Day celebrations etc. Bahria foundation day was also celebrated in BUIC on 8th February 2016 etc.

Bahria University has always been very concerned about health of its employees. For this purpose a sick bay facility is available for students, all its staff, faculty and officers. A qualified doctor is there to deal with emergency situations also. Bahria University has also the provision of health insurance to give relief to its employees and their families from the worries of unexpected diseases/ailments, surgery and out patients care.

Another facility which the university has provided to the faculty is the day care centre. The university believes that when the teachers are stress free they can perform better. The progress made by the Bahria University during the year shows high-level commitment, dedication and support from all the officers, staff members, students, faculty members, administration and especially the top management.

I am sure, In-Sha-Allah Bahria University will keep preparing our youth to become future leaders, professionals and managers for prosperous Pakistan.

FAZAL WAHAB

Director Quality Assurance

ABOUT BAHRIA UNIVERSITY

Bahria University is a Federally Chartered Public Sector University which was established on 7th February 2000 through a Presidential Ordinance. It is a multi-campus institution of higher education, which is committed to attain the highest standards in teaching, learning and research, compatible with global requirements of practicing different

professions. The University is widely recognized for preparing professionals, to assume roles as future leaders and to become good executives/managers through development of their physical, mental, moral and professional competence. The enrollment of students has crossed 15,000 in the campuses located in Islamabad, Karachi and Lahore.



CONSTITUENT UNITS

**BAHRIA UNIVERSITY
Islamabad Campus,
ISLAMABAD**

**BAHRIA UNIVERSITY
Karachi Campus,
KARACHI**

**BAHRIA UNIVERSITY
Medical & Dental College
KARACHI**

**BAHRIA UNIVERSITY
Institute of Professional
Psychology, KARACHI**

**BAHRIA UNIVERSITY
National Center for
Maritime Policy Research,
KARACHI**

**BAHRIA UNIVERSITY
Lahore Campus,
LAHORE**

Vision

“To become an internationally recognized university that contributes towards the development of nation through excellence in Education and Research.”

Mission

“To remain committed to the attainment of highest standards in teaching, learning and research, at par with the international Standards & Criteria”.



Objectives

In pursuing this Mission the University has following objectives:

- Establishing Campuses, Research Institutes and Colleges throughout Pakistan.
- Preparing the younger generation to become future leaders, professionals and managers for a prosperous Pakistan, through development of their physical, mental, moral and professional strengths.
- Ensuring academic excellence through quality education in disciplined and peaceful learning environments.
- To offer students the benefits of successfully meeting the intellectual challenge, and to nurture skills and qualities they need for their professional careers ahead and to enable them to achieve their full potential as individuals.
- Constantly monitoring and upgrading facilities and updating the curricula to keep pace with the emerging trends and technologies.
- Coordinating and providing facilities for exchange of knowledge and applied research in the newly emerging fields in collaboration with national and international Universities and research institutions.



STRATEGIC GOALS

Excellence in Education

The aim is to offer students a transformational educational experience, encompassing both the academic and the co-curricular activities, which provides them with the opportunity to fulfill their potential as successful professionals in life.

Excellence in Research

The aim is to develop and sustain an environment where research is viewed and practiced as a primary function that will subsequently contribute towards the vitalization of teaching, by discovery of new knowledge, and improving people's life in our country and abroad.

Excellence in Global Reach

The aim is to thrive for a global presence by equipping students, staff and faculty with the global knowledge and expertise to become a world renowned university.

Engaging with Business/ Industry

The aim is to maximize the impact of our excellence in education and research by engaging effectively with business/ industry in a way that benefits staff, students, faculty and alumni to provide sustainable growth in our income from government and non-government sources

Excellence in Social Integration

The aim is to commit our self towards development of our local communities, and foster an environment where the staff, students and faculty see themselves as part of the larger, global community.

Improving & Ensuring the University's Financial Security

The aim is to enhance existing income streams and develop diversified means of income generation for the financial sustainability of the university.



CHAPTER - 1

Academic Activities

Academic Programs

Undergraduate and Postgraduate Programs

Bahria University offered the following undergraduate and postgraduate programs at its different campuses/faculties during 2015-2016:

Department of Management Science (Islamabad, Karachi & Lahore Campus)		
Undergraduate		
BBA		4 Years
BS Accounting & Finance		4 Years
Postgraduate		
MBA	Business Administration	3½ Years
MBA	Business Administration	2 Years
MBA	Business Administration	1½ Year
MBA	Logistics & Maritime Management (Weekend)	3½ Years
MBA	Logistics & Maritime Management (Weekend)	2 years
MBA	Logistics & Maritime Management (Weekend)	1½ Year
MBA	Business Administration (Weekend)	3½ Years
MBA	Business Administration (Weekend)	2 Years
MBA	Business Administration (Weekend)	1½ Year
MBA	Pharmaceutical Business Management	3½ Years
MBA	Pharmaceutical Business Management	2½ Years
PGD	Pharmaceutical Business Management	1 Year
MBA	Health Management	2½ Years
MPM	Master in Project Management (Weekend)	1½ Year
MS Fin	Master in Finance	1½ Year
M.Phil.	Management Science	2 Years
MS SCM	Master in Supply Chain Management	2 Years
Ph.D.		
Ph.D.	Management Sciences	3 Years

Department of Computer Engineering (Islamabad & Karachi Campus)		
Undergraduate		
BS	Computer Engineering	4 Years
Postgraduate		
MS	Computer Engineering	2 Years
Ph.D.		
Ph.D.	Computer Engineering	3 Years

Department of Software Engineering (Islamabad & Karachi Campus)		
Undergraduate		
BS	Software Engineering	4 Years
Postgraduate		
MS	Software Engineering	2 Years
Ph.D.		
Ph.D.	Software Engineering	3 Years

Department of Computer Science (Islamabad, Karachi & Lahore Campus)		
Undergraduate		
BS IT	Computer Science	4 Years
Postgraduate (Islamabad & Karachi Campus)		
MS	Computer Science	1½ Years
MS	Telecom & Networking	
Ph.D.		
Ph.D.	Computer Science	3 Years

Department of Earth & Environmental Sciences (Islamabad & Karachi Campus)		
Undergraduate		
BS	Geology	4 Years
BS	Geophysics	4 Years
BS	Environmental Sciences	4 Years
Postgraduate		
MS	Geology	2 Years
MS	Geophysics	2 Years
MS	Environmental Sciences	2 Years
MS	Environmental Policy & Management	2 Years
Ph.D.		
Ph.D.	Environmental Sciences	3 Years

Department of Law (Islamabad Campus)		
Undergraduate		
LLB	Law	5 Years

ACADEMIC ACTIVITIES

Department of Humanities & Social Sciences (Islamabad Campus)

Undergraduate		
BS	Social Sciences	4 Years

National Centre for Maritime Policy Research (Karachi Campus)

Undergraduate		
Diploma	Logistics & Port Management	4 Years
Postgraduate		
PGD	Logistics & Port Management (weekend)	1 Year
EMBA	Logistics & Port Management (weekend)	2 Years
MBA	Logistics & Port Management (weekend)	2 Years

Department of Electrical Engineering (Islamabad & Karachi Campuses)

Undergraduate		
BEE	Electrical Engineering	4 Years
Postgraduate		
MS	Electrical Engineering	2 Years
Ph.D.		
Ph.D.	Electrical Engineering	3 Years

Medical & Dental College (Karachi Campus)

Undergraduate		
BDS	Dental	4 Years
Postgraduate		
MBBS	Medicine	4 Years

Institute of Professional Psychology (Karachi Campus)

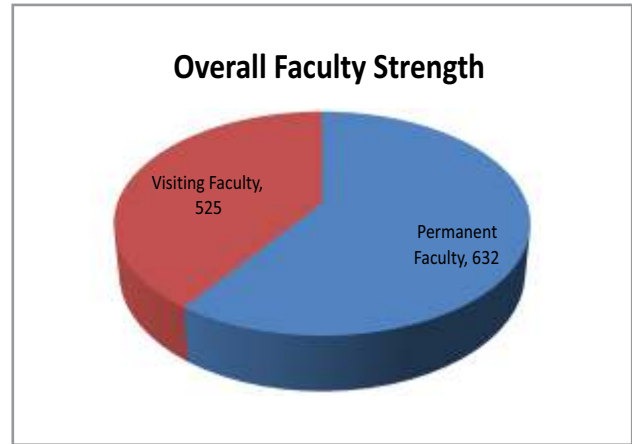
Undergraduate		
BS	Psychology	4 Years
Postgraduate		
PMD	Post Magistral Diploma (Clinical Psychology)	1½ Year
PMD	Post Magistral Diploma (Educational Psychology)	1½ Year
PMD	Post Magistral Diploma (Organizational Psychology)	1½ Year
MS	Clinical Psychology (Isb campus)	2 Years
M.Phil.	Clinical Psychology	2 Years
M.Phil.	Educational Psychology	2 Years
M.Phil.	Organizational Psychology	2 Years
Ph.D.		
Ph.D.	Clinical Psychology	3 Years
Ph.D.	Educational Psychology	3 Years
Ph.D.	Organizational Psychology	3 Years



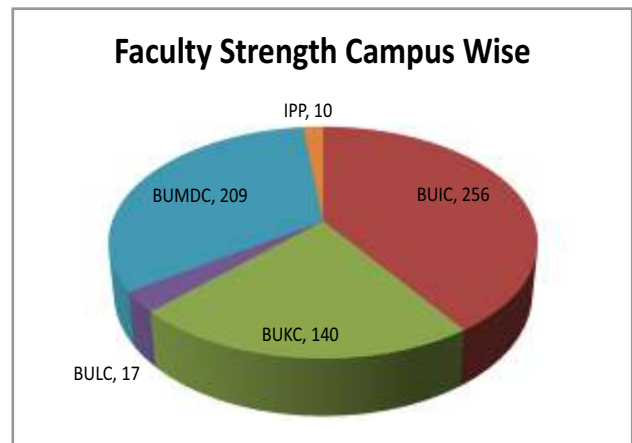
Faculty

The details of overall faculty strength 2015-16 at BU as under:

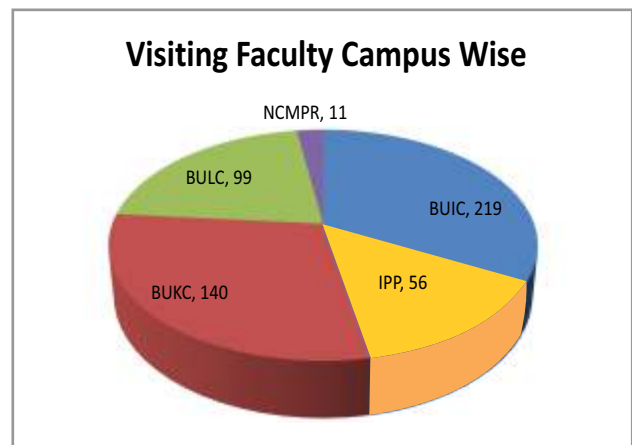
Overall Faculty Strength	
Permanent Faculty	632
Visiting Faculty	525
Total	1193



Faculty Strength Campus Wise	
BUIC	256
BUKC	140
BULC	17
BUMDC	209
IPP	10
Total	632

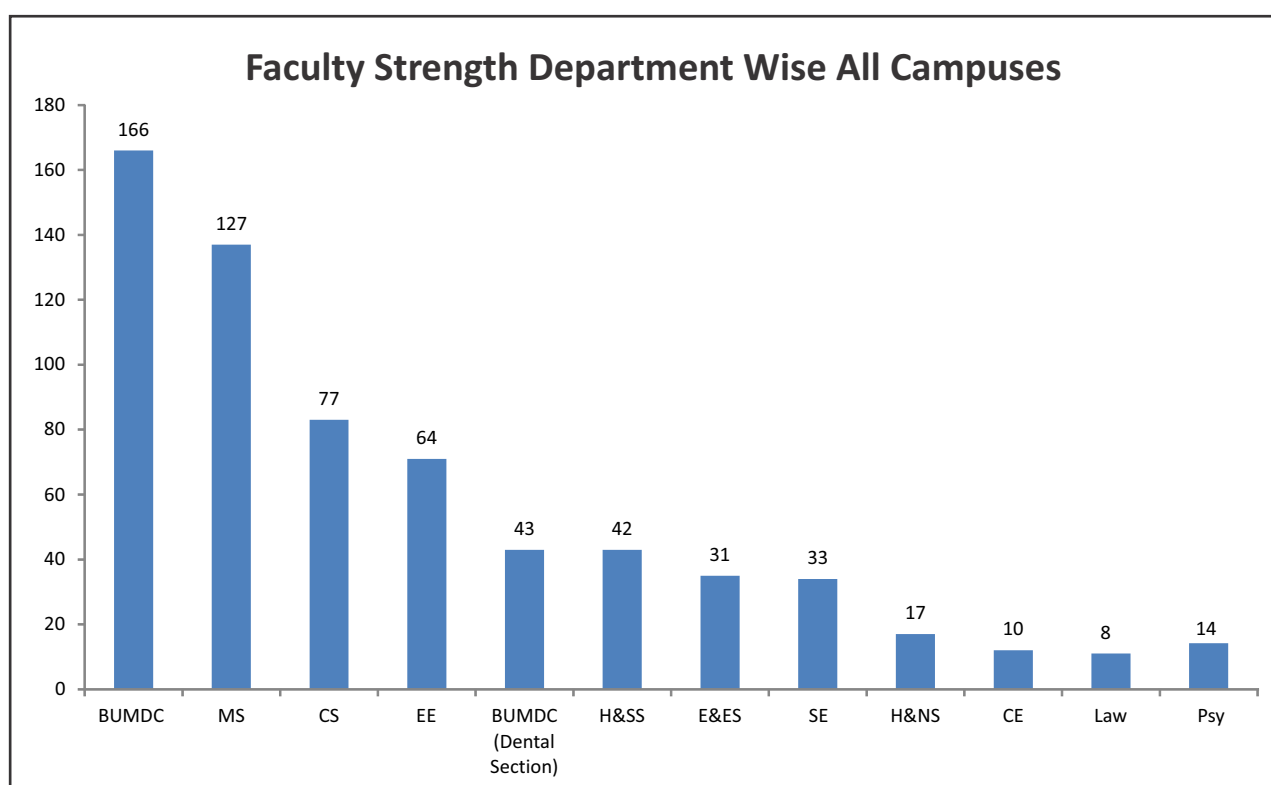


Visiting Faculty Campus Wise	
BUIC	219
BUKC	140
BULC	99
IPP	56
NCMPR	11
Total	525



Faculty Strength Department Wise All Campuses

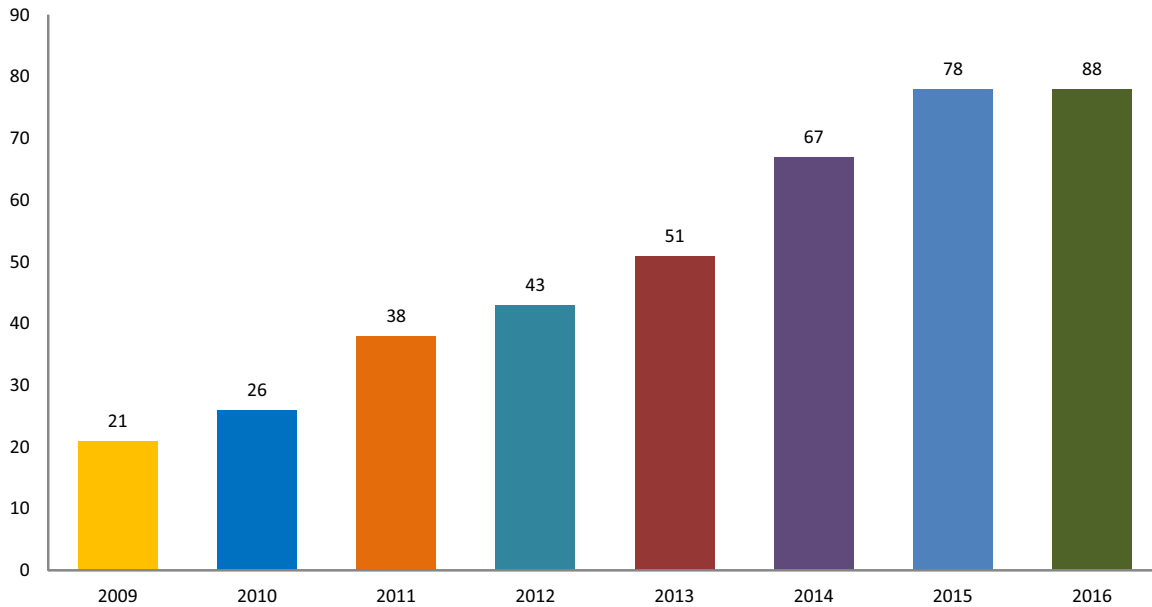
Faculty Strength Department Wise All Campuses	
BUMDC	166
Management Science	127
Computer Science	77
Electrical Engineering	64
BUMDC (Dental Section)	43
Humanities & Social Science	42
Earth& Environmental Science	31
Software Engineering	33
Humanities & Natural Science	17
Computer Engineering	10
Law	8
Psychology	14
Total	632



Ph.D Faculty - Year Wise Progress

Ph.D Faculty - Year Wise	
2009	21
2010	26
2011	38
2012	43
2013	51
2014	67
2015	78
2016	88

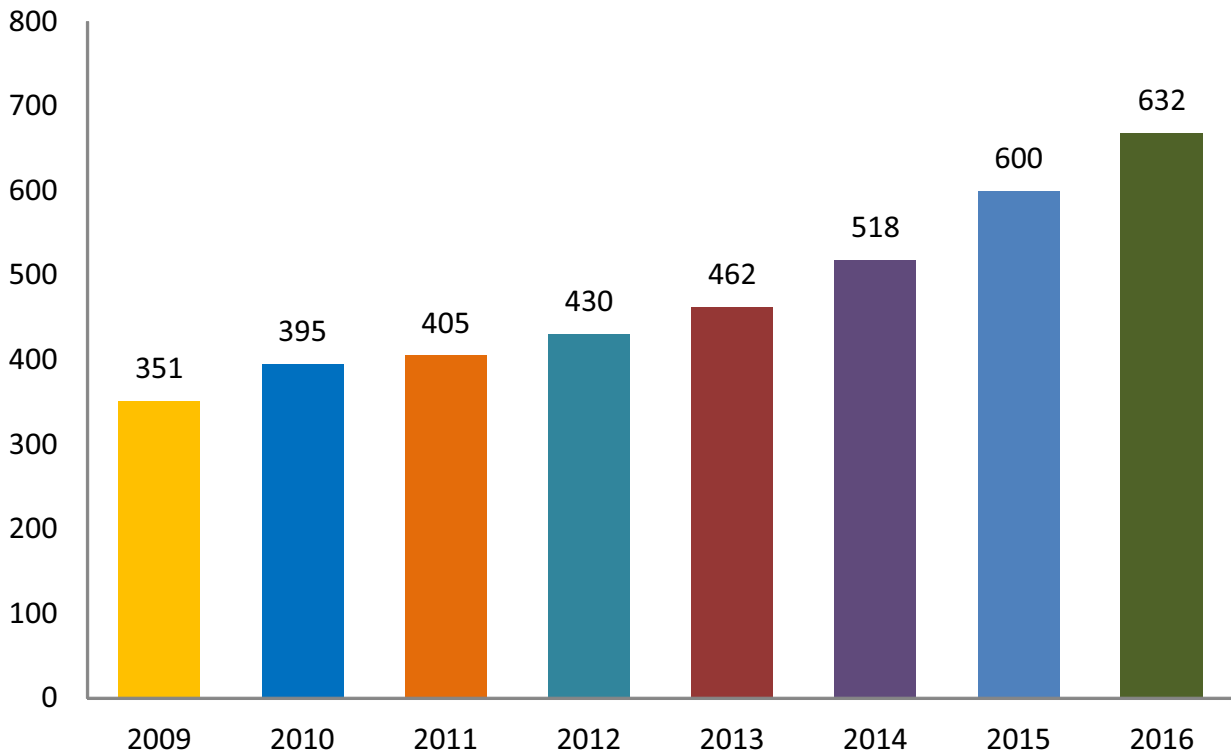
Ph.D Faculty - Year Wise Progress



Permanent Faculty Strength – Year Wise

Permanent Faculty Strength	
2009	351
2010	395
2011	405
2012	430
2013	462
2014	518
2015	600
2016	632

Permanent Faculty Strength



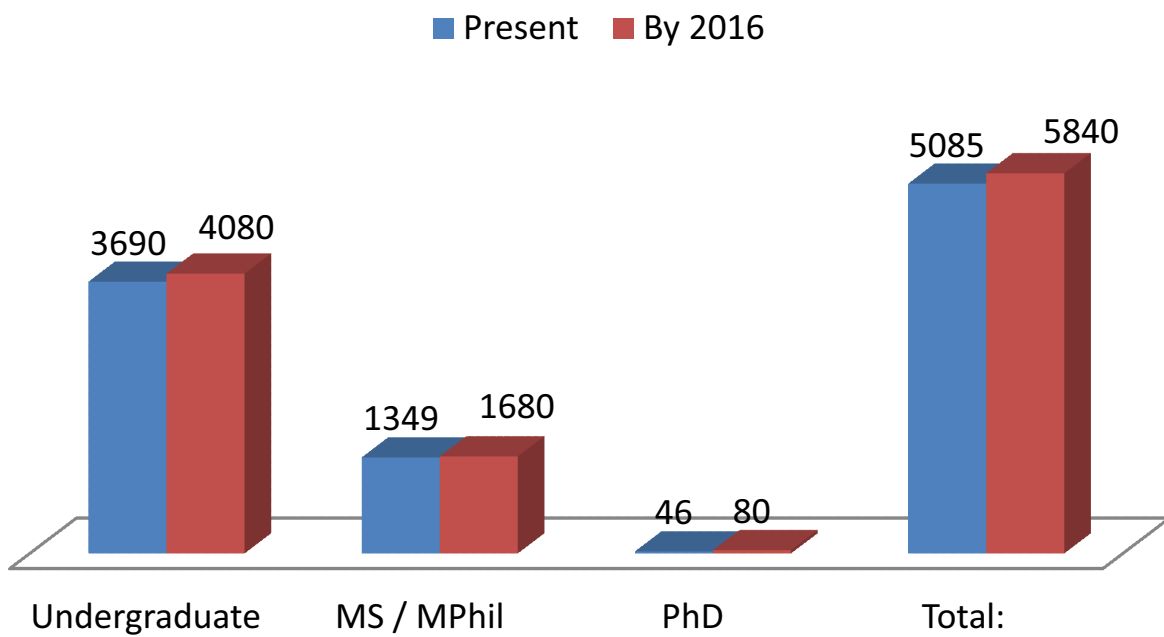
Students Strength

STUDENTS

CATEGORY-WISE STRENGTH

1. The present student strength is given below:

Category - Wise annual intake



Category	Present	By 2016
Undergraduate	3690	4080
MS / MPhil	1349	1680
PhD	46	80
Total:	5085	5840

Category wise Annual Intake

Growth in last 5 years

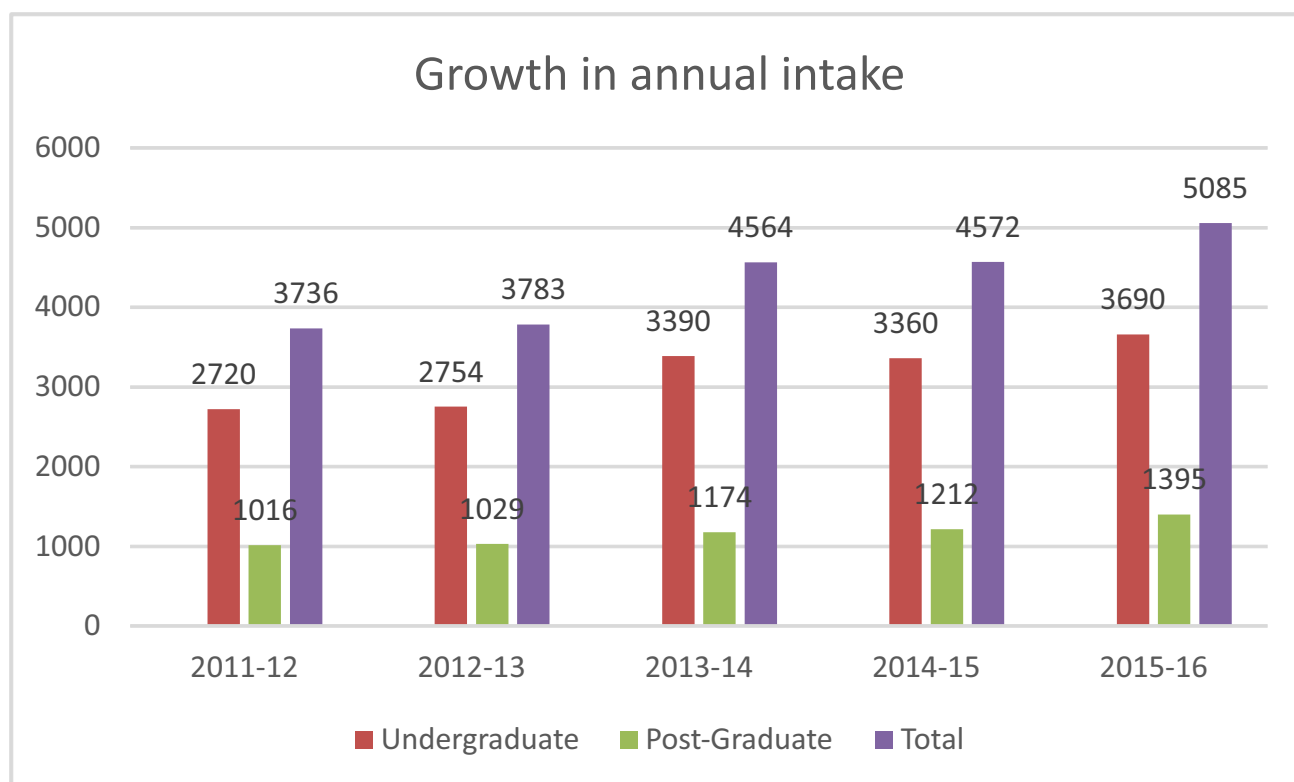
Bahria University annual intake of students has been remarkably increased to 35% since 2010 due to gradual introduction of new programs and inception of a new Campus at Lahore.

Similarly there is a proportional increase in graduate and post graduate level annually. The steady pace enables Bahria University to reach the students intake 5500 by including all programs by the year 2017 in line with vision of the University.

GROWTH IN ANNUAL INTAKE

The annual student intake for the last five years is as under:

Year	2011-12	2012-13	2013-14	2014-15	2015-16
Category					
Undergraduate	2720	2754	3390	3360	3690
Post-Graduate	1016	1029	1174	1212	1395
Total:	3736	3783	4564	4572	5085

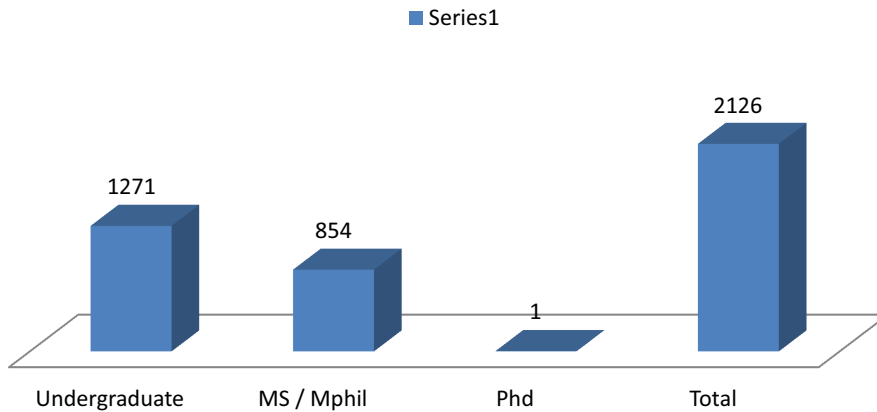


Academic Achievements

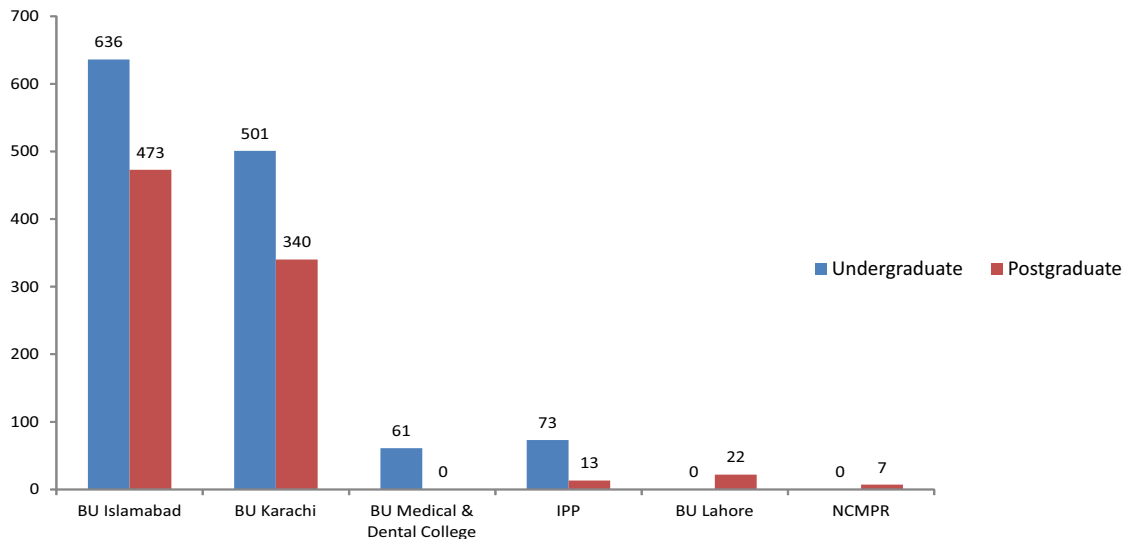
During 2015-16, total number of 2143 students completed their degrees in various undergraduate & postgraduate programs offered by BU. Details are as under:

Degree Program	Graduating 2014-15
Undergraduate	1271
MS / Mphil	854
Phd	1
Total	2126

Graduating Students 2015-16



Campus	Undergraduate	Postgraduate
BU Islamabad	636	473
BU Karachi	501	340
BU Medical & Dental College	61	0
IPP	73	13
NCMPR	0	7
BU Lahore	0	22
Total	1271	855



ACADEMIC ACTIVITIES

ISLAMABAD CAMPUS	
PROGRAM	FINAL TRANSCRIPT
B.S.S	54
BBA	222
BCE	28
BE (ELECTRONICS)	60
BE (TELECOM)	5
BS (ES)	30
BS Geology	60
BS Geophysics	58
BS(CS)	56
BSE	32
LLB	31
Total Undergraduate Output	636
M Phil (MS)	19
M Phil (SC-Anthropology)	2
MBA	272
MS (EE)	23
MS (EPM)	2
MS (ES)	5
MS (FINANCE)	6
MS (PM)	91
MS (SE)	26
MS (TELECOM)	11
MS Geology	4
MS Geophysics	11
Ph D (CS)	1
Total Postgraduate Output	473

BAHRIA UNIVERSITY KARACHI CAMPUS (NCMPR)	
PROGRAM	FINAL TRANSCRIPT
MBA (Mar)	3
PGD (L&PM)	4
Total Output	7

BU LAHORE CAMPUS	
PROGRAM	FINAL TRANSCRIPT
MS (PM)	22
Total Postgraduate Output	22

KARACHI CAMPUS	
PROGRAM	FINAL TRANSCRIPT
B.S.S	5
BBA	304
BCE	1
BE (ELECTRONICS)	80
BS Geophysics	13
BS(CS)	68
BSE	30
Total Undergraduate Output	501
M Phil (MS)	10
MBA	186
MBA (Wkd)	99
MS (EE)	10
MS (ES)	2
MS (PM)	8
MS (SE)	10
MS (TELECOM)	7
MS Geophysics	8
Total Postgraduate Output	340

Institute of Professional Psychology, Karachi	
PROGRAM	FINAL TRANSCRIPT
BS Psychology	73
Total Undergraduate Output	73
M.Phil	6
MS (CP)	1
PMDCP	6
Total Postgraduate Output	15

BAHRIA UNIVERSITY MEDICAL & DENTAL COLLEGE KARACHI	
PROGRAM	FINAL TRANSCRIPT
MBBS	61
Total Undergraduate Output	61

Bahria University Convocations

Bahria University Islamabad Campus Holds 14th Convocation

To honour the academic accomplishment of graduating students, Bahria University Islamabad Campus (BUIC) organized its 14th Convocation Ceremony on 22nd November 2015 at Jinnah Convention Centre Islamabad. Chairman, Higher Education Commission Pakistan Prof. Dr. Mukhtar Ahmed was the Chief Guest for the occasion and conferred degrees upon the graduating students of PhD, Masters and Undergraduate programs.

HI (M) also applauded and wished the graduating students a successful future.

In addition, he valued the presence of Chairman, Higher Education Commission Pakistan on the day. He also stated that the Bahria University has conducive academic environment. It is equipped with state of the art labs and highly qualified faculty for producing quality graduates. He informed that University is diligently working to boost research and development culture in the country. He also acknowledged the role of Higher Education Commission in the promotion of quality education both in public and private sector universities. A



Chairman HEC Pakistan, Rector, Pro-Rector and Registrar BU along with Gold and Silver Medalists on the occasion of 14th Convocation BUIC

Students with phenomenal performance during their whole academic tenure were acknowledged through Gold and Silver Medals. A total of four hundred and twenty-seven students from various disciplines received degrees on this occasion. Twelve Gold and Silver medals were awarded to the best performers. While speaking to the audience, Dr. Mukhtar Ahmed congratulated students and their parents on their splendid success. He also expressed pleasure on the conferment of a PhD degree. Moreover, he appreciated the efforts of Bahria University for providing knowledge to the students, particularly on the subject of research and development. Furthermore, he urged the academia to come forward with strong commitment to play significant role in the nation building process. Earlier in his welcome remarks, Rector Bahria University Vice Admiral (Retd) Tanveer Faiz



Chairman HEC Pakistan conferring degree to a student

large number of students, parents, faculty members and other dignitaries attended this memorable event.

Holding of 12th Convocation by Bahria University Karachi Campus

The 12th Convocation of Bahria University Karachi Campus (BUKC) was held on 20th December 2015. Chief of Naval Staff, Admiral Muhammad Zakauallah NI (M) graced this auspicious occasion as the Chief Guest and conferred degrees upon the graduating students of PhD, Postgraduate and Undergraduate programs. A large number of seven hundred and seventy-eight students of various disciplines were awarded degrees during the convocation. Chief of the Naval Staff, Admiral Muhammad Zakauallah NI (M) along-with Rector Bahria University, Vice Admiral (Retd) Tanveer Faiz HI (M) awarded seventeen Gold and eleven Silver medals to the students who performed exceptionally well and achieved top positions in their departments. While extending his felicitations to all the degree recipients, Admiral Muhammad Zakauallah NI (M) said that the role of universities has become significant in producing productive citizens for prosperous Pakistan. He further added that local universities have to develop strategic partnerships with the other foreign educational institutions for the capacity building and international exposure. He expressed with contentment that Bahria



University is also taking such initiatives tirelessly. He also applauded the endeavours undertaken by the University which will definitely provide BU a competitive edge amongst other institutions. In his welcome address, Rector BU Vice Admiral (Retd) Tanveer Faiz HI (M) expressed his gratitude to the Chief Guest for gracing the ceremony with his presence. He congratulated the graduating students and hoped that they would emerge successful in their careers in this era of competition and become nation builders. He further informed the audience about various leading undertakings of the University for improving the academic environment and curricula to meet the national and international standards. The event was attended by a large number of senior Naval Officers, Industrialists, Businessmen and parents of the graduating students.



The 12th Convocation of the Bahria University Karachi Campus was held on 20 December 2015

Bahria University Medical and Dental College (BUMDC) Karachi holds 3rd Convocation of MBBS Graduates

The Third Convocation of the Bahria University Medical & Dental College, Karachi was held on 8th April 2016 to commemorate the academic accomplishments of its MBBS students. The students were also honored with Gold and Silver Medals and Certificates for their outstanding achievements in their academic career at the convocation held in 2016. Mrs. Saira Afzal Tarar, Minister of State for National Health Services, Regulations and Coordination, as a Chief Guest graced the occasion by awarding the degrees to the graduating students.

In total 91 students were awarded degrees. To acknowledge the outstanding performance of students, Mrs. Saira Afzal Tarar, Minister of State awarded Gold Medal to Ms. Maria Riffat and Silver Medal to Ms. Miznah Hasham Khan. The students who achieved distinction in their respective department were Miznah Hasham Khan, Mahin Amanullah, Maria Riffat, Javeria Faiz, M. Nirman Shahzad, Syeda Yumna Zahra, Dua Mehfooz Memon, Syeda Aniq Jaffery and Warda Zaffar.

While speaking to the students at the occasion, Mrs. Saira Afzal Tarar, Minister of State congratulated the students and their parents on their splendid success and said that the occasion of convocation reflects on the maturity and perfor-

mance of any educational institution. Bahria University Medical and Dental College has already reached a prestigious level of maturity and competency by conceiving and implementing initiatives and academic programs with special focus on grooming and capacity building of the faculty and students. She said that the Government is fully cognizant of the importance of health issues in Pakistan and is endeavoring to remove bottle necks effecting the health sector and the service delivery of healthcare to masses. At the end, she gave a message to graduating students that young doctors should conduct themselves in a manner in practical life that should uphold the traditions of their noble profession and bring good name to their institution and country by serving humanity to the best of their ability.

Earlier in his welcome address, Vice Admiral (Retd) Tanveer Faiz HI(M) said that the universities have great responsibility of producing quality graduates who could contribute positively in various fields. Bahria University has not stopped its journey of academic excellence and it will relentlessly continue to strive for further progress in the field of higher education and research. The University is taking all measures and steps to keep abreast its students with high quality education at par with other reputed medical institutions of the country and abroad. At present the progeny of BUMDC include eight batches of medical and four batches of dental students. BUMDC further extends support to these



The 3rd Convocation of BUMDC was held on 8th April, 2016

passing out young doctors by provision of clinical training as house job and clinical postgraduate programs in various specialties at PNS-SHIFA for their career build up. These programs are recognized by College of Physicians and Surgeons Pakistan (CPS) and Pakistan Medical & Dental Council (PMDC). He further said that Bahria University is committed to provide best possible teaching and learning environment to its students along with infrastructure to the medical college and the teaching hospital.

The Rector Bahria University congratulated the students and their parents and wished them a prosperous future. He also expressed pride that students had strived very hard to acquire knowledge and skills par excellence with international standards.

BAHRIA UNIVERSITY Islamabad Campus HOLDS 15th CONVOCATION

The fifteenth Convocation of the Bahria University Islamabad was held on 11th May 2016 at Jinnah Convention Centre Islamabad to commemorate the academic accomplishments of its students. Students were also honored with Gold and Silver medals for their outstanding achievements in their academic career at the Convocation held in 2016. The President Islamic Republic of Pakistan and the Chancellor Bahria University, Mr. Mamnoon Hussain, The Pro Chancellor Bahria University and the Chief of the Naval Staff, Admiral Muhammad Zakaullah NI (M) and the Rector of Bahria University, Vice Admiral (R) Tanveer Faiz HI (M) graced the occasion with their presence and conferred degrees to the graduating students.

In total 406 students were awarded degrees. President Islamic Republic of Pakistan and the



President of Islamic Republic of Pakistan conferring degree to a Ph.D Scholar

Chancellor Bahria University, Mr. Mamnoon Hussain awarded 20 Gold medals and 18 Silver medals to various students, who achieved top positions in their respective departments. Gold medals and Silver medals were awarded to the students from each discipline to acknowledge their outstanding performance.

While speaking to the students at the occasion, President Islamic Republic of Pakistan and the Chancellor Bahria University, Mr. Mamnoon Hussain congratulated the students and their parents on their splendid success and said that universities and Institutions have gained significant importance to help impart the requisite education and fostering competencies to make productive citizen of Pakistan. Bahria University is taking necessary initiatives required for enhancing educational research activities. Scholarly research work and other forums of creative endeavors are essential for the sustained intellectual growth of any higher educational institution. He said that it is a matter of great satisfaction and encouragement for all of us that university is effectively contributing in building up human resource of the country. Bahria University, through its strong community support programme is working on various projects as an integral activity and linked under graduate degree programmes with community development projects making it mandatory for students to become active in social work. He also appreciated the student's merit and need based scholarship and study loan schemes.





BUIIC hold, its 15th Convocation in 11th May, 2016

Earlier in his welcome address, Vice Admiral (R) Tanveer Faiz HI (M), Rector BU congratulated the students and their parents, and wished them a prosperous future. He said that higher education has now become a tool of economic growth. The universities have great responsibility of producing quality graduates who could contribute positively in various fields for economic growth of the country. Our vision is to prepare our students for the national as well as international market, while maintaining high standards of education. He said that new endeavors undertaken by the management of Bahria University with commitment and determination will yield the best results for all the stakeholders and will definitely provide competitive edge to Bahria University to become the leading University of the country.

He said that university has allocated Rs 33.0 Million for Merit & Need Based Scholarships and Study Loans. HEC has also very graciously provided Rs 9.0 Million for this purpose. Punjab Education Endowment Fund and National ICT R&D Fund under Ministry of IT are also sponsoring number of our students. This will provide an opportunity to students coming from low income background to pursue education in Bahria University.

Honors and Awards

Department of Law, Bahria university contested and won the National Round of ICRC's 8th Henry Dunant IHL Moot court competition, held in August 2015 – stood as champions among the law schools all over

pakistan. Mr. Abdur Rauf Khatana led the BU moot team comprising Saher Masood and Ali Hamdani.



High Achievers

Best Student Researcher Award 2015

Ms. Uzma Jamil, PhD scholar in Department of Computer Engineering, BUIIC working under the supervision of Prof. Dr. Shehzad Khalid received Best Student Researcher Award, Faculty of Engineering, BUIIC. The award was given by Honorable rector Bahria University.

Best Teacher Award by HEC

Dr. Shehzad Khalid, Professor and Head of Department of Computer Engineering, received Best Teacher Award for the year 2015 from Higher Education Commission as well best faculty researcher award, Faculty of Engineering, BUIC. The award was given by Honorable Rector Bahria University.



Dr. Shehzad Khalid receiving the award

Visit of President and CEO of Askari Bank at Bahria University

Mr. Syed M. Husaini, President and CEO Askari Bank along with his delegation visited Bahria University, Islamabad. During his visit, he met with Rector of Bahria University, Vice Admiral (R) Tanveer Faiz HI (M) and shared his views about education and Islamic banking. He offered all the assistance of



Askari Bank in promoting educational activities in collaboration with Bahria University. He offered internship, jobs and establishment of center of Islamic Banking.

While talking to the graduating batch of the Department of Management Sciences Students, he emphasized the importance of values along with knowledge and skill importance for success. The most important values for corporate world are morality, humility and integrity. In his words, "the cornerstone of success is integrity". He also invited the graduating students to apply for posts at Askari Bank as they seek passionate individuals. This lecture was an initiative of Islamic banking services division of Askari bank. Mr. Husaini shared his 30 years valuable experience with the students. The Askari Bank delegation also included Mr. Saleem Anwar, CFO; Mr. Farrukh Iqbal, Group Head Operations; Mr. Ali Hemani, Country Head Marketing and Strategic Planning; Mr. Fahad Waseem, Area Manager Islamic Banking; Mr. Kashif Razi, Branch Manager Islamic Banking; Mr. Abdul Nabi and Mr. Umer Aitizaz. At the end, Registrar Bahria University, Rear Admiral Shahid Saeed HI (M) thanked Mr. Husaini for gracing the occasion and presented the vote of thanks to the President/CEO of AKBL and his team.



Education Expo' 2015

Bahria University participated in 'The News Education Expo 2015' at Islamabad, Karachi, and Lahore to meet the rising demand of quality education and training across the country. The event attracts over 1.5 million aspiring students and their parents in search of reputable institutes for higher education.



To promote the image of Bahria University, Public Relations Office arranged the participation in the News Education Expo 2015. After last year's positive response, Bahria University participated this year again to find best pool of students on 22-24 May 2015 in Karachi, 27 & 28 May 2015 in Islamabad and 30 & 31 in Lahore.



All campuses and constituent units of BU showed their best to elevate the status of university among the visitors of Expo. It helped in programming the New Campus of BU at Lahore.

The underlying objectives of the expo were fully accomplished. The timing was appropriate for Fall 2015 Admissions, as the volunteers on BU applicants. New programs like MS-Finance, MS Project Management, BS-IT and new departments like



psychology in BUIC, CS in BULC were promoted. Participation in Education Expo proved to be fruitful for BU, and resulted in tremendous feedback from the visitors.

Bahria Youth Technothon 2016 - BYTE

Bahria Youth Technothon 2016 (BYTE'16) was a mega event organized by Bahria University Islamabad to provide a platform for the youth to show their talent by competing with each other. BYTE is an initiative taken by the Bahria University Islamabad in order to engage the students of different universities and colleges in healthy academic and non-academic activities. Department of Computer Engineering at BUIC took the lead in



the organization of this event with other departments chipped-in with their support. The aim of this event is to bridge the gap between idea and innovation. With over 2000 young minds coming together in one place from 75 different universities and colleges around the country, the event became a hub of knowledge, ideas, innovation and recreation. The event nurtured the spirit of entrepreneurship and social development. BYTE hosted a total of 26 competitions which were categorized

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into 5 major groups namely Technical, Theme, Open Challenge, Sports and Social events including almost everything.

BYTE'16 event was launched with a magnificent opening ceremony in which Minister for Planning, Development and Reforms, Mr. Ahsan Iqbal, graced the event as Chief Guest. Other distinguished guests included Mr. Salim Rafique DG(Operations) NADRA. The presentation of graphical promos and preparatory videos added colours to the ceremony. The shout outs from technical industry leaders as well as legends from sports and entertainment industries participated in BYTE'16 and highlighted its importance, and scale which motivated the audience. Chief Organizer BYTE'16 Dr. Shehzad Khalid gave an introduction of the overall events and different competitions. Pro-Rector Bahria University highlighted the importance that the Bahria University gives in organization of events like BYTE that fosters a competitive environment both in curricular and extra-curricular domains and enhances both technical as well as soft skills of the students. Prof. Ahsan Iqbal, Minister for Planning, Development and Reforms gave a comprehensive talk to motivate youth to come forward and participate in the nation building activities. He also highlighted the importance of CPEC as an opportu-

nity where the students can be creative enough to generate revenues both for themselves and also for the nation.

A strong emphasis in BYTE was on technical activities, which involved activities such as Project Exhibition, Microcontroller Interfacing, Programming Freak, speed wiring, Mathletics and Robothon. Project Exhibition by itself was complete a project expo which attracted projects both from hardware and software categories. Despite the torrential rain on a given day, 57 projects participated in the exhibition. Leaders from technical industry and CEOs of various companies visited the expo. These included but not limited to DG NADRA, DG NTC, CEO Falcon Engineering, President Computer Society of Pakistan, Chairman and founding members of OSFP, CEO Jotla Technologies (Owner of more than 100 technical companies) etc. The event also included motivational talks by these industrial leaders to the participants guiding them the way forward. The support of National ICT R&D Fund in the organization of technical event was highly acknowledged.

Open challenge events were also organized that included Brain Teaser, X-factor, scavenger hunt, and minute to win it. The open challenge events were targeted towards exposing the talent of individuals



Professor Ahsan Iqbal (Federal Minister) receiving souvenir from Pro-Rector BU

ACADEMIC ACTIVITIES



to a larger audience.

Theme based events were proven to be a good way to seek the hidden talents of the youth. They helped in bringing out the most creative minds dwelling in different alma maters. The theme based events organized during BYTE'16 included photography, poetry, sketching, declamations and e-gaming competitions.

In the time of technology when our youth is unfortunately stuck with gadgets, sports events are the best way to motivate the youth to give their body the respect it deserves. Sports Events included Basketball, Badminton, Futsal, Volleyball and Table tennis. To conduct all these events here at our campus gymnasium, our Byte team spent weeks in planning, scheduling and in the procurement of the necessary equipment.

Last but not the least, social events were organized that included musical concert, entertainment night and spring festival. Spring festival was comprised of attractive game stalls for the students, food corners, rides and shooting area. The festival attracted a lot of audience and became the center of fun related activities. The event came to an end with a night to create a memorial impact. A theme based dinner for all the organizers and winners from each competition was the last treat from us.

In his welcoming address, Rear Admiral Saleem Akhtar HI (M), Pro-Rector of Bahria University said that our university is not only focused on excellence in studies, but also in providing an opportunity to students to groom their personalities through different extracurricular activities. BYTE is one of such activities which was been successful due to tireless efforts of BYTE organizing team.

Large number of Universities and Colleges participated in BYTE to show their talent and win prizes. Over 2000 students from Islamic International University Islamabad, Lahore University of Management Sciences, NUST ,IQRA University, SZABIST, Foundation University, FAST Lahore, Institute of Space Technology, Punjab University, and COMSATS and many other institutes participated in the event.



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The event ended with a graceful closing ceremony. Dr. Ismail Shah, Chairman PTA and CEO ICT R&D fund graced the occasion as a chief guest. Pro-Rector and Registrar Bahria University also graced the event with their presence. The event was attended by organizers, participants of the competitions, representatives from government organizations and industry, Directors Bahria university, Head of Departments and students. The

highlights of the events were displayed on a nicely edited videos of different event. The winners and runner-up of different events were announced and the shields/trophies were given by the chief guest to the winners. NUST was announced as the winner of the event as they had the maximum number of teams coming as winners or runner ups in different events. Bahria University by itself was not eligible for Best University Award being the host university.



Bahria University Holds Open Source Summit 2015

The Department of Computer Engineering at Bahria University Islamabad, in collaboration with Open Source Foundation of Pakistan and Higher Education Commission, conducted a one day summit on Open Source Technologies on 18th Dec 2015.

The aim of this summit was to gather leaders from the IT industry to enhance the linkages between the academia and industry. The industrial delegation met with the Rector Bahria University, Director BUIC, Dean Engineering and HoD Computer Engineering. All parties affirmed their support for the development of Pakistan's economy by efficiently utilizing the resources of IT Industry. A development of a curriculum review committee comprising of leading IT industrialist, technological experts and members from academia proposed to adapt the curriculum of universities which can compete in the global technology landscape.

The summit covered workshops from variety of

open source domains including Cluster Computing, Cloud Computing, Web penetration and Network Security. The summit also included seminars about application of Open Source in Government, freelancing and early education technologies. The guest speakers included leaders from multiple industrial sectors including DG Operations NADRA Technologies Mr. Saleem Rafiq, Mr. Asim Hussain MD PSEB, Brig. Dr. Ashraf Masood Dean MCS NUST, Mr. Tahir Mehmood Chaudry CEO Pakistan Institute of Entrepreneurship, Babar Zahoor Founder OSFP and Jahanzeb Arshad VP Operations NAYATEL.

These IT leaders shared their expertise and knowledge on how to use and develop the Open Source technologies in their keynote speeches. The students from engineering sciences of Bahria University as well as people from different industrial sectors actively participated in the training workshops and seminars.

The event concluded with the note of thanks by Director ORIC Dr. Faisal followed by an award ceremony for the honorable guests.



Participants of open source technologies summit 2015

IEEE Day 2015

IEEE day which is the hallmark of when the members of the American institute of electrical engineers (a predecessor society of IEEE) gathered for the first time to share technical ideas. To raise awareness for future engineers the IEEE BUIC student branch held its very own IEEE day for the students to take part in numerous activities and also to extol the commendable efforts of the IEEE volunteers.

Dean Engineering Sciences Dr. Najam ul Islam started off the day with a ribbon cutting ceremony. The activities started right after, and the students showed exuberant enthusiasm who keenly partici-

pated in the talent show, where the participants demonstrated their funny side apart from the regular and boring studious version. There were number of gaming events like Ludo tournament where students who had skill but most importantly luck had the most chance of winning. Many students participated and had an enjoyable time competing against each other. For video game lovers there were tournaments of FIFA and COD (Call Of Duty) gaming where the gamers had to face off each other in a battle of not only concentration and endurance but also the skill of quick strategies to have an upper hand against their opponent. The day ended with an action packed movie 'The Ant Man'.



BUIC celebrated World Book and Copyright Day

World Book and Copyright day is celebrated around the world with the aim to inculcate, enhance and promote reading cultures among the society. This day was designated by UNESCO as a world celebration day of books and reading, and this was celebrated in over 100 countries all over the world. To

celebrate this day and to promote reading culture, awareness and importance of reading among students, faculty members Bahria University Islamabad Campus organized different activities and events for the students, faculty member and staff.

A reading walk was also organized by the Bahria University Islamabad Campus Library at Islamabad

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Campus. Reading walk started at 10:30 am from main campus gate Bahria University Islamabad and ended at Sir Syed Block. The walk was led by the Rector Bahria University Vice Admiral (R) Tanveer Faiz HI (M) (R) along with Pro-Rector, Registrar, Director Islamabad Campus, Deans, HODs, Faculty Members, Chief Librarian, Librarian, Library Staff and a large number of Students.

The participants of the walk were carrying colorful banners and placards on which different quotations were written about the importance of books and

reading. Despite the hot weather a large number of Faculty Members, Students and Administrative staff participated with the aim of promoting books reading and its importance in society.

A book fair was also organized to inculcate reading habit among the students and faculty members. Renowned book sellers placed their stalls at the University by displaying informative books on different topics on discount. The participants of the walk showed keen interest and purchased different books relevant to their reading interest.





CHAPTER - 2

Research & Development

Research & Development

Research and Development activities serve as the backbone of a nation's economy. It is an established fact that innovation and commercialization, which are the direct outcome of research and development, can catalyze the economic engine of a nation. The innovation in research is germinated in institutions of higher learning, which can ultimately guide the industry. At BU after consolidating and strengthening of its undergraduate programmes post graduate programmes leading to MS/MPhil & PhD in various disciplines have been started in line with the vision, mission and academic goals approved by the Board of Governors of Bahria University.

Office of Research, Innovation & Commercialization (ORIC)

The Office of Research, Innovation & Commercialization (ORIC) was established at Bahria University in 2010.

Mission of ORIC

“To provide strategic and operational support to the University's research activities / programmes, while playing a central role in facilitating University Industry Linkages, Intellectual Property Management, Technology Transfer / Licensing and Commercialization of Research”

In pursuit of this mission, Office of Research, Innovation & Commercialization (ORIC) has taken the responsibility of guaranteeing that all research programs and policies reflect the core values of academic freedom, professional integrity, ethical conduct and full compliance with all legal requirements and operational standards of the university. The aim is to provide strategic and operational support to the University's research activities / programmes.

Objectives of BU ORIC

- Establish and maintain a research culture at Bahria University
- Inculcate the spirit of innovation and entrepreneurship among BU researchers, both faculty and students
- Ensure that the research pursued at BU has

relevance to the industry, community and society

- Commercialize R&D performed at BU
- Promote industry focused multidisciplinary R&D
- Promote training and education related to entrepreneurship and intellectual property
- Be a catalyst for creation of new industries
- Create job opportunities for BU graduates
- Contribute towards achieving financial sustainability for BU

Ecosystem – Office of Research, Innovation & Commercialization (ORIC)



Establishment of Directorate of Post Graduate Programs at Bahria University Head Office

In order to facilitate and promote the culture of Higher Education at Bahria University, the Directorate of Post Graduate Programs has been established at Bahria University Head Office in 2015. Dr. Faisal Aftab took the additional charge of Director, Post Graduate Programs (PGP) while Cdr Ali Asghar Khan (PN) assumed the duties of Deputy Director Post Graduate Programs. Later on, Prof. Dr. Shehzad Khalid was appointed as Director, PGP in 2016.

Revision of Post Graduate Rules

In the year 2015-16, Directorate of Post Graduate Programs revised the Post Graduate Rules i.e. PhD Rules and MS/MPhil Rules after taking the input and feedback from all BU departments and Deans. The same were ratified in the 18th Higher Education & Research Committee Meeting held on 5th April, 2016 and subsequently promulgated to all concerned.

Research Committees

BU has constituted various research committees, and reconstituted these committees in the revision of Post Graduated Rules in terms of composition and TORs. Their functional domains range from policy making to policy implementing and facilitating the postgraduate programs of the University, following are such three committees;

Higher Education Research Committee (HERC)

Composition

a. Rector	President
b. Pro-Rector	Member
c. Registrar	Member
d. DGs CUs	Member
e. Deans	Member
f. Professors	Member
g. Director Academics	Member
h. Director Examinations	Member
i. Director Quality Assurance	Member
j. Director CUs	Member
k. All HoDs (all CUs)	Member
l. Director PGP	Member
m. PGP Coordinators	Members
n. Director R&D/ORIC	Member & Secretary
o. Additional	Co-opted Members (as required)

Terms of Reference

- Give policy guidelines and directions regarding all major research issues of the faculty members and scholar of the constituent/affiliated units.
- Monitor quality of research outcomes and thesis, both at the PG levels.
- Process approval of course exemptions at

PhD level, PhD synopses, research proposals and research grants.

- Specify guidelines and weightage to the publications by the faculty members.
- Approve R&D projects that may be undertaken to contribute towards economic development of Pakistan or for fund generation for the University.
- Approve collaboration with established research groups in Pakistan and abroad.
- Maintain database of national and international research groups/centers and well-known professors/researchers with their consent to become external Examiners for PhD scholars.
- Enlarge its scope and charter in parallel with new academic disciplines and new requirements of the contemporary research.
- Meet at least twice a year.

The HERC met twice during the year under report and approved the following key agenda items:

- The committee unanimously ratified the award of a PhD Degree
- Approval for Adding New Names in the List of Local External Examiners for MS/MPhil/PhD Program
- Ratification of Travel Grant Policy of BU
- Enhanced the Scope of Best Faculty/Student Researcher Award Policy of Bahria University
- Approval of Policy on Utilization of Funds from Sponsored Research Projects
- Ratification of Revised Cash Award Policy for Faculty & Students on Research Publications
- Ratification of Publication of Bahria University Research journal of Earth Sciences (BURJES)
- Approval of Intellectual Property Policy of Bahria University
- Approval of Consultancy Policy of Bahria University

- Acceptance of GAT from Relevant Specialization for Admission in PhD
- Amendment in the Scheme of PhD Research Thesis
- Amendment in the Scheme of Thesis Completion Process and Internal Evaluation
- Constitution of Committee to Prepare/ Conduct Test at Par with GRE (General) & GRE (Subject) for Admission in MS/MPhil & PhD or Equivalent Programs
- Ratification of Post Graduate Rules of Bahria University



18th HERC meeting in progress

18th Meeting of Higher Education & Research Committee (HERC)

The 18th Meeting of Higher Education & Research Committee (HERC) was held on 5th April, 2016, at Bahria University Head Office Islamabad through Video Conferencing with all Constituent Units. Rector (BU) and Chairperson of HERC, Vice Admiral (Retired) Tanveer Faiz HI(M), chaired the meeting. Director R&D/ORIC and Secretary HERC, Dr. Faisal Aftab conducted the meeting. HERC members and other invitees from BU and its constituted units attended the meeting and gave their valuable views and input on different agenda items regarding Research and Development activities at BU.

Faculty Research Committee (FRC)

Faculty Research Committee (FRC) be constituted by Registrar and headed by Dean of the Faculty. It shall comprise of Core and Elective Members.

Composition – Core Members

There shall be 13-15 core members of the FRC including all HODs. Where an HOD is not a PhD, a PhD faculty member from the department shall be included into the committee along with the HOD. The senior most HOD, or the Dean's nominee, shall act as Secretary of FRC.

Composition – Elective Members

There shall be a maximum of five elective members of the FRC including Director PGP, Director ORIC, and three members from other Higher Education Institutions, and industry with expertise relevant to the candidate's research-work, provided their qualification is not lower than the candidate's programme.

Terms of Reference

- a. Appoint Supervisors and Advisory Committee panel for PhD scholar at the

- time of scholar's registration.
- b. Conduct/arrange PhD Comprehensive Examination through PGP Coordinator.
 - c. Approve/ratify any minor changes in the topic of the PhD thesis on recommendation of the Principal Supervisor without changing the main theme.
 - d. Evaluate the quarterly progress reports of all PhD scholars forwarded by PGP Coordinators through HOD.
 - e. Recommend Foreign Evaluators, Internal and External Examiners for Thesis Defense and Viva Voce Examiners for PhD scholars.
 - f. Form Ethical Review Committee (ERC) to look into ethical dimension of research of PhD scholars.
 - g. Ensure plagiarism check on the candidate's thesis.
 - h. Approve Exemptions/TOC cases of the PG scholars.
 - i. Approve internal/external Viva Voce Examiner for MS/MPhil programmes on DRC recommendation.
 - j. Undertake any other research related responsibility assigned by the Head of the Committee
 - k. FRC shall meet at least twice a year. The quorum for a meeting of the FRC shall be half of the core members, a fraction being counted as one. FRC shall maintain minutes of its meetings and forward to the PGP Directorate.
 - l. Decisions of the committee shall be made by consensus and, if that is not possible, by majority vote. Only core members shall be entitled to exercise vote.

Departmental Research Committee (DRC)

Departmental Research Committee (DRC) shall be constituted by Dean of the Faculty and headed by the HOD. PGP Coordinator shall act as the Secretary of the DRC.

Composition – Core Members

- a. All PhD qualified faculty members.

- b. Two to three faculty members with MS/MPhil qualification. In a department with less than three PhD faculty members, two to three more faculty members with MS/MPhil qualification shall be included in the DRC as core members.

Composition – Elective Members

There shall be two to three elective members including from non-teaching departments of the BU and from other Higher Education Institutions, and industry with expertise relevant to the candidate's research-work, provided their qualification is not lower than the candidate's programme.

Terms of Reference

- a. Appoint Principal Supervisor(s)/Co-Supervisor(s) for MS/MPhil programmes.
- b. Propose Supervisor(s) to FRC for PhD scholars.
- c. Conduct/manage research proposal/thesis defense through the PGP Coordinator.
- d. On the recommendation of the Principal Supervisor, approve/ ratify any minor changes in the topic of the MS/MPhil thesis if made without changing the main theme.
- e. Evaluate the bimonthly progress reports of MS/MPhil scholars submitted by the Supervisors to HOD/PGP Coordinator.
- f. Recommend Exemptions/TOC cases to the FRC.
- g. Propose internal/external Viva Voce Examiner for MS/MPhil programmes to FRC for approval.
- h. Undertake any other research related responsibility assigned by the Dean/HOD.
- i. DRC shall meet at least twice a year. The quorum for a meeting of the DRC shall be half of the total number of core members, a fraction being counted as one. DRC shall maintain minutes of its meetings and forward to the PGP Directorate.
- j. Decisions of the committee shall be made by consensus and, if that is not possible, by majority vote. Only core members shall be entitled to exercise vote.

A Corporate Advisory Committees (CACs)

Corporate Advisory Committees have been established within each department at both the Campuses of Bahria University, comprising of (8-10) members of the relevant industries co-chaired by HOD and senior member(s) from the industry.

Broad Terms of Reference of the CACs are as follows:-

- Curriculum review for its alignment to meet needs of local industry.
- Sponsored R&D projects for BU students.
- Consultancy services for the industry.
- Professional Development short courses for the industry.
- Guest Speakers for BU students.
- Internships & Placements for BU students.
- Any other item as considered appropriate by the CACs.

Research Groups

To inculcate the spirit of collaborative research as well as to further improve the outlook of Bahria University (BU) in terms of its research standing, fifty-three Research Groups have been formed at the constituent units of Bahria University at department level. Members of each research groups are not only from the same department but also intra-department or from some other research institutions/organizations. Each group has highly qualified members within its research areas and is actively involved in their specialized research activities.

The objectives for the formulations of the Research Groups at BU are:

- Encourage faculty members/researchers to conduct research activities collectively
- Write research proposals for acquiring research funding
- Conduct research projects
- Generate high impact publications
- Develop University-Industry & University-Academia Linkages
- Invite faculty members/researchers from other institutions for starting the joint research projects with the faculty/researchers of BU

During the year under report, 150 research papers have been published while 50 research project proposals have been submitted to different funding agencies for research funding and 5 projects have been approved for research funding.

Microsoft Innovation Center (MIC) at Bahria University Karachi Campus (BUKC)

In recognition of our credibility in the IT – based Programmes, Microsoft have chosen Bahria University to establish their Innovation Center at our Karachi Campus. MIC is a platform for innovative research involving hardware, software and skill sets provided by Microsoft. The MIC which is now up & running w.e.f. 16th December 2013, will go a long way towards building BU as an entrepreneurial university.



Inside View of MIC BU Karachi Campus

Details of Trainings / Workshops organized by MIC during the year under report are as follows;

S. No.	Title of Training/Course/Session	Date
1	MIC Internship Internees prescreening Interview conducted by BIC/MIC jointly for three months internship at MIC.	July-Sept, 2015
2	SharePoint for Beginner Students' Edition With the help of MIC, BIC organized a workshop on SharePoint for beginners and Microsoft provided professional resource Mr. Hassan Zaidi, a Microsoft Certified Trainer.	4-6 Aug, 2015
3	TechHub Connect presents, "PITB's Round Table Conference". Punjab Information Technology Board has organized one day Round Table Conference at the Arfa Software Technology Park in Lahore. The Purpose of this conference was to build a connection between the academia, industry and the government so that all stakeholders would come together. Individually, they have all been involved in creating extraordinary technology brands out of Pakistan.	20 Aug, 2015
4	Microsoft Student Partners - South Region Sindh Microsoft Innovation Center arranged a visit for Microsoft Student Partners to BIC for networking and contact exchanging get together at Bahria University Karachi Campus.	15 Sept, 2015
5	Get Started with Windows 10 Microsoft Innovation Center Bahria University Karachi Campus arranged one day workshop on Windows 10 Developers Summit in Khurshid Mahal Avari Hotel at Karachi. The purpose of this Summit was to allow you to deep dive into the latest Windows 10 for its new features to boot your productivity and the familiar features you have always relied on.	29 Sept, 2015
6	BIC organized a training session on Visual Studio 2015 Microsoft Innovation Center has arranged a trainer who helped with startups to develop and enhance the skill set of Developers, IT Professionals, Startups, faculties & Students on Microsoft Technologies, This session was targeted to empower and train people on latest Microsoft Technologies and capacity building.	28 Oct, 2015
7	Web development and programming BIC arranged a one day seminar on Web Development and Programming for students of computer sciences and software engineering. The purpose of this seminar was to develop the skills of Web Developers and Software Engineering students.	14 Nov, 2015
8	Training session on Client and Customers Training session on customer validation was conducted by Muhammad Umar Manager Microsoft Innovation Center BUKC.	3 Dec, 2015

9	<p>Training session on IT Strategy This training was focused on improving the current performance in a startup by using technology, as well as ensuring that technology skill sets exist amongst partners for future competencies required by the organization. The main target group of this training were people who are familiar with participatory methods and tools but may have less practical experience with providing participatory training.</p>	14 Jan, 2016
10	<p>BIC Startups for Microsoft Venture Cup 2016 Microsoft Innovation Center Bahria University Karachi Campus with collaboration of BIC arranged a session for Startups in Microsoft Venture Cup 2016. Team and key community speakers participated. Student walked through a broad range of services available on MS Azure for Free by Microsoft's community speakers.</p>	24 Mar, 2016
11	<p>PlanX Demo day & Plan9 Global Student Entrepreneur award (GSEA) Punjab Information Technology Board (PITB) PlanX organized a demo day and Plan9, partnering with entrepreneurs organization (EO) Global awards at Arfa Kareem Software Technology Park in Lahore. The purpose of these events was to empower and promote entrepreneurship and build a strong ecosystem which connects investors, capitalist, startups, academia and industry.</p>	24-25 Mar, 2016



Participants of Hands on Workshop of Office 365 and Microsoft Azure at MIC, Karachi Campus



Microsoft Student Partners South Region are attending "Train the Trainer Day-2" hands-on Training on Cloud Computing and Microsoft Azure for Developers at MIC, Karachi Campus

Microsoft Accelerator at Bahria University Islamabad Campus

The objective of Microsoft Accelerator is to develop a strong technical resource pool in Pakistan with the latest tools and technology. This will help drive innovation and fuel local software. Accelerator Program that focuses towards imparting technical skills among:

- Professionals
- Startups

Microsoft established its "Microsoft Accelerator" at Bahria University Islamabad Campus. Microsoft Accelerator was inaugurated by Vice Admiral (Retired) Tanveer Faiz HI(M), Rector Bahria University, in a special ceremony on 5th November, 2015.

- Students



Honorable Rector – BU is inaugurating the Microsoft Accelerator at BUIC



Honorable Rector alongwith other guests are visiting the Microsoft Accelerator at BUIC



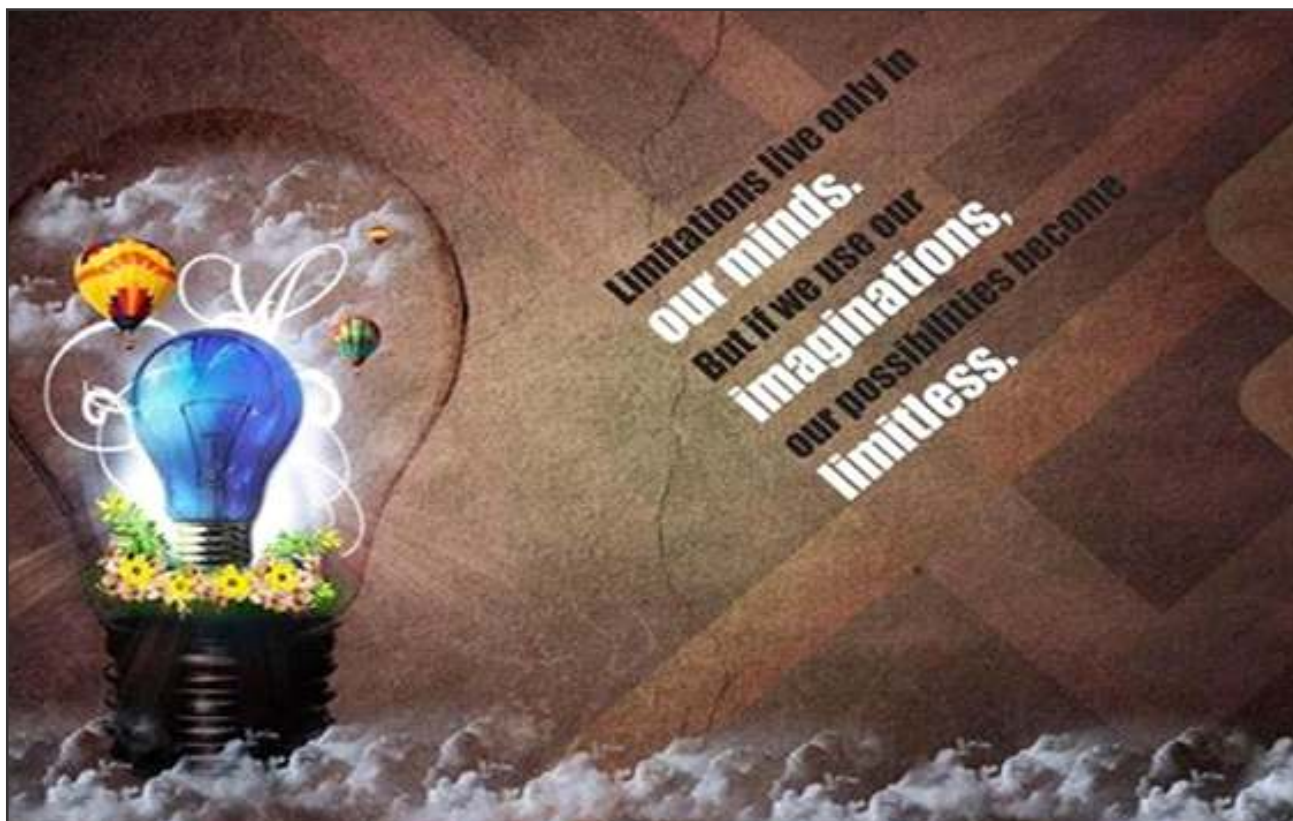
Business Incubation Centre (BIC)

Business Incubators are programs designed to support the successful development of entrepreneurial companies through an array of business support resources and services.

Following services have been provided to the incubatees.

Professional Support; Includes mentorship and coaching for proactive business help for entrepreneurship, networking and assistance with external sources of financing and partnering with the business.

Infrastructural Support; Includes shared office services, high speed internet, photocopying etc.



Business Incubation Centres at BU Islamabad & Karachi Campuses

Business Incubation Centres at Bahria University Islamabad and Karachi Campuses have been established on self-help basis by the management of BU. The incubatee companies having scope of conversion into start-up companies have been chosen and placed through a stringent process of selection.

Incubatee Companies at BU Incubation Centres at Islamabad & Karachi Campuses.

Incubatee Companies at BIC Islamabad Campus

Currently Inducted Incubatees

- Smart Energy Solutions
- Cardiotrics
- Mobilebaich.com
- Stallion Tech
- Code-digita
- Know-Where
- Nom-Nom Food Truck

Graduated Incubatees

- Macro Annovative Technologies (MAT)
- Algo-flux

Incubatee Companies at BIC Karachi Campus

Currently Inducted Incubatees

- Fatechs
- Team Innovation
- Pehchan
- SPARKX
- SAFR
- S&S Engineering
- Yelosoft Technologies
- Excalibur System
- Dextech

Graduated Incubatees

- SMAART Tech
- Techno Stars
- Book Worm Pakistan
- Zenith Electronics
- Creative Engineering
- MCube Electronics
- Innovative Technologies

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- UAP Software Solutions
- Parking Management System
- Book Worm Pakistan
- Traffic Light Management System

During the year under report, a host of activities were conducted for the benefit of both our own as well as external students. Some major activities performed by BIC include:-

S. No.	Title of Training/Course/Session	Date
1	UI/UX training on Product based User stores and persona by Manager BIC	19 July, 2015
2	NEW-G Roundtable Conference NEW-G Roundtable Conference on Entrepreneurial culture in parental education, colleges and universities. Roundtable conference graced by USA Council General	7 Sept, 2015
3	Dual study program by higher education (Germany) Dual study program by higher education using Vocational Education Training System – A brief discussion session with faculty of management science Department with Jutta Mohamed Ali (CEO - VET Ltd German) at Bahria University Karachi Campus.	10 Sept, 2015
4	Shepherd's PIE – JUMP Start Talk on "Think beyond the Silicon Valley" on Entrepreneurial ecosystem in Pakistan and discuss the local and international funding opportunities and resources for the youth of Pakistan by Khuram Adeel - CEO Jumpstart and Chalre CFO Seed stars at Bahria University Karachi Campus	14 Sept, 2015
5	Business Incubation Center - UAP Solutions Business Incubation Center – Team UAP Solutions demonstrated their project at EKS Day - In honor of the late Eunice Kennedy Shriver (Founder of Special Olympics) at PALPA Club	17 Sept, 2015
6	INJAZ Pakistan JA Worldwide Company Program Competition - INJAZ Pakistan JA Worldwide Company program Competition at Amman Foundation. BIC Team PEHHCHAN Showcase their products and pitch to the investors in the supervision of Manager BIC	30 Sept, 2015
7	Won 2nd Prize at "SUPARCO SPACE WEEK" University Project Competition. BIC Coordinate - SUPARCO "World Space Week" University Project competition, the students of Electrical Engineering department have won 2 nd Prize of worth Rs. 10,000/= on the competition for their FYP project titled "Gesture Controlled Wireless Robotic Hand via Leap Motion Technology."	10 - 11 Oct, 2015
8	Active Citizen – Web Portal Orientation Session British Council organized one day orientation/training course pertaining the information of Active Citizen Online Portal at Islamabad to engage and provide the focal person hands on with the website portal and hash out all technical queries.	14 Oct, 2015

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S. No.	Title of Training/Course/Session	Date
9	One day workshop on Discovering Entrepreneurship by Innovative Management Services organized by BIC at Bahria University Karachi Campus for Bahria University student, BIC startups, and Computer science students including big data and data mining in particular, Entrepreneur and related to the faculty. Lead trainer Rashid Jamal and Guest speakers Prof. Dr. Frank Harper.	17 Oct, 2015
10	BIC Plan9 3rd Application Pre-Screening Pre- screening BIC Application with the help of Partners and steering committee and finalized potential project to be present in 3 rd Launchpad 2015.	16-17 Oct, 2015
11	One day Entrepreneurial Exhibition on Innovative ideas and Management Services was organized by BEST “Bahria Entrepreneurship Society” in collaboration with BIC “Business Incubation Center” at Bahria University Karachi Campus on 17 th October, 2015 for all Bahria University student specially Majors in Entrepreneur, BIC startups and related to the faculty. The event required participants to come up with original ideas and exhibit them to an esteemed team of evaluators. “How exactly to create and nurture your venture”. Externals from industry evaluate all the projects and announces results in 1 st , 2 nd and 3 rd positions.	17 Oct, 2015
12	BIC Plan9 3rd Launchpad 2015 Bahria University Karachi Campus – Business Incubation Center has organized an event for its BIC-PLAN9 3 rd Launchpad cycle on 20 th October 2015 followed by a corporate event where most of the network partners participate and shared their views, students presented their plans/ideas for selection of Incubation Centers. Officials from Plan-9, Microsoft, INJAZ Pakistan, A4innovators, British Council, Chanak, Rehan Ventures, (PASHA), Agilosoft, Avenza Solutions and other software house representatives visited BUKC in this regard.	20 Oct, 2015
13	Research Symposium on Young people want/need in Pakistan BIC - Bahria University Karachi Campus in collaboration with Rutgers WPF Pakistan and Youth Empowerment Alliance (YEA) Pakistan organized one day Operational Research Symposium on the health issues of Youth in Pakistan. The purpose of the symposium was to share findings of the researchers conducted by the Rutgers WPF, YEA in Pakistan on youth health and seek comments of academicians’ health practitioners and social scientists on the issues related to youth health and development.	16 Nov, 2015
14	British Council Meeting for ACP: Brief discussion on Active Citizen Program and its execution plan in all the departments of BUKC from coming semester.	18 Nov, 2015

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S. No.	Title of Training/Course/Session	Date
15	<p>Business Incubation Center-Orientation/Induction Introductory Training session of newly selected BIC Incubatee on Business Validation and verification by Manager Business Incubation Center BUKC</p>	23 Nov, 2015
16	<p>Training Workshop on Pedagogical Innovation Valparaiso University USA BIC - Bahria University Karachi Campus collaboration with Pedagogical Innovation Valparaiso University USA arranged 2 day training workshop on pedagogical innovation at Bahria University Karachi Campus.</p>	26-27 Nov,2015
17	<p>Workshop on Entrepreneurship development & improvement of Industry Academia Linkage at Bahria University Karachi One day workshop on "Entrepreneurship development & improvement of Industry Academia Linkage", jointly organized by Pakistan Institute of Entrepreneurship & BIC- Bahria University Karachi Campus. The Industry Academia Linkage is the backbone of the Development of the Society/Country this course is specially designed and will be delivered by the experts from Industry, Academia and Advisors Networks. The main objective is to bridge the GAP between Industry and the Academia.</p>	1 Dec, 2015
18	<p>Training session on Customer Feedback and Customer Mindsets. Training session on Customer Feedback and Customer Mindset using CP (company program Designed by INJAZ Pakistan) Atif Aslam Manager Company Program INJAZ</p>	10 Dec, 2015
19	<p>Ideapreneurship Business Plan Exhibition,-2015 An effort to enhance and explore entrepreneurial skills of Bahria University students and BIC organized by Ideapreneur-Society for entrepreneurs BUKC and BIC. The program focused on entrepreneurial skills development of students and startups. The Rector BU directed BIC to register a company, which can bring out more commercial projects and startups can also get registered with their patterns/copyrights under the umbrella of that BU company.</p>	15 Dec, 2015
20	<p>British Council Pop-up Library – Exhibitions Business Incubation Center team Pehchan Showcased their work in public (Dolmen Mall) British Council Pop up Library. The British Council is all set to re-open 21st century, unconventional libraries in Karachi and Lahore. The 'POP-UP' library at Dolmen Mall was a small prototype or taste of what was to come. The British Council had announced their plans to re-open two state-of-the-art libraries in Karachi and Lahore where they engaged social enterprises and social action projects.</p>	17-18 Dec, 2015

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S. No.	Title of Training/Course/Session	Date
21	Young Entrepreneurs - Contemporary Research on Software Engineering and Computer Engineering Department of Bahria university Karachi Campus organized a one day Software research and development activities on their developed commercial/client based projects and its progress.	17 Dec, 2015
22	Training session on team building Training session on Team building, partners and shares was conducted by Faisal Bin Badar from NUST.	17 Dec, 2015
23	Workshop on Effective Negotiation Skills Effective Negotiations Skills for Startup was conducted by MIT Enterprise Forum of Pakistan in collaboration with Wadhvani Foundation at BIC-BUKC. This workshop emphasized on how to create "Both-Win" negotiating opportunities.	16 Jan, 2016
23	Active Citizen Program by British Council Active citizen program a project of British council was planned to complete community support program for the students, it was basically of 4 modules and a final project was to be completed by the students by going in a practical environment so that he/she is able to understand the society problems.	18-23 Jan, 2016
24	Bootstrapping and Talk Bootstrap talk was conducted by MIT Enterprise Forum of Pakistan in collaboration with Wadhvani Foundation.org (USAID) at BIC-BUKC.	23 Jan, 2016
25	Effective Marketing Plan This training session mainly focused on marketing strategy which included creating Effective Social networking, How to promote product, and basic marketing 5ps (People, place, product, promotion and price), train the sales force, keep sales records, develop sales incentive, and plan advertising campaigns.	28 Jan, 2016
26	Social Enterprise Training by British Council British Council conducted 5-days Social Enterprise training for social enterprise startups and incubation staff at Avari Hotel. British Council promotes Social enterprise in different incubation centers across Pakistan so that the social startups can help the community for self-sustainable and prosperous future.	24-28 Jan, 2016
27	Company Capitalization This training session was on Company Capitalization. A new startup needs seed money/investment to start with, and for that reason Companies accomplished by selling shares and stock to the public. It allows employees, friends, and relatives to share in the ownership and success of your company	11 Feb, 2016

S. No.	Title of Training/Course/Session	Date
28	<p>Internship Program Spring 2016. MIC in collaboration with BIC organized screening and scrutiny session with students of MIC. Internship program was initiated to unleash the potential of young minds, highlight their creativity, talent and build their skill set on the latest. The program was designed in such a way that the student were not only be able to use his creativity but also avail training and mentoring opportunities from Microsoft Staff and technology experts</p>	Feb-Jun, 2016
29	<p>What's in a Name Training session was held on What's in a Name. It was to see whether It is better to select a business name that brings to mind a product, a person, a location, or a culture? Should it be cute or clever? Does the name suggest authority? Image is important. Indeed, the type of image you want to project to your target market is vital to your success.</p>	18 Feb, 2016
30	<p>1st N!CTICT'16 National Conference National Conference On Emerging Trends And Innovations In Computing & Technology BIC was involved in various activities which included Live streaming, designing of Invitation cards, Trophy, Certificates and all other print materials of N!CTICT'16</p>	15-16 Mar, 2016
31	<p>Company President Role and Responsibilities This session was on role and responsibilities of CEO/President of company. Company presidents have many responsibilities but most important task it is to oversee and lead your company. More likely will be the most visible aspect of the business to the public and your colleagues. It's a job that should be assumed with the utmost responsibility.</p>	17 Mar, 2016
32	<p>Session of "Cleantech Competition/Entrepreneurial and Startups" conducted by UNIDO Business Incubation Center, Islamabad Campus recently conducted a session presented by UNIDO (United Nations Industrial Development Organization). UNIDO has launched world's biggest global competition in to Pakistan called Cleantech Competition. The purpose of the competition is to help Pakistani entrepreneurs, innovators and startup companies to pitch their innovative ideas and grow in the field of Renewable Energy, Energy Efficiency, Water Efficiency and Waste to Energy.</p>	29 April, 2016

S. No.	Title of Training/Course/Session	Date
33	<p>Awareness session of Intellectual Property Rights (Copyrights, Trademarks, Patents, Industrial Designs etc.) and patent registration system.</p> <p>Business Incubation Center, Islamabad Campus hosted an awareness session presented by IPO (Intellectual Property organization). Promotion of education and research in the field of Intellectual Property is one of the important function of IPO-Pakistan. In this regard Mrs. Humaira Shakeel, Assistant Director (IP Awareness/PBR), IPO-HQs, Islamabad along with Mrs. Maria, Spokesperson conducted an Awareness session on Intellectual Property Rights and patent registration system. The session attended by students from different departments of BU and it was highly appreciated by the Bahria university officials</p>	10 May, 2016
34	<p>Awareness Workshop for Pakistan Mobile App Awards 2016</p> <p>The Workshop was organized by Business Incubation Centre (BIC), Islamabad Campus in collaboration with Ministry of IT & Telecom, Telenor Pakistan, Special Talent Exchange Program (STEP), Pakistan Telecommunication Authority (PTA) and Internet Society (ISOC) Asia-Pacific Bureau. The main aim of the workshop was to raise awareness on mobile accessibility, and providing platform for persons with disabilities, rather with special abilities to brainstorm on their needs. The speakers represented five different organizations and explained about the award and different needs of persons with disabilities to motivate the students for developing such applications.</p>	19 May, 2016



Participants of Awareness Workshop on Mobile Accessibility arranged by BIC, Islamabad Campus



Participants of a motivational workshop on “How to Think & Create an Idea” arranged by BIC, Islamabad Campus

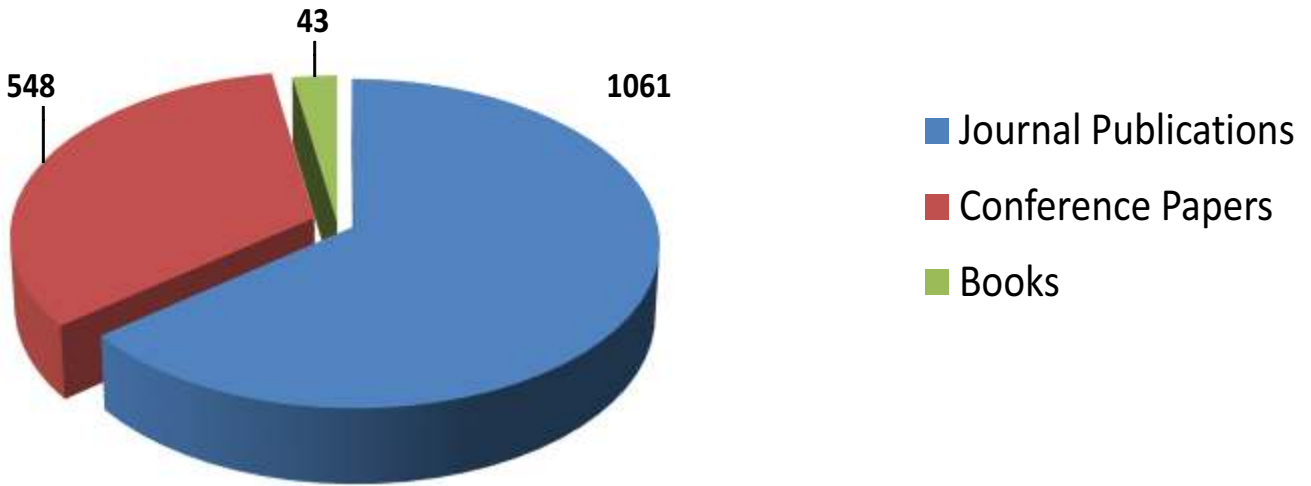


3rd Entrepreneurship workshop for executives of startups “Launching IT Startups Successfully” arranged by BIC Karachi Campus

Overview of Research Output of Bahria University

As a result of our dedicated focus, research output

of Bahria University has significantly increased over the last few years. Till date, faculty of BU has published 1061 journal publications, 548 conference papers and 43 books.

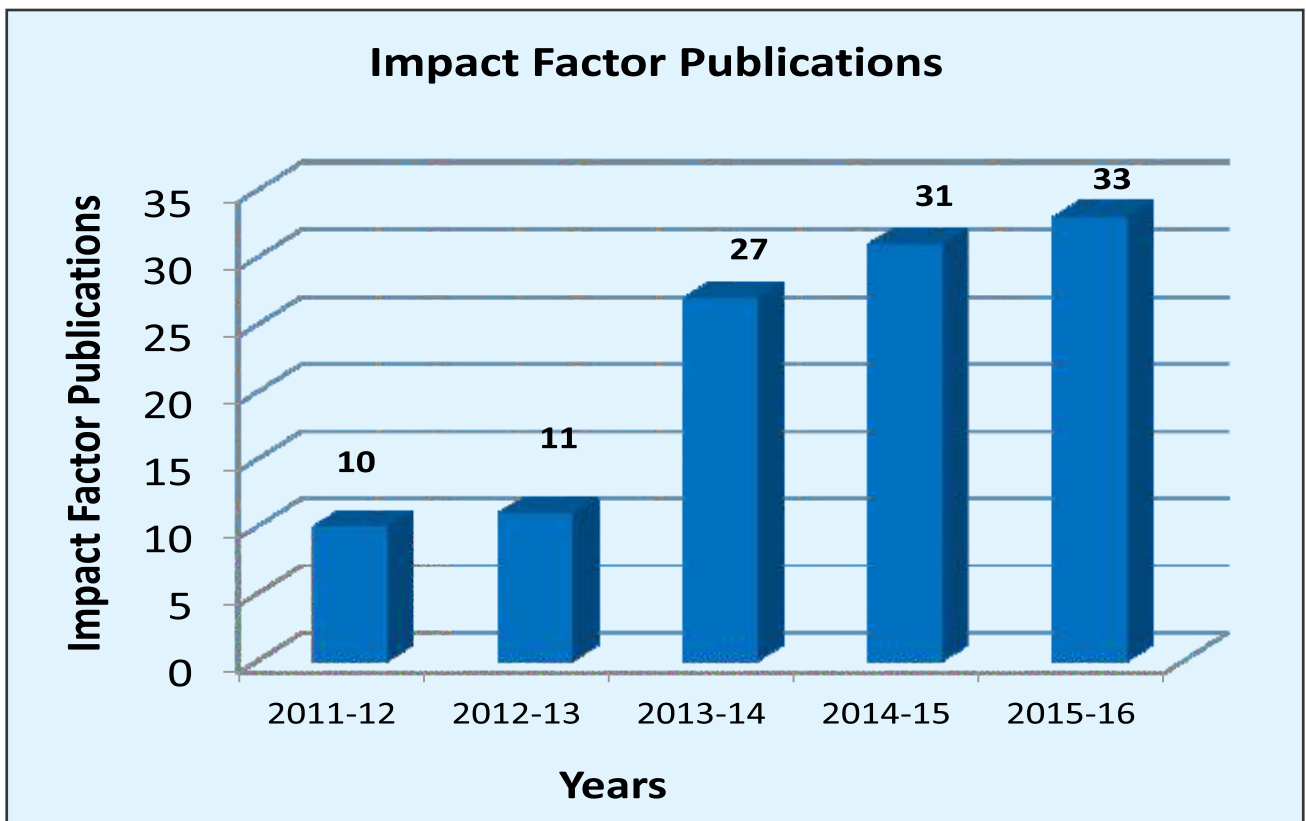


Overview of total research output of Bahria University since its establishment in 2000.

Impact Factor Publications

Impact factor publications are those publications which are published in Thomson Reuters (ISI)

indexed impact factor journals. The number of Impact Factor Publications by the faculty members of BU for last five years is shown below:



List of Impact Factor Publications (2015-16)

S. No.	Researcher(s)/Faculty Member from BU	Department	Title of Paper	Title of Journal	Date of Publication
1	Dr. Riaz Ahmed	MS BUIC	Exploring the Relationship between Multi-Dimensional Top Management Support and Project Success: An International Study	Engineering Management Journal	2016
2	Dr. Shehzad Khalid	CE BUIC	CRAM: A Conditioned Reflex Action Inspired Adaptive Model for Context Addition in Wireless Sensor Networks	Journal of Sensors	2016
3	Dr. Shehzad Khalid	CE BUIC	Online Knowledge-Based Model for Big Data Topic Extraction	Computational Intelligence and Neuroscience	2016
4	Dr. Amina Jameel	CE BUIC	Guided Filter and HIS based Pan-Sharpener	IEEE Sensors Journal	2016
5	Muhammad Kashif Naseer	CE BUIC	Distributed Mobility Management in 6LoWPAN-based Wireless Sensor Networks	International Journal of Distributed Sensor Networks	2015
6	Muhammad Kashif	CE BUIC	Trust Model at Service Layer of Cloud Computing for Educational Institutes	The Journal of Supercomputing, Springer US	2015
7	Prof. Dr. Shehzad Khalid	CE BUIC	Glaucoma detection using novel optic disc localization, hybrid feature set and classification techniques	Australasian Physical & Engineering Sciences in Medicine	2015
8	Prof. Dr. Shehzad Khalid	CE BUIC	Big-data: transformation from heterogeneous data to semantically-enriched simplified data	Multimedia Tools and Applications	2015
9	Prof. Dr. Shehzad Khalid	CE BUIC	Hybrid Features and Mediods Classification based Robust Segmentation of Blood Vessels	Journal of Medical Systems	2015
10	Dr. Shehzad Khalid	CS BUIC	A novel white space optimization scheme using memory enabled genetic algorithm in cognitive vehicular communication	Wireless personal communication	2015

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S. No.	Researcher(s)/Faculty Member from BU	Department	Title of Paper	Title of Journal	Date of Publication
11	Dr. Shehzad Khalid	CE BUIC	Accurate and efficient shape matching using vocabularies of multi-feature space representations	Journal of Real Time Image Processing	2015
12	Dr. Tehseenullah Khan	E&ES BUIC	A spatio-temporal three dimensional conceptualization and simulation of Dera Isamil Khan alluvial aquifer in visual MODFLOW: a case study from Pakistan	Arabian Journal of Geosciences	2016
13	Dr. Salma Hamza	E&ES BUKC	Educational Status & Awareness among tuberculosis patients of Karachi	Journal of Pakistan Medical Association	2016
14	Asif Javed	E&ES BUIC	Health risk of arsenic in the alluvial aquifers of Lahore and Raiwind, Punjab Province, Pakistan: an investigation for safer well water	Toxicological & Environmental Chemistry	2015
15	Umar Mujahid	EE BUIC	Efficient Hardware implementation of ultralight weight RFID Mutual Authentication Protocol	Journal of Circuits, Systems and Computers	2016
16	Umar Mujahid	EE BUIC	A New Ultralightweight RFID Mutual Authentication Protocol: SASI Using Recursive Hash	International Journal of Distributed Sensor Networks	2016
17	Taimur Hassan	EE BUIC	Structure Tensor based automated detection of macular edema and central serous retinopathy using optical coherence tomography images	Journal of the Optical Society of America A- Optics Image Science and Vision	2016
18	Taimur Hassan	EE BUIC	Automated Segmentation of Sub-Ratinal Layers for the Detection of Macular Edema	Applied Optics	2016
19	Taimur Hassan	EE BUIC	Automated segmentation of sub-retinal layers for the detection of macular edema	OSA Journal of Applied Optics	2015
20	Dr. Imran Siddiqi	CS BUIC	Offline Cursive Urdu-Nastaliq Script Recognition using Multidimensional Recurrent Neural Networks	Neurocomputing	2016

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S. No.	Researcher(s)/Faculty Member from BU	Department	Title of Paper	Title of Journal	Date of Publication
21	Dr. Wasif Afzal	CS BUIC	Software test process improvement approaches: A systematic literature review and an industrial case study	The Journal of Systems and Software	2016
22	Dr. Imran Siddiqi	CS BUIC	Writer identification using texture descriptors of handwritten fragments	Expert Systems with Applications	2015
23	Dr. Sumaira Kausar	CS BUIC	A Novel Mathematical Modeling and Parameterization for sign language classification	International Journal of Pattern Recognition and Artificial Intelligence	2016
24	Dr. Imran Siddiqi	CS BUIC	A comprehensive survey of handwritten document benchmarks: structure, usage and evaluation	EURASIP Journal on Image and Video Processing	2015
25	Dr. Kashif Zia	SE BUIC	Quantifying the interplay of emotions and rationality in herding: A game theoretic simulation study	Adaptive Behavior	2016
26	Dr. Tamim A. Khan	SE BUIC	Mobile Based User-Centered Learning Environment for Adult Absolute Illiterates	Mobile Information Systems	2016
27	Saifal Talpur	EE BUKC	Dynamic line rating for wind power	Journal of Renewable and Sustainable Energy	2016
28	Batool Fatima	IPP BUKC	Nobody told me about it! A qualitative study of barriers and facilitators in access to mental health services in women with depression in Karachi, Pakistan	Journal of Psychosomatic Research	2015
29	Dr. Aisha Qamar	BUM&DC	Ameliorating effect of Allium Sativum on high-fat diet induced fatty liver in albino rats	Pakistan Journal of Medical Sciences	2016
30	Dr. Nasim Karim	BUM&DC	Occupational lead toxicity in battery workers	Pakistan Journal of Medical Sciences	2015
31	Dr. Ambreen Usmani	BUM&DC	Diagnostic, prognostic and predictive value of MicroRNA-21 in breast cancer patients, their daughters and healthy individuals	American Journal of Cancer Research	2015
32	Dr. Aisha Qamar	BUM&DC	Fresh Garlic Amelioration of high-fat diet induced fatty liver in albino rats	Journal of Pakistan Medical Association	2015
33	Dr. Rabiya Rehan	BUM&DC	Learning Approaches and Performance of Medical Students	Pakistan Journal of Medical Association	2016

Research Papers Published by the Faculty Members in International Peer-Reviewed /HEC Recognized Journals

S. No.	Name of Author(s) from BU	Department & Campus	Title of Paper	Title of Journal	Year of Publication
1	Dr. Faisal Aftab	Director ORIC BU Head Office	Do HR practices affect service quality of front line staff?	IBT Journal of Business Studies	2015
2	Dr. Faisal Aftab	Director ORIC BU Head Office	Trends and Prospects of E-business in Pakistan	Global Management Journal for Academic & Corporate Studies	2015
3	Dr. Zahid Mehmood	MS, BUIC	The Effect of Extrinsic Motivational Instruments on Job Satisfaction: A Case of Pakistani Financial Services Companies	World Applied Sciences Journal	2015
4	Dr. Hafiz Mushtaq Ahmad	MS, BUIC	The Impact of Internal Marketing and Moderating Role of Organizational Culture on Nurse Job Satisfaction	Journal of Business and Economics	2015
5	Shaheer Ellahi Khan	H&SS, BUIC	Chronic illness and economic stability among older persons': a sociological comparative perspective	Science international	2015
6	Shaheer Ellahi Khan	H&SS, BUIC	Fiscal role and social participation of older persons': empirical evidence from Rawalpindi	Science international	2015
7	Shaheer Ellahi Khan	H&SS, BUIC	Older persons' index: new developments in ageing research on violence against older persons	Science international	2015
8	Shaheer Ellahi Khan	H&SS, BUIC	Studying effects of spatial disparities on economic performance among older persons of Rawalpindi	Science international	2015

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S. No.	Name of Author(s) from BU	Department & Campus	Title of Paper	Title of Journal	Year of Publication
9	Shaheer Ellahi Khan	H&SS, BUIC	Religion is the opium of masses: reviewing Marxist claim through Islamic Holy Scripture Quran	Science international	2015
10	Shaheer Ellahi Khan	H&SS, BUIC	Negotiating Voices on Cultural Relativism Within Anthropology: A Theoretical Debate	Science international	2015
11	Shaheer Ellahi Khan	H&SS, BUIC	Cultural Perceptions Of Diabetes: Qualitative Study Of District Sargodha	Science international	2015
12	Shaheer Ellahi Khan	H&SS, BUIC	Active Ageing and Elder's Health: An Anthropological Perspective of Older Person's	The Anthropologist	2015
13	Atif Raza Jafri	EE, BUIC	Heterogeneous multi-ASIP and NoC Based Architecture for Adaptive TBICM-ID	IEEE Transaction on Circuits and Systems II	2016
14	Umar Mujahid, M. Najam-ul-Islam, Atif Raza Jafri, Qurat-ul-Ain, and M. Ali Shami	EE, BUIC	A New Ultra lightweight RFID Mutual Authentication Protocol: SASI Using Recursive Hash	International Journal of Distributed Sensor Networks	2016
15	Umar Mujahid	EE, BUIC	Efficient Hardware Implementation of Ultra-lightweight RFID Mutual Authentication Protocol	Journal of Circuits, Systems, and Computers	2016
16	Umar Mujahid	EE, BUIC	A New Ultra-lightweight RFID Mutual Authentication Protocol: SASI using Recursive Hash	Journal of Distributed Sensor Networks	2015
17	Umar Mujahid	EE, BUIC	Pitfalls in ultra-lightweight RFID Authentication Protocol	International Journal of Communication Networks and Information Security	2015
18	Gussan Maaz Mufti	EE, BUIC	Two Level Voltage Source Grid Connected Inverter for Solar Photovoltaic System	International Journal of Control and Automation	2015
19	Tauseef Akbar	EE, BUIC	Potential and Viability of Stand Alone Solar PV Systems for Rural Electrification of Pakistan by using RET Screen Software	International Journal of Smart Home	2015

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S. No.	Name of Author(s) from BU	Department & Campus	Title of Paper	Title of Journal	Year of Publication
20	Amina Jameel	CE, BUIC	Automated Detection of Glaucoma from Fundus Image Using Hybrid Structural and Textural Features	IET Image Processing	2016
21	Amina Jameel	CE, BUIC	Automated Detection of Glaucoma using Structural and Non Structural Features	Springer Plus	2016
22	Amina Jameel	CE, BUIC	Guided Filter and IHS based pan-sharpening	IEEE Sensors Journal	2016
23	Amina Jameel	CE, BUIC	Wavelet and guided filter based multi-focus fusion for noisy Images	Optik	2015
24	Shehzad Khalid	CE, BUIC	Determination of System Dimensionality from Observing Near-Normal Distributions	Journal of Abstract and Applied Analysis	2015
25	Moneeb Gohar	CS, BUIC	Distributed Mobility Management in 6LoWPAN-based Wireless Sensor Networks	International Journal of Distributed Sensor Networks	2015
26	Sohail Jabbar	CS, BUIC	Trust Model at Service Layer of Cloud Computing for Educational Institutes	The Journal of Supercomputing, Springer US	2015
27	Amina Jameel	CE, BUIC	Segmentation of Lung Nodules in CT Scan Data: A Review	International Journal of Privacy and Health Information Management	2015
28	Akhtar Jamil	CE, BUIC	Multilingual Artificial Text Extraction and Script Identification from Video Images	International Journal of Advanced Computer Science and Applications	2016
29	Saba Dar	CE, BUIC	Mining Emerging News from Text Data	SURJ	2016
30	Saba Dar	CE, BUIC	Hot Item Detection from Text Data	SURJ	2016
31	Sumaira kausar	CS, BUIC	A Novel Mathematical Modeling and Parameterization for Sign Language Classification	International Journal of Pattern Recognition and Artificial Intelligence	2016
32	Yaacoub Hannad	CS, BUIC	Writer Identification using Texture Descriptors of Handwritten Fragments	Expert Systems with Applications	2016

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S. No.	Name of Author(s) from BU	Department & Campus	Title of Paper	Title of Journal	Year of Publication
33	Zainab Nayyar, M. Khattak and Faisal Bashir	CS, BUIC	Two Tier Clustering Technique in Vehicular Ad Hoc Networks in Highways Scenarios	International Journal of Distributed Sensor Networks	2016
34	Raheela Arshad	CS, BUIC	Evaluation of Navigational Aspects of Moodle	International Journal of Advanced Computer Science and Applications	2016
35	Arif Ur Rahman	CS, BUIC	Evaluation of Navigational Aspects of Moodle	International Journal of Advanced Computer Science and Applications (IJACSA)	2016
36	Faiz Dar	CS, BUIC	Image Rank Using Visual Words	Computers	2016
37	Sumaira Kausar	CS, BUIC	Vision Based Classification of Pakistani Sign Language	International Journal of Image, Graphics and Signal Processing	2016
38	Arif ur Rehman	CS, BUIC	A Novel Approach for Ranking Images Using User and Content Tags	International Journal of Advanced Computer Science and Applications	2015
39	Arif ur Rehman	CS, BUIC	Database Preservation: The DBPreserve Approach	International Journal of Advanced Computer Science and Applications	2015
40	Arif Ur Rahman	CS, BUIC	Database Preservation: The DBPreserve Approach	International Journal of Advanced Computer Science and Applications	2015
41	Arif Ur Rahman	CS, BUIC	A Novel Approach for Ranking Images Using User and Content Tags	International Journal of Advanced Computer Science and Applications	2015
42	Arif Ur Rahman	CS, BUIC	A Novel Approach for Ranking Images Using User and Content Tags	International Journal of Advanced Computer Science and Applications(IJACSA)	2015
43	Shagufta Henna	CS, BUIC	Least Channel Variation Multi-Channel MAC (LCV-MMAC) under Mobile Random Topologies in Mobile Adhoc Networks	International Journal of Computer Applications	2015

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S. No.	Name of Author(s) from BU	Department & Campus	Title of Paper	Title of Journal	Year of Publication
44	Nauman Mushtaq	CS, BUIC	. Asynchronous Hybrid Duty Cycle MAC Protocol for Wireless Sensor Networks	International Journal of Computer Applications	2015
45	Saeeda Naz	CS, BUIC	Offline cursive Urdu-Nastaliq script recognition using multidimensional recurrent neural networks	Neurocomputing	2015
46	Raashid Hussain	CS, BUIC	A comprehensive survey of handwritten document benchmarks: Structure, Usage and Evaluation	EURASIP Journal on Image and Video Processing	2015
47	Momina Moetesum	CS, BUIC	An adaptive and efficient buffer management scheme for resource-constrained delay tolerant networks. Wireless Networks	Wireless Sensors	2015
48	Meer M. Khan, Faisal Bashir	CS, BUIC	Multi-sink coordination frame work using RPL for enhancing network performance	Journal of Sensors	2015
49	Muhammad Muzammal	CS, BUIC	Mining Sequential Patterns from Probabilistic Databases	Knowledge and Information Systems	2015
50	Shabbir Ahmad Muhammad Muzammal, Awais Majeed, Arif ur Rehman and Zahoor Jan	CS, BUIC	Online Urdu Handwriting Recognition System using Geometric Invariant Features	The Nucleus	2016
51	Raheela Arshad, Awais Majeed, Hammad Afzal, Muhammad Muzammal and Arif ur Rahman	CS, BUIC	Evaluation of Navigational Aspects of Moodle	International Journal of Advanced Computer Science and Applications	2016
52	Sobia Gilani, Awais Majeed	CS, BUIC	A Navigational Evaluation Model for Content Management System	The Nucleus	2016
53	Arif Ur Rahman, Muhammad Muzammal, Humayun Zaheer Ahmad, Awais Majeed and Zahoor Jan	CS, BUIC	A Novel Approach for Ranking Images Using User and Content Tags	International Journal of Advanced Computer Science and Applications (IJACSA)	2015

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S. No.	Name of Author(s) from BU	Department & Campus	Title of Paper	Title of Journal	Year of Publication
54	Rizwana Bashir	MS, BULC	Effect of online shopping trends on consumer buying behavior: An Empirical study of Pakistan	Journal of Management & Research (JMR) by SBE University of Management & Technology	2015
55	Rizwana Bashir	MS, BULC	Effective Management of Human Resources . Proposing A Recipe for Organizational Leaders	Global Management Journal For Academic & Corporate Studies (GMJACS)	2015
56	Ghulam Mohey-ud-din	MS, BULC	GDP Fluctuations and Long-run Economic Growth: A Study of Selected South Asian Countries	Pakistan Journal of Applied Economics	2015
57	Muhammad Aasim Qureshi	CS, BULC	Using Morpho-Syntactic Tagging In English-to-Urdu Statistical Machine Translation	Science international	2015
58	Rafique Ahmed Khan	MS, BUKC	Impact of Performance Appraisal System on Employee Satisfaction at Karachi Port Trust	New Horizons, Research Journal, Faculty of Social Sciences, Greenwich University, Karachi	2016
59	Rafique Ahmed Khan	MS, BUKC	Determinants of Teachers' Turnover Intention in Bahria Schools and Colleges at Karachi	IBT Journal of Business Studies (Formerly Journal of Management and Social Sciences); Y Cat	2016
60	Iqbal Ahmed Panhwar	MS, BUKC	Impact of Inflation on Savings: A Case Study of Hyderabad District	Grassroots journal	2015
61	Farooq-e-Azam Cheema	MS, BUKC	Do HR Practices Affect Service Quality of Frontline Staff? An exploratory study in Hospitality firms at Karachi	NICE Research Journal	2015
62	Farooq-e-Azam Cheema	MS, BUKC	SME FINANCING: Impact & Implications on Economic Prosperity	International research journal of arts and humanities	2015
63	Rafique Ahmed Khan	MS, BUKC	Impact of Third-Party Logistics (3PL) on Customer Satisfaction in Pharmaceutical Industry of Pakistan	BUKC Journal, GMJACS	2015

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S. No.	Name of Author(s) from BU	Department & Campus	Title of Paper	Title of Journal	Year of Publication
64	Rafique Ahmed Khan	MS, BUKC	"Abounding Internal Conflicts in Africa: An Analysis of Prepotency of Greed or Grievances"	NDU Journal, "Margalla Papers"	2015
65	Rafique Ahmed Khan, Ayesha Arif, Asif Rehman	MS, BUKC	Impact of Training and Development Practices on Employees' Job Satisfaction at Pakistan International Airline	IBT Journal of Business Studies (Formerly Journal of Management and Social Sciences)	2015
66	Rafique Ahmed Khan	MS, BUKC	Factors Affecting Employee Turnover Intention in Pakistani Pharmaceutical Industry	NICE Social Sciences Research Journal	2015
67	Rafique Ahmed Khan	MS, BUKC	Prioritization of Quality Care Criteria to Deliver Quality Service, Using Dematel	IBT Journal of Business Studies (Formerly Journal of Management and Social Sciences)	2015
68	Iqbal Ahmed Panhwar	MS, BUKC	Knowledge Management: A Tool for Enhancing HRM Practices and Organizational Innovation	NICE Research Journal	2015
69	Amir Manzoor	MS, BUKC	Online Communities of Practice and Web 2.0	Cultural, Behavioral, and Social Considerations in Electronic Collaboration	2015
70	Amir Manzoor	MS, BUKC	Technology-Enabled Learning Environments	Handbook of Research on Applied Learning Theory and Design in Modern Education	2015
71	Amir Manzoor	MS, BUKC	Dealing with Reverse Culture Shock for Students Returning from Study Abroad Programs	Advancing Teacher Education and Curriculum Development through Study Abroad Programs	2015
72	Amir Manzoor	MS, BUKC	Emerging Role of Big Data in Public Sector	Managing Big Data Integration in the Public Sector	2015
73	Amir Manzoor	MS, BUKC	A Conjoint Analysis of Customer Preferences for VoIP Service in Pakistan	International Journal of Computer Science and Business Informatics	2015

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S. No.	Name of Author(s) from BU	Department & Campus	Title of Paper	Title of Journal	Year of Publication
74	Muhammad Asif Shamim	MS, BUKC	Impact of Remittances On Export Performance : Time Series Evidence from Pakistan	IBT Journal of Business Studies	2015
75	Amir Manzoor	MS, BUKC	Early Warning System for Financial Crises	Handbook of Research on Financial and Banking Crisis Prediction through Early Warning Systems	2015
76	Amir Manzoor	MS, BUKC	IT in Higher Education- Possibilities and Prospects in an Era of Economic Crisis	Impact of Economic Crisis on Education and the Next-Generation Workforce	2015
77	Rafique Ahmed Khan	MS, BUKC	Foreign Direct Investment - Exports Nexus in Pakistan: A Time Series Analysis	Global Management Journal for Academics and Corporate Studies (GMJACS)	2015
78	Iqbal Ahmed Panhwar	MS, BUKC	Optimal Capacity and Profit Maximization Level for A Biomass Refinery, A Supplemental Source of Fuel	Journal of American Science	2015
79	Iqbal Ahmed Panhwar	MS, BUKC	Impact of Mission and Vision on an Organization	The Journal of American Science	2015
80	Amir Manzoor	MS, BUKC	Emerging Role of Technology in Health Education for Youth	Handbook of Research on Advancing Health Education through Technology	2015
81	Amir Manzoor	MS, BUKC	RFID Applications in Healthcare-State-of-the-Art and Future Trends	Maximizing Healthcare Delivery and Management through Technology Integration	2015
82	Amir Manzoor	MS, BUKC	MOOCs Business Models	Furthering Higher Education Possibilities through Massive Open Online Courses	2015
83	Amir Manzoor	MS, BUKC	Cloud Computing Applications in the Public Sector	Cloud Computing Technologies for Connected Government	2015

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S. No.	Name of Author(s) from BU	Department & Campus	Title of Paper	Title of Journal	Year of Publication
84	Amir Manzoor	MS, BUKC	Social Media for Promoting Grassroots Political Movements and Social Change	Handbook of Research on the Societal Impact of Digital Media	2015
85	Amir Manzoor	MS, BUKC	Use of Social Media for Policing	Handbook of Research on Cultural and Economic Impacts of the Information Society	2015
86	Amir Manzoor	MS, BUKC	Impact and Potential of Emerging Technologies for Fostering Democracy	Societal Benefits of Freely Accessible Technologies and Knowledge Resources	2015
87	Iqbal Ahmed Panhwar	MS, BUKC	Profit Optimization through Cobb Douglas Production Function	Global Management Journal for Academic & Corporate Studies	2015
88	Iqbal Ahmed Panhwar	MS, BUKC	Impact of Employee Assistance Program on Employee Satisfaction of Public & Private Organizations of Sindh	Grassroots journal	2015
89	Salma Hamza	E&ES, BUKC	Ecological Analysis of Tuberculosis Patients' – A Case Study of Karachi	American Journal of Health Research	2016
90	Yasmin Nergis	E&ES, BUKC	Ecosystem Approach and Hydrological Potential Study of Coastal Area of Thatta Sindh, Pakistan	J. Econ. environ. Geol.	2016
91	Salma Hamza	E&ES, BUKC	Impact of Cadmium Polluted Groundwater on Human Health: Winder, Baluchistan	SAGE Open	2016
92	Muhammad Jahangir Khan	E&ES, BUKC	Makran- A zone of Natural Hazards or Gas Hydrates	BU Research Journal of Earth Sciences	2016
93	Muhammad Jahangir Khan	E&ES, BUKC	Geohazard of Soil Liquefaction Jeopardizing Karachi	Journal of Himalaya Earth Sciences JHES	2016
94	Muhammad Jahangir Khan	E&ES, BUKC	GIS based study on Seismicity of Makran over 100 Years	Int. J. of Econ. and Envi. Geology (IJEEG)	2016

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S. No.	Name of Author(s) from BU	Department & Campus	Title of Paper	Title of Journal	Year of Publication
95	Yasmin Nergis	E&ES, BUKC	Ecosystem approach and hydrological potential study: Port Qasim industrial coastal zone of Karachi, Pakistan	Civil and Environmental Research Vol.8, No.2, 2016	2016
96	Salma Hamza	E&ES, BUKC	Investigation of Carbonate Rocks of Malikhore Formation as Coarse Aggregate and Dimension Stone, SE Baluchistan, Pakistan	British Journal of Applied Science & Technology,	2016
97	Yasmin Nergis	E&ES, BUKC	Risks and Hazards Study of Asbestos in Pakistan	J. Econ. Environ. Geol.	2015
98	Yasmin Nergis	E&ES, BUKC	Environmental Impact of Spent Wash on Soil Quality	J. Econ. Environ. Geol.	2015
99	Salma Hamza	E&ES, BUKC	Geochemistry and quality parameters of dug and tube well water of Khipro, District Sanghar, Sindh, Pakistan,	Applied Water Science	2015
100	Sajid Mehmood, Anzar Alam	EE, BUKC	Study the effect of load and dc-dc power converters on maximum power point tracker based photovoltaic system under variable environmental conditions	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	2016
101	Muhammad Bilal Choudhary	EE, BUKC	Solar Powered Electric Bike	European International Science and Technology	2016
102	Asma Khan	CS, BUKC	Vehicle dynamics Parameter Design Using Different Optimization Techniques	Bahria University Journal	2016
103	Syed Rizwan Ali	CS, BUKC	A Proposed Framework for High Speed Downlink Packet Access (HSDPA) as a turbo charger in Universal Mobile	Information Technology & Electrical Engineering (ITEE) Journal	2016
104	Syed Rizwan Ali	CS, BUKC	A Comparative Study of ECOTECT, Engery Plus & DAllux (Building Energy Lighting Simulation) tools	Journal of Multidisciplinary Engineering Science and Technology (JMEST)	2016
105	Azmat Khan	CS, BUKC	Proposed Academic Version of Distributed Control System (DCS) Model	Proceedings of the Pakistan Academy of Sciences (PAS)	2015

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S. No.	Name of Author(s) from BU	Department & Campus	Title of Paper	Title of Journal	Year of Publication
106	Azmat Khan	CS, BUKC	Proposed Academic Version of Distributed Control System (DCS) Model	Proceedings of the Pakistan Academy of Sciences (PAS)	2015
107	Syed Rizwan Ali	CS, BUKC	The Validation and Testing Study for Lighting Simulation Software	American International Journal of Research in Science, Technology, Engineering & Mathematics (AIJRSTEM)	2015
108	Hasan Ali	BUM&DC	Identification of 11 Std Pathogens in Semen using Polymerase Chain Reaction (PCR) and "Flow-Through" Hybridization Technology"	Journal of life Sciences	2016
109	Hasan Ali	BUM&DC	serum reg 1 alpha level as biomarker for type 1 and 2 diabetes	Khyber Medical University Journal	2016
110	Ayesha Saba Naz	BUM&DC	Intellectual wellness awareness: a neglected area in medical universities of Pakistan	Journal of Pakistan Medical Association	2015
111	Ayesha Saba Naz	BUM&DC	Medical students' endeavor to make use of their mental capabilities	Journal of Pakistan Medical Association	2015
112	Ambreen Surti	BUM&DC	Do We Practice What We Know? A Study Comparing Ergonomic Practices	International Journal of Medical and Health Sciences	2015
113	Ambreen Surti	BUM&DC	An Ounce of Discretion Is Worth a Pound of Wit	PLOS One	2015
114	Ayesha Saba Naz	BUM&DC	Emerging trends of use of Complementary Alternative Medicine in Asthmatics	Journal of Postgraduate Medical Institute	2015
115	Sadaf Saleem Uppal, Abdul Khalliq Naveed and Asifa Majeed	BUM&DC	Polycystic ovary syndrome with obesity leads to high risk of metabolic dysfunction	Journal of Pakistan Medical Association	2015

Research Papers presented by the faculty in Conferences

S.No.	Author(s)	Department & Campus	Title of Paper	Name of Conference	Date of Conference
1	Faisal Aftab	Director ORIC, BU Head Office	Observing the role of Higher Education Institutions in Innovation of New Technologies through Hybrid Formations	Third 21st Century Academic Forum Conference 'Facilitating, Fostering and Harnessing Innovation to Meet key Challenges of the 21st Century., Boston USA	20-22 Sept, 2015
2	Nadia Tahir	MS, BUIC	Empirical Analysis of Railway Efficiency in Pakistan	14th International Conference on Data Envelopment Analysis, 2016, China	23-26 May, 2016
3	M. Arif Khattak	MS, BUIC	Effect of Use of Humor on Employee Creativity with Moderating Role of Transformational Leadership Behavior	24th Annual conference of American Society of Business and Behavioral Sciences, USA	18-21 Feb, 2016
4	M. Arif Khattak	Associate Prof. MS, BUIC	Role of Leader-Member Exchange Relationship in Organizational Change Management	3rd International Conference on New Challenges in Management and Business, Dubai UAE	2 May, 2016
5	Muhammad Hanif	MS, BUIC	An Evaluation of Takaful (Islamic Insurance): Case of Pakistan	World Finance Conference – New York, USA	29-31 July, 2016
6	Humera Farah	E&ES, BUIC	The story of hydro energy from land of k2: Socio cultural influences of Terbella Power Project	Energy Narrative (Section), Conference on 'Green Knowledge 2015., Cambridge, UK	2-4 Sept, 2015
7	Humera Farah	E&ES, BUIC	Social Life Cycle Assessment of Production of energy efficient household fans for a developing nation: A case study based on UNDP-GEF's BRESL Project	International Conference on Social Life Cycle Assessment, Harvard University, USA	13-15 June, 2016
8	Asif Javed	E&ES, BUIC	Continuous use of arsenic contaminated irrigation water: A future threat to sustainable agriculture in Pakistan	6th International Congress Arsenic in the Environment (As2016), Stockholm, Sweden	19-23 June, 2016

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S.No.	Author(s)	Department & Campus	Title of Paper	Name of Conference	Date of Conference
9	Shaheer Ellahi Khan	H&SS, BUIC	Formative research to inform the feasibility and modalities in delivering early child development care at private clinics in semi urban Punjab, Pakistan	6th Annual Public health conference Islamabad	11-12 Dec, 2015
10	Najam Ul Islam	EE, BUIC	Hardware Implementation of Ultra-lightweight Cryptographic Protocols	International conference on computing, Communication and Security (ICCCS 2015), Le Meridien, Mauritius	4-6 Dec, 2015
11	Umar Mujahid	EE, BUIC	Efficiently Hardware Implementation of Lightweight Pseudorandom Number Generators	The Second International Conference on Computer Science, computer Engineering and Education Technologies., Kuala Lumpur, Malaysia	8-10 Sept, 2015
12	Maryam Iqbal	EE, BUIC	H ₂ and H _∞ Optimal Control of Coordinated Fingers Movement	IEEE 11th International Conference on Emerging Technologies (ICET-2015), Peshawar, Pakistan	19-20 Dec, 2015
13	M. Bilal Cheema	EE, BUIC	Comparative Analysis of SPWM and Square Wave Output Filtration Based Pure Sine Wave Inverter	15th IEEE International conference on Environment and Electrical Engineering. Rome, Italy	10-13 June, 2015
14	Gussan Mufti	EE, BUIC	Design and Analysis of Optimal Controllers for Grid Connected Inverters for Photo Voltaic Applications	International Conference on Recent Trends in Computer Science and Electronics, Parkroyal Kuala Lumpur, Malaysia	2-3 Jan, 2016
15	Atif Naveed Khan, Pervaiz Akhter and Gussan Mufti	EE, BUIC	Techno-Economic Evaluation of the Centralized Hybrid Renewable Energy Systems for off-grid rural electrification	International Conference on Recent Trends in Computer Science and Electronics, Parkroyal Kuala Lumpur, Malaysia	2-3 Jan, 2016
16	Maryam Iqbal	EE, BUIC	H ₂ and H _∞ Optimal Control of Coordinated Fingers Movement	The 11th International Conference on Emerging Technologies (ICET 2015), SUIT & CECOS Peshawar(Pakistan)	19-20 Dec, 2015
17	Tayyaba Qaisar	EE, BUIC	Robust Control of a Customized Robotic Arm with Unstructured Uncertainties.	The 11th International Conference on Emerging Technologies (ICET 2015),Peshawar(Pakistan)	19-20 Dec, 2015
18	Umar Mujahid	EE, BUIC	Hardware Implementation of Ultralightweight Cryptographic Protocols	ICCCS-2015, Mauritius,	4-7 Dec, 2015

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S.No.	Author(s)	Department & Campus	Title of Paper	Name of Conference	Date of Conference
19	Taimur Hassan	EE, BUIC	Review of OCT and Fundus images for detecting Macular Edema	IEEE 12th International Conference on Imaging Systems and Techniques	16-18 Sep, 2015
20	Muhammad Usman Mukhtiar, Zakariya Al Hamouz, Mohammad Ali Abido and Gussan Mufti	EE, BUIC	Improved stability index of a power system based upon optimal placement of wind farms using differential evolution	Conference: Intelligent Systems Applications to Power Systems (ISAP), Porto Portugal	11-16 Sep, 2015
21	Yusra Mehmood	EE, BUIC	Efficient Hardware Implementation of lightweight Pseudo-random number generators	The Second International Conference on Computer Science, Computer Engineering, and Education Technologies (CSCEET2015), Kuala Lumpur, Malaysia	8-10 Sep, 2015
22	Umar Mujahid	EE, BUIC	Efficient Hardware Implementation of Lightweight Pseudorandom number generators	CSCEET-2015	8-10 Sep, 2015
23	Saad ul Hasan	EE, BUIC	Coaxial Cable Noise Removal Using Instrumentation Amplifier	34th Chinese Control Conference	28-31 July, 2015
24	Arsalan Akhter	CE, BUIC	A Review of Techniques and Approaches in Robocup	6th International Conference on Information and Communication Technologies, Karachi, Pakistan	6 Dec, 2015
25	Shehzad Khalid	CE, BUIC	A Robust Ensemble based Approach to Combine Heterogeneous Classifiers in the Presence of Class Label Noise	IEEE 5th International Conference on Computational Intelligence, Communication System and Networks. Seoul, South Korea	24-28 Sep, 2015
26	Shehzad Khalid	CE, BUIC	ONLINE SIGNATURE VERIFICATION USING CHEBYSHEV POLYNOMIALS	In 3rd International Conference on Computational and Social Sciences	25-27 Aug, 2015
27	Shehzad Khalid	CE, BUIC	LINE AND LIGATURE SEGMENTATION IN PRINTED URDU DOCUMENT IMAGES	3rd International Conference on Computational and Social Sciences	25-27 Aug, 2015
28	Shehzad Khalid	CE, BUIC	Review of Offline Text Independent Writer Identification Techniques	In 3rd International Conference on Computational and Social Sciences	25 Aug, 2015

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S.No.	Author(s)	Department & Campus	Title of Paper	Name of Conference	Date of Conference
29	Shehzad Khalid	CE, BUIC	NEWS HEADLINES CLASSIFICATION USING PROBABILISTIC APPROACH	In 3rd International Conference on Computational and Social Sciences,	25-27 Aug, 2015
30	Shehzad Khalid	CE, BUIC	Recognition of Urdu ligatures: A Holistic Approach	13th International Conference on Document Analysis and Recognition, Gammarth, Tunisia	23-26 Aug, 2015
31	Amina Jameel	CE, BUIC	Improved Multi-Focus Image Fusion	18th International Conference on Information Fusion, Washington D.C USA	6-9th July, 2015
32	Shehzad Khalid	CE, BUIC	Motion Trajectory Clustering for Video Retrieval Using Spatiotemporal Approximation	8th International Conference on Visual Surveillance Systems	5 July, 2015
33	Uzma Masroor	PP, BUIC	Sexual harassment stress and self esteem in university students	International Conference of Psychology Marriott Hotel Islamabad	12 Dec, 2015
34	Uzma Masroor	PP, BUIC	Family relations, quality of life and ptsd among amputees	International Conference of Psychology Marriott Hotel Islamabad	12 Dec, 2015
35	Uzma Masroor	PP, BUIC	Role of anger rumination in developing uncontrolled anger among adolescents	International Conference on Mental Health	4 July, 2015
36	Imran Ahmed Siddiqi	CS, BUIC	Segmentation and Classification of Offline Hand Drawn Image from BGT Neuropsychological Screening Test	8th International Conference on Digital Image Processing (ICDIP) Chengdu, China	20-22 May, 2016
37	Yousaf Zia	CS, BUIC	A Traffic Aware Dynamic Super-frame Adaption Algorithm for the IEEE 802.15.4 Based Networks	2015 IEEE Asia Pacific Conference on Wireless and Mobile., Bandung, Indonesia	27-30 August, 2015
38	Faisal Bashir Hussain	CS, BUIC	Rank Attack Using Objective Function in RPL for low Power and Lossy Networks	2nd IEEE International Conference on Industrial Informatics and computer Systems (CIICS16), Dubai, U.A.E	13-15 March, 2016
39	Muhammad Asfand-e-Yar	CS, BUIC	Semantic Web Technology for Smart Building	3rd International Conference of Information Technology, Bedrichov, Czech	28 Sep, 2015
40	Momina Moetesum	CS, BUIC	Segmentation and Classification of Offline Hand Drawn Images for the BGT Neuropsychological Screening Test	8th International Conference on Digital Image Processing, China	20-22 May, 2016

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S.No.	Author(s)	Department & Campus	Title of Paper	Name of Conference	Date of Conference
41	Salman Ahmad	CS, BUIC	Community Detection in Large Social Graphs	C3S2E Conference, Portugal	20-22 May, 2016
42	Abdeljalil Gattal	CS, BUIC	Isolated Handwritten Digit Recognition Using oBIFs and Background Features	12th IAPR International Workshop on Document Analysis Systems, Greece	11-14 April, 2016
43	Shagufta henna	CS, BUIC	PW-MMAC: Predictive-Wakeup Multi-Channel MAC protocol for Wireless Sensor Networks	IEEE UKSim-AMSS 18th International Conference on Modelling & Simulation, Cambridge, UK	4-6 April, 2016
44	Junaid Aslam	CS, BUIC	A Brain Computer Interface (BCI) based Game Controller using Expressive and Cognitive Signals	National Conference on Emerging Trends and Innovations in Computing and Technology, Karachi, Pakistan	15-16 March, 2016
45	Muhammad Rizwan Pasha	CS, BUIC	A Review of Cross-Platform Binary Compatibility using Dynamic Binary Translation	NACTICT'16, Bahria University Karachi	15-16 March, 2016
46	Muhammad Junaid Aslam	CS, BUIC	A Brain computer Interface (BCI) based Game Controller using Expressive and Cognitive Signals	NACTICT 2016 , Karachi, Pakistan	15-16 March, 2016
47	Sohail Ahmad	CS, BUIC	A Tag-based Image Retrieval Approach	NACTICT'16, Karachi, Pakistan	15-17 March, 2016
48	Arshad Farhad, and Faisal Bashir	CS, BUIC	A Delay Mitigation Dynamic Scheduling Algorithm for the IEEE 802.15.4 based WPANs	IEEE International Conference on Industrial Informatics and Computer Systems (CIICS16), Dubai	13-15 March, 2016
49	Meer M. Khan, and Faisal Bashir	CS, BUIC	A multi-sink coordination framework for low power and lossy networks	IEEE International Conference on Industrial Informatics and Computer Systems (CIICS16), Dubai	13-15 March, 2016
50	Abdul Rehman, and Faisal Bashir	CS, BUIC	Rank attack using objective function in RPL for low power and lossy networks	IEEE International Conference on Industrial Informatics and Computer Systems (CIICS16), Dubai	13-15 March, 2016
51	Tamim Ahmad Khan	SE, BUIC	On Effectiveness of Fault-seeding using Data Mining	Frontiers of Information Technology, Islamabad	21-22 Dec, 2015
52	Shaftab Ahmed	SE, BUIC	Social Networking Cyber Communities and Security Issues	ICDS 2016 Tenth International Conference on Digital Society and e-Government, Venice, Italy	24-28 April, 2016

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S.No.	Author(s)	Department & Campus	Title of Paper	Name of Conference	Date of Conference
53	Mehreen Ahmed	SE, BUIC	Using Crowd-source based features from social media and Conventional features to predict movies popularity	International Conference on Big Data Intelligence and Computing, China	19-21 Dec, 2015
54	Arif Ur Rahman	CS, BUIC	Digital News Story Preservation Framework	International Conference on Asian Pacific Digital Libraries 2015, Seoul, South Korea	9-12 Dec, 2015
55	Imran Siddiqi	CS, BUIC	Signature Verification for Offline Skilled Forgeries Using Textural Features	11th International Conference on Signal Image Technology and Internet Based Systems (SITIS), Thailand	23-27 Nov, 2015
56	Raashid Hussain	CS, BUIC	Keyword based Information Retrieval System for Urdu Document Images	Proceedings of the 11th International Conference on Signal Image Technology and Internet Based Systems (SITIS), Thailand	23-27 Nov, 2015
57	Zumra Malik	CS, BUIC	Video Script Identification using a Combination of Textural Features	11th International Conference on Signal Image Technology and Internet Based Systems (SITIS), Thailand	23-27 Nov, 2015
58	Faisal Bashir	CS, BUIC	A Traffic Aware Dynamic Super-frame Adaptation Algorithm for the IEEE 802.15.4 Based Networks	IEEE Asia Pacific Wireless and Mobile (APWiMob) Conference, Indonesia	26-28 Sep, 2015
59	Faisal Bashir	CS, BUIC	Multi-path RPL for low power lossy networks	IEEE Asia Pacific Wireless and Mobile (APWiMob) Conference, Indonesia	26-28 Sep, 2015
60	Momina Moetesum	CS, BUIC	Automated Scoring of Bender Gestalt Test Using Image Analysis Techniques	2015 IAPR 13th International Conference on Document Analysis and Recognition (ICDAR)	23-25 Sep, 2015
61	Israr Ud Din Khattak	CS, BUIC	Line and Ligature Segmentation in Printed Urdu Document Images	In Proceedings of the 3rd Intl Conference on Computational and Social Sciences, ICCSS, Malaysia, 2015	25-27 Aug, 2015
62	Israr Khattak	CS, BUIC	Recognition of Urdu Ligatures A Holistic Approach	13th International Conference on Document Analysis and Recognition (ICDAR), France.	23-26 Aug, 2015
63	Momina Moetesum	CS, BUIC	Automated Scoring of Bender Gestalt Test Using Image Analysis Techniques	13th International Conference on Document Analysis and Recognition (ICDAR), France.	23-26 Aug, 2015

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S.No.	Author(s)	Department & Campus	Title of Paper	Name of Conference	Date of Conference
64	Chawki Djeddi	CS, BUIC	ICDAR2015 Competition on Multi-script Writer Identification and Gender Classification using QUWI Database	Proceedings of the 13th Intl Conference on Document Analysis and Recognition, ICDAR, France, 2015	23-26 Aug, 2015
65	Sohail Ahmad	CS, BUIC	A Tag-based Image Retrieval Approach	1st National Conference on Emerging Trends in Computing and Technology, Karachi.	14-16 March, 2016
66	Mehreen Ahmed, Maham Jahangir, Awais Majeed, Hammad Afzal	SE, BUIC	Using Crowd-source based features from social media and Conventional features to predict movies popularity	8th IEEE International Conference Social Computing and Networking (SocialCom 2015), Chengdu, China	19-21 Dec, 2015
67	Kashif Mehmood, Hammad Afzal, Awais Majeed and Hassan Latif	SE, BUIC	Contributions to the study of bilingual roman Urdu SMS and filtering	IEEE National Software Engineering Conference	17 Dec, 2015
68	Anum Kaleem, Awais Majeed, Hammad Afzal, Tamim Ahmed Khan and Faisal Bashir	SE, BUIC	Volunteer Reputation Evaluation for Emergency Response Operations	The 2nd International Conference of Information & Communication Technologies for Disaster Management, Rennes, Brittany, France	30 Nov - 2 Dec, 2015
69	Ghulam Mohey-ud-din	MS, BULC	Determinants of GDP Fluctuations in Selected South Asian Countries: A Macro Panel Study	Pakistan Society of development Economists (PSDE)'s 31st AGM & Conference, PIDE Islamabad	17-19 Dec, 2015
70	Naveed Muhammad Khan	MS, BUKC	Domino's Pakistan	5th Asian Management Research and Case (AMRC) Conference, University of Wollongong in Dubai, UAE	16-18 Jan, 2016
71	Muhammad Jahangir Khan	E&ES, BUKC	Integrated Study on seismicity of Makran over 100 years	1st Multi-disciplinary Student Research Conference (MDSRC)	14-16 Nov, 2015
72	Muhammad Jahangir Khan	E&ES, BUKC	Recent Seismicity in Hindukush Afghanistan/Pakistan (ORAL PRESENTATION)	Earthquake Awareness Seminar	11 Nov, 2015
73	Fariha Khan	EE, BUKC	Analysis of NIST SP 800-53 Rev.3 Controls Effectiveness for Cloud Computing	1st National Conference on Emerging Trends and Innovations in Computing & Technology (NACTICT' 2016), Bahria University Karachi Campus	15-16 March, 2016
74	Asma Khan	CS, BUKC	Designing of dual band patch antenna using U-slot for technique for Indoor Wireless Communication	NACTICT' 2016	16-17 March, 2016

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S.No.	Author(s)	Department & Campus	Title of Paper	Name of Conference	Date of Conference
75	Humera Farooq	CS, BUKC	An Interactive Cognitive Approach to Evaluate the State Space of the Solutions	1st National Conference on Emerging Trends and Innovations in Computing & Technology, Bahria University, Karachi	15-16 March, 2016
76	Ikram Mustafa	CS, BUKC	Smart Thoughts: BCI Based System to Detect Motor Imagery Movement	1st National Conference on Emerging Trends and Innovations in Computing & Technology, Bahria University, Karachi	15-16 March, 2016
77	Imran Mustafa	CS, BUKC	Smart BCI Speller	1st National Conference on Emerging Trends and Innovations in Computing & Technology, Bahria University, Karachi	15-16 March, 2016
78	Sameena Javaid	CS, BUKC	Intelligent Pedagogical Systems: A Comparative Study	1st National Conference on Emerging Trends and Innovations in Computing & Technology, Bahria University, Karachi	15-16 March, 2016
79	Syed Rizwan Ali	CS, BUKC	Implementation of Kano's model in Web Metrics	IEEE 6th International Conference on Information and Communications Technologies (ICICT-2015), IBA, Karachi	11-12 Dec, 2015
80	Ashan Naqvi, & Engr. Syed Rizwan Ali	CS, BUKC	Online Classified Websites Mining: Current Trends And Research Issues	International Conference on Business & Management (ICBM-2015), Mohammad Ali Jinnah University, Karachi (HEC Recognized Conference)	28-29 Nov, 2015
81	Syed Nabeel Ali, & Engr. Syed Rizwan Ali	CS, BUKC	Android Based Desktop Operating System	International Conference on Business & Management (ICBM-2015), Mohammad Ali Jinnah University, Karachi (HEC Recognized Conference)	28-29 Nov, 2015
82	Naveen Irtiza	BUKC	The Study of Fear-Induced Power Modulations for Cognitive Man-Machine Communication	14th IEEE International Conference on Cognitive Informatics & Cognitive Computing	6-8 July, 2015
83	Naveen Irtiza	BUKC	The Study of Fear-Induced Power Modulations for Cognitive Man-Machine Communication	14th IEEE International Conference on Cognitive Informatics and Cognitive Computing , Tsinghua University, Beijing, China	6-8 July, 2015

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S.No.	Author(s)	Department & Campus	Title of Paper	Name of Conference	Date of Conference
84	Shazia Gul	BUKC	A Machine learning approach to detect Occluded Faces in Unconstrained Crowd Scene	14th IEEE International Conference on Cognitive Informatics and Cognitive Computing , Tsinghua University, Beijing, China	6-8 July, 2015
85	Sohaib Ahmed	C&SE, BUIC	A digital story telling framework for inquiry based learning activities	1st National Conference on Emerging Trends and Innovations in Computing and Technology (NACTICT-2016), Karachi, Pakistan	15-16 March, 2016
86	Sohaib Ahmed	C&SE, BUIC	Emotion: An ontology for emotion analysis	1st National Conference on Emerging Trends and Innovations in Computing and Technology (NACTICT-2016), Karachi, Pakistan	15-16 March, 2016
87	Ali Ahmed	EE, BUKC	A Proposed Software Process Assessment Model for Small and Medium Enterprise (SME) Organizations	1st International Conference on Dependable Embedded Wireless & Sensing Networks, 2015, Jamshoro, Pakistan	26 Dec, 2015
88	Ali Ahmed	EE, BUKC	A Proposed Cloud-Based Software Testing Model	1st International Conference on Dependable Embedded Wireless & Sensing Networks, 2015, Jamshoro, Pakistan	26 Dec, 2015
89	Wafa Qaiser Khan	C&SE, BUKC	Urdu Optical Character Recognition Technique Using Point Feature Matching; A Generic Approach	in 6th International Conference On Information And Technologies ICICT, IEEE, IBA FCS 2015, Karachi	12-13 Dec, 2015
90	Batool Fatima	Senior Lecturer, IPP	Nobody told me about it a qualitative study of barriers and facilitators in access to mental health services in women with depression in Karachi, Pakistan	The European Association of Psychosomatic Medicine (EAPM). Nuremberg, Germany	1-4th July, 2015
91	Mushtaq, S. et al.	NCMPR	Meat yield in coral crab <i>Charybdis feriatius</i> (Linnaeus, 1758) from coastal waters of Karachi,	35th Pakistan Congress of Zoology.	1-5 March, 2016
92	Musthtaq, S	NCMPR	Gut content analysis of <i>Charybdis feriatius</i> in natural environment. Pakistan.	36th Pakistan Congress of Zoology. University of Sindh, Jamshoro.	16-18, 2016
93	Kulsoom Rizvi Affaf Fatima Anum Hira	BUMDC	Musculo-skeletal disorder and its mitigation through Ergonomics	AWDC 2013 Bangkok, Thailand	22-25 Sep, 2015

2.10 Travel Grants from HEC / Other Sources

Travel grants acquired by the faculty members to attend international conferences have been increasing every year as shown in figure below:



List of Travel Grants to attend International Conferences (2015-16)

S. No	Name	Dept. & Campus	Title of Paper	Name of Conference & Venue	Date	Amount & Funded by
1	Dr. Amina Jameel	Asstt Prof., CE, BUIC	Improved Multi-Focus Image Fusion	18th International Conference on Information Fusion, Washington D.C USA	6-9th July, 2015	Rs. 298,865 By HEC
2	Dr. Humera Farah	Associate Professor, E&ES, BUIC	The story of hydro energy from land of k2: Socio cultural influences of Terbella Power Project	Energy Narrative (Section), Conference on 'Green Knowledge 2015., Cambridge, UK	2-4 Sept, 2015	Rs. 216,467 By HEC
3	Mr. Yousaf Zia	PhD Scholar, CS, BUIC	A Traffic Aware Dynamic Super-frame Adaption Algorithm for the IEEE 802.15.4 Based Networks	2015 IEEE Asia Pacific Conference on Wireless and Mobile., Bandung, Indonesia	27-30 August , 2015	Rs. 176,308 By HEC
4	Mr. Umar Mujahid	Assistant Prof. EE, BUIC	Efficiently Hardware Implementation of Lightweight Pseudorandom Number Generators	The Second International Conference on Computer Science, computer Engineering and Education Technologies., Kuala Lumpur, Malaysia	8-10 Sept, 2015	Rs. 195,049 By HEC
5	Dr. Faisal Aftab	Director ORIC	Observing the role of Higher Education Institutions in Innovation of New Technologies through Hybrid Formations	Third 21st Century Academic Forum Conference 'Facilitating, Fostering and Harnessing Innovation to Meet key Challenges of the 21st Century., Boston USA	20-22 Sept, 2015	Rs. 237,600 By HEC

RESEARCH & DEVELOPMENT

S. No	Name	Dept. & Campus	Title of Paper	Name of Conference & Venue	Date	Amount & Funded by
6	Ms. Maryam Iqbal	Lecturer, EE, BUIC	H2 and H ∞ Optimal Control of Coordinated Fingers Movement	IEEE 11th International Conference on Emerging Technologies (ICET-2015), Peshawar, Pakistan	19-20 Dec, 2015	Rs. 28,360 By HEC
7	Dr. Najam UI Islam	HOD, EE, BUIC	Hardware Implementation of Ultralightweight Cryptographic Protocols	International conference on computing, Communication and Security (ICCCS 2015), Le Meridien, Mauritius	4-6 Dec, 2015	Rs. 197,973 by HEC
8	Mr. Naveed Muhammad Khan	Associate Professor, MS, BUKC	Domino's Pakistan	5th Asian Management Research and Case Conference (AMRC) 2016 "Internationalizing Asian Businesses, Dubai, U.A.E	16-18 January, 2016	Rs. 113,400 By HEC
9	Dr. M. Arif Khattak	Associate Prof. MS, BUIC	Effect of Use of Humor on Employee Creativity with Moderating Role of Transformational Leadership Behavior	24th Annual conference of American Society of Business and Behavioral Sciences, USA	18-21 Feb, 2016	Rs. 263,150 By HEC
10	Dr. Faisal Bashir Hussain	Associate Prof. CS, BUIC	Rank Attack Using Objective Function in RPL for low Power and Lossy Networks	2nd IEEE International Conference on Industrial Informatics and computer Systems (CIICS16), Dubai, U.A.E	13-15 March, 2016	Rs. 177,650 By HEC

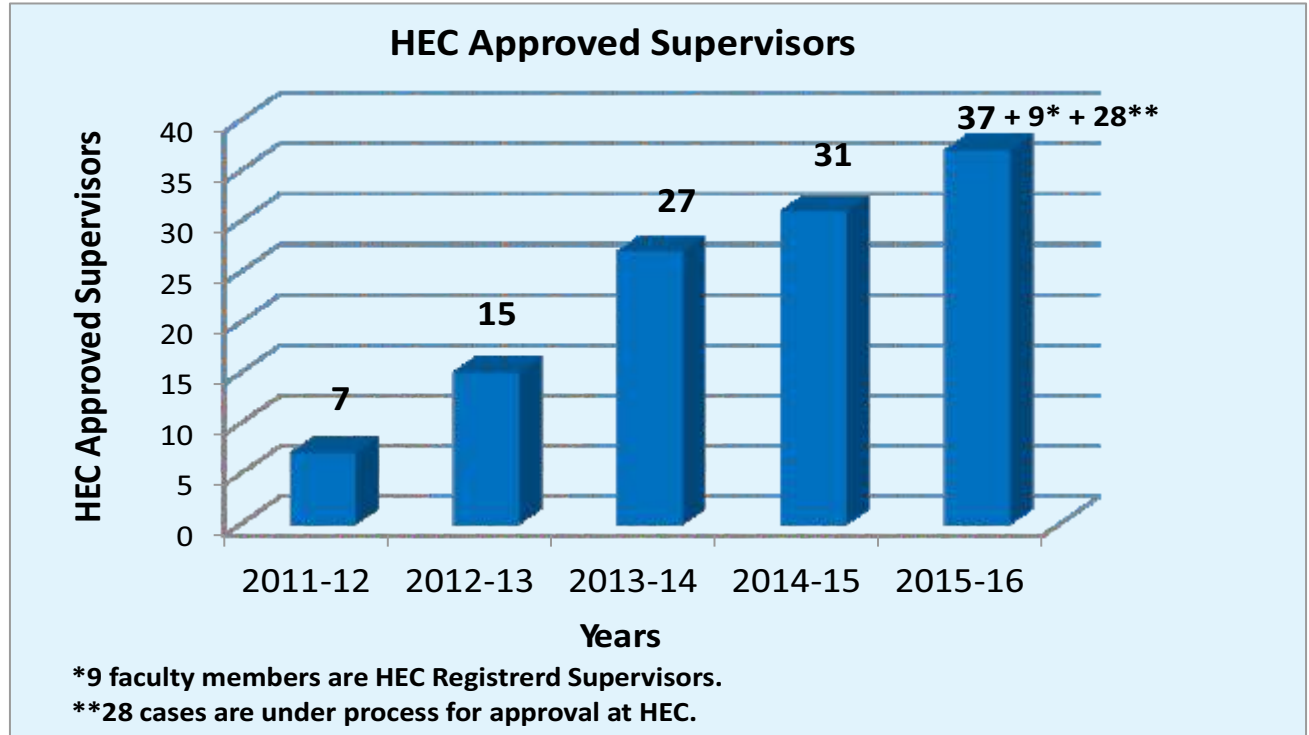
RESEARCH & DEVELOPMENT

S. No	Name	Dept. & Campus	Title of Paper	Name of Conference & Venue	Date	Amount & Funded by
11	Dr. Muhammad Hanif	Associate Professor, MS, BUIC	An Evaluation of Takaful (Islamic Insurance): Case of Pakistan	World Finance Conference – New York, USA	29-31 July, 2016	Rs. 268,051 By HEC
12	Engr. Shaftab Ahmed	Senior Associate Prof. SE, BUIC	Social Networking Cyber Communities and Security Issues	ICDS 2016 Tenth International Conference on Digital Society and eGovernments, Venice, Italy	24-28 April, 2016	Rs. 244,300 By HEC
13	Dr. M. Arif Khattak	Associate Prof. MS, BUIC	Role of Leader-Member Exchange Relationship in Organizational Change Management	3rd International Conference on New Challenges in Management and Business, Dubai UAE	2 May, 2016	Rs. 94,632 By Bahria University
14	Dr. Imran Ahmed Siddiqi	Associate Prof. CS, BUIC	Segmentation and Classification of Offline Hand Drawn Image from BGT Neuropsychological Screening Test	8th International Conference on Digital Image Processing (ICDIP) Chengdu, China	20-22 May, 2016	Rs. 198,160 By HEC
15	Dr. Nadia Tahir	Professor/H OD MS, BUIC	Empirical Analysis of Railway Efficiency in Pakistan	14th International Conference on Data Envelopment Analysis, 2016, China	23-26 May, 2016	Rs. 199,056 By HEC
16	Dr. Humera Farah	Associate Professor, E&ES, BUIC	Social Life Cycle Assessment of Production of energy efficient household fans for a developing nation: A case study based on UNDP-GEF's BRESL Project	International Conference on Social Life Cycle Assessment, Harvard University, USA	13-15 June, 2016	Rs. 179,088 By Bahria University
17	Mr. Asif Javed	Assistant Professor, E&ES, BUIC	Continuous use of arsenic contaminated irrigation water: A future threat to sustainable agriculture in Pakistan	6th International Congress Arsenic in the Environment (As2016), Stockholm, Sweden	19-23 June, 2016	Rs. 142,300 By PSF

HEC Approved Supervisors

HEC approved supervisors are those PhD faculty members who can supervise HEC indigenous PhD scholars, currently BU has 37 HEC approved

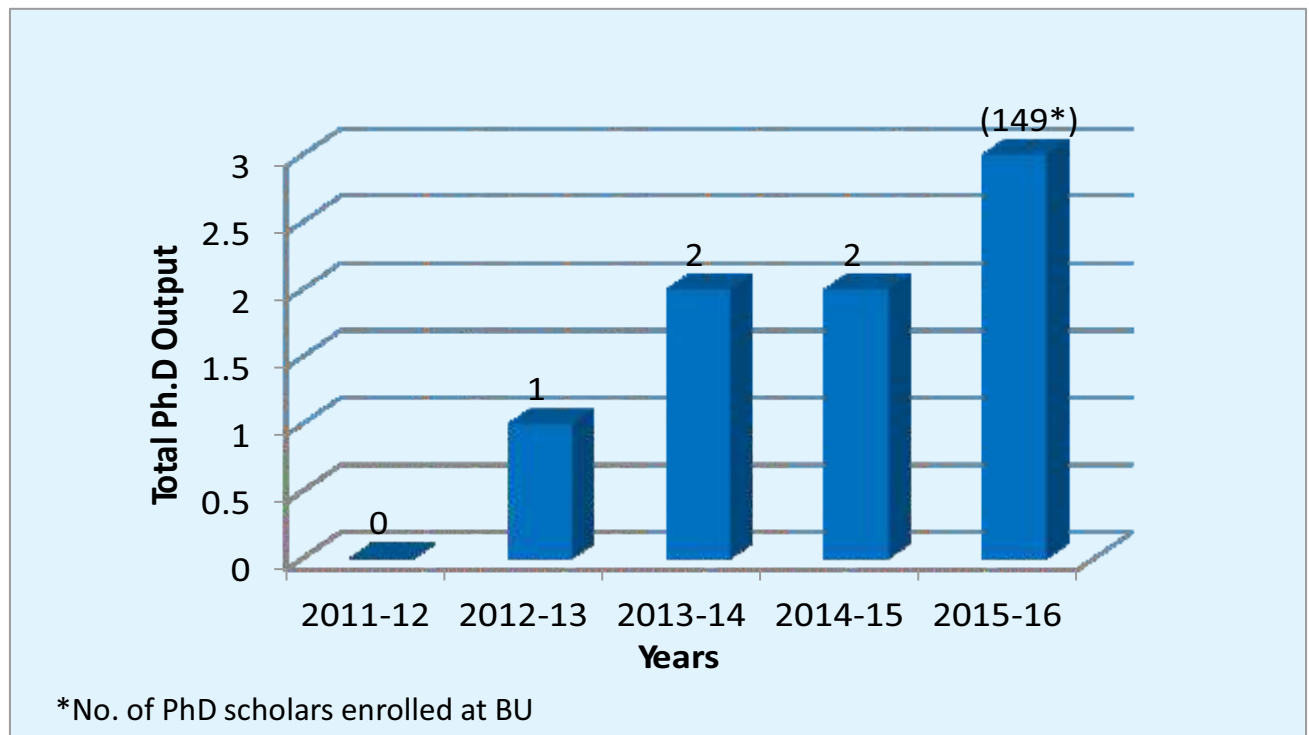
supervisors, 9 HEC registered supervisors and 28 cases of PhD faculty are in the process of approval at HEC.



Total PhD Output

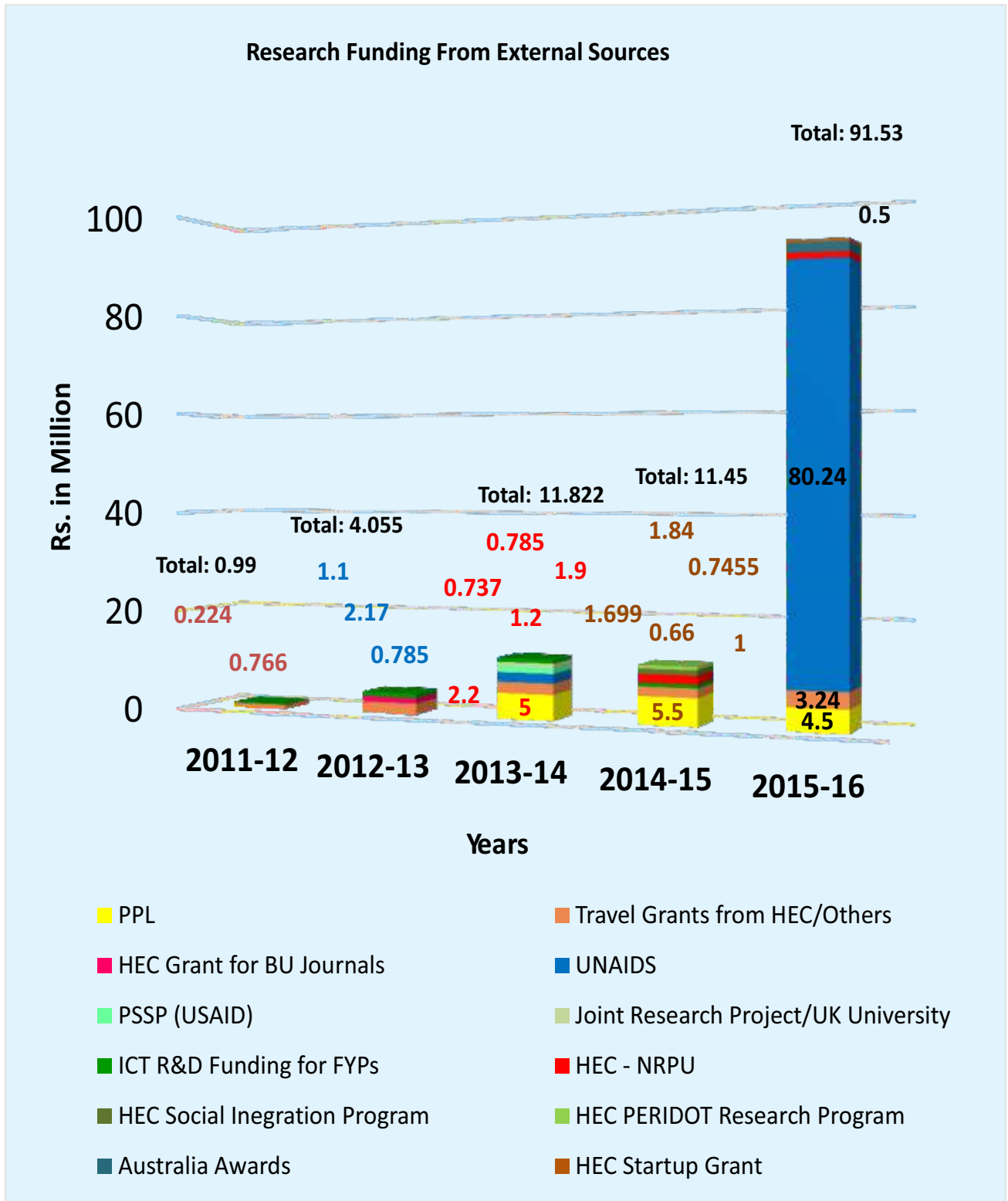
Three PhD scholars have completed their doctoral degree from BU during 2015-16 making the total to seventeen who have been awarded PhD degrees at

BU. Currently, 149 PhD scholars have been enrolled in different programs of PhD, being conducted at BU.



Research Funding from External Sources

As shown in the table given below the amount of funding from external sources has been increased in last five years.



2.14 Sponsored Research Projects

Bahria University believes that research work should be done at applied level where socio-economic improvements are evident. The details of

research funding worth of **Rs. 86.889 Million** acquired by the BU Researchers from external sources, for such research endeavors are as follows:

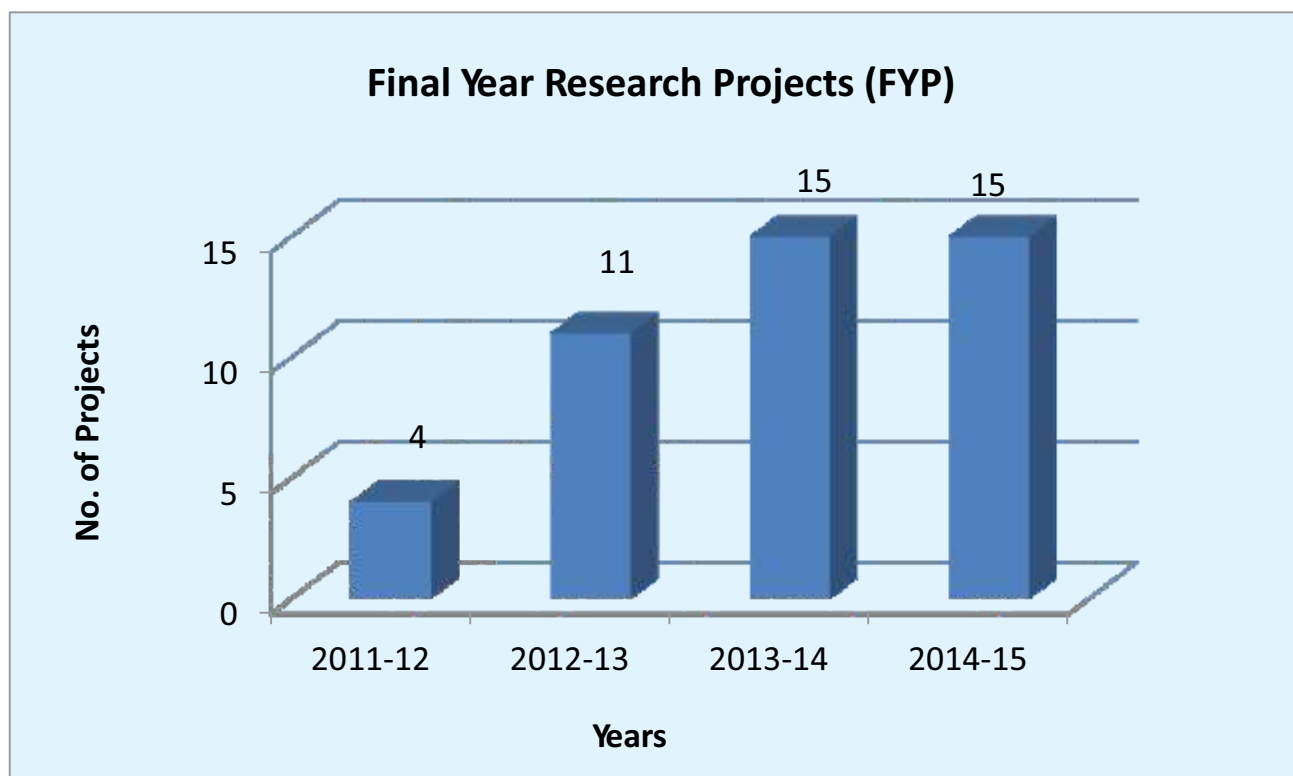
S. #	Project Title	Principal Investigator/ Department(s)	Approved Funding Amount (Rupees in Million)	Date of Approval	Funding Agency
1	AIDS Population Size Estimation of Key Populations in Pakistan Including Development of Investment Cases for Pakistan	Dr. Faisal Aftab Core Team Member Director R&D/ORIC Bahria University HQs, Islamabad	80.42	15 th August, 2015	UNAIDS
2	Re-configurable Processor for lightweight RFID mutual authentication protocols	Dr. Muhammad Ali Shami Assistant Professor Head, Department of Electrical Engineering, Bahria University Islamabad Campus	1.2	14 th December, 2015	National Research Program for Universities -HEC
3	Domestic E-Commerce Business as a Catalyst of Economic Growth: An analysis of opportunities and impediments	Dr. Faisal Aftab Director R&D/ORIC Bahria University HQs, Islamabad	0.859	17 th August, 2015	National Research Program for Universities -HEC
4	Joint Research Project titled "Content based information Retrieval of Urdu printed document images using word spotting"	Dr. Imran A. Siddiqi Assistant Professor Department of Computer Science Bahria University Islamabad Campus	1.81	7 th August, 2015	National Research Program for Universities –HEC
5	PPL Support to activities of PPL Chair at the Department of Earth & Environmental Sciences of Bahria University, Karachi Campus	Prof. Dr. Mubarik Ali PPL Chair & Head, Department of Earth & Environmental Sciences Bahria University Karachi Campus	0.45	4 th September, 2015	Pakistan Petroleum Limited (PPL)

S. #	Project Title	Principal Investigator/ Department(s)	Approved Funding Amount (Rupees in Million)	Date of Approval	Funding Agency
6	Quantification of organic compounds in exploration and production of wastewater and surrounding soil in Sadqal Oil and Gas Field, Fatehjang, Punjab, Pakistan	Dr. Said Akbar Khan Assistant Professor Department of Earth & Environmental Sciences Bahria University Islamabad Campus	0.30	15 th February, 2016	HEC – Startup Research Grant Program
7	Business Incubation Management Short Course at Queensland University, Australia	Won Australia Award by Dr. Faisal Aftab Director R&D/ORIC BUHQs	1.85	12 th August, 2015	Australia Awards
Total Research Funding from Sponsored Research Projects			Rs. 86.889 Million		

Final Year Projects (FYPs) supported by ICT R&D Fund

Fifteen (15) Final Year Projects (FYPs) of the students of Engineering and Computer Sciences disciplines of Bahria University Islamabad & Karachi

Campuses have been approved by the National ICT R&D Fund for research funding during the year 2014-15 while 55 research projects are under evaluation process at National ICT R&D Fund for the year 2015-16, number of an upward trend as compared to previous years are shown



Details of Final Year Projects 2014-15

S. No.	FYP(s) Title	FYP Supervisor Name & Designation	Amount of Funding (Rs.)
BAHRIA UNIVERSITY KARACHI CAMPUS (BUKC)			
Computer Sciences, BUKC			
1.	Development of sensitizers for prosthetic hand	Syed Asim Ali Rizvi Senior Lecturer	Rs. 65,000
2.	Playform, kinder learning system	Syed Asim Ali Rizvi Senior Lecturer	Rs. 17,500
3.	Wifi based home automation system	Mr. Bilal Muhammad Iqbal Assistant Professor	Rs. 61,250
Electrical Engineering, BUKC			
4.	Gesture controlled robotic hand via LMS	Engr. Adil Khan, Assistant Professor	Rs. 54,750
5.	RFID based electronic voting machine	Engr. M. Khalid, Assistant Professor	Rs. 21,250
6.	Smart green house system	Engr. Atif Mobeen, Lab Engineer	Rs. 90,000
Computer & Software Engineering, BUKC			
7.	ACLIC software for crime branch	Engr. Reema Qaisar, Lecturer	Rs. 61,250
8.	ASCL System	Engr. Nabiha Faisal, Assistant Professor	Rs. 31,250
9.	Integrated blood bank service	Engr. Tazeen Muzammil, Assistant Professor.	Rs. 31,250
BAHRIA UNIVERSITY ISLAMABAD CAMPUS (BUIC)			
Computer Engineering, BUIC			
10.	Human detection robotic car	Mr. Muhammad Akbar Yamin, Lecturer	Rs. 41,500
11.	Human identification using electrocardiograph (ECG) signal from wrist mounted sensors	Dr. Usman Akram, Assistant Professor	Rs. 57,500
12.	iTrack system (GPS enabled tracking & navigation)	Engr. Suleman Awan, Assistant Professor	Rs. 36,500
Electrical Engineering, BUIC			
13.	Intelligent traffic lights system	Saad Ul Hassan Lecturer	Rs. 26,500
14.	Modelling, simulation and implementation of prosthetic lower limb	Tayyaba Qaisar Qureshi, Lecturer	Rs. 63,500
15.	Moving object tracking using image processing	Imran Fareed Nizami Assistant Professor	Rs. 86,500
TOTAL			Rs. 745,500

Commercialization of Research

Patent Accepted

Partial Acceptance of a Patent for Bahria University has been received by Prof. Dr. Shehzad Khalid (Head, Department of Computer Engineering, BUIC) on 3rd March, 2016 for a Patent, Software System titled “A Rule Base Urdu Stemming System.”

Patent Filed

Dr. Tamim Ahmed Khan alongwith students named Musab Umer, Syed Ali Hasnain, Suhail Ashraf and Akhtar Ali Khan (Department of Software Engineering, BUIC) have submitted an application on 10th February, 2016 to IPO Pakistan for registration of a patent of a system titled “High Precision Weighing and Weight Management System.”

Bahria University Best Faculty & Student Researcher Awards – 2015

In order to encourage the faculty members and students of Bahria University for the achievements of their research endeavors in a particular year, BU has the policy of Best Faculty and Student Research Awards.

After evaluating the research endeavors of nominations received for the said awards from Constituent Units of BU, Honorable Rector conferred the Best Faculty & Student Researcher Awards (faculty wise) for the year 2015 to the following faculty members & students of Bahria University at each Constituent Unit, details are as follows;

BEST FACULTY RESEARCHER AWARD		
S. No.	Name of Faculty Member	Faculty
1	Prof. Dr. Shehzad Khalid Head, Deptt., of CE, BUIC	<i>Faculty of Engineering & Environmental Sciences</i>
2	Dr. Haroon Rashid Senior Associate Professor Deptt., of EE, BUKC	
3	Dr. Faisal Aftab Associate Professor, Deptt., of MS, BUIC	<i>Faculty of Management & Social Sciences</i>
4	Dr. Zainab F. Zadeh Associate Professor & Director IPP, BUKC	
5	Dr. Rizwana Bashir Senior Associate Professor & Head, Deptt., of MS, BULC	
6	Prof. Dr. Nasim Karim Professor & Head Pharmacology Deptt. BUM&DC	<i>Faculty of Medical Sciences</i>
7	Dr. Kulsoom Fatima Rizvi Assistant Professor & Head, Deptt., Preventive & Community Dentistry BUMDC (Dental Section)	

BEST STUDENT RESEARCHER AWARD		
S. No.	Name of Faculty Member	Faculty
1	Ms. Uzma Jamil <i>PhD Scholar, Deptt., of CE, BUIC</i>	<i>Faculty of Engineering & Environmental Sciences</i>
2	Ms. Lubna Sausan Bajwa MPhil (Socio-Cultural Anthropology) <i>Deptt., of H&SS, BUIC</i>	<i>Faculty of Management & Social Sciences</i>
3	Ms. Affaf Fatima (Student of BUMDC – Dental Section)	<i>Faculty of Medical Sciences</i>

Cash Awards for Best Competitors:

Honorable Rector also announced the four Cash Awards for the best competitors of Best Faculty Researcher Award – 2015, details are as follows;

1. **Dr. Imran Siddiqui**
Associate Professor (Deptt., of CS, BUIC)
2. **Mr. Shaheer Ellahi Khan**
Senior Lecturer (Deptt., of H&SS, BUIC)
3. **Dr. Bashir Ahmad**
Associate Professor (Deptt., of MS, BUKC)
4. **Dr. Duad Mirza**
Assistant Professor (Deptt., of Oral Pathology)
BUM&DC (Dental Section)



Dr. Imran Siddiqui is receiving the Cash Award of Best Competitor from Honorable Rector



Mr. Shaheer Ellahi Khan is receiving the Cash Award of Best Competitor from Honorable Rector



Dr. Bashir Ahmad is receiving the Cash Award of Best Competitor from Honorable Rector



Dr. Daud Mirza is receiving the Cash Award of Best Competitor from Honorable Rector

University - Academia Linkages (2015-16)

To promote and develop University-Academia linkages, Bahria University signed following MOUs with various Higher Education Institutions at National & International Level during the year under report:

1	Hunan International Economic University	13 th April, 2016
2	National Centre of Excellence in Geology (NCEG), University of Peshawar	3 rd March, 2016
3	NED University of Engineering & Technology, Karachi	16 th December, 2015
4	University of Gujrat, Gujrat	27 th November, 2015
5	Pakistan Institute of Learning & Living	18 th November, 2015
6	Air University, Islamabad	15 th September, 2015
7	Hangzhou Dianzi University, China	10 th August, 2015

HUNAN INTERNATIONAL ECONOMIC UNIVERSITY, CHINA

An MOU has been signed between Hunan International Economic University, China and Bahria University, Lahore Campus on 13th April, 2016.

Through this MOU, BU and Hunan International Economic University agree to work together to promote outreach and research.



NATIONAL CENTRE OF EXCELLENCE IN GEOLOGY (NCEG) UNIVERSITY OF PESHAWAR, PESHAWAR

The management of Bahria University is striving hard to promote linkages with leading Universities and R&D Organizations of Pakistan for the purpose of achieving the vision and mission of Bahria University.

An MOU has been signed between National Centre of Excellence in Geology (NCEG), University of Peshawar (Peshawar) and Bahria University Islamabad Campus on 3rd March, 2016.

The said MOU was signed by Dr. Irshad Ahmad, Professor & Director, National Centre of Excellence in Geology (NCEG), and Rear Admiral (Retd) Saleem Akhtar, Pro-Rector (BU) & Director General – Bahria University Islamabad Campus.





MOU signing ceremony between Bahria University & NCEG

NED UNIVERSITY OF ENGINEERING & TECHNOLOGY KARACHI

An MOU has been signed between **NED University of Engineering & Technology, Karachi** and Bahria University, Islamabad on 16th December, 2015.

The said MOU was signed by Dr. Syed Mehmood Hassan, Director ORIC - NED University of Engineering & Technology and Dr. Faisal Aftab, Director ORIC – Bahria University.



UNIVERSITY OF GUJRAT, GUJRAT

An MOU has been signed between **University of Gujrat (UoG), Gujrat** and Bahria University, Islamabad on 27th November, 2015.

The said MOU was signed by Dr. Mudassar Iqbal, Director ORIC - University of Gujrat and Dr. Faisal Aftab, Director ORIC – Bahria University.



PAKISTAN INSTITUTE OF LEARNING & LIVING

An MOU has been signed between **Pakistan Institute of Learning & Living, Karachi** and Institute of Professional Psychology, BU Karachi Campus on 18th November, 2015.

The said MOU was signed by Dr. Nusrat Hussain, Director, Pakistan Institute of Learning & Living and Dr. Zainab F. Zadeh, Director IPP – BU Karachi Campus.



AIR UNIVERSITY, ISLAMABAD

An MOU between Bahria University and Air University (AU) was signed on 15th September, 2015.

The said MOU was signed by Honorable Vice Chancellor - Air University and worthy Pro-Rector – Bahria University.

By signing this MOU the two Institutions indicate their willingness to encourage cooperation and direct contact between schools/faculties and departments.



MOU signing ceremony between Bahria University & Air University



HANGZHOU DIANZI UNIVERSITY, CHINA

An MOU has been signed between **Hangzhou Dianzi University, China** and Bahria University, Islamabad on 10th August, 2015.

The said MOU was signed by Vice President, Hangzhou Dianzi University and Director General – BU Karachi Campus.



UNIVERSITY-INDUSTRY LINKAGES

(2015 - 16)

To promote and develop University-Industry linkages, Bahria University signed following MOUs with various organizations during the year under report:

1	Securities and Exchange Commission of Pakistan	October 16, 2015
2	Maritime Technologies Complex (MTC), Islamabad	July 16, 2015

SECURITIES & EXCHANGE COMMISSION OF PAKISTAN (SECP), ISLAMABAD

The management of Bahria University is striving hard to promote linkages with leading Universities, R&D Organizations and Industry of Pakistan for the purpose of achieving the vision and mission of Bahria University.

An MOU between Bahria University and Securities & Exchange Commission of Pakistan (SECP) was signed on 16th October, 2015.

The said MOU was signed by Honorable



Commissioner (IE&RD) - Securities & Exchange Commission of Pakistan (SECP) and worthy Registrar – Bahria University.

MARITIME TECHNOLOGIES COMPLEX (MTC), ISLAMABAD

An MOU between Bahria University and Maritime Technologies Complex (MTC), was signed on 16th July, 2015.

The said MOU was signed by Honorable Director General (MTC) and Honorable Rector – Bahria University.

The purpose of this MOU is to provide framework to BU and MTC to undertake Research & Development work in the areas of mutual interest and share the resources where ever possible.



The National Centre for Maritime Policy Research (NCMPR) which is a constituent units of BU, can provide technical expertise in all areas of Maritime Technologies and can work on areas of mutual interest of both parties.

PLC LAB at BULC in collaboration with Electrical Engineering Solutions International (EESINT)

Through an MOU signed with M/S Electrical Engineering Solutions International (EESINT) on 7th November 2013, they have established a PLC Lab at

BUIC, by providing equipment worth Rs. 3.7 Million free of cost.

Four Batches of students and professionals have been trained in the year during report and BU generated in total Rs. 137,160 of revenue. The details of the trainings are as follows;

Batch #	Name of Workshop	Name of Resource Person	No of Participants	Date	Duration	Content Covered
9	CPD Workshop PLC	Mr. Musab Umer	10	5 Oct, 15	1 week	PLC
10	CPD Workshop HMI	Mr. Musab Umer	12	11 Oct, 15	1 week	HMI,SCADA
11	PLC-IA Workshop	Mr. Usman Rasul	8	18 Jan, 16	2 weeks	PLC,HMI,SCADA
12	PLC-IA Workshop	Mr. Musab Umer	3	16 Apr,16	2 weeks	PLC,HMI,SCADA



Equipment installed by EESINT at PLC Lab, BUIC

National Conferences Organized by Bahria University

1st National Conference on “Emerging Trends and Innovations in Computing & Technology” (NACTICT '16),

Bahria University Karachi Campus hosted **1st National Conference on “Emerging Trends and Innovations in Computing & Technology” (NACTICT '16)**, a two-day conference organized on **15 – 16 March, 2016**. The aim of this conference was to provide a platform for linkages between Industry Professionals and Academicians at the National Level. This linkage intends to lead towards the development of new Innovation Systems and the use of future oriented technologies for the betterment of Pakistan.

Honorable Mr. Nisar Ahmad Khuhro, Sindh Senior Minister for Education and Literacy inaugurated the conference. While addressing the audience of the conference, he emphasized on the role of educational institutions to embark upon the platform of research and innovation in order to meet future challenges. He emphasized on conference participants to bridge the bond between research scholars, industry professionals, private sector and decision makers through such initiatives. In this regard, the industry has a very important role in the country's economics, therefore, all have to come forward, gloves in hand in order to develop the university – industry linkages, he added.

In his welcoming remarks, Director General Bahria University Karachi Campus, Vice Admiral (Retd) Khawaja Ghazanfar Hussain HI(M) thanked Higher Education Commission and other sponsors for their support. He said that this is the era of Computer Science and IT, so this conference will bring together researchers who are working in the fields such as Big Data, Security, Intelligent Systems, Natural Language Processing, Artificial

Neural Networks and many more other important disciplines. The aim is to stress upon the need to enhance the learning and provide opportunities to solve future challenges regarding computer Technology. But we can succeed only with continued interest and support from diverse parties including industries, the academia, the government, and investors. In addition, we at BUKC will boldly and resourcefully meet the challenge posed by commercialization instead of merely focusing on the academic aspect.

Various national speakers spoke during plenary sessions. Dr. Syed Nasir Mehmood Shah, Head Department of Computer Science, KICSIT, Dr. Hammad Raza, Assistant Professor National University of Sciences and Technology (NUST), Dr. Imran Ahmed Siddiqui, Associate Professor Department of Computer Science Bahria University Islamabad Campus and Dr. Tariq Mehmood, Assistant Professor, PAF-KIET Karachi, Dr. Najam-ul-Islam, Dean Engineering Sciences Faculty, Bahria University were the key notes speakers at the conference.

The conference, a joint-venture between HEC and Bahria University, aimed at providing an opportunity for researchers and practitioners to present their contributions and exchange ideas related to various challenges in the domain of Autonomous Computing, Communication and Networking and Software Engineering. The purpose was to bring together researchers from academia and industry to exchange their ideas and results, and to discuss the state of the art research in the emerging trends in Computing and Technologies. The conference also held an Engineering Design Exhibition (EDX) to provide platform for students to showcase their creative and innovative ideas and designs. The conference culminated on 16th March 2016. A large number of academicians, researcher and students attended.

RESEARCH & DEVELOPMENT



Glimpses of NACTICT '16 at BUKC



National Maritime Seminar (NMS – 2016)

Theme: *China – Pakistan Economic Corridor: It's Maritime Implications for Pakistan*

National Centre for Maritime Policy Research (NCMPR), Bahria University organized 3rd National Maritime Seminar on 21 January 2016 at Karachi Campus. On this occasion, renowned scholars were invited to speak on the theme China – Pakistan Economic Corridor: it's Maritime Implications for Pakistan. Admiral (Retd) Shahid Karimullah NI (M), SJ, Former Chief of the Naval Staff graced the occasion as the Chief Guest, while Vice Admiral (Retd) Khalid Mohammad Mir HI (M), S.Bt attended as Guest of Honour.

In the first session, while keeping Gwadar in focus, Rear Admiral (Retd) Pervaiz Asghar HI (M) talked about the increase of Pakistan's share in the Global Maritime Economy. Commodore Dr. M Ihsan Qadir SI (M) presented a paper on behalf of Mr Khalid Rehman, Director General Institute of Policy Studies, Islamabad on the topic, "The Socio- political and diplomatic implications of the China – Pakistan Economic Corridor. The paper stated that CPEC, though apparently a bilateral initiative holds several social, political and diplomatic implications not only for Pakistan and China but for the whole region.

Similarly, in the second session, Maritime Security Challenges were highlighted by Cdre Ali Abbas SI (M), Commandant PNS BAHADUR. He said that the expected economic boom out of China-Pakistan Economic Corridor is coupled with maritime security challenges in traditional military as well as non-military domains which need to be catered to make this project a reality.

Also addressing the participants of the seminar, Prof. Din Mohammad Kakar, Assistant Professor from University of Balochistan, dilated upon the Challenges of Natural Disasters in view of a case study of Makran Coast.

Earlier in his speech, Vice Admiral (Retd) Khalid Mohammad Mir HI (M), S.Bt stated that Pakistan is passing through economic transition and Gwadar is indeed a viable opening for prosperity and development of Pakistan. The employment opportunities generated by this project will definitely strengthen the economic stability in the region which in turn would uplift the current economic situation of Balochistan in particular and Pakistan in general.

Chief Guest of the seminar Admiral (Retd) Shahid Karimullah NI (M), SJ, while expressing his views said that the bilateral strategic planning from both countries; Pakistan and China with profound understanding of economic implications can

benefit them simultaneously. He also commended the efforts of NCMPR to create awareness and assemble galaxy of experts to deliberate on such an emerging subject.

Seminar Convener, Rector Bahria University Vice Admiral (Retd) Tanveer Faiz HI (M) in his closing remarks, thanked the worthy Chief Guests, participants and the speakers. In addition, he mentioned about the substantial role of Pakistan Navy for the development of CPEC. He informed that more than 400 marines of Pakistan Navy's Third Marines Battalions are providing security round the clock to Gwadar Port. Recently, Pakistan Navy has also decided to deploy two more marines battalions to enhance further security for the project teams.

Prominent dignitaries from trade and industry, stakeholders from maritime sector, naval officers, intellectuals and researchers were present during this significant gathering.

Dinner in the Honor of the Members - Corporate Advisory Committees (CACs) of Bahria University

Corporate Advisor Committees (CACs) comprising of members coming from the relevant Industries or Business/Service Organizations for the promotion of University-Industry Linkages at Bahria University.

Major functions of the CACs are;

- Curriculum review for its alignment to meet needs of local industry.
- Sponsored R&D projects for BU students.
- Consultancy services for the industry.
- Professional Development short courses for the industry.
- Guest Speakers for BU students.
- Internships & Placements for BU students.
- Bahria University on behalf of Rector – BU **“Vice Admiral (Retd) Tanveer Faiz HI (M)”** organized a Dinner in Honor of the Members of Corporate Advisory Committees (CACs) of Bahria University held on **February 15, 2016 at The Monal Restaurant** Pir Sohawa – Margalla Hills, Islamabad.

Dignitaries from the following organizations/ Corporate Sector/Academia attended the said dinner:

- ICT R&D Fund
- PTCL
- Ufone
- Pakistan Software Export Board (PSEB)
- Pakistan Meteorological Department (PMD)
- MultiNet Pakistan Pvt. Ltd.
- NET Tech.
- Estart
- Teknika Pvt. Corporation of Pakistan
- PUD Energy, Pakistan
- Islamabad Stock Exchange
- OGDCL
- SECP
- Shinkai Petroleum Ltd. Pakistan
- SNL Pakistan Pvt. Ltd.
- Channel 7
- Pakistan Institute of Entrepreneurship (PIE)
- Brunel University
- National Institute of Electronics (NIE)
- International Islamic University

Officials from government organizations like Ministry of Planning Commission, Ministry of Law, NADRA, Islamabad High Court, Supreme Court of Pakistan and NESCOM also attended the dinner. Higher Management, faculty members and members of CACs from Bahria University were also present in the dinner. This was a great opportunity for the faculty members/researchers and personnel from industry for networking and to discuss the new trends in the industry and how industry can get benefit from academia.

Honorable Rector – BU **“Vice Admiral (Retd) Tanveer Faiz HI (M)”** in his address to the respected participants said that the gathering will help to reduce the gap between Industry and Academia and to increase the future collaborations in mutual areas of interest. Research at Bahria University can provide solutions to the problems being faced by industry at applied level especially in telecom

RESEARCH & DEVELOPMENT

sector and corporate sector/industry is a source of job opportunities for the graduates of BU which ultimately leads to the socio-economic development of Pakistan.

Mr. Tahir Chaudhry, President & CEO Pakistan Institute of Entrepreneurship (PIE), appreciated the Bahria University initiative of bringing Industry & Academia at one platform.

Mr. Murtaza Abbas, Deputy Director, SECP and Syed Ali Abbas, Director Operations, Pakistan Software Export Board (PSEB) spoke on the importance of the linkages and encouraged the joint efforts to bridge the gap between the academia & Industry. SECP's trainings on awareness of financial decision making and PSEB's internships were some of the initiatives mentioned to bridge the gap.



Glimpses of CACs Dinner

Director ORIC won the Australia Award

Dr. Faisal Aftab Director ORIC, BU won Australia Award worth of AUD 25,000 from Australia Awards, Australia, under Australia Short Course Award - 2015, Dr. Faisal Aftab attended a short course on "Business Incubator Management" from 9th Nov – 11th Dec, 2015 at the University of Queensland, Australia. The topics covered by him in this course are as follows:

- Establishing Innovative Enterprises.
- Business Incubation Centre (BIC) Management Practices.
- Observing Good Practices in Australian BICs for application in Pakistan.
- Understanding Human Resource Principle & Practice.
- Inculcating Entrepreneurial Environments.



Business Incubator Management
 Australia Awards Short Course
The University of Queensland
 9th November-11th December 2015



Group Photo of the participants of Short Course on Business Incubation Management Workshop

Representation of Bahria University at an International Conference in USA by Director ORIC

Dr. Faisal Aftab Director ORIC, BU presented his Research Paper titled "Observing the role of higher education institutions in innovation of new technologies through hybrid formations" in Third 21st Century Academic Forum Conference on 20-22 September, 2015 at Harvard University, USA. He

received the travel grant from HEC for attending the said conference in USA.



Dr. Faisal Aftab presenting his research paper in Third 21st Century Academic Forum Conference at USA

Symposium on “Fundamentals of Intellectual Property & Patent Filling” attended by Director ORIC and Manager ORIC

Dr. Faisal Aftab Director ORIC and Mr. Abrar Hussain Manager ORIC participated and represented Bahria University in a one day Symposium on “Fundamentals of Intellectual Property & Patent Filling” on 30th April, 2016 at Lahore University of

Management Sciences (LUMS), Lahore.

The objective of the Symposium was to initiate a debate at the national level and build capacity in converting the innovation into commercial products and registered patents. The symposium focused on highlighting the importance of commercialization, producing and promoting entrepreneurial culture within our educational institutions.



Dr. Faisal Aftab and Mr. Abrar Hussain receiving the Certificate of Participation in a Symposium at LUMS

Workshop on “Research Integrity and Peer Review” attended by Editors of BU Journals

In order to enhance the professional skills in Research Integrity and Peer – Review process. Office of Research, Innovation & Commercialization (ORIC), Bahria University provided the opportunity to BU Journals' Editors to attend the one day workshop on “Research Integrity and Peer Review.” The workshop was organized by the Asian Council of Science Editors (ACSE) on 18th February, 2016 at Marriott Hotel, Islamabad. The following Editors of BU Journals attended the Workshop on Research Integrity and Peer Review:

- a. **Dr. Haroon Rasheed** – Editor Bahria University Journal of Information & Communication Technologies (BUJICT) and Head, Deptt., of EE, BUKC.
- b. **Dr. Zainab Hussain Bhutto** – Editor Bahria Journal of Professional Psychology (BJPP) and Assistant Professor, IPP, BUKC.
- c. **Prof. Dr. Nasim Karim** – Editor Journal of BU Medical & Dental College (JBUM&DC) and Head, Deptt., of Pharmacology, BUM&DC, Karachi.
- d. **Dr. Rizwana Bashir** – Editor BU Global Management Journal for Academic and Corporate Studies (GMJACS) and Head, Deptt., of MS, BULC.
- e. **Mr. Abdur Rauf Khatana** – Editor BU Journal of Law & Social Policy (BUJLSP) and Assistant Professor, Deptt., of Law, BUIC.
- f. **Ms. Nahgmana Zafar** - Editor, Polaris – Journal of Maritime Research and Staff Officer Research at NCMPR, BUKC.
- g. **Mr. Jahangir Khan** – Member Editorial Board BU Research Journal in Earth Sciences (BURJES) and Senior Lecturer, Deptt., of E&ES, BUKC.

Dr. Elizabeth Wager, Publication Consultant Side View and visiting faculty at University Split conducted edifying sessions on raising the academic quality of peer review, ethics and reducing bias in review process. With the help of case studies she also briefed about practicalities of peer review. At the end of the workshop all participants were awarded certificates. The workshop provided an enriched platform to editors for interaction with experts of other intuitions and universities for sharing their experiences.



Group Photo of the participants of Research Integrity and Peer Review-Workshop

Bahria University qualifies for International Robotics Competition

RoboCup is the leading and largest competition for intelligent robots , and one of the world's most important technology events in research and training. The International robots competition, RoboCup@Home, is about to hit off soon which is being held annually since 1997. The main aim is to promote the research in the areas of human-robot interaction and co-operation, computer vision navigation, object-recognition, and manipulation etc. RoboCup@Home competition consists of benchmark tests that the robots have to solve in a given scenario of a basic home environment. This will help to develop the service assistive robot technology with high relevance for future domentis and personal applications. RoboCup@Home is one of the major leagues of RoboCup, which includes RoboCup@Work, RoboCup Rescure, RoboCup Junior and RoboCup Standard Platform League.

The team 'Machinilog' from Bahria University Islamabad, which is one of the leading institutes in Science and Technology – after indigenously designing a robot has successfully qualified for the RoboCup@Home 2016. The team comprises of five under-graduate engineering students, Haseeb Aslam (team leader), Tahir Mehmood, Basit Akram, Osama Ahmed and Hamza Hakeem along with two mentors, Arsalan Akhter and Ammar Ajmal.

“Qualification is unquestionably a milestone in our journey of RoboCup@Home competition. It is the result of tireless efforts of the team and interminable support from our mentors that we have qualified. We hope to do well in the

competition.” said Haseeb Aslam, the team leader of 'Machinilog'.

In order to qualify for this specific league, the teams are supposed to design robot capable of performing some benchmark tasks in a given scenario of a basic home environment. Furthermore, they have to submit a qualification video of working of the robot along with a team description paper describing their work to the RoboCup Federation. All of these are assessed on the amount of scientific contributions, design techniques, creativity and innovation involved in the designing of the robots.

“I know for a fact that this team could do wonders, if provided with the right infrastructure and resources required.” said Arsalan Akhter, project supervisor. “I have seen students spend numerous nights at the university. I am glad that their efforts have proved to be fruitful in the form of qualification. I wish them best of luck for the event.” said Prof. Dr. Shehzad Khalid – Head of Computer Engineering Department.

Rector Bahria University, Vice Admiral (Retired) Tanveer Faiz HI (M) added; “The fact that the students from all disciplines of academia are excelling, gives me an immense pleasure. Such events have proved that Bahria University being started as a Business and Management Institute has now grown into a full fledge knowledge base and ground vehicle for excellence in all the modern fields of academic domains.” Undoubtedly, Pakistan has all the intellectual capacity it needs to transform from an underdeveloped country into a developed one.



Group Photo of Team from Bahria University with Registrar, Director ORIC & HOD CE, qualified for RoboCup@Home 2016



CHAPTER - 3

Quality Assurance

Quality Assurance in Bahria University

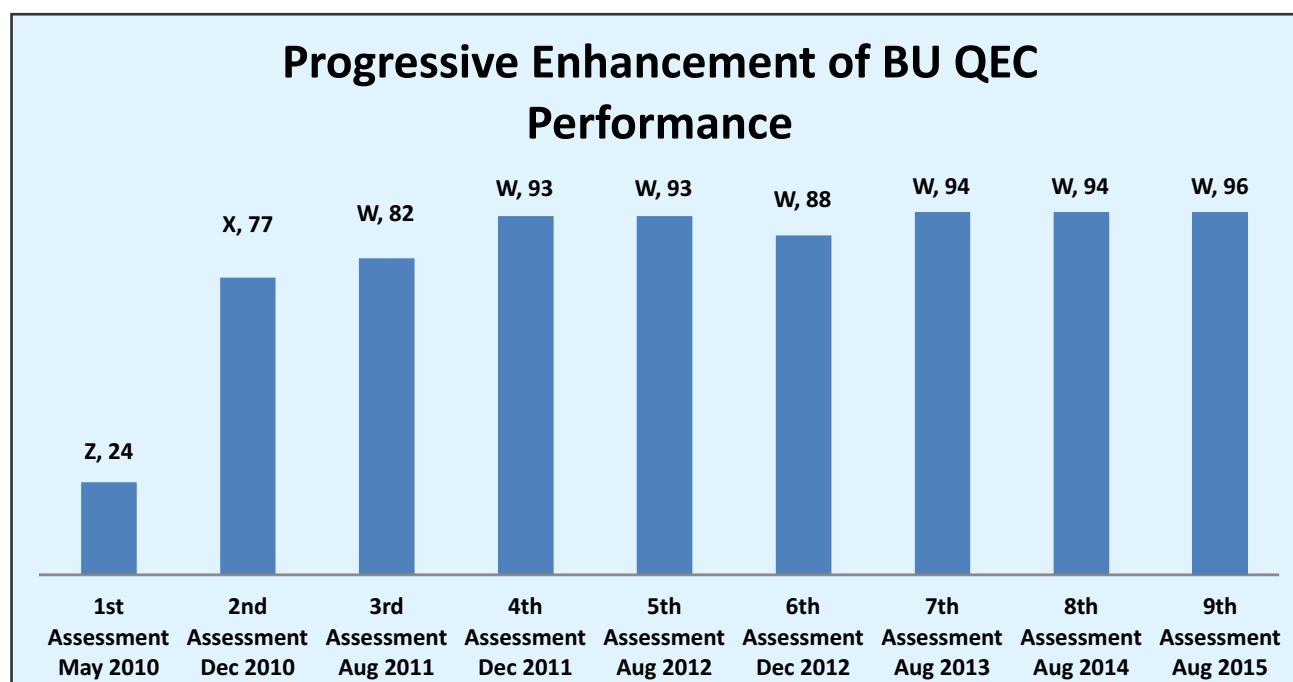
Over the years Quality Assurance structures have been well entrenched into Higher Education Institutions in Pakistan. The HEIs are seriously implementing Academic Standards set out by HEC Quality Assurance Agency. Bahria University is stringently mirroring these quality codes based on QAA guidance and formulate academic procedures

including programme design, teaching & learning, student engagement, assessment, external examination and research. In order to ensure adherence to national standards BU academic programmes are regularly assessed through internal and external periodic reviews.

Establishment of Quality Enhancement Cells by HEC

Phase	Year	QEC Established in Universities
Phase I	2006	10
Phase II	2008	20
Phase III	2009	15
Phase IV	2011	24

Ranking of Quality Assurance Directorate by HEC



Membership of International Quality Networks

DQA of Bahria University is member of following International Quality Networks/ Organizations:

- APQN (Asia Pacific Quality Network)
- INQAHE (The International Network For Quality Assurance Agencies in Higher Education)
- AQAIIW (Association of Quality Assurance Agencies of the Islamic World)
- Talloires Network
- ACU (Association of Commonwealth Universities)

Self-Assessment

QA Cycle	Date of Visit	Campus
1 st	11 Jan to 13 Jan 2011	Islamabad
	17 Jan to 19 Jan 2011	Karachi
2 nd	15 to 17 Feb 2012	Islamabad
	22 to 24 Feb 2012	Karachi
3 rd	17 to 19 Sept 2012	Islamabad
	24 to 26 Sept 2012	Karachi
4 th	16 Sept to 19 Sept 2013	Islamabad
	23 Sept to 26 Sept 2013	Karachi
5 th	15 Sept to 17 Sept 2014	Islamabad
	29 Sept to 01 Oct 2014	Karachi
6 th	5 to 7 October 2015	Islamabad
	15 to 17 Nov 2015	Karachi

Capacity Building Measures

HEC Organizes 10th Quarterly QECs Meeting

The 10th Quarterly meeting of Quality Enhancement Cells of Public Sector Universities (Phase -III) was held at HEC regional office, Peshawar on 19-20 April 2016. Director Quality Assurance Cdr (R) Muhammad Mudassar represented Bahria University in the meeting.

Dr. M. Rafiq Baloch, DG QAA, HEC chaired the meeting. The purpose of the meeting was to improve the quality of education through Self Assessment. All participants presented functional

performance of their respective QECs, and best practices being used by them in Self Assessment process.

The question/answer session proved very interactive and provided opportunity to express their views and diversified experiences in progression of Quality Assurance at their respective Universities. The meeting was culminated on Friday 20 April 2016 with a vote of thanks to DG QAA, HEC by the participants.



Capacity Building Measures

Lecture on Quality Assurance and Self-Assessment

Quality Assurance Directorate of Bahria University arranges guest lectures on regular basis for the capacity building of faculty members. Under this domain, Prof Amanullah Khan, Dean, Management Sciences- RIU was invited on 17 November 2015, to deliver a lecture on Quality Assurance and Self-Assessment. This was attended by the Directors, Head of the Departments, research scholars and BU faculty members. During the session, speaker briefed the audience about the Self-Assessment Procedure and its importance for improving the quality of teaching in a University. He informed that Self-Assessment is the prime function of QEC. He further briefly discussed the role and responsibilities of Program and Assessment Teams and pre-requisites for conducting a successful Self-Assessment Exercise. He also identified key areas of Self-Assessment Report (SAR). It was a very productive gathering for the attendees.



Director Quality Assurance attended session on “Quality Assurance in Higher Education” organized by Riphah & QPSP

Riphah International University and Quality and Productivity Society of Pakistan (QPSP) jointly organized a national seminar on “Quality Assurance in Higher Education” at Riphah International University Rawalpindi on June 17, 2016. The objective of the seminar was to discuss the key challenges in implementing the quality assurance mechanism in Pakistani universities. Mr. Fazal Wahab Director Quality Assurance Bahria University, Ms. Samina Chaudhry, Deputy Director Quality Assurance Bahria University Islamabad Campus and M. Iftikhar Ali QA Officer from Directorate of Quality Assurance Bahria University Head Office Islamabad attended the national seminar. The session was attended by various quality assurance experts, Deans, Directors and faculty members from more than 40 public and private sector universities of the country.



Pro-Chancellor Riphah International University Mr. Hassan Muhammad Khan welcomed the participants. He shared the great news that Riphah has recently won Internal Quality Assurance Award. He thanked the participants who had come from all over the country to attend this event.

Chairman QPSP Prof. Dr. Ali Sajid, speaking at the occasion, said that quality infrastructure of Pakistani Institutions is facing different challenges such as low level of empowerment to vice chancellors, low budgetary allocations, low training and staff of faculty, lack of industry funded projects and low quality culture. Adding further, he said that this has led to inadequate faculty development mechanism and ineffective performance management system in universities. To overcome these challenges, he recommended that university quality enhancement departments have to make an extra effort in terms of involvement in implementation of the quality processes.

Director QEC Riphah International University Brig. (R) Salim Ahmed Khan talked about University Ranking Criteria set by Higher Education Commission Pakistan. Highlighting the key points of the quality scorecard he emphasized that



universities must align their activities according to parameters set by HEC. He concluded with the

remarks that universities should focus on increase in number of research proposals, patent registrations, increase in number of PhD qualified faculty, training and development of faculty and university-industry linkage.

The session also included panel discussion in which QA experts from Iqra University, NUST, Air

University and UHS Lahore discussed the key challenges they faced in implementing quality processes.

Vice Chancellor Riphah International University Prof. Dr. Anis Ahmed, while giving his concluding remarks, appreciated the effort of all experts who gathered at one forum to discuss the challenges. He assured that Riphah will always play key role in imparting quality education according to Islamic ethical values.

Chairman QEC Riphah, Prof. Amanullah Khan while delivering the vote of thanks, thanked all the participants for their participation and contribution in the event. The event ended with the award of certificates and souvenirs to all the participants. VC Riphah Prof. Dr. Anis Ahmed presented the awards to the speakers. The event ended with dua'a.



HEC Indigenous on Campus Training (IOT) 2016

As a capacity building exercise held on 5-7 Jan 2016, Quality Enhancement Cell of National Defense University in collaboration with HEC organized Indigenous on Campus Training (IOT).

Mr. Muhammad Anwar Khan participated from QA Directorate of Bahria University. More than 20 universities representatives participated in the subject training. The purpose of the training was to provide awareness about roles and functions being performed by University Administration.

Resource Persons briefed about how QEC, International Office, Academic Affairs, ORIC, Human Resource function in a university. Training proved

very helpful as many queries were addressed and new knowledge was revealed. At the end of the training, Certificates of Participation were awarded to the participants.



How to Prepare Self-Assessment Report

Two Days Orientation Workshop on “How to Prepare Self-Assessment Report – SAR” was organized on 4th & 5th May 2016 via Video Link Conference for the Quality Assurance Committee

Members and Faculty members of BU Islamabad, Karachi, & Lahore Campus. Participants from Institute of Professional Psychology & NCMPR Karachi were also present.





CHAPTER - 4

International Collaborations

International Collaboration

Changing dynamics of higher education requires educational institutes to build alliances with international universities to expand resources and pool of information available to students, faculty and other stakeholders. Internationalization is functioning at the heart of Bahria University's'

operations. The International office BU supports meaningful formal relationships with foreign universities and institutions. Such relationships bring a wide range of educational benefits, such as credit transfers, student/faculty exchange programmes and joint research projects.

Students Exchange/Study Abroad

S.No	Name	Department	Semester
Yasar University, Turkey			
1	Ms. Sadaf Mujeeb	BS (Psychology)	Fall 2012
2	Ms. Marvi Abro	Bs (Social Sciences)	Fall 2012
3	Mr. M. Azeem Chaudhry	BBA	Spring 2013
4	Mr. Aun M. Ghazali	BBA	Spring 2013
5	Mr. Syed M Naqi Hussain	BE (EE)	Fall 2013
6	Ms. Sana Tanveer	MBA	Spring 2014
7	Mr. Saad Naeem	BSE	Fall 2014
8	Ms. Bushra Quddus	MS PM	Spring 2015
9	Ms. Syeda Batool Najam	IPP	Spring 2015
10	Ms. Bushra Zainab	IPP	Spring 2015
York St. John University, UK			
1	Mr. Hafiz. M. Usman Rana	MBA	Fall 2014
2	Ms. Anum Aslam	MBA	Fall 2014
3	Ms. Amina Mahnoor Sohail	BSE	Fall 2014
4	Ms. Salaka Aslam Chaudry	MSPM	Fall 2014

Visit by Delegation from Burapha University, Thailand

A delegation from Burapha University, Thailand visited Bahria University on 21st April, 2016. Following member delegation from Burapha University visited:

- a. Dr. Rittikorn Siriprasertchok
Vice President of Global Relations Center
- b. Mr. Phonchai – Chai In
Director Global Affairs, Global Relations Center
- c. Mr. Salman Rahman Khan
Chief Coordinator, Global Relations Center
- d. Mr. Jirut Tuandilok
Global Relations Officer

During the visit the delegation met the senior officials of Bahria University to discuss various academic collaborations between both the Universities.

Guest Talk by Head of Mission Portugal H.E. Dr. Joao Sabido Costa

A delegation from Portugal Embassy visited Bahria University on 17th May, 2016 headed by the Head of Mission Portugal H.E. Dr. Joao Sabido Costa. Dr. Costa delivered a guest talk to the students of Bahria University on the topic "Portugal: Culture, International Relations and a Student's Perspective". Along with the guest H.E. met the senior officials of Bahria University.



Active Citizens Program Study Visit to Nigeria

Under the Active Citizens program (initiated by the British Council) Institute of Professional psychology nominated Duaa Dehraj, a student of 8th semester for an International study visit in Nigeria from 27th February to 5th of March 2016. The study visit was hosted by Usmanu Danfodiyo University, Sokoto for several universities and Non-Governmental Organizations in their first ever study visit in Africa.

The event was inaugurated by the vice chancellor UDUS. The inauguration ceremony was set up as a market place for participants to display their respective cultures. The event organized a world cafe where all the participants in the event showcased their communities, their peculiarities and discussed the importance of social action projects. The event also included community visits to places like Gumbriwara Literacy school, Suama Dundera village in Sokoto and a cultural night at Giginya hotel Sokoto.

During the study visit, the participants were engaged in different activities as pilot projects (Career counselling, tree plantation, clay pottery, leather cover making) for the UDUS active citizen program. The pilot projects allowed participants to participate in the community and have an experience of the community life in Nigeria.

Visit by Vice Chancellor of Sir John Kotewala Defence University, Colombo Sri Lanka

The Vice Chancellor, Major General Milinda Peiris of Sir John Kotewala Defence University (KDU), Colombo Sri Lanka visited Bahria University on 25th June, 2015 to discuss future academic partnerships between both the Universities.



During his visit he met the Honorable Rector Bahria

University, senior members and HODs of BUIC. The discussions were mostly based upon credit articulation and PhD Programmes

United States Education Foundation in Pakistan (USEF) Got Talent

Just like last year the finale of USEFP got talent was held at Bahria University Islamabad Auditorium on 21st November, 2015. The event was based on the theme of famous American TV programme 'America's Got Talent,' in which students from various schools, colleges & Universities in Islamabad performed various skills they had, mostly including, singing, acting, dancing etc.

Visit by Mrs. Sharne Procter, Director International Office, Durham University

Mrs. Sharne Procter, Director International Office, Durham University, UK visited Bahria University on 18th November, 2015 to discuss the possibility to start a Split PhD arrangement with BU & Durham University. During her visit she met the Honorable Rector BU, Registrar & other senior higher officials.



Guest Lecture by the Turkish Ambassador

The Turkish Ambassador H.E. Sadik Babur Girgin delivered a guest talk to the students of Management & Social Sciences of Bahria University Islamabad on "Turkey's Recent Economic Progress" on 17th November, 2015. During his visit he met the Honorable Rector BU.



5 Day Training workshop on Entrepreneurship

Entrepreneurial Alliances in collaboration with Bahria University conducted a workshop on Entrepreneurship from 16th – 20th Nov, 2015. The training workshop covered various aspects such as venture capital engagement, fundamentals of buying a small business, product design, social entrepreneurship etc. The training workshop was attended by selected students from different Universities of Islamabad.

Musical Event by US Embassy

US Embassy organized a Musical Event at Bahria University Islamabad Auditorium on 17th Nov, 2015. The event titled as 'Center Stage Tour Team' in which two famous bands performed for the students of BUIC:

- Malang Party
- Red Blood Cats

A delegation Valparaiso University, USA

Bahria University organized a training for the faculty of BUIC, BUKC, & BULC on the topic Pedagogical Innovation from 23rd – 24th Nov, 2015 at BUIC & from 26th – 27th Nov, 2015 at BUKC. Following team members of Valparaiso University visited BU

i) Dr. David Rowland

Executive Director Office of Institutional Innovation

ii) Dr. Jim Nelson

Professor of Psychology

iii) Dr. Melissa Desjarlais

Associate Prof. of Mathematics & Statistics

iv) Ms. Polly Wainright

Lecturer in Computing & Information Sciences





Bahria University delegation visit Singapore & Hong Kong

Bahria University as an institution believes in learning from people around the world. Its tradition of sending its team members to different places around the world is just one of such instances. A delegation from BU visited Singapore & Hong Kong, from 15 to 22 August 2015. It comprised two members including Registrar, Rear Admiral (Retd) Shahid Saeed HI (M) and Mr Muhammad Awais Mehmood, Deputy Director, Foreign Collaboration Programmes. During this visit, the delegation went to various universities, which included Nanyang Technological University, Singapore Institute of Management, Hong Kong University of Science & Technology and Lingnan University, Hong Kong. The focus of the visit was to meet and discuss possible partnerships with these institutions.

Event by Red Bull

Mr. Sean Garnier who is a world famous French Football Freestyler visited Bahria University on 23rd Nov, 2015. During his visit he showcased his Football freestyling skills to the students of BUIC and provided tips on footballs skills to the students who are interested in football.



Guest Talk by Prof. Steve Watson, Business School York. St. John University, UK

Prof. Steve Watson, Business School, York St. John University, UK delivered a guest talk to the students of Management Sciences of Bahria University on 3rd December, 2015 on the topic 'Marketing the Past: Understanding Heritage Tourism.' The guest talk was delivered through Video Conferencing facility to the MS students of BUIC, BUKC & BULC.



CHAPTER - 5

Strengthening & Upgradation

Procurement of Equipments

Labs are essential for experimentation to test the skills acquired by the students. Labs help determine the result achieved through a scientific process. Realizing this, the University has spent amount in upgrading and setting up offices. Details are in the ensuing paragraph.

1. Laptop /Desktops worth Rs 1,420,475/- for offices of BUHQ were purchased.
2. Repair/Replacement of degraded electrical parts LT Panel Rs.288,746/-.
3. Supply of chemical for chiller plant BU Rs.90,383/-
4. Annual maintenance / Descaling of Chiller Plant BU Rs.283,047/-
5. Maintenance of HVAC Plant worth to Rs.652,328/-.
6. Annual maintenance / Descaling of Chiller Plant BUHQ Rs.128,000/-.
7. Two RFID card reader worth Rs.115,150/- were purchased for BUIC.
8. Relocation of DG 200 KVA & Fuel Tank from basement HQ Building to ground worth Rs.1,109,029/-.
9. Fabrication of table and visitor chairs for PGP office worth Rs.48,200/-.
10. Purchase of I D Card printer with consumable printing material worth Rs.754,650/- to BUHQ.
11. Establishment of video link conference equipment for BUMDC worth Rs.6,340,874/-
12. Fabrication of Gowns for Bahria University worth Rs.95,200/-.

Procurement Through BU Budget

1. Rate Running Contracts for supply of stationery, cleaning items papers and toners were concluded with four different firms.
2. One Suzuki Bolan ambulance worth Rs 752,000/- was purchased for BUHQ.
3. Purchase of Two steel almirah for admission directorate of Rs.19,000/-.

4. 40 KVA UPS worth Rs 2,180,054/- was purchased for BUIC.
6. Printing of Student Hand Book worth Rs 99,000/-.
7. Printing of Questionnaires Spring 2016 worth Rs 112,400/- for BUHQ.
8. Printing of Prospectuses and other material worth Rs.510,400/-.
9. Printing of Answer Sheets worth Rs 98,000/-.
10. Printing of Questionnaires worth Rs.289,500/-.
11. Printing of MBBS/BDS prospectus worth Rs.611,200/-.
12. Printing of prospectuses and other material worth Rs.3,221,346/-.
13. Printing of MBA Rules book 2016 worth to Rs.36,800/-.
14. Printing of MS/M.Phil & PhD Rules book 2016 worth Rs.65,444/-.

Procurement through HEC Budget

HEC is providing support to all public sector universities. However, no funding for capital expenditure was allocated during the year 2015-16.

Summary

A total of Rs.19,321,226/- was incurred on development projects.

BUHQ Status

BUHQ	:	Rs	10,800,298/-
BUM&DC	:	Rs	6,340,874/-
BUIC	:	Rs	2,180,054/-

Progress of Construction Works

1. Planning work for construction of School of Engineering Sciences at the cost of Rs. 1938 million at Sector H-11/4 Islamabad.
2. Construction of different works (Motorcycle parking, Footpath outside the compound wall, Stone pitched retention wall of Nalla outside compound wall, Pre-mix carpeting of road & Sign Board BU) at the cost of Rs. 11.666 Million has been completed.

3. Soil Investigation of New Academic Block at BUIC has been completed at the cost of Rs. 120,000/-.
4. Construction of New Academic Block at BU Islamabad at the cost of Rs. 372.227 will start shortly all formalities have been completed.
5. Soil investigation of BU School of Engg Sciences at Sector H-11/4 at the cost of Rs. 250,000/-.
6. Construction of Prefabricated Staff Rooms at the cost of Rs. 2,062,150/- has been completed.
7. Construction of Steel Glass Shed in front of BUHQ main entrance at the cost of Rs. 659,875/- has been completed.
8. Construction of Car Parking Shed at the cost of Rs. 297,516/-.
9. Soil Investigation of Library Block Extension at BUKC has been completed at the cost of Rs. 375,000/-.
10. Construction of Library Block Extension at BUKC at the cost of Rs. 93.729 Million.

Strengthening Physical Infrastructure BULC :

a) Developmental Projects:

- Establishment of Advance Computer Lab
- Establishment of Digital Logic Design Lab
- Refurbishment of existing Faculty rooms - newly inducted Permanent Faculty
- Installation of multi-media and motorized screen in MPH
- Outsourcing of canteen
- Outsourcing of photocopying / printing facilities
- Outsourcing of transport
- Installation of additional A/Cs in classrooms with > 40 students
- Installation of projectors in 03 classrooms
- Making of cafeteria shed - cater for less space in canteen
- Installation of 4 x water coolers (100 ltr each / floor)
- Expansion of rear parking area
- Construction of (03) concrete rooms for

Security Staff for personal safety / weather protection

- Installation of Security system
- Installation of additional cameras on campus periphery wall Establishment of Computer & DLD labs
- Outsourcing of Transport

b) Multi-purpose Hall

- 6 x 4 tons A/Cs for Multipurpose Hall
- Multimedia projector
- PA System
- Modular Stage
- Furniture
- Movable Partitions

Strengthening Technological Infrastructure BULC:

Bahria University Lahore Campus has its own Campus Management Solution System to regulate and facilitate academic activities. It also has its own web portal where each student has their own account so that they can monitor different aspects of their academic activities. Bahria University Lahore Campus also has access to PERN. Video Conferencing systems are installed in both Conference Room and Advanced Computer Lab for faster communication with other campuses. BULC also has email service for students and a new SMS service through which announcements are made via SMS to the students. Salients are highlighted below:

- Digital Library Access provided through VPN
- PERN 16 MB CIR connection available
- Development of online admission system in progress

Accomplishments of BU IT Directorate

New Website Launch

BU IT Directorate has successfully launched the new website for BU, its constituent units and their departments with enhanced user friendly features. The advance features includes: all devices compatible, open on one click, social media activation and alignment with all official pages of

Bahria University, Google top ranked through Google analytics and Google AdWords, News timeline tool, search bar for searching with key words i.e admission online, scholarships etc. Link for the upgraded version is www.bahria.edu.pk. For campuses; www.bahria.edu.pk/buic and for department's website; www.bahria.edu.pk/buic/cs. Similar links can be used to access websites of other campuses and departments just by changing the end key alphabets.

Email IDs for Students

Email accounts for all students of BU have been launched using 0365 in collaboration with HEC & Microsoft. The standard format of email is youenrollment@student.bahria.edu.pk. In addition to email, 0365 allows students to install the latest Genuine Microsoft Office products on up to 5 PC or Mac and 5 Windows tablets including Office Apps on mobile devices. The service also includes 1TB of OneDrive storage and access to state of the art social networking services which include Skype for Business, Exchange, Yammer and SharePoint.

Computer Based Test

BU has successfully launched top of the line testing method of Computer Based Testing (CBT). Initially, it has been implemented as Pilot Project to test applicants of BSCS & BS IT at BUIC. In the next phase, it is planned to shift the entire Admission's Testing Procedure on CBT in Islamabad Campus and then in other campuses respectively.

Islamabad

- Installation of 80 CCTV Cameras in 02 Buildings worth Rs. 2.3 Million
- Up-Gradation in Electro Mechanical System (EMS) lab costs Rs.18 Million
- Purchase of 60 KVA UPS amounting Rs. 5.2 Million

- Purchase 80 KVA UPS Batteries worth Rs.1.3 Million
- Purchase of 174 Computers (for employees and labs), 07 Laptops, 38 Printers and 01 Color Printer worth Rs.14.0 Million

Karachi

- Internet bandwidth enhanced from 32 to 64 Mbps
- 141 Computers systems for:
 - Establishment of Computer Lab-8 (51-PC's)
 - Upgradation of Computer Lab-1 by replacing old 51-PC's)
 - Issuance of 30-PCs to Faculty Members
 - Establishment of Graduate Research Lab
 - Addition of Computers in Library for digital library access etc.
- Establishment of Data Center at BUM&DC Karachi
- Establishment of Video Link Conference room with state of the art VLC equipment
- Procurement of 46 computers (Ci7) & 05 Multimedia

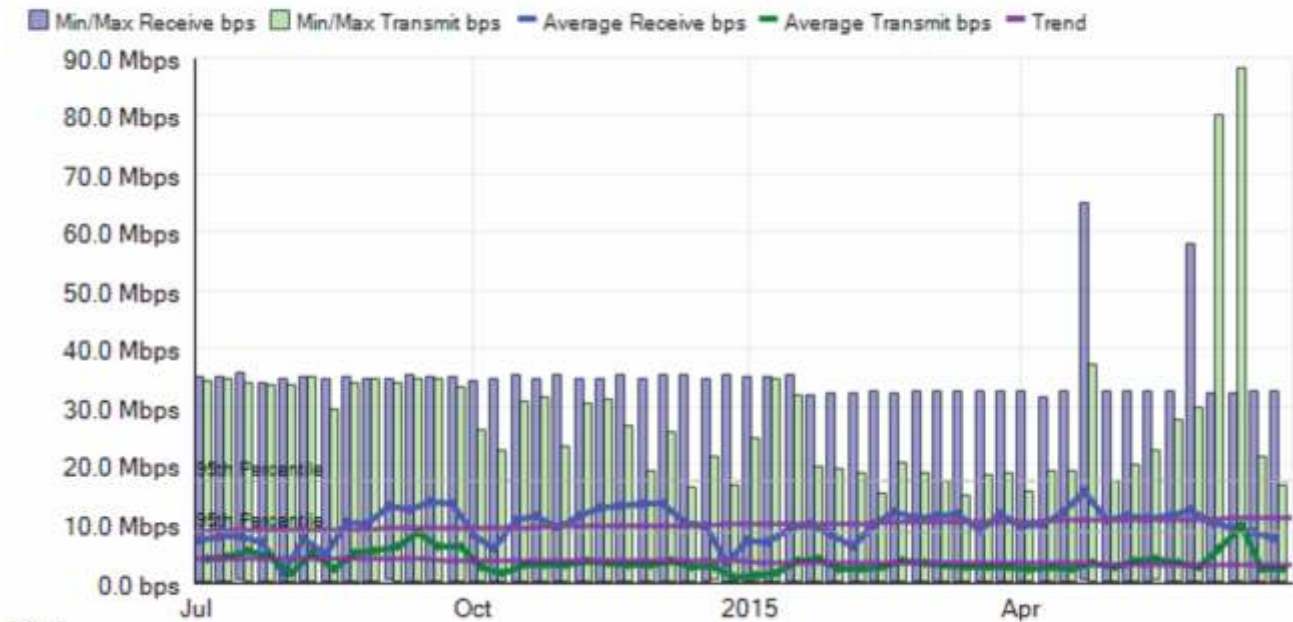
Lahore

- Establishment of Advance Computer Lab of 49 Computers (Core i5) with Smart board, Projector, PA system etc.
- 01 HP ProLiant DL380 Gen 9 Server is added at BULC data center.
- Wi-Fi solution using Ruckus implemented to provide the WiFi facility throughout the campus

STRENGTHENING & UPGRADATION

BU ISB - GigabitEthernet1/0/0.20 - For Internet-Service

Min/Max/Average bps of Recv 32.0 Mbps Xmit 32.0 Mbps
7/1/2014 12:00:00 AM~6/30/2015 12:00:00 AM

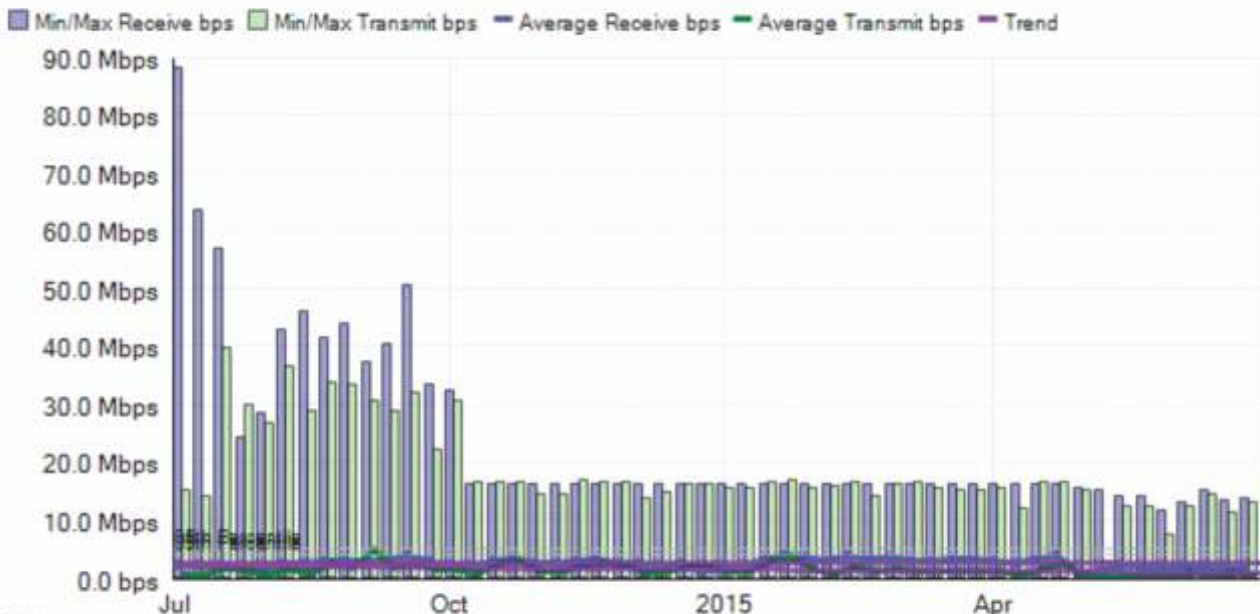


2014

95th Percentile: Average Receive bps is 17.2969 Mbps, Average Transmit bps is 8.6601 Mbps
SolarWinds Orion Core Services 2013.1

BUMDC KHI - GigabitEthernet0/1.20 - For Internet-Service

Min/Max/Average bps of Recv 16.0 Mbps Xmit 16.0 Mbps
7/1/2014 12:00:00 AM~6/30/2015 12:00:00 AM

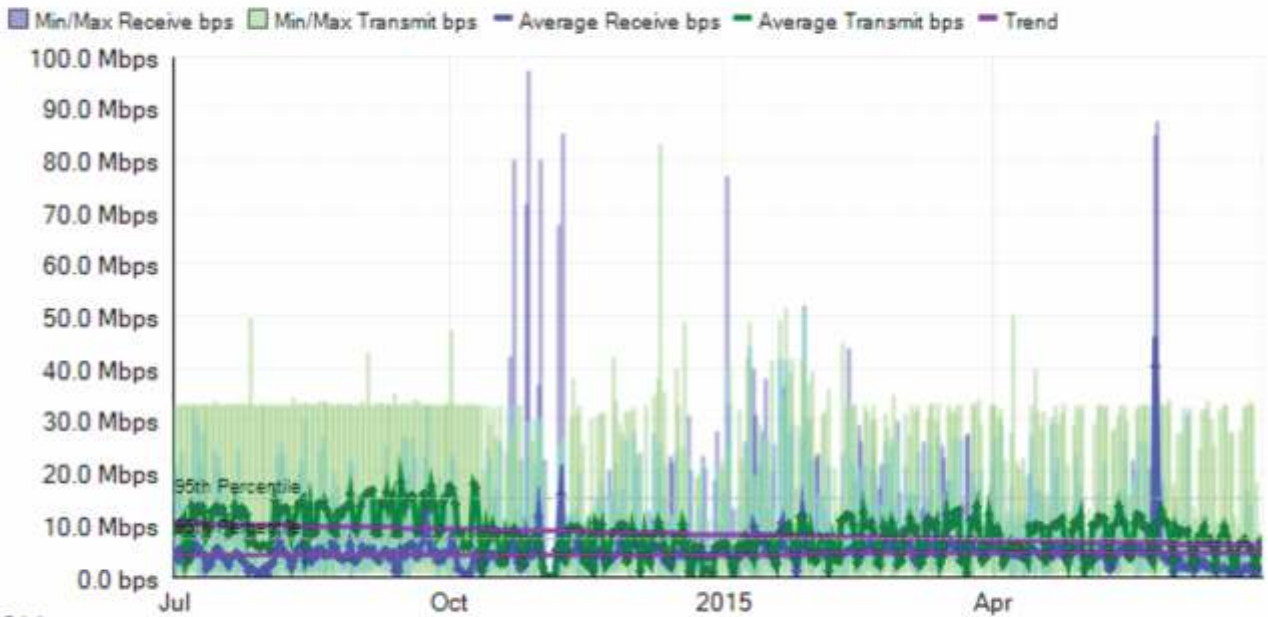


2014

95th Percentile: Average Receive bps is 4.9671 Mbps, Average Transmit bps is 4.0214 Mbps
SolarWinds Orion Core Services 2013.1

HEC RC KHI POP - GigabitEthernet1/1/5.20 - to-[KHI-BU-CPE-NE20E GE:1/0/0.20]

Min/Max/Average bps of Recv 1.0 Gbps Xmit 1.0 Gbps
7/1/2014 12:00:00 AM~6/30/2015 12:00:00 AM

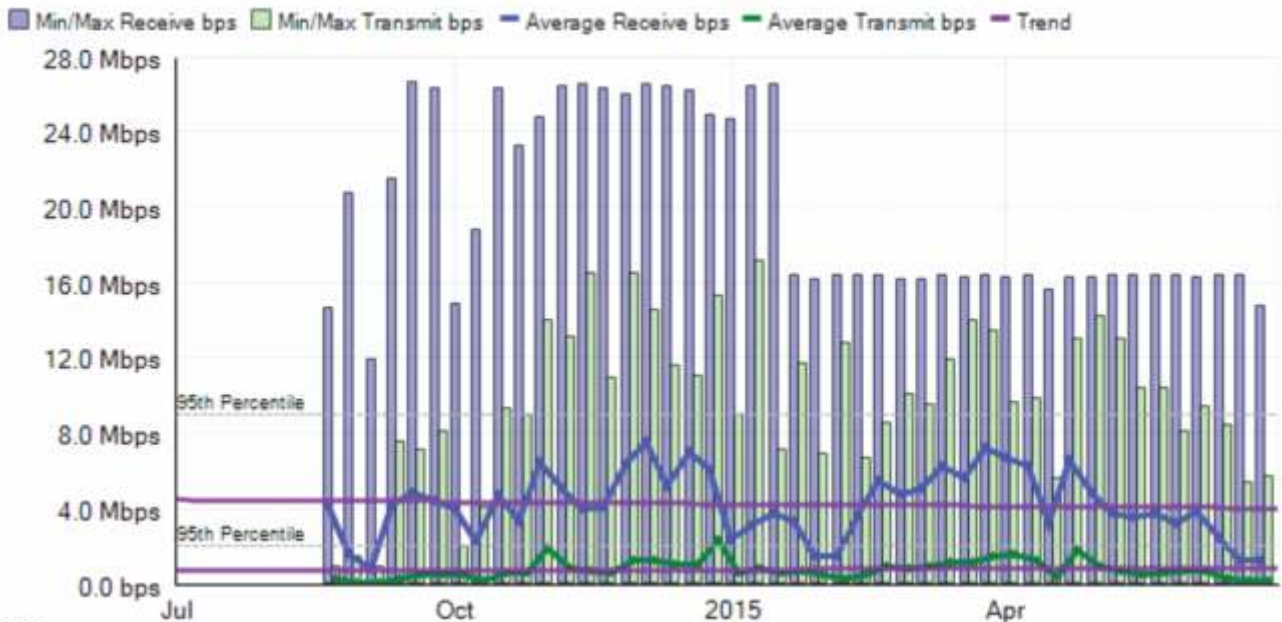


2014

95th Percentile: Average Receive bps is 7.0088 Mbps, Average Transmit bps is 14.9999 Mbps
SolarWinds Orion Core Services 2013.1

BU LHR - GigabitEthernet0/1.20 - [LHR-BU-Internet-Service]

Min/Max/Average bps of Recv 16.0 Mbps Xmit 16.0 Mbps
7/1/2014 12:00:00 AM~6/30/2015 12:00:00 AM



2014

95th Percentile: Average Receive bps is 9.005 Mbps, Average Transmit bps is 2.0526 Mbps
SolarWinds Orion Core Services 2013.1



CHAPTER - 6

Faculty Development

FACULTY DEVELOPMENT

Bahria University places strong emphasis on the development of its faculty and staff members. A department has been established to look after the activities for this purpose. The mandate of the department is to formalize the process of faculty development activities at all the constituent units of the University. A policy mechanism in this regard has been formulated that prepares semester wise calendar of training/ workshops for the faculty of Bahria University. Furthermore, opportunities are

being created for the faculty at Bahria University to attend trainings at foreign institutes. Details regarding the activities organized under the umbrella of Faculty Development at Bahria University are mentioned in this chapter.

Faculty Development Programmes

Some of the training programmes conducted at Bahria University for the faculty/ staff in the year 2015-16 are listed below:

S.No	Program	Attended by	Departments	Campus	Date
1	Androgological Skills Cycle I	Selected Faculty	Selected Departments	BUIC	9 th July 2015
2	Publishing your Research	Selected Faculty	Selected Departments	BUIC	30 th July 2015
3	Professional Training in GIS	Selected Faculty	Selected Departments	BUIC	3 rd – 7 th August 2015
4	Introduction to 5G Communication	Selected Faculty	Selected Departments	BUIC	13 th August 2015
5	Microprocessors & Embedded Applications	Selected Faculty	Selected Departments	BUIC	4 th – 6 th August 2015
6	CISCO Certified Entry Network Technician	Selected Faculty	Selected Departments	BUIC	10 th Aug – 5 th Sept 2015
7	Effective Glass Management	Selected Faculty	Selected Departments	BUIC	18 th – 19 th Aug 2015
8	Introductory Seminar on Bond Graph	Selected Faculty	Selected Departments	BUIC	20 th Aug 2015
9	Teaching as a Profession	Selected Faculty	Selected Departments	BUIC	25 th Aug 2015
10	Communication Research	Selected Faculty	Selected Departments	BUIC	26 th Aug 2015
11	Microteaching Cycle II	Selected Faculty	Selected Departments	BUIC	28 th Aug 2015
12	Ontology Engineering	Selected Faculty	Selected Departments	BUIC	1 st Sept 2015
13	Academic Writing	Selected Faculty	Selected Departments	BUIC	4 th Sept 2015

FACULTY DEVELOPMENT

14	Eidetic Therapy	Selected Faculty	Selected Departments		7 th – 10 th Oct 2015
15	Academic Writing	Selected Faculty	Selected Departments	BUKC	4 th Sept 2015
16	Ontology Engineering	Selected Faculty	Selected Departments	BUKC	1 st Sept 2015
17	Andragogical Skills	Selected Faculty	Selected Departments	BUKC	26 th – 28 th Aug 2015
18	Writing Research Papers and Case Studies	Selected Faculty	Selected Departments	BUKC	16 th Oct 2015
19	Teaching as a Profession	Selected Faculty	Selected Departments	BUKC	25 th Aug 2015
20	Academic Writing	Selected Faculty	Selected Departments	BUKC	9 th Oct 2015
21	NEST General Radio	Selected Faculty	Selected Departments	BUKC	30 th Nov, 2015
22	Power of Mind	Selected Faculty	Selected Departments	BULC	7 th Oct, 2015
23	Research & Publications	Selected Faculty	Selected Departments	BULC	20 th Oct, 2015
24	Leadership for All	Selected Faculty	Selected Departments	BULC	24 th Nov, 2015
25	Automated EEG Signal Analysis	Selected Faculty	Selected Departments	BUIC	14 th Oct 2015
26	Training on Moodle Software	Selected Faculty	Selected Departments	BUIC	29 th – 30 th Jan 2016
27	GIS Training	Selected Faculty	Selected Departments	BUIC	7 th April 2016
28	Reconfigurable Networks	Selected Faculty	Selected Departments	BUIC	11 th March, 2016
29	Wireless Mobile Femtocell	Selected Faculty	Selected Departments	BUIC	2 nd May 2016
30	Philosophy of Research	Selected Faculty	Selected Departments	BUKC	2 nd Week of Feb, 2016
31	How to write a book	Selected Faculty	Selected Departments	BUKC	Last week of March, 2016

FACULTY DEVELOPMENT

32	Qualitative Data Analysis	Selected Faculty	Selected Departments	BUKC	Last of April, 2016
33	Quantitative Data Analysis	Selected Faculty	Selected Departments	BUKC	Second week of May, 2016
34	Digital Image Processing	Selected Faculty	Selected Departments	BUKC	3 rd Week of Feb, 2016
35	MS Office	Selected Faculty	Selected Departments	BULC	26 th Feb, 2016
36	Web Development	Selected Faculty	Selected Departments	BULC	1 st – 3 rd , March 2016
37	Quantitative Data Analysis & SPSS	Selected Faculty	Selected Departments	BULC	2 nd March, 2016
38	Android App Development	Selected Faculty	Selected Departments	BULC	7 th April, 2016

Local Trainings at External Venues

The Faculty and staff of all constituent units are encouraged to attend training courses and workshops at other institutes and centers. External

trainings conducted during the period under report are:

Local Trainings at External Venues			
S.No	Training Name	Training	Training Date
1	HEC Master Training FDP	HEC	Summer 2015
2	Workshop on Concept of bridging of BA/BSC	HEC	11 th – 12 th August, 2015
3	Public Procurement Policies and PPRA Rules	PPMI	6 th – 9 th Oct, 2015
4	HEC Policy Guidelines for the Implementation of Uniform Examination System	Allama Iqbal Open University	9 th – 10 th November, 2015
5	Effective Decision Making	PMI	30 th Nov – 2 nd Dec, 2015
6	Strategic Decision	PMI	7 th – 9 th Dec, 2015
7	Team Building & Management at Work Place	PMI	14 th – 16 th Dec, 2015
8	PPRA Rules	PMI	28 th – 30 th Dec, 2015
9	Project Management in MS Project	PMI	28 th – 30 th March, 2016

25th Master Trainers Faculty Professional Development Program (MT-FPDP) 29th July – 11th September 2015

Mr. Tanveer Taj, Senior Lecturer, Department of Management Sciences went on the 25th Master Trainers Faculty Professional Development Program

from 29th July – 11th organized by the Learning Innovation Division. The main objective of this training was to enhance and enrich the teaching abilities of teachers to ensure quality education which is entirely dependent on the quality of teaching. Various teaching modules were covered

during the training.

Orientation Week for the Newly Inducted Faculty

Faculty Orientation Week was conducted at all three Campuses of Bahria University from 24th – 28th August, 2015. The orientation week covered various topics regarding Introduction to Bahria University, Examination Process, Library Resources & procedures, International Collaborations, Micro Teaching, Quality Assurance Teaching as a Profession, etc.

HEC Sponsored Indigenous on Campus Training for Administrative Staff

Bahria University conducted a three day Indigenous on Campus training for the Administrative Staff of Higher Education Institutes, fully sponsored by HEC from 5th – 7th Oct, 2015. Following topics were covered during the training:

- a) Strategic Planning & Evaluation
- b) Leadership Styles & Management
- c) Management Skills
- d) Product Development & Marketing
- e) Developing Strategic Thinking & Planning
- f) Human Resource Management & Development

The training was organized by the Human Resource Development of Bahria University where 28 participants were trained not only from BU but also from Institute of Space & Technology, FAST

University, National Defence University and NUST University.

Entrepreneurial Alliances:

A four day training workshop was conducted by Entrepreneurial Alliances on Entrepreneurship from 26th – 29th Oct, 2015. The course was designed to provide entrepreneurs that are currently designing or planning to implement an Entrepreneurial idea with practical and result oriented capacity building experience & knowledge in Entrepreneurship. Following objective were covered in the workshop:

- a) Understand New Venture Creation
- b) Development of Business Planning
- c) Understanding on Entrepreneurial Financing
- d) Understanding on Creating & Idea Generation

5 Day Training workshop on Entrepreneurship

Entrepreneurial Alliances in collaboration with Bahria University conducted a workshop on Entrepreneurship from 16th – 20th Nov, 2015. The training workshop covered various aspects such as venture capital engagement, fundamentals of buying a small business, product design, social entrepreneurship etc. The training workshop was attended by selected students from different Universities of Islamabad



4 Day training workshop on Entrepreneurship

Indegenous on Campus Traing

Bahria University Islamabad conducted its 2nd IOT sponsored by HEC on 7th – 9th December, 2015 on the topic Finance & Audit. The training was attended by various administrative staff of Bahria University and also participants from Quaid-e-Azam University, FAST University, Air University, International Islamic University,

Faculty Orientation 18th – 21st, Jan 2016

Faculty Orientation Week was conducted at Islamabad, Karachi & Lahore Campus from 18th – 22nd January, 2016. During the Orientation the newly inducted faculty were given a general introduction to BU and information on various procedures related to academic & non-academic matters. Also following workshops were conducted by Mr. Tipu Ismail Master Trainer of BU related to teaching profession:

- i. Teaching as a profession
- ii. Micro Teaching I
- iii. Micro Teaching II

Deans and Director IPP visit to Singapore Universities 20th – 27th Feb, 2016

Dean Engineering Sciences, Dean Management &

Social Sciences and Director Institute of Professional Psychology went on an official visit to Singapore from 20th – 27th February, 2016. The purpose of this visit was to learn the innovative teaching pedagogies being followed at Selected Universities of Singapore to improve student learning experience. During the visit following Universities were visited:

- i. Nanyang Technological University
- ii. SIM University

Workshop on Consultancy 29th Feb 2016

A workshop was conducted at Bahria University Islamabad Campus on Consultancy & Improvement of Industry Academia Linkages on 29th February, 2016. The workshop was conducted by Mr. Tahir Chaudhry, President & CEO of Pakistan Institute of Entrepreneurship (PIE). The workshop focused on Commercialization of University Research/ Projects and Turnaround Management. A total of 25 Participants participated in the subject workshop, 20 from Bahria University and 5 from different various Universities.



Establishment of Leadership Development Center 23rd Feb 2016

Bahria University has recently established a new Directorate titled as Leadership Development Center on 23rd Feb, 2016. Mr. Shahid Haq, Associate Prof in the department of Management Sciences BUIC is the Director LDC. LDC Comprises of two wings

- i. Faculty Development Academy (FDA)
- ii. Professional Development Center (PDC)

The Faculty Development Academy's mandate is to provide training courses on soft and hard skills for faculty. Training/ workshops on proposal writing, submission, research activities and solicitation of research projects.

FACULTY DEVELOPMENT

The mandate of Professional Development Center is to establish industry database for future cooperation of various projects. Collate the faculty expert area database for enhancing and utilizing internal strengths. Workshops for students on soft skills like Presentation Skills, Team Building, Communication Skills. Short Duration professional trainings and courses. Short term certificate and diploma Programs.

Student Development Programme

A full two day Student Development Programme was organized by 'Kick Start' on 12th & 13th May, 2016. The two day workshop was an excellent opportunity for the students of BUIC to groom their interpersonal and intrapersonal skills and provided a slingshot opportunity towards their practice life.



Trainings/Workshops

31 March 2016	BZU- Multan Pakistan	Ms. Naima Fatima	<u>Current trends in Psychology (ICCTP-2016)</u> Paper presentation : The efficacy of positive psychology intervention: a pilot study on increasing the subjective well-being of orphan females.
1– 4 July 2015	Germany	Ms. Batool Fatima	3 rd Annual Conference of European Association of Psychosomatic Medicine <i>“Nobody Told Me About It! A Qualitative Study of Barriers and Facilitators in Access to Mental Health Services in Women with Depression in Karachi, Pakistan”</i> Presented at Nuremberg, Germany on 2 nd July
19 to 21 August 2015	Bahria University Karachi	Heuristic Method of Teaching	To improve the quality of teaching at Bahria University The training was arranged at Bahria university, Karachi campus. It was conducted by the Pakistan Institute of Management
13 - 14 August 2015	Dubai	Prof. Dr. Zainab F. Zadeh	Availed Travel grant for Editors by Asian Council of Science Editors To attend the 2nd annual meeting of ACSE

FACULTY DEVELOPMENT

26 th November, 2015	Dr. Jim Nelson, professor at Valparaiso University delivered a lecture on “ <i>Traumatic Head Injury and its Effects</i> ” in Lecture Hall 1, Bahria University Karachi Campus. The lecture was arranged for the students of BS, MS and MPhil programs to bring awareness about the Neurocognitive Aspect of Dealing With Heady Injury, where he further explained the methods of assessment and interventions to deal with patients who have suffered brain injury. Lecture was organized by Institute of Professional Psychology and Facilitated by Dr. Kiran Bashir Ahmad
27 th November, 2015	Dr. David Rowland Professor and Dean of Graduate School at Valparaiso University delivered a lecture on “ <i>Gender Identity and Sexual Development.</i> ” lecture was based on the introductory model of psychology behind human sexuality and its relation with biological development. He shared his case examples and teaching experiences with students of BS and faculty members which enabled the students to learn cross cultural perspective about human sexuality. Lecture was organized by Institute of Professional Psychology at Lecture Hall 1, Bahria University, Karachi Campus and was facilitated by Dr. Kiran Bashir Ahmad.
20 November 2015	Mental Health Awareness Camp : The Institute of Professional Psychology, Bahria University-Karachi Campus hosted its annual event ‘Mental Health Awareness Camp 2015’ on Friday November 20, 2015 from 9:00 am to 5:00 pm. Director General Karachi Campus Vice Admiral Khawaja Ghazanfer HI (M) Retired inaugurated the event. Director IPP, Director BUKC, Faculty members and students attended the camp, which allowed its guests to experience the essence of mental health and what it stands for as well as how various mental health services cater to a larger populous for a better well-being. To achieve the aforementioned aim the camp comprised of four different sessions ‘Emotional Intelligence’, ‘Coping Managers’, ‘Know thy Self, and ‘Drawing Test’ where the tests were conducted by the students of IPP under the supervision of their faculty. This year the theme of Mental Health Awareness Camp was “Shades of Life” for which the students demonstrated different stages of life through pictorial representations and seasons depicting different ages at the camp and the department.
28 October 2015	The Institute of Professional Psychology partnered with renowned NGO, Rozan conducted a seminar on raising mental health awareness on targeting Mental health professionals, social workers and Psychology Students at Auditorium of Bahria University Karachi Campus. This seminar was organized by the students of BS 7 along with their course instructor, Ms. Naima Fatima Shariff. The seminar highlighted the dire need for the provision of mental health services in the country and highlighted the role of various organizations that are playing their part in the provision of such facilities for the community. The seminar was attended by various social workers, mental health practitioners and politicians. The speakers for the seminar included, Ms, Mehtab Akbar Rashidi (Social Worker and Politician), Mr. Kamran Sultan (NLP Practitioner), Ms. Tahira Bano (Program Coordinator, Rozan) and Ms. Naima Fatima Shariff (Clinical In-charge Lecturer and Community Support Program Manager, IPP). The seminar was instrumental in inculcating the spirit of community services in the students and also provided direction to beginners about the need for providing mental health services across the country.

Conferences:

Dates	Location	Attendees	Field of Study
January 9 th , 2016	Bahria University Karachi Campus	All faculty members	Trauma Management in Children'
February 18 th , 2016	Marriot Hotel, Islamabad	Dr. Zainab Hussain Bhutto	One day workshop entailed as 'Research Integrity and Peer Review'. Asian Council of Science Editors in collaboration with Bahria University and other institutions arranged the workshop.
20 th to 27 th February, 2016	Singapore	Dr. Zainab F. Zadeh	Workshops on 'Pedagogical Innovations' with the aim of learning the innovative teaching pedagogies being followed to improve student learning experience. Nanyang Technological University, Sim University and National University of Singapore (TBC) were visited.
26 November 2015	IPP-BUKC	Faculty Members	Guest speaker session: Dr.Jim Nelson who is professor at Valparaiso University was invited as guest speaker , he delivered lecture on “ Traumatic Head injury and its effects ” Lecturer was organized by IPP and Facilitated by Dr Kiran Bashir Ahmad Lecture was based on the psychological effects of Head Injury , he further explained The Method of Assessment And interventions about dealing with patients who Had Brain Injury Lecture Was arranged to Give exposure to Students about Neurocognitive Aspect of Dealing With Heady Injury Patients
27 November 2015	IPP-BUKC	Faculty Members	Guest speaker session: Dr David Rowland who is professor and Dean of Graduate School at Valparaiso University was Invited as Guest Speaker. He delivered Lecturer on “Gender Identity and Sexual Development ” Lecturer was organized by IPP and Facilitated by Dr Kiran Bashir Ahmad Lecture was based on introductory model of

FACULTY DEVELOPMENT

			psychology behind human sexuality and its relation with biological development. the shared his case examples and teaching experiences with students which enable students to learn cross cultural perspective about human sexuality.
13 August 2015	Dubai	Prof. Dr. Zainab Zadeh	Developing a Successful Journal Conducted by Pippa Smart, UK
13 August 2015	Dubai	Prof. Dr. Zainab Zadeh	C21st Marketing for Scholarly Journal Conducted by Rachel Maund, UK
13-14 August 2015	Dubai	Prof. Dr. Zainab Zadeh	The Asian Council of Science Editors and participated in the 2nd Annual Meeting, of the ACSE

National Conferences/Seminars/Symposia Attended

Dates	Location	Attendees	Theme
23 November 2015	IPP – BUKC	Students	How to Teach so kids can learn
28 October 2015	BUKC	Director of IPP and All Faculty Members attended	Seminar : Dignity In Mental Health organized by by MS Naima Fatima Shariff seminar on raising mental health awareness on targeting Mental health professionals, social workers and Psychology Students The seminar was instrumental in inculcating the spirit of community services in the students and also provided direction to beginners about the need for providing mental health services across the country

International Conferences attended

Dates	Location	Attendees	Theme
March 2016	IPP - BUKC	Students	Child Psychology in collaboration with University of Leicester UK

International Conferences held

Dates	Conference Theme
March 2016	Child Psychology in collaboration with University of Leicester UK

National Training Workshops attended

Dates	Location	Attendees	Field of Study
08 July 2015	SAHARA TRUST Karachi	Internship students	Visit to Sahara Trust (for practice of Clinical Intake & Mental Status Exam Forms)
20 October 2015	PNS Shifa Karachi	Students of MS 3 rd semester and Trainee Nurses	<p>One day Mental health camp organized by Dr. Zainab F. Zadeh at PN Nursing Training School PNS Shifa Karachi.</p> <p>Focus was on therapeutic activities such as Early Recollection technique aimed at promoting self-analysis and self-growth among trainees of Nursing School.</p>

International Training Workshops attended

Dates	Location	Attendees	Field of Study
26 November 2015	IPP-BUKC	Students of BS, MS and MPhil programs	<p>Guest speaker session: Professor Dr. Jim Nelson, of Valparaiso University, delivered a guest speaker session, “Traumatic Head Injury and its Effects”.</p> <p>Lecture was organized by IPP and facilitated by Dr Kiran Bashir Ahmad.</p> <p>The methods of assessment and interventions for use with patients who had brain injury were also discussed.</p> <p>The purpose of the lecture was to give exposure to students about the neurocognitive implications of traumatic brain injury on patients.</p>
27 November 2015	IPP-BUKC	Students of BS & MS / MPHIL	<p>Guest speaker session: Professor Dr David Rowland, Dean of Graduate School at Valparaiso University, was invited to deliver a guest speaker lecture on “Gender Identity and Sexual Development”.</p> <p>Lecture was organized by IPP and facilitated by Dr Kiran Bashir Ahmad.</p> <p>The focus of the lecture was to introduce students to a basic model of psychology behind human sexuality and its relationship with biological development. Dr. Rowland shared his case examples and teaching experience with students that exposed students to reflect on cross cultural perspectives in human sexuality and behavioural psychology.</p>

FACULTY DEVELOPMENT

Dates	Field of Study
01 July 2015	Workshop on Basic Interviewing Skills & Clinical Interviews by Ms. Naima Fatima Shariff for Internship students at Bahria University Medical and Dental College.
02 July 2015	Workshop on Mental Status Examination by Ms. Naima Fatima Shariff for Internship students at Bahria University Medical and Dental College.
02 July 2015	Workshop on Basic Counselling Skills by Ms. Naima Fatima Shariff for Internship students at Bahria University Medical and Dental College.
06 July 2015	Workshop on Administration of MMPI by Ms. Naima Fatima Shariff for MS students at Bahria University Medical and Dental College.
06 July 2015	Workshop on Psychological Testing by Ms. Nirmal Niazi.
07 July 2015	Workshop on the administration of HFD, DAP & TAT and the analysis of the differences between the three tests by Ms. Nirmal Niazi.
09 July 2015	Workshop on Psychopathology & Diagnosis by Dr. Zainab Bhutto.
13 July 2015	Workshop on Scoring of MMPI by Ms. Naima Fatima Shariff.
14 July 2015	Workshop on Positive Psychology by Ms. Khudeja Mehmood.
15 July 2015	Workshop on Play Therapy by Ms. Naima Fatima Shariff.
27 July 2015	Workshop on Development Support Communication and Teamwork by Ms Hira Syed.
28 July 2015	Workshop on Community Mental health by Ms. Naima Fatima Shariff for Internship students at Bahria University Medical and Dental College.
29 July 2015	Workshop on Counseling Clients with Chronic Illnesses by Ms. Batool Fatima for Internship students at Bahria University Medical and Dental College.
30 July 2015	Workshop on Applied Behavior Analysis by Ms. Bushra Tauseef for Internship students at Bahria University Medical and Dental College.
21 August 2015	Skills training on Quick Neurological Screening Test for MPhil students, conducted by Dr. Kiran Bashir Ahmad.
12 August 2015	Workshop conducted by Yogi Wajahat on the Effectiveness of Yoga in Managing Stress, organized by the students of MS Clinical Psychology for Faculty and students.
1 September 2015	Workshop on Dialectical Behavioural Therapy (DBT) , conducted by Ms Nirmal Niazi and arranged by Dr. Zainab F. Zadeh. The focus of the workshop was to facilitate the learning of Therapeutic Techniques and Modalities based on Dialectical Behavioural Therapy Models.
2 September 2015	Workshop on Neurolinguistic Programming (NLP) for Dealing with Anxiety Disorder , was conducted by Ms. Sumbul Batool, who introduced students of MPhil to the basic techniques of NLP for dealing with anxiety disorders. Workshop was organized by Dr. Zainab F. Zadeh.
20 October 2015	One day Mental health camp organized by Dr. Zainab F. Zadeh at PN Nursing Training School PNS Shifa Karachi . Focus was on therapeutic activities such as Early Recollection technique aimed at promoting self-analysis and self-growth among trainees of Nursing School.
26 October 2015	Workshop on Emotion Focused Therapy for Couples was conducted by Dr. Afsheen Anwer, who introduced the basic techniques of EFT for couples through interactive activities.

18 November 2015	<p>The students of IPP BS-3, under the Supervision of Ms. Hira Syed, arranged an event titled 'Dramatique' on the 18th of November 2015 at Bahria University Karachi campus. The event consisted of 6 plays that depicted different shades of life incorporating the themes of Revenge, Love, Hatred, Envy, Pride, Loneliness, Enlightenment and Change. The honorable attendees included Director General Bahria University Karachi Campus Vice Admiral Khawaja Ghazanfer HI (M) Retired, Director IPP, Director BUKC, Faculty members and students of IPP.</p> <p>The purpose of the event was to inculcate and polish the skills of students of oral communication through exposure on stage.</p>
9 th January 2016	<p>A two-day workshop titled '<i>Trauma Management in Children</i>' by Dr. Panos Vostanis was held on the 9th of January 2016 at Bahria University Karachi Campus. Faculty members and students of MS and M.Phil attended the workshop which was based on identification and management of psychological trauma in children. Facilitator explained different methods of assessment and therapeutic interventions to deal with children experiencing trauma. Institute of Professional Psychology in collaboration with Hussaini Foundation organized the event.</p>
6 th February 2016	<p>Dr. Amir Abbas, a senior instructor of research at Department of Medicine Agha Khan university Karachi was invited as guest speaker, where he delivered lecturer on "The Research Question, Five steps in starting a research Project" at Bahria University Karachi Campus. The lecture aimed to provide assistance to the students in the process of selection of research projects and synopsis writing. Director Institute of Professional Psychology Professor Dr. Zainab F. Zadeh organized the session.</p>
12 th March 2016	<p>A visit was organized for students of BS 5th and 6th Semesters, as part of an initiative for exposure of the students towards in-patient psychopathology, at the Sir Cowasjee Institute of Mental Illnesses in Hyderabad. Faculty and administration accompanied the students for the day long visit.</p>

BU Focuses on Personal Development for Ladies

A two-day Course on "Personal Development" was held at Bahria University Islamabad by Department of Professional Psychology for Ladies. The objective of the course was to enhance awareness of psychological and emotional understanding in practical life settings such as stress and emotional management through personal development.

Begum Chief of the Naval Staff, Admiral Muhammad Zakaullah NI (M) graced the occasion as Chief Guest on the closing ceremony. While talking to the audience, she appreciated the efforts of Bahria University and purpose of training and also

emphasized the importance of similar training in future. She said that it is important to improve the functioning of ladies as an effective family members through understanding and developing family relations.

The Resource Persons of the workshop were Dr. Uzma Masroor, Head of the Professional Psychology Department BUIC, with other faculty members. Focus of the workshop was on personal development aimed at discovering valuable personal information that builds upon your growth and progression for better life and improved mental health. It involves



physical social, emotional, mental and spiritual growth that allows person to live a productive and satisfying life within the customs and regulations of their society.

At the closing ceremony, Begum Chief of the Naval Staff, Admiral Muhammad Zakauallah NI (M)

distributed certificates among the participants. Registrar Bahria University, Rear Admiral (R) Shahid Saeed HI (M) thanked Begum Sahiba for gracing the occasion and resource persons of training for their interest and keenness.



CHAPTER - 7

Access

The Bahria University Administration always prides itself on the trust of students and their parents portrayed in its excellent student intake, and the year 2015-16 was no different, as it witnessed more students than ever before depositing their trust on BU.

Fulbright Scholarship & GRE Orientation Session

Bahria University & USEFP have a long term working relationship regarding various academic and non-academic activities. USEFP conducted a free Fulbright Scholarship & GRE Orientation Session for the students & faculty of BUIC on 12th

November, 2015. The session included an informational seminar on how to apply for Fulbright Scholarship and what are the pre requisite requirements.



Scholarship Categories

Merit Categories

1. Advance Merit Scholarship For Board Toppers (UG programs)
2. Advance Merit Scholarship (for Outstanding performers in Cambridge International Education (CIE's) System)
3. Advance Merit Scholarship (based on BU Entrance Merit list)
4. Exemption Of Admission Fee to Bahria University Graduates/Alumni For Higher

Education at Bahria University

5. Policy to attract high Academic Achievers in MS/MPhil/PhD programs.

Scholarship Policy at BU

The Scholarship policy at Bahria University was revised and implemented from semester Fall 2015 onwards with the approval of BOG.

The over all revision was made with an objective to improve quality intake and enhance academic performance of existing students.

Summary of 4 GPA Students Spring 2016 Based on Result of Fall 2015

S. No	Campus	Total No. of Students with 4 GPA, awarded Merit Scholarship	Total Scholarship Amount @75 % of T.Fee	Total Scholarship Amount @100 % of T.Fee
01	Islamabad	57	2.067	2.756
02	Karachi	24	1.013	1.350
03	IPP	12	0.452	0.602
04	Lahore	04	0.182	0.242
Total		97	3.713	4.951

*There is expected increase in 1.25 million if we increase the 75% scholarship to 100% for 4 GPA achievers in each semester. And annual impact will be Rs. 2.50 million approx.

SCHOLASHIP CATEGORY WISE EXPENSE FY-2015-16

Type of Scholarship	Fall-2015 Actual Payment		Spring-2016 payments as		Grand Total	
	No of Students	Total Amount	No of Students	Total Amount	No of Students	Amount
AMS-5 New Categories	145	2.893	135	3.214	280	6.107
Merit Scholarship	234	5.032	170	5.525	404	10.557
FAS Scholarship	415	8.563	369	7.550	784	16.113
Indigent scholarship	31	0.777	18	0.396	49	1.173
Total	825	17.265	682	16.840	1,507	33.95

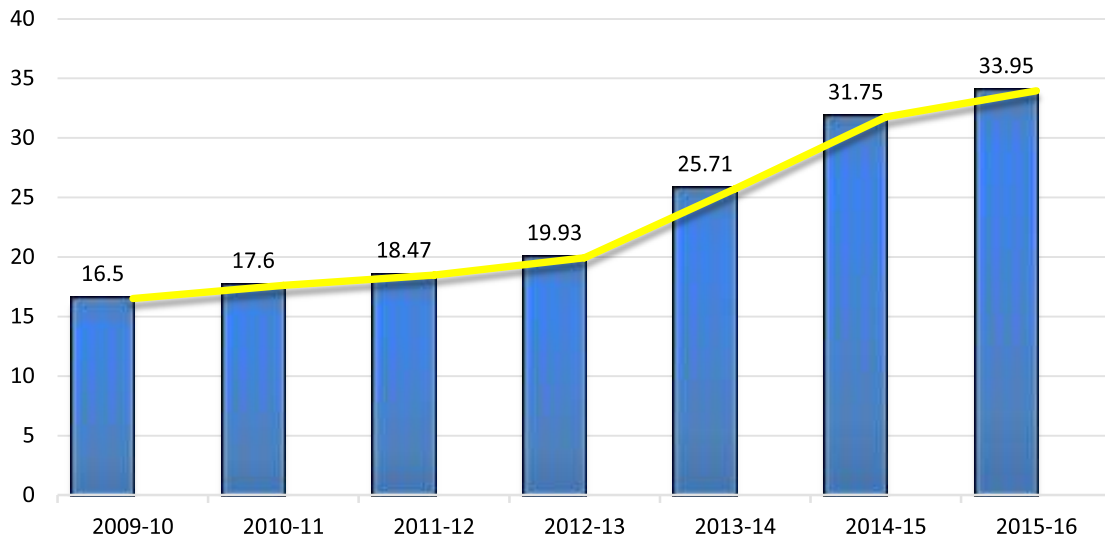
NEW INTAKE COMPARISON
PG PROGRAMS MS/MPhil/PhD

Campus	Fall 2015 - Total intake, awarded scholarships & Amount			Spring 2016 - Total intake, awarded scholarships & Amount		
	Fall 2015 intake	Number of Scholarships	Amount of Scholarships	Spring 2016 intake	Number of Scholarships	Amount of Scholarships
Isb	326	91	1.996	266	92	2.124
Khi	97	21	0.490	87	27	0.708
IPP	40	28	0.308	0	4	0.121
Lhr	50	5	0.099	41	12	0.261
Total	513	145	2.893	394	135	3.214
GRAND TOTAL FOR FY 2015-16			280	6.107		

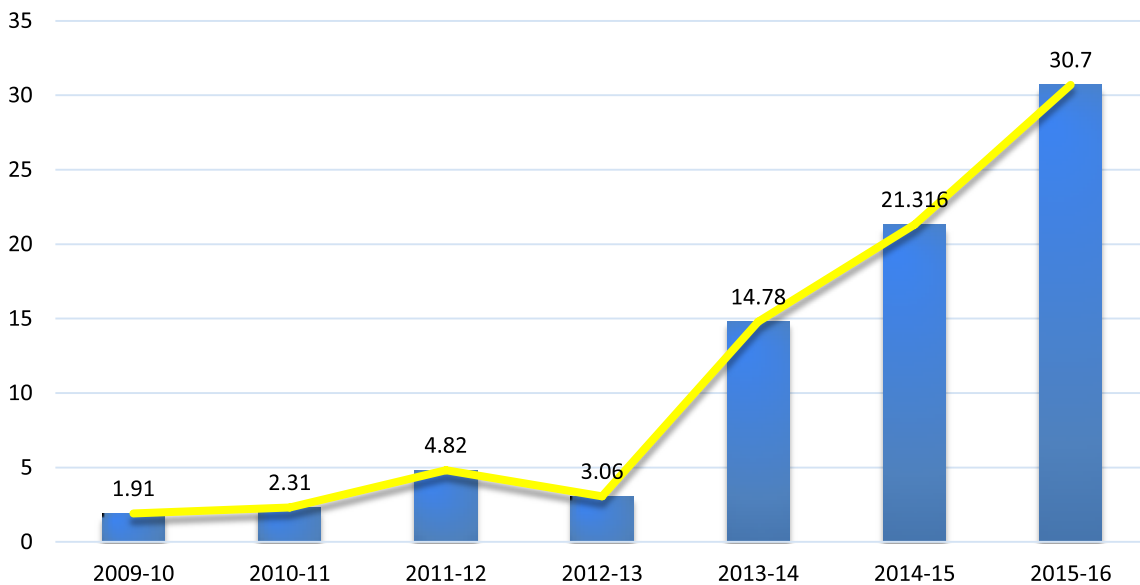
MERIT SCHOLARSHIP FOR BUMDC (Karachi)

Campus	MBBS		BDS	
	Number	Amount (Rs)	Number	Amount (Rs)
BUMDC Karachi	12	0.925	06	0.525
<u>Grand Total for FY 2015-16</u>	<u>18</u>		<u>1.450</u>	

EXPENDITURE ON SCHOLARSHIPS FROM UNIVERSITY OWN RESOURCES
(Rs. In Millions)



FUNDING UNDER SCHOLARSHIP HEAD FROM EXTERNAL RESOURCES
(Rs. In Millions)



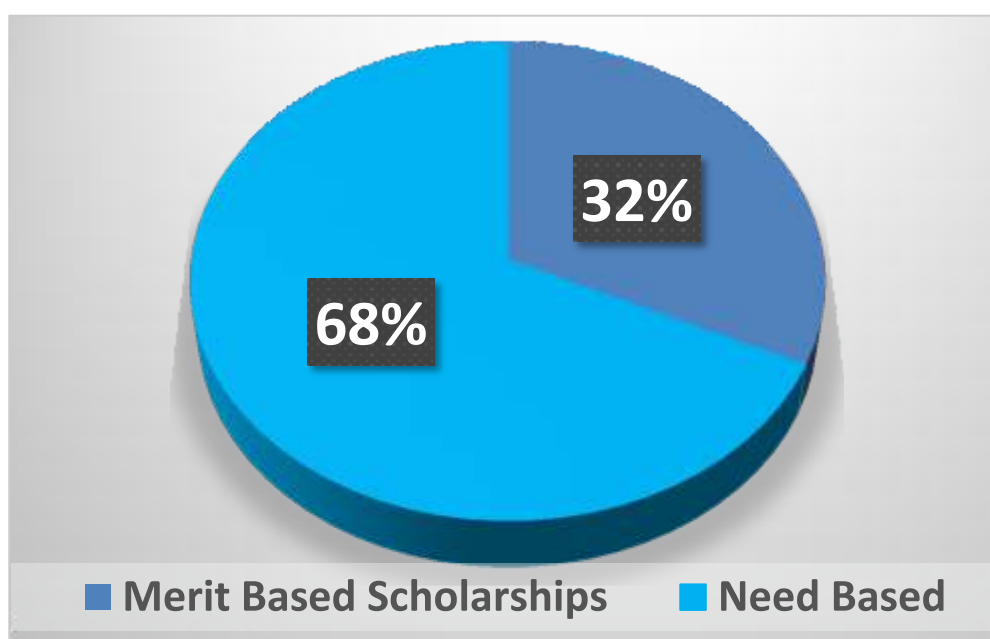
Scholarship Comparison b/w FY 2014-15 & FY 2015-16
(Rs. In Millions)
FY-2014-15

Scholarship Category	No.	Amount Disbursed	% age
Merit Based Scholarships	449	9.377	32%
Need Based	1,014	20.00	68%
Total	1,463	29.377	

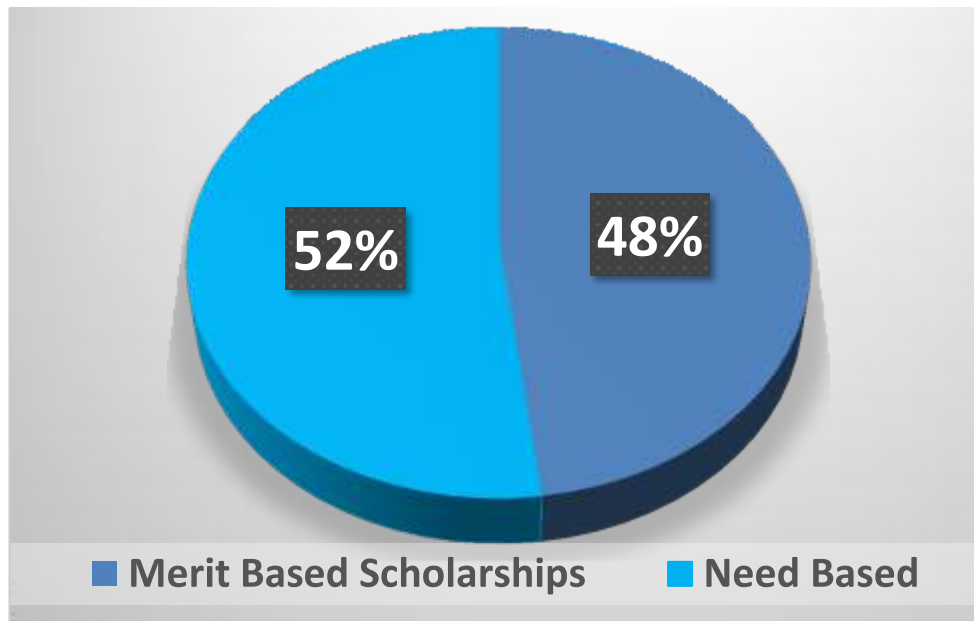
FY 2015-16

Scholarship Category	No.	Amount Disbursed	% age
Merit Based Scholarships	674	16.46	48%
Need Based	833	17.284	52%
Total	1,507	33.744	

Scholarship Comparison b/w FY 2014-15 & FY 2015-16
FY-2014-15



FY 2015-16



Analysis on Revised Scholarship Policy

- During FY 2015-16, BU has supported 12% of total students strength under various scholarship categories being sponsored by University own resources.
- As per previous scholarship policy averagely 30% of total university allocated budget under scholarship head was consumed for Merit where as 70% utilized for award of Need based Scholarships. Whereas as per new scholarship policy, during FY-2015-16 BU has distributed 48% under Merit and 52% under Need based Categories.
- The trend shows that university objective to support academically sound student is achieved within one year of revised scholarship policy implementation.
- In order to strengthen the PG Programs at BU, financial incentives are given in the revised scholarship policy under 05 merit based categories. The main objective of this financial incentive is to attract academically sound students to join BU. Under these 05 merit categories 280 student of PG Programs are benefitted which is one of the reasons that there is 48% intake increase observed in PG Programs in comparison to 2014-15.

- With the efforts of university management, the portfolio of external scholarships has also been increased up to Rs. 30.70 m.

Introducing Qarz-e-hasna Scheme at BU

- Currently under Financial Assistance Scholarship at Bahria University, we are financially supporting under privileged students having good academic records. However once the student completes his/her degree, there is no financial obligation/liability on student part.
- It is observed that some of the Public Sector Universities are shifting their need based / Financial Assistance Scholarship into Qarz-e-Hasna Program in order to convert university's contribution/scholarship to revolving fund.

Objectives

- To inculcate in students to pay back the society/university once they get financially stable and same amount can be utilized to support more deserving students.
- It will help to create revolving fund at university, hence BU will be able to support more students within same budget.
- To inspire youth to work towards the betterment of their community and society

as a whole and to make them socially responsible citizen.

- It is suggested that University Financial Assistance Scholarship Program is to be converted to Qarz-e-Hasna Scheme. The eligibility criteria will remain same as of Financial Assistance, however for re-payment students will be expected to pay back within 10 years after completion of their degree.

CDWP Decision for the approval of Project Title Strengthening of Academic and Research Programs at BU

- CDWP Meeting held on 30th March 2016 approved the subject project with total

cost of Rs. 1,446 million, with the following condition:

- “The Project was approved, in principle, subject to working out mechanism by the University for provision of scholarship/ concession in tuition fee for civilian students and scholarships package for Public Sector Employees”.
- Planning Commission issued the authorization letter for formal approval after the commitment made by BU that 25 scholarships @ 66% of tuition fee (equal to Naval Wards) exclusively will be offered to Federal Govt. employees/ their wards. However this number will be raised , once the H-11 campus become functional.





CHAPTER - 8

University Building Economies

In today's knowledge economy, the role that universities play is taking on a fundamental transformation. Many public research universities are now recognized as economic engines that drive their state's innovation. At Bahria University, we not only embrace this evolution but also seek to accelerate it as a catalyst to a better economy. While a healthy economic environment is essential, a place where we can truly thrive is really about people. For us to live and work here, we must be able to find opportunity here. By cultivating and retaining a highly educated workforce supported by universities collaborating with public and private partners, we can optimize our ability to provide our scholars, scientists, communities and entrepreneurs a place in which to thrive in our country.

UNIDO Information Session

United Nations Industrial Development Organization delivered an information session at Bahria University Islamabad Campus regarding a global competition called as the Global Cleantech Innovation Programme. The students of BUIC were provided information regarding this competition as startup businesses



Bahria University Open House 2016

Bahria University hosted Open House 2016, giving opportunity to final year students from Departments of Engineering, Computer Sciences and Management Sciences to display their final year projects.

The event was organized at the premises of Bahria University Islamabad. Honorable Rector of Bahria University Vice Admiral (R) Tanveer Faiz HI (M) graced the occasion as a Chief Guest. Director General/Pro-Rector, Registrar, and other

management of the university were also present.

There were in total 102 projects from diverse engineering branches including software engineering, control systems, communication systems, embedded systems, robotics, radio communications and wireless communication. The ceremony concluded with the Awards presentation for the top 3 projects in each department. Renowned companies from the national and multi-national sector visited Open House as a part of university's ongoing Academics-Industry collabora-

tion. The representatives appreciated the innovative projects designed by the students and conducted interviews for hiring fresh graduates of the university in their respective organizations.

Soneri Bank Recruitment Drive

Mr. Ahmed Rizvi, Recruitment Officer, conducted an in campus drive with the help of Career Office on



19th September, 2015. They interacted students and shared active career opportunities and also imparted knowledge about professional skills required for recruitment. They took a written test from the students to judge their capabilities. A number of students and graduates appeared and showcased their talent.

Telenor Recruitment for TYF

Telenor Pakistan visited Bahria University Islamabad on 1st September, 2015 in order to make it a part of



its first ever talent hunt competition. They conducted an orientation on Recruitment for Telenor Youth Forum- Propakistani. The idea of the session was to create awareness regarding their process for student's participation in competition and essential requirements.

Eastern Federal Union (EFU) Recruitment Drive

Eastern Federal Union (EFU) visited Bahria University Islamabad on 21st October, 2015 for



awareness on employment opportunities. Their team also imparted knowledge about professional skills required for recruitment. The students of Bahria University Islamabad interacted with EFU's professionals and inquired about hiring procedures and their preferences.

Faysal Bank Recruitment Drive (First Phase)

Mr. Umer Gulsher, HR Business Partner, conducted an on campus drive with the help of Career Office on 23rd November, 2015 for the first phase process. He interacted with students and shared with them active career opportunities and also imparted knowledge about professional skills required for recruitment. They took a written test from the students to judge their capabilities. A number of students and graduates appeared and showcased their talent.



Career Pakistan Talk World Program

Career Pakistan conducted a guest speaker session on 3rd December, 2015 to an audience of around



30 students of Bahria University Islamabad Campus. The session provided the students an opportunity to equip themselves with the right aptitude and attitude towards professional career. Guest Speaker Mr. Munir Malik, Financial Controller Premier Oil, guided students about the professionalism students will be needing in their near future.

Ufone Career Talk Session-Phase II

A professional grooming session with the final semester of all Engineering Department comprising



of around 60 students was conducted by Ufone on 3rd December 2015 at Lecture Theater, Mr. Adnan (Sr. Manger Engineering department Ufone) and Mr. Hassan Arshad (Manager HR) helped students in imparting professional knowledge to the graduating batches, equipping them with interview and CV construction tips.

Attock Petroleum Interviews

HR Team from Attock Petroleum visited Bahria University Islamabad as on 12th January, 2016 to conduct interviews for their vacant position "Brand Ambassador". A number of students participated in the drive for the purpose.



GSK MTO Orientation

Glaxo Smith Kline (GSK) visited Bahria University Islamabad on 16th February, 2016 for awareness on



employment opportunities. Their team also imparted knowledge about professional skills required for recruitment. The students of Bahria University Islamabad interacted with professionals and inquired about hiring procedures and their preferences.

Nestle Pakistan Visit

Nestle Pakistan conducted a guest speaker session on 19th February, 2016 to an audience of around 70



students of Bahria University Islamabad Campus. The session provided the students an opportunity to equip themselves with the right aptitude and attitude towards professional career. Guest Speaker also directed students towards the MTO and Internship vacancies for their career breakthrough.

CAREER EXPO'2016 - BAHRIA UNIVERSITY

Bahria University Islamabad organized Career Expo'16 on 22nd March, 2016. The objective was to bring job seekers and employers under one roof and to guide candidates on various career paths and innovative job hunt tactics. The job fair served as a cost-effective way for the organizations to directly interact with prospective candidates and recruit the required talent without going through traditional hiring practices.

Rector Bahria University Vice Admiral (R) Tanveer Faiz HI (M) inaugurated the event. Other senior management of university, alumni and potential employers were also present at the occasion. The Career Expo '16 provided a unique forum to connect employers who offered career opportunities to candidates from Bahria University Islamabad. The industry players as well as human resources experts from top organizations gave an overview of the various industries' update on HR demands, entry requirement and career prospects. The event was arranged with an objective of not only connecting top talent with great employers but also to provide a great opportunity for students and alumni to learn about job openings, research

companies and practice their interviewing and networking skills.

The event went for a whole day from 10:30 am - 18:15pm. Around 70 leading companies of telecom, FMCG, services, manufacturing, NGOs and banking sectors participated in the Career Expo 2016. The main highlight of the Job Fair included giving job seekers the opportunity to meet with employers at Bahria University Islamabad. Other resources that were available included career counseling professionals. The event continued for the whole day during which the employers conducted on spot interviews and selected the candidates as per their requirement.

The companies namely Standard Chartered Bank, Airblue, Bank Al Habib Ltd, European Complex, AEO Pakistan, PFL, Nayatel, Meezan Bank Limited, Roots International School, MCB, Askari General Insurance Co Ltd, Synergy Advertising, Channel 7, Bahria Town, Haidri Beverages Pvt, Capital TV, SNL Financial and many other graced the event with their presence.

Over 2000 current students and 500 alumni appeared for interviews and explored career opportunities.



AGICO Seminar

Askari General insurance (AGICO) conducted a guest speaker session on 6th April, 2016 to an



audience of around 30 students of Bahria University Islamabad Campus. The reason to organize such activity was to make students realize the potential Insurance market possess to be a future employment sector for students. Their team provided the students an opportunity to equip themselves with the right aptitude and attitude towards professional career. Guest Speaker guided students about the professionalism students will be needing in their near future.

Inductin Visit

Inductin team conducted a guest speaker session on 7th April, 2016 to an audience of around 70



Computer Sciences students of Bahria University Islamabad Campus. The idea of the session was to spread the awareness of how practical expertise open up new vistas of career and growth opportunities. The Guest Speaker, Dr. Juniad Chaudhary, helped students realize how practical projects are important for Computer Sciences Graduate before they enter into the market.

UFONE Summer Internship Program

Ufone visited Bahria University Islamabad to hunt interns for their summer internship program. They



conducted its online test of around 70 students from Management Sciences and all Engineering departments on 18th April, 2016 at Computer Lab. 22 successful candidates were interviewed on the same day. Their selection process for the same will be finalized by the End of May.

Source Code Guest Speaker Session

Source Code conducted a guest speaker session on 20th April, 2016 to the students of Bahria University



Islamabad Campus. Mr. Sahil Adeem helped them imparting professional knowledge to the graduating batches, equipping them with interview and CV construction tips. Guest Speaker also guided students about the professionalism students will be needing in their near future.

ZONG MTO Program

The HR team from ZONG visited Bahria University for their initial screening test. And after their evaluation they shortlisted 17 students from graduating batch for the interviews. They interviewed shortlisted candidates within Bahria

University. Their team will be visiting campus for second phase of their recruitment drive.



Cybernet Recruitment Drive

Senior management team from Cybernet head office Karachi visited Bahria University Islamabad



Campus to conduct a recruitment drive for their Internship and job vacancies. Initially their team interacted with students by sharing a short profile of their organization along with few tips on “how to design a professional resume” along with required interview skills. Afterwards they conducted test for their vacancies.

International Internship Opportunity – Enrive CISCOM Training Workshop

Office of Student Affairs and Career Services had



conducted a training session, as on 7th October 2015, for Engineering and Computer Sciences students on IP NAT/PAT Port Forwarding by a training institution named as 'Ciscom' which is a Network Solution Provider Company and a distinguished renowned Training Institute. Managing Director Mr. Umar Gul, an experienced Network Solution Provider and a corporate trainee who is directing and executing crucial networking projects all over Pakistan and abroad having 12 years of relevant experience, trained students on aforementioned topic by using different tools. He directed students towards the practicalities for their future prospects considering all technical aspects.

PTCL O2 Lounge

Office of Student Affairs and Career Services in collaboration with UFONE visited Bahria University



Islamabad on 19TH November, 2015 to deliver a corporate lecture on “Competency Based Communication Skills” at Lecture Theatre 2, New Campus. The idea of the session was to spread the awareness of how communication skills open up new vistas of career and growth opportunities.





CHAPTER - 9

University Building Communities

BU Community Support Programs

Lettuce Bee Kids Literacy Program IV

Keeping up with its tradition of being involved in community work, Bahria University Islamabad



collaborated with Lettuce Bee Kids (for the fourth time) to educate street children in summer vacations of 2015. Lettuce Bee Kids, an organization



with an aim to educate the street children, has been working with Bahria University since 2012. This was their fourth program, titled "Lettuce Bee Kids Literacy IV", with an initiative to educate the street children of Pakistan by giving them the education, skills and grooming that they deserve but cannot acquire.



The Lettuce Bee Kids Literacy Program 2015 was initiated in June at Bahria University, Islamabad where the computer labs were used for the



purpose of interactive learning among the children. A total number of 26 students volunteered to take responsibility of 42 children. Most of the children were below the age of 10 whereas 60% of them had never been to school or received any formal education. The focus of learning for these children was reading, writing, English proficiency, arithmetic, motor skills, geography, and social and emotional development. This fruitful collaboration between BUIC and Lettuce Bee Kids was beneficial for both the volunteering students and the street children.

Collaboration of Bahria University with Basta Foundation

Bahria University has collaborated with Basta Foundation under their Community Support Programme to complete the mandatory CSP hours



of our students in November 2015. Basta project aims to provide basic career development skills to students in under-resourced communities with the focus on creating access and long term sustainable support to the students. This support is in the form of professional guidance.

Basta Project has exclusively designed a 40 hours Community Support Program for BU and our LLB (SPRING-2014) students are involved in this project and are sent to work with Basta Foundation for 3



hours once a week. Our students are acting as mentors for the children in under-resourced communities and help them in career counseling. The project was completed in February-March 2016 with the completion of 40 contact hours of LLB students. Our students have filled out Mentor Information Forms have been matched with the student profiles of the children in the under resourced-communities and partners have been assigned to one another. Each mentor was assigned a mentee for the effective functioning of this program and a record will be maintained of each session.



Each mentor was required to complete at least 40 hours of mentoring over a time span of 2-3 months with planned meetings every month. During the course of these meetings, at least 2 hours are superficially dedicated towards career counseling. Each meeting had a specific agenda and the mentor is required to achieve the goals of each meeting before proceeding to the next agenda. This was to

ensure that the mentor-mentee relationship is effective and adds value to the student's career development.



Following sessions held with Basta Foundation:

- Orientation Session of Basta Project (by the founder of Basta Project, Mr. Abdal Mufti) on 13th November, 2015 at Lecture Theater 2, Bahria University
- First trip of Basta Project to Master Ayub Park, Venue: F-6 Islamabad
- Second trip of Basta Project to Master Ayub Park
- Third trip of Basta Project to Master Ayub Park

Orientation Session with Basta Foundation

The orientation session with Basta Foundation was held on 13th Nov, 2015 at Lecture Theater- 2, BUIC where the founder of the project, Mr. Abdal Mufti explained the details of this project to our LLB students (SPRING-2014). It was an interactive session where he described what influenced him to take this initiative and the experiences and shortcomings faced while doing this project.



Abdal Mufti was a fellow to teach for Pakistan who was placed in a highly under-resourced school in the Green town region of Lahore. He was teaching grades 4th and 5th. During this time, he realized that among other things that these children lack in their pursuit of success, is guidance regarding the set of skills that are required to achieve their goals. He identified that access is key the success of each student, and that there is a need that among other academic skills these students are given career counseling sessions should be specific to their interest. Together with his co-fellow, Zain Aziz, Abdal Mufti initiated the Basta Project.

The project was incubated at Social Innovations Lab at LUMS UNIVERSITY in Lahore. The project is also expanding into Islamabad apart from it's already presence in Lahore. The aim of Basta Project is to build bridges in the community and provide access to the students of the under-resourced backgrounds; the team of Basta Project believes in this aim and is willing to work hard to achieve these goals.

First Session with Basta (One-one meeting session)

The first session of Basta Project was held on 20th November, 2015 at Master Ayub Park, F-6 which included the following activities:

1. Mentor orientation session-Debrief: Mentors were debriefed regarding the dynamics of the project.
2. Introduction: Each person introduced themselves.
3. Ice Breaker Session: The mentor-student pair was given an incomplete story which they had to complete in 5 minutes and then act out the story in 2 minutes.
4. Individual Counseling Sessions: The students and the mentors discussed the different dynamics of their profession, the required skills and attributes, their personal experiences.
5. Getting Back Together: Students shared what they had learnt from the meeting.
6. Promise: Each mentor made a promise to the student regarding how he/she can help and similarly each student made a promise to the mentor.

Second Session with Basta (Career Identification Session)

The second session of Basta Project was held on 20th November, 2015 at Master Ayub Park which included the following:

During this session, the mentors assisted the students to identify the careers of their liking considering the skills and interests of the student. After the ice breaking session, the mentors and students were at a stage where they were in a better position to share information with each other and then they proceeded to the identification of skill phase to guide the student towards the right career path. The mentors first identified some of the key factors related to opting for a specific career. The mentors also assisted the students to identify their goals and vision and then proceeded towards understanding of a career.

Third Session (Career Mapping)

The third session of Basta Project was held on 11th December, 2015 at Master Ayub Park, F-6 where a SWOT analysis of students was done. The strengths and weaknesses of the students were established after discussions with the student. The opportunities and strengths were considered after analyzing the economy and the job market. A career mapping worksheet was filled which covered their short to long term goals.

MoU Signing of BUIC with Civitan

Civitan International is an association of community service clubs founded in 1917. The organization aims "to build good citizenship by providing a volunteer organization of clubs dedicated to serving individual and community needs with an emphasis on helping people with developmental disabilities."



The organization includes 40,000 members (referred to as Civitan) in almost 1,000 clubs around the world.

An MoU was signed between Bahria University Lahore Campus and Civitan International in order to establish a general framework to facilitate cooperation between the parties in specific areas and complement efforts in order to strengthen the collaboration. Civitan has conducted the following activities with BULC so far:

- 2 City Tours of Lahore City
- Workshop on first aid and CPR
- Lectures by road safety team of traffic police
- Introduction to First Aid by Rescue 1122
- Tourism in Punjab by TDC

In view of above, BUIC has established partnership with Civitan to conduct the CSP activities in an effective manner. A meeting was held with Director Civitan on 20th November, 2015 where an informal MoU was signed at the Director Islamabad Campus office. Under this MoU, once every quarter (or may be one every month), lectures / talks by experts from Motorway Police, Islamabad Traffic Police and Rescue 1122 (from Rawalpindi) will be arranged under CSP.

Movie Day at BUIC

Under the Community Support Program, a movie day was arranged on 21st December, 2015 at Presentation Hall, BUIC for the children of Basic Education Community School, Kalinjar Village E-8.



The cartoon movie Tarzan was shown to children aged (4-10 years). 'Tarzan' was an unusual mix of

child-like animation and storytelling. It was a change from the more childish animations and the content of the movie was appropriate for kids aged 6 but more appealing to slightly older children of around 8 or 9 years old. In the interval, refreshments were distributed to the children of the school. After the movie, the children were encouraged to sing different poems.

We hope that our efforts were helpful to build confidence in the children and provided them healthy entertainment.

Meeting of PCTN Member Universities of RWP-ISB at NUST, 1st December, 2015

Bahria University is a member of the Pakistan Chapter for Talloires Network (PCTN) housed at NUST which was formally inaugurated in July-2013. The Rector of Bahria University is also a member of the Steering Committee and a total of about 64 member universities are currently a part of this network now.



PCTN Secretariat wants to take up collaborative projects involving the 13 PCTN universities in the vicinity of Islamabad-Rawalpindi. For this purpose, all member universities were invited on one platform to discuss their community service projects. A meeting of focal persons from PCTN member universities of Rwp-Islamabad area was held at NUST on 1st Dec, 2015. The main aim discussed in the meeting was to work on projects related to education, school renovations and health camps. From the end of BUIC, the meeting was attended by the Manager SSC and Assistant Manager CSP. Informal discussions and presentations were given by every university on

how the social welfare projects are being implemented in every university under Community Support Program.



At the end of the meeting, it was proposed that all member universities can mutually work together on a project which will serve as a model project for all PCTN member universities. All participants will form up teams of 4-5 students and a faculty who will be the focal person from the university, as well as supervise the students. A Facebook group would be created so that universities can share details of projects with each other. After completion, a report would be shared with all our members so such projects could be carried out by universities in other areas/ regions.

Zoo Trip for the students of Basic Education Community School, E-8 Islamabad



Under the Community Support Program, a trip to the Murghazar Zoo was arranged for the students of Basic Education Community School, Kalinjar Village, E-8 Islamabad by BUIC on 14th December 2015. 8 volunteer students of BBA along with 2 teachers from the school (for supervision) were



present to look after the children. The trip was arranged for the students to build confidence in them as they do not have enough exposure to people, places and environment and they possess a low level of confidence. Extra-curricular activities like field trips should be regular programs for young children as they expose them to new things and help them see familiar things in new ways. The students enjoyed and learnt about the habitat, diet and countries of origin of the various birds and animals.



The animals appeared very attractive to children and they had fun spending time at the zoo watching animals. Various facts about the animals and birds were shared with the children by the volunteer students. After the visit, lunch boxes (arranged by the volunteer students of BU) were distributed to children. The students found this trip very informative and interesting as it helped them to boost up their knowledge and they expressed that such trips are more helpful in understanding class lessons. Overall, the trip expanded the children's knowledge about the animals in the zoo and they explored and discovered new and exciting things.

Earth Hour 2016

Earth Hour is the world's largest global climate change initiative that aims to combat global



warming and promotes energy conservation. Earth Hour is celebrated with almost 70 million people, in 7000 cities, towns and municipalities participating across the globe. This year Bahria University celebrated Earth Hour (in response to the invitation sent by WWF-Pakistan) on 18th March, 2016 at the campus by making awareness posters and putting them up in front of NC café, students pledge of signing and by holding a candle lighting ceremony and switching off unnecessary lights to observe the Earth Hour. Pakistan was among the 172 countries around the globe to observe Earth Hour 2016. A commitment to Earth Hour will enable our university's concern about our planet and let the world know that we stand with them to find solutions to the rapidly escalating climate crises.

International Women's Day 2016

To celebrate the international Women's Day 2016, Rozan organized a rally in collaboration with EVAW-



G Alliance on Tuesday, 8th March 2016 from from China Chowk (State Life Building) to D Chowk near

Parliament House to show solidarity for women in the whole world. About 20 volunteers from LLB Department BUI participated in this cause under the Community Support Program of Bahria University.

The event was initiated by a peaceful walk in which the participants were the organizers, disabled women with their caretakers, and volunteers from different organizations. The walk was from F-6 Markaz till Press Club, F-6 in which slogans were chanted and motivational songs were sung and the students held banners and assisted the disabled persons during the walk. On reaching the press Club, speeches were held and the founder of Rozan talked about the origin and importance of the organization and many women spoke up about women rights and the social injustice faced by women especially in the rural areas of Pakistan. Special importance was given to the issues being faced by the disabled women in offices and how the government has specified a quota for them but it is not followed properly. At the end, all participants pledged to do their part in the society to eradicate these issues and the volunteers assisted the disabled participants till their vehicles to go back home.

Workers' Day

A "Workers' Day" event was organized by the Student Support Centre (SSC) under Community



Support Program (CSP) in the Auditorium at Bahria University Islamabad for the working staff of the university on 10th February, 2016. It was basically to pay tribute to the workers of BU and appreciate their hard work and efforts in making the university a better working environment and to establish a

better understanding among the workers, management and students.



The event began by welcoming the guests, addressing the attendees, recitation of the Holy Quran followed with speeches by the motivational speakers from Green Volunteers and Humans of Pakistan. The Dramatics Club Team of Student Resource Centre (SRC) at Bahria University Islamabad actively participated and performed an act to show gratitude to our dear staff workers. A video was made by the students of Earth & Environmental Sciences Department, followed by a song performance and lunch for about 200 worker guests. The Honorable Pro Rector and Director Islamabad Campus graced the event with their presence and made this event exemplary by making it a platform where working staff could directly communicate to the highest members of our hierarchy.



This event was a perfect example of teamwork, commitment, and respect to the workers and was highly appreciated by our guests and made their morale high. It marked great success and provided our students a platform to explore their talent and

set a benchmark for the other events being held at the university.

Orientation Session with Rozan

Rozan is an NGO which deals with issues related to emotional and psychological health, gender,



psychological health of adolescents and violence against women. BU has collaborated with Rozan under their Community Support Program and assigned their BBA and BCE classes for the completion of their mandatory 40 CSP hours. Our students will be a part of the Rozan Volunteer team to spread awareness in the society about the issues that they are working on. Rozan has designed an Online Awareness Program "Aao Hum Banein Awaz" for the students of our university in which they will cover their 40 hours in six weeks by engaging people in the community and aware people on the issues of Child Sexual Abuse, Violence against Women and Emotional Health of Youth.



In view of above, an Orientation Session with Rozan was held at BUIC on 11th February, 2016. To brief our students about this program, Mr. Kashif Ali from

Rozaan gave a presentation to our students about his organization which was followed by filling Registrations Forms and signing of Letter of Commitments by the students so that they can have ownership to this program. The Program

requires completing weekly assignments and submitting them on email. The SSC Department will have a complete record of all the assignments and the program will finish in 6 weeks and the students will be awarded certificates.

Introduction Lectures with Civitan



Under the MoU signed with Civitan International in November 2015, Bahria University Islamabad and Lahore Civitan arranged introduction lectures with the Rescue 1122, Islamabad Traffic Police and Tourism Development Corporation of Punjab (TDCP) on 8th April, 2016 in the BU Auditorium. The

students from the Department of Management Sciences and Earth & Environmental Sciences were a part of this session.

The resource persons from these organizations were invited from Lahore to conduct introduction lectures to the students to complete their 40

mandatory hours of community service. Two resource persons from Lahore conducted this activity and 10 hours of community service were credited to the students. The focal persons invited to conduct the sessions included the following:

1. Dr. Rizwan Naseer Secretary General Pakistan Red Crescent Society (PRCS)
2. Mr. Zahid Ashraf Deputy Manager Tourism Development Corporation of Punjab (TDCP)
3. Cdr Asif Khawaja (President Lahore- Civitan)
4. Dr. Fatima from Pakistan Red Crescent Society
5. Mrs. Azra from Rescue 1122
6. Mr. Nazam Javed Community Training Coordinator from Rescue 1122
7. Ms. Jasmin H. Lakhani Chief Executive of Thirteen Dimensions

More CSP sessions with the Rescue 1122, Islamabad Traffic Police and Tourism Development Corporation of Punjab (TDCP) will be held in the upcoming weeks to complete the mandatory 40 hours of community service.

Labour Day

To celebrate the achievements of workers, Labour Day is celebrated on 1st May every year. As 1st May, 2016 was on a weekend and there was no observance of a public holiday, Bahria University celebrated Labor Day on 2nd May, 2016 to pay tribute to the achievements of our workers who make our work place a better working environment. It is really important to appreciate our employees and increase their motivation by showing gestures to make them feel valued.

The Student Support Centre (SSC) Department celebrated the event under Community Support Program and gathered in Sir Syed Building where a motivational speech was given to the workers present on campus. The Director Islamabad Campus graced the occasion with his presence and appreciated them for their contributions. The event was concluded by distributing gift lunch boxes to the workers as a small gesture of gratefulness.



Distribution of copies and stationery items to the Basic Education Community School, Kalinjar Village, E-8, Islamabad



Bahria University has partially adopted the Basic Education Community School at Kalinjar Village, E-8 Islamabad. Under this adoption, Bahria University annually distributes copies/ books and stationery items to the students of the school on promotion of students to new classes after their final exams.

The prize distribution ceremony was held on Friday, 22nd April, 2016 at the Basic Education Community School, Kalinjar Village, E-8 Islamabad. The wife of Registrar Retired (R) Admiral Shahid Saeed was invited as the chief guest who graced the occasion with her presence and distributed the gift items to the children in the school.

Collaboration of Bahria University Islamabad with Shirakat

To complete the CSP of BBA students, SSC has assigned a class with the organization Shirakat to participate in their project "Collaboration for change: transforming lives and minds for equal citizenship" under the Community Support Program. The purpose was to build capacity of students through 3-day training and the opportunity to implement their learning in 8 day camps in the schools of Rawalpindi and Islamabad in the summer vacations of 2016.



For this purpose, the focal persons from Shirakat conducted an orientation session at Presentation Hall BUIC on Tuesday, 3rd May, 2016 where the students signed their registration forms for the project

The orientation session was followed by 3 day trainings of students in July 2016.

Collaboration for change was a two and a half year project which contributed to the realization of equal citizenship through women's empowerment and active participation in public life. The action aimed to develop a model of women's meaningful participation in public sphere and would help them overcome barriers to promote their participation in public life through leadership training of 200

women.

The project also intended to engage male relatives who had supported women leaders in the past but faced resistance from their families or other men. They would have fun, activity based and highly participatory trainings about masculinities, gender and gender inequalities, power, the role of men as partners for socioeconomic development, men's responsibilities and contributions to the gender equality agenda.

Mentoring programme was based on an innovative model that fostered the meaningful participation of women with potential, by coaching and mentoring them while simultaneously collaborating with close male relatives who supported them within their homes and families.

Young generation were to engaged in this action. It helped them a in developing a positive behavior and learnt skills that will build their identity as citizens. For this purpose 320 young girls and boys (including monitories) received leadership training through 8 day summer camp with exciting activities in low cost private schools and public schools. 32 university students worked as volunteers in summer camp.

Lettuce Bee Kids Literacy Program (First Week)

The first week classes were held on 27th June, 30th June and 1st July, 2016. It began with the introductory classes to the children of Lettuce Bee kids where they studied shapes, colors, basic mathematics along with introductory essays. The kids were very attentive and smart to learn things quickly. A little effort towards them from our BU volunteers brought about a good positive change in the personalities of street children.





The children performed creative art activities which helped them in all areas of development. It helped in their social development as they learnt how to share, interact with others, responsibility for cleaning up and putting materials away. They learnt the names of colors and shapes through creative art activities. Drawing and painting helped them in the development of observational skills needed for science. The art activities also helped in their emotional development as they were able to represent experiences that they couldn't verbalize. When their creativity was valued, it helped in raising their self-esteem.



The first week also included a visit of some representatives from Kids and Moms which is a Montessori, day care centre and learning environment for children in Islamabad. They



distributed eid gifts to the street children and interacted with them.

This was followed by watching cartoons as a form of entertainment which were enjoyed by the children. The educational cartoon films helped them in learning different words and their meanings and also helped in enhancing their creativity and imagination.

They also played different puzzle video games which helped them in identification of directions.

Lettuce Bee Kids Literacy Program 2016-Orientation Session



Keeping up with its tradition of being involved in community work, Bahria University Islamabad has collaborated with Lettuce Bee Kids to educate street children in summer vacations of 2016. Lettuce Bee Kids, an organization with an aim to educate the street children, has been working with Bahria University since 2012. This is their fifth program, titled "Lettuce Bee Kids Literacy V", with an initiative to educate the street children of Islamabad by giving them the right education, skills and grooming that they deserve but cannot acquire.

The orientation session of the Lettuce Bee Kids Literacy Program 2016 was held on 23rd June, 2016. 6 representatives from Lettuce Bee were present at the session along with street children from the slums of F-11, Islamabad. It was attended by 26 students from the Electrical Engineering Department who willingly registered to volunteer for the program for the completion of their mandatory 40 CSP hours.

The orientation session began by welcoming the children and representatives from Lettuce Bee. The invited guest speakers addressed our students

about the program and explained how it has been running effectively since 2012. It was followed by a presentation given by a representative from Lettuce Bee to explain the model of the Lettuce Bee Kids Literacy Program to our student volunteers. The student volunteers from BU gave their brief introduction and showed their willingness to contribute to the program effectively. Each volunteer was assigned a partner child to assist them throughout the six weeks program. It was an interactive and productive session and everyone showed keen interest to participate in the program.

Iftar Drive 2016 with Feed the World



Ramadan is the perfect opportunity to participate in charitable initiatives and a time for the Muslims to show unity and come to the aid of those who are needy. There are many people who are in dire need of some of the most basic necessities in life such as food. Therefore, as a part of this community, BU Islamabad considered it their moral responsibility and stepped forward to come to the assistance of such people.

Under the Community Support Program, BU Islamabad conducted an Iftar drive on 28th June,

2016 at G-9, Peshawar More which fed 500 needy people free of cost in the Holy month of Ramadan. The Iftar drive was conducted in collaboration with Feed the World by donating them Rs.50, 000/- for this purpose. They prepared 500 Iftar boxes and distributed them to people. About 5 volunteers from BU gathered to donate, participate and distribute Iftar packs to needy people who had to reach their homes back for Iftar.

The event was successful and it became a source of happiness for many needy people.

Capacity Building Trainings with Shirakat



To complete the CSP of BBA-2A students, SSC assigned the class BBA-2 A with the organization Shirakat to participate in their project “Collaboration for change: transforming lives and minds for equal citizenship”. The purpose is to build capacity of students through 3-day training and the opportunity to implement their learning in 8 day camps in the schools of Rawalpindi and Islamabad. For this purpose, the focal persons from Shirakat an orientation session in the Presentation Hall, BUIC on Tuesday, 3rd May, 2016.

The orientation session was followed by interviews which were held on Thursday, 9th June 2016 for participation in the program. After the interviews, 13 students were shortlisted by Shirakat to participate in the program.

Therefore, full day capacity building trainings were arranged for the selected students from 20th-21st July, 2016 from 09:00 am- 03:00 pm in NC-15, Bahria University Islamabad Campus.

The students were divided into 3 groups and assigned different tasks. The groups were given different activities on leadership, communication and gender equality on the first day of training. The difference between facilitation and teaching was learnt and the tasks helped in improving the communication skills of students. Exercise games were conducted to refresh the student minds. Every group was given a chance to think and work on their capabilities which was a very good learning experience for the students.

The training overall helped in improving the communication skills of our students, their leadership qualities, learning objectives, working together safely and helped in building their confidence and self-esteem.

The students expressed their interest to work with Shirakat and said that it was a very good learning experience and such trainings should be held every semester.

Workshop on `Enhancing Professional Excellence through Personal Growth` for Pakistan Navy Officers at Bahria University Islamabad

A three days Professional Training Workshop on `Enhancing Professional excellence through personal growth` was conducted by Department of Professional Psychology Bahria University for the officers of Pakistan Navy at Bahria University Islamabad. The main objective of the training was to empower them with personal and professional excellence. The purpose of workshop training was to enable the officers with the understanding of core elements of professional effectiveness through learning comprehensive, practical and simple set of skills for better performance.

The Resource Person of the workshop was Dr. Uzma Masroor, Head of the Professional Psychology Department BUIC with other senior faculty members. Focus of the workshop was to handle difficult and challenging situations at work through

various Psychological tactics. Workshop was divided in three parts which covered the aspects; Emotional Intelligence, Effective communication skills and positive thinking. Naval Officers were trained to build better understanding towards importance of self-awareness and motivation. The ability to communicate information accurately was also focused.

Expressing his views, a Naval Officer said that “I feel honored after attaining training and having interaction with learned expert. Workshop was very useful for professionals as it provided an opportunity to comprehend and understand workplace issues. It would opined that such workshops should be continued for professional grooming of the Naval Officers.

Lastly, Registrar Bahria University, Rear Admiral Shahid Saeed gave vote of thanks and distributed certificates among the participants and resource person of training and appreciated their interest and keenness in workshop.



Hiking on trail 3 at Margalla Hills Islamabad

In order to have a breather after culmination of Fall semester and to have informal interaction with faculty members of Islamabad Campus, a sportive get together was planned on 27th January 2016. A Hiking Trip on trail 3 at Margalla Hills Islamabad





followed by brunch was scheduled in this regard. Honorable Rector Bahria University Vice Admiral Tanveer (R) Faiz HI (M) graced the occasion with his presence. He had given informal talk to the officers and faculty on the conduct of the completed semester and preparations made with expectations for the next semester.

Participation as Guest speaker:



Dr. Zainab F. Zadeh Director of IPP was invited as Guest Speaker in Seminar Entitled as “Don't Let stress consume your positivity”. Seminar was arranged by Department of psychology University Of Karachi. She Delivered a lecture on “Stress

Management”

Alumni Affairs

BBA Alumni profile



Graduate Profile Spring-2015

Office of student affairs and Career Services has

successfully acquired educational background as well as professional status of Islamabad Campus's all departments' graduates of Spring-2015 batch. The graduate profile of Spring-2015 has been compiled and circulated among Heads of all leading organizations.

Alumni Achievements BULC:

a) M. Ubaid Iqbal, PMP- MSPM

I was fortunate to have excellent faculty during my 1.5 year MS-Project Management at Bahria University, Lahore Campus. After completion of my program I prepared for PMP exam. I found that all courses taught at Bahria University were quite relevant for PMP exam. I thanked to all my teachers who taught us in a dedicated manner.

Moreover, my first research paper got published in Lahore School of Economics Journal called Lahore Journal of Economics (July-December 2015). Title of my paper was "The Socioeconomic Impact of a Customized Lending Program for Furniture Clusters in Chiniot, Punjab".

b) Shawaz Hussain Baluch, PMP

Bahria University, Lahore Campus acted like a light at the end of tunnel for me. The different raw ideas and questions generated were answered in a very professional and methodological manner from all teachers during my MS-Project Management degree. I was one of the luckiest one to have dedicated faculty who pushed me hard in the credentials so that I should be able to succeed in these exams with the flying colors. Today I am the first visually impaired PMP certified in Pakistan and most probably second in the world. I give my whole credit to Bahria University, Lahore Campus.



CHAPTER - 10

Sports

The importance of sports in the life of students is invaluable and plays a pivotal role in their overall development.

With this perspective in view, the university provides many opportunities and facilities to its students to participate in national and inter-university level sports. In the academic year 2015-16, Bahria University won two HEC Zone 'C' competitions in Football and Basketball.

Sports Achievements

Following are the events in which Bahria University participated and some sports achievements in various sports activities in year 2015-16.

- BU participated in HEC Zone 'C' Hockey championship organized by Preston University.
- Winner of HEC Zone 'C' Basketball championship was organized by NUST Islamabad.
- BU participated in HEC Zone 'C' Cricket championship organized by COMSAT University.
- BU participated in HEC Zone 'C' Badminton championship organized by NUST University.
- Winner of HEC Zone 'C' Football championship organized by COMSAT Islamabad.

Bu Constituent Units Organized Interdepartmental Championships / Events:

1. BU Karachi Campus sports department organized sports week from 24 to 30 Nov 15. DG Karachi Campus inaugurated the event.

- i. Following sports events were conducted during the week:
- ii. Around 1300 Students from BUKC, NCMPR and IPP participated in the events.
- iii. Closing/ prize distribution ceremony was held on 11 Dec 15 at BUKC Auditorium. DG BUKC gave away the prizes on good performance.

2. BU Islamabad Campus Sports department organized Inter departmental sports Gala from 7 to 10 Dec 15 at BUIC Gymnasium. Salient features of the event are:

- i. Students (Boys and Girls) from 9 departments participated in the event
- ii. Closing/ prize distribution ceremony of held on 10 Dec 15 at BUIC Gymnasium. DG BUIC gave away the prizes on good performance.

3. Bahria University Karachi Campus participated in 1st Inter University Sports Gala 2016 organized by Pakistan Marine Academy on 25th February 2016. Summary of the sports events is appended below:

- a. Around 10 universities participated in subject sports Gala.
- b. Following sports events were conducted in the gala:



S.No	Events	Venue
a.	Cricket (Boys)	Sun Rise Cricket Academy
b.	Badminton (Boys / Girls)	Badur Ul Hasan Sports Complex
c.	Futsal (Boys)	BUKC Basket Ball court
d.	Volley Ball (Boys/ Girls)	Sun Rise Cricket Academy
e.	Throw Ball (Girls)	Badur Ul Hasan Sports Complex
f.	Basket Ball (Boys/Girls)	BUKC Basket Ball court
g.	Table Tennis (Boys/Girls)	BUKC Table Tennis area
h.	Chess (Boys /Girls)	BUKC
j.	Scrabble (Boys /Girls)	BUKC



Events

- | | | | |
|---|--------------------------------|----|------------|
| 1 | Athletics (100M, 200M, 1500M) | 6 | Volleyball |
| 2 | Shot Put | 7 | Basketball |
| 3 | Long Jump | 8 | Cricket |
| 4 | Table Tennis | 9 | Football |
| 5 | Tennis | 10 | Tug of war |

c. Bahria University Karachi Campus participated only in 04 events Volleyball, Cricket, Table Tennis, Football & achieved

falling distinction / positions in the said sports event:

S. No	Name of Event	Result / Remarks
1	Volleyball (Boys)	BUKC got 2 nd Position
2	Football (Boys)	BUKC got 2nd Position
3	Table Tennis	Qualify for the semi-final only

4. Bahria University Karachi Campus participated in SZABIST Women Festival 2016 organized by SZABIST University held from 18 to 20 March 2016. Salient of the report appended below:

- a. Four Universities participated in subject even.
- b. Bahria University Karachi Campus participated in all events & achieved following distinctions / positions:

S.No	Name of Event	Result / Remarks
a.	Volley Ball	BUKC got 1st Position
b.	Table Tennis	BUKC got 1st & 2nd Position
c.	Throw Ball	BUKC got 2nd Position

5. Bahria University Karachi Campus Sports department organized Inter Departmental Sports Week from 18 to 24 April 16. Olympian Islahuddin Siddique inaugurated the event as chief guest. Salient of the report appended below:

- a. Over 1500 students (9males & Females) of BUKC, IPP and NCMPR participated in 16 events.
- b. Winner and runner up were awarded shield whereas all participants were awarded certificates.
- c. management Sciences department won overall trophy of the event.

Students Achievements

a) BULC Sports Gala 2015

Sports Gala 2015 was held at Bahria University Lahore Campus from 15-17 Dec 15. Cricket, Badminton, Basketball, Table Tennis and Chess competitions were held in which students participated actively. Winners and runners up were awarded certificates and trophies by the Honorable Director Campus.

b) BULC participation in BESTIVAL '16:

A team of BULC participated in Futsal event in Bestival '16 at Beacon House National University on 29 Feb 2016.





CHAPTER - 11

University Building Leadership

In the increasingly competitive – and financially constrained – higher education sector, universities and colleges are placing a growing emphasis on nurturing future leaders. Companies face an urgent need to develop leaders at all levels—from bringing younger leaders online faster to developing leaders globally to keeping senior leaders relevant and engaged longer. Leadership remains the number one talent issue facing organizations around the world. 21st-century leadership is different. Companies face new leadership challenges, including developing Millennials and multiple generations of leaders, meeting the demand for leaders with global fluency and flexibility, building the ability to innovate and inspire others to perform, and acquiring new levels of understanding of rapidly changing technologies and new disciplines and fields. Bahria University is well aware of the leadership roles our students will adopt and to meet this challenge we have approached education from the perspective of skill building and leadership development.

Training on Hypnosis Therapy at Bahria University

Bahria University has organized ten days training on 'Hypnosis Therapy' in collaboration with National Guild Hypnotists (NGH) USA for certified consultant Hypnotist - Hypnotherapist (NGH) USA at Bahria University Islamabad. The objective of the training was to provide 100 hours training on Hypnosis / Hypnotherapy, which is now a well-established mode of psychotherapy and self-improvement. The participants of the training learnt to treat different psychological problems through techniques of hypnosis. It is also helpful for self-improvement habit changing.

The trainers of the training were Dr. Imran Yousuf Muhammad (BCH, CMI) Mind Scientist & Master Trainer, Dr. Uzma Masroor Clinical Psychologist and Head of Department Professional Psychology at BU, Dr. Uzma Ali, Assistant Professor ICP and Ms. Muneeba Shakeel, Clinical Psychologist and NGH certified hypnotherapist.

In this training, participants learnt personal improvement, treating addicts, managing pain, reducing stress, sleep problems and changing behaviors. Hypnosis was used in a variety of settings - from emergency rooms to dental offices to outpatient clinics. Clinical studies suggest that hypnosis improve immune function, increase relaxation, decrease stress and ease pain and feelings of anxiety.

Speaking on the closing ceremony of the training, Rector Bahria University Vice Admiral Tanveer Faiz HI (M) said that "the training conducted on hypnosis therapy is very useful for the students of psychology. It provides an opportunity to comprehend and understand the theoretical principles along with therapeutic techniques. Bahria University plans that such workshops will be conducted in future also for professional grooming of the psychology practitioners and students.

Expressing her views, a participant Ms. Sana Saif said that "I feel honoured after getting training and interaction with learned experts. Being a student, I having to deal with some clients suffering from different disorders by considering the needs and demands of my clients, however, this workshop on hypnosis therapy has added into my professional skills to get my objectives effectively and efficiently" she added.



Another participant said that the workshop conducted on Hypnosis Therapy was very useful for the students of Psychology. It provided an opportunity to comprehend and understand the theoretical principals along with therapeutic techniques. It was suggested that such workshops should be continued for professional grooming of the psychology students.

Moreover, the professionals and students of different universities also participated in this training.

Dr. Uzma Masroor, Head of Department of Professional Psychology at Bahria University gave a vote of

thanks. At the end, Rector Bahria University Vice Admiral Tanveer Faiz HI (M) distributed certificates among the participants and resource persons of training and appreciated their interest and keenness in training.

Visit to National Assembly (2016)

Bahria University Law students, visited National Assembly of Pakistan with Ms. Saadia Zahoor (Lecturer) on 17th February, 2016 to observe the proceedings of the House. They were officially welcomed by Speaker National Assembly and the visit was recorded in the proceedings of the House.



Visit to Supreme Court (2016)

The Department of Law, Bahria University (DOL BUIC) has always tried to prepare its students with a great insight into the legal system that further enhance their ability to analyze how the courts actually work. Recently a group of Law students visited Supreme Court of Pakistan to gain some direct experience of what they have been learning

in their law training. This was a great opportunity for the students to observe the Court Proceedings in full swing. The trip was such a good experience as well as being extremely inspirational. The visit was extremely meaningful and the DOL BUIC will definitely be doing this in every semester as part of their clinical legal training.



Internships-Department of Law

Internship is a mandatory requirement in the 5 year LLB program. Students at the Department of Law are exploring new opportunities and are working in prestigious organizations like Supreme Court of Pakistan, Ministry of Law, Justice, & Human Rights, & International Committee of the Red Cross.

A group of six students did internship at Ministry of

Law, Justice, and Human Rights. They worked at 'Solicitor Wing' with their respective supervisors. They started their six week internship on 13th January, 2016 and worked in different departments. Later, they attended High Court for two weeks under supervision of Deputy Attorney General (DAG) Husnain Kazmi. They also attended proceedings of Federal Services Tribunal as part of their internship.



Internship of Law Students (2015)

A group of three students was nominated for internship at Human Rights Wing of Ministry of Law, Justice and Human Rights. (Aamir Bashir, Syed Irtiza, and Waseem Akram).

Ali Bhatti, Ayesha Munir, and FayyazAbbasi did their internship in Human Rights Cell of Supreme Court of Pakistan.



International Committee of the Red Cross

Three of our bright students Sahar Masood, Murtaza Ayaz, and Ossama did their internship in International Committee of the Red Cross.

of the Judges of 8th Henry Dunant Moot, 2015 conducted by ICRC. The Moot was held at Nathia Gali in Summer, 2015.

Saadia Zahoor, lecturer Department of Law was one



Conference

Verdah Ateeq, Department of Law (10th Semester) Attended National Conference on Hindu Marriage Bill 2015. The conference was arranged by Minority Voices Pakistan where all members of Hindu community of Pakistan along with other imminent government persons including Chairman of National Assembly Standing Committee on Law and Justice, Chaudhry Mahmood Bashir Virk, participated.



Industrial Trip

Centre: Huawei Authorized Learning Program

Venue: FAST NUCES ISLAMABAD

Date: Sep 18, 2015

This Trip was arranged in collaboration with the Huawei Authorized learning partnership project (HALP) at National University of Computer and Emerging Sciences Islamabad. The core objective of the visit was to understand the demand of the industry and get familiar with their usage equipment and products.

Series of Seminars conducted by Electrical Engineering Department in BUI:

Seminar on "Short Term Variable Head Hydrothermal Coordination using Cuckoo Search Algorithm" by Mr. Muneeb Yaqoob (Senior Lecturer in the department of Electrical Engineering) was held on 26th Nov at Controls Lab. Hydrothermal coordination is a complex and nonlinear optimization problem which involves both the equality and inequality constraints. Cuckoo search Algorithm in conjunction with some modifications in the conventional constraint handling techniques was used to solve the problem of short term variable head hydrothermal scheduling.

Seminar on "Intro to Latex" by Dr. Saleem Aslam (Assistant professor Electrical Engineering department) on 3rd December. Seminar was mainly focused on introduction to Latex software and provides details about important parameters and syntax. It highlights basic structure of latex documents and presents two exemplary documents. Furthermore, it gives overview about mathematical operations as well.

Seminar on "Cryptography for low-cost Pervasive Systems" by Mr. Umar Mujahid (Assistant professor Electrical Engineering department) was held on 17th Dec at Controls Lab. Radio Frequency Identification (RFID) is one of the most promising identification schemes in the field of pervasive systems. Non-line of sight capability makes RFID systems more protuberant than the contended systems such as barcode, magnetic tape. RFID systems primarily consist of three components, namely tag, reader and a database. A tag is a small electronic chip (transponder) implanted on an object which needs to be identified. A reader scans the tags, collects identification information and forwards this information to the database for final verification. This seminar was mainly focused on the security issues in low cost RFID systems, security analysis of the numerous Ultralight weight Mutual Authentication Protocols (UMAPs) and the design issues in these protocols.

Seminars

Seminar I

Topic: Introduction to 5G Networks: Enabling Technologies

Venue: UET, Taxila

Date: Feb 11, 2016

Highlights: This seminar was conducted in collaboration with the Taxalian Robotics & Automation Club (TRAC) UET Taxila. Faculty members and students (UG/PG) both were the main audience of this Seminar. The main aim was to highlight the key enabling technologies for 5G networks.

Seminar II

Topic: RF energy harvesting: introduction and research challenges

Venue: BUIC

Date: March 24, 2016

Highlights: This seminar was conducted for engineering sciences at BUIC. Faculty members were the main audience of this seminar. The main aim was to introduce the RF energy harvesting concept and highlighted potential research targets in this domain

Workshop and training attendant by faculty members

DATE	Event	Location	Originated by	Attended by Class/FM
20th August	IEEE workshop on Bond Graph	Presentation Hall	IEEE Bahria University	Students and FM of EE Department
24th-28th August	"Teaching the teachers" feedback control system	LUMS Lahore	LUMS Lahore	Ms Madiha Zoheb, Ms Tayyaba Qasir
25th August	Performance Management policy	Auditorium	BUI	All Faculty members
28th August	Teaching Skills by Dr Katherine Hunt	Video Conference Room	Bahria University	Maryam Iqbal, Sadaf Nawaz, Ali shami, Asim Altaf Shah
13th OCT	Seminar on "Automated EEG signal analysis and its application in rehabilitation of stroke patient"	LT-2	CE Department	Nadia Imran, Asim Altaf Shah, BEE7A
22nd OCT	Adaptive or Reconfigurable Networking (Seminar)	Control System Lab	Dr. Saleem Aslam	Faculty members and Students
29th OCT	Seminar on "Next Generation Networks" by Mr. Aamer Hafeez	LT-2	EE Department	Nadia Imran
11-15 Jan	Novel Approach to LCA	UET TAXILA	IEEE R-10	Gussan Mufti
26th Jan	HEC Road Show on PV solar energy	PC Rawalpindi	Jehanzeb Ahmed	All faculty members

Department of Professional Psychology

Workshops/ Seminar conducted by Department of Professional Psychology

DATE	EVENTS	LOCATION	ORGANIZED BY	ATTENDED BY
7 th October 2015 to 10 th October 2015	Eidetic Therapy	LT-2 Bahria University	Department of Professional Psychology	Professionals and students of BU
28 th , 29 & 30 th December 2015	Enhancing personal Excellence	LT-2 Bahria University	Department of Professional Psychology	Naval Officers
11 th January 2016 to 20 th January 2016	Training On HYPNOSIS THERAPY	Presentation Hall Bahria University	Department of Software Professional Psychology	Professionals and students of BU
13 th & 14 February 2016	Personal Development	LT-2 Bahria University	Department of Professional Psychology	Naval Officers Wives
2 nd & 3 rd March 2016	Psycho for Sexual Disorder	LT-2 Bahria University	Department of Professional Psychology	Students of Professional Psychology
8 th March 2016	Stress Management "I am the Best"	LT-2 Bahria University	Department of Professional Psychology	Female Faculty Members & Officers

i. Participation in National Events and Competitions:

a) NAB Anticorruption Awareness Campaign Competition:

As part of anticorruption awareness campaign, National Accountability Bureau (NAB) organized all Punjab Urdu and English Declamation Contest on 4th and 5th Nov 15 at Al-Hamra hall. Later, English Essay Writing Contest and Singing Competition were held on 7 Nov15 and 10 Nov 15 respectively, at Punjab University. Two Students participated in the contest from Bahria University Lahore Campus.

b) BULC in FORMUN 16

7 students of Bahria University Lahore Campus participated in Forman Christian College Model United Nations 16 (FORMUN 16) held from 6-9 Jan 16 at Forman Christian College. The country allotted to them was Denmark. Students actively

participated in the event and it was a good learning experience.

c) BULC in YLES 16

Lahore University of Management Sciences organized Young Leader and Entrepreneur Summit 16 (YLES 16) from 7-10 Jan 16. A team of 5 students from Bahria University Lahore Campus participated in the event where they presented business idea and took part in different entrepreneurial contests. Overall, it was a great learning experience for the students.

d) BULC Library Workshop KOHA Software 2016

In consonance to BU resolve for discovering knowledge, Bahria University Lahore Campus organized a two-day workshop for professional librarians from 29th to 30th January, 2016. The event was attended by numerous library professionals and students from 26 institutes. The chief guest

of the event was Ms. Bushra Almas, chief librarian, Forman Christian College, A chartered University. She also delivered her keynote address on "Professional Development and Ethics", in which she laid emphasis upon the cumulative role of faculty and library staff in truly delivering the library benefits to faculty, students and other stakeholders.

Mr. Sher Afzal Khan, Chief Librarian, BUIC also attended the workshop as guest speaker and elaborated upon "KOHA" integrated software for library resource person.

The workshop concluded with a certificate distribution ceremony, it was presided by the Director Lahore Campus. The Director, in his address to the participants, highlighted the importance of librarian role in universities and stressed upon bringing in the best practices in this profession.

ii. **Other Events at BULC:**

e) **Independence Day Celebrations at BULC**

On 14 Aug 15, faculty and staff celebrated 69th Independence Day of Pakistan at BULC with flag hoisting by Honorable Director Campus Commodore Amjad Zaman SI (M) followed by recitation of the national Anthem The event was a reminder of the importance of independence that we enjoy and the sacrifices our ancestors made for it. Director Campus and all the faculty and staff renewed their promise to value the Independence and serve the country in every possible way.

f) **Barbecue Festival Fall 2015 at BULC**

Students of Bahria University Lahore Campus arranged a Barbecue Festival at the campus on 5 Oct 15. Director Campus, Cdre (R) M Amjad Zaman SI (M) was invited as the chief guest. Delegates from VOICE Society for special children also honored the event with their presence and performances. Director campus addressed the students at the end and appreciated

their efforts. It was a fun evening which both the students and faculty enjoyed a lot, alike.

g) **The Importance of the Financial World**

A video link informative session was conducted at Bahria University Lahore Campus on 12 Oct 15. Professor Salima Paul of Plymouth University delivered a lecture on the topic "The Importance of the Financial World". A number of students attended this session and benefited from it.

h) **Seminar on Youth Speak Forum by AESIC**

AESIC, a well know global NGO, held a seminar at Bahria University Lahore Campus to promote Youth Speak Forum, a platform where young and senior leaders gather to share ideas, on 4 Nov 15.

i) **Visit of Yasar University Turkey delegation to BULC:**

On 12 Nov 15, a delegation from Yasar University Turkey visited Bahria University Lahore Campus. The delegation included Rector Yasar University, Prof. Dr. Gemali Dincer and Director International Office, Ms. Patricia Turkmenoglu. Honorable Rector BU, Vice Admiral Tanveer Faiz HI (M) received the delegation. Later, an introductory session on Bahria University was delivered by Mr. Ovais in Conference Room. Both sides exchanged their thoughts on future collaboration between the two Universities.

j) **Seminar on the topic of Storytelling in business**

A seminar on the topic of "Storytelling in Business" was organized by MS Department at Bahria University Lahore Campus on 12 Nov 15. Mr. Usman A. Khan, Chief Strategy Officer of Checkmate Consultancy UK, was invited as Guest Speaker for the seminar.

k) **Industrial Tour; Buleh Shah Packaging**

On 4 Dec 15, Management Sciences Department arranged an industrial tour of Buleh Shah Packaging Factory for the

students of BBA-I and BBA-V. The students were briefed on health & safety and corporate sustainability of the factory which was followed by a tour of the factory to witness the entire process of paper manufacturing.

l) Welcome Party Fall 2015

On 17 Dec 15, senior students of Bahria University Lahore Campus gave a Welcome Party to the new students inducted in Fall 2015 semester. Honorable Director Campus addressed the students on the occasion and encouraged new students to participate actively in University activities. The audience thoroughly enjoyed the event.

m) Management Sciences Department Stage Play

On 18 Dec 15, as part of the curriculum of Business Communication and Oral Communication, students of BBA-I and BBA-IV, respectively, organized a stage performance in multi-purpose hall at Bahria University Lahore Campus. Honorable Director Campus was invited as a Chief Guest on the occasion. Students were made to solve a case study given by course instructor through a role play.

n) Industrial Tour: Fine Packages

On 21 Dec 15, an industrial tour of Fine Packages was arranged by Management Sciences Department for the students of BBA-III and MBA-V. A presentation was arranged for students on Supply Chain Management which was followed by a tour of the factory during which they witnessed the entire process of packaging, from raw material to finished goods. It was a very good experience for the students as they witnessed the implications of their theoretical studies.

o) Industrial tour to Channel City 42:

Students of BBA V visited Channel City 42 as part of the academic activity of their Media Studies subject on 8 Jan 16. The students were given the tour of the studios. Overall, it was an informative session for

the students.

p) Marketing Project by Management Sciences Department:

As part of their marketing project, students of BBA-III held an activity in Multipurpose hall on 15 Jan 16 where they displayed different products on their stall and advertised them. It was a great learning experience for them. Director Lahore Campus visited the stalls and appreciated the effort students had put into their work.

q) Bahria Foundation Day Celebrations:

Coming up to 16th year from its establishment, Bahria University Foundation Day was celebrated on 8th February 2016. In all these years, Bahria University has excelled in various fields of academics, sports and extracurricular activities and has made a rapid progress in such a short time, so this was an excellent opportunity to celebrate the BU success and reflect on the prosperous future.

In this context, a foundation day ceremony was held at Bahria University Lahore Campus on 9th February 2016. Different activities were conducted in which students and faculty equally participated to celebrate Bahria University's success. The whole campus was decorated with an on brand Bahria theme of white and blue.

- **Flag Hoisting Ceremony:**

The day started with Director Lahore Campus hoisting the Pakistan flag. All the faculty, staff and students gathered on this occasion and prayed for the prosperous future of Bahria University.

- **Tagging of Pakistani Flag and BU Badges:**

All the participants of the ceremony wore Pakistani and BU Badges to celebrate the day and solidarity with this esteemed organization.

- **Cake cutting ceremony:**

A special cake was prepared for this occasion with Bahria University logo on it. The cake was cut by the students which

showed the pride and honor they feel being part of the institute.

All the faculty and students along with Director Lahore Campus got together in Multipurpose hall for refreshments afterwards. This marked the end of the ceremony.

Mobilink Focus Group Session

Professional team from Mobilink visited Bahria

University Islamabad on 10th September, 2015 to conduct a focus group session with students of different departments. The workshop took initiative to gather insights from large internet users of today's young generation. Based on this understanding, participants had a chance to take better idea of the technical aspects of research which can be a key to success for their future endeavors. Students interacted with Mobilink team about career progression queries as well.



SNL Financial Guest Speaker Session

SNL Financial Pakistan conducted a guest speaker session on 20th October, 2015 to an audience of around 70 students of Bahria University Islamabad Campus. The session provided the students an opportunity to equip themselves with the right

aptitude and attitude towards professional career. Guest Speaker Mr. Chris Ornee, Director Int. Operations SNL, guided students about the professionalism that the students will be needing in their near future.



Bahria University celebrated its 16th Foundation Day

Bahria University (BU) was established on 7th February 2000 by the Pakistan Navy through a Presidential Ordinance. Coming up to the 16th year from its establishment, BU Foundation Day falls on 7th February 2016. In all these years the university has excelled in its various fields of academics, sports, and extra-curricular activities and has made rapid progress with excellent administration, staff and faculty contributions. To mark this milestone, Rector BU Admiral (R) Tanveer Faiz HI (M) gave direction to all Constituent Units (CUs) to celebrate University Foundation Day this year on 8th February 2016. In order to celebrate 16th

Foundation Day, many activities were undertaken by all the campuses of Bahria University. The day was declared as “16th Foundation Day of Bahria University” and all the campuses were decorated with National & University Flag and balloons etc. Faculty/ staff of the campuses were wearing Pakistani Flag & BU badges and National Flag Hoisting Ceremony was held at all campuses / CU's of Bahria University in the morning. All the members including, Directors, Officers, Faculty Members and staff attended it and the event concluded with Dua Ceremony. In order to highlight BU Foundation Day in Print Media, a full page Supplement Report on 16 years Journey of BU was published in the leading English Newspaper.



BoG and Executive Committee Meetings

S No.	BoG Meeting/ ECM	Date of Meeting
1	34 th BoG Meeting	29 January 2016
2	6 th Executive Committee Meeting	27 November 2015

34 BoG Meeting held on 29th January 2016

The 34th scheduled meeting of the Board of Governors (BOG) of Bahria University was held on 29th January 2016 at the Bahria University Headquarters Islamabad. The meeting was chaired by Admiral Muhammad Zakauallah NI (M), Chief of Naval Staff/ Pro-Chancellor and Chairman Board of

Governors Bahria University and attended by the board members. The meeting had a long agenda and points were deliberated comprehensively. Detailed briefing was given on the spate of progress of various ongoing projects, with special reference to expansion of academic areas, new infra structures, financial audits and additional educational facilities in various campuses.



34th BoG Meeting of BU held on 29th January 2016

- | | | | |
|-----|---|---|----------------------------------|
| 1. | Admiral Muhammad Zakaullah NI(M)
Chief of the Naval Staff | - | Pro-Chancellor
& Chairman BoG |
| 2. | Vice Admiral (Retd) Tanveer Faiz HI(M)
Rector, Bahria University | - | Member |
| 3. | Vice Admiral Khan Hasham Bin Saddique HI(M)
Vice Chief of Naval Staff | - | Member |
| 4. | Vice Admiral (Retd) Tahseen Ullah Khan HI(M)
Director General BUM&DC, Karachi
(through video link) | - | Member
at Karachi |
| 5. | Prof Dr Misbah-Ud-Din Shami SI
VP, Islamic World Academy of Sciences | - | Member |
| 6. | Prof Dr Muhammad Qasim Jan HI
Advisor, COMSTECH Secretariat | - | Member |
| 7. | Mr Hamid Raza
Additional Secretary Military Finance
Rep of Secy Ministry of Finance | - | Member |
| 8. | Rear Admiral Farrokh Ahmad HI(M), T Bt
Commander Karachi
(through video link) | - | Member
at Karachi |
| 9. | Rear Admiral Myhammad Fayyaz Gilani SI(M)
Deputy Chief of Naval Staff (P) | - | Member |
| 10. | Rear Admiral Moazzam Ilyas SI(M), S Bt
Deputy Chief of Naval Staff (T&E) | - | Member |
| 11. | Rear Admiral Asif Khaliq SI(M)
Director General Naval Intelligence | - | Member |
| 12. | Rear Admiral (Retd) Saleem Akhtar HI(M)
Pro-Rector/DG Islamabad Campus | - | Member |
| 13. | Rear Admiral (Retd) Shahid Saeed HI(M)
Registrar | - | Secretary |
| 14. | Commodore Khalid Pervez SI(M)
Commander North | - | Member |

15.	Mr Abdul Haleem Asghar Joint Advisor (Electronics) Rep of Secy Min of Sc & Tech	-	Member
16.	Brig (Retd) Prf Dr Shaheen Moeen Dean Health Sciences (through video link)	-	Member at Karachi
17.	Dr Farooq-e-Azam Cheema Dean BU Management & Social Sciences Faculty (through video link)	-	Member at Karachi
18.	Dr Muhammad Najam-ul-Islam Dean Engineering Sciences	-	Member
19.	Captain Tariq Rasheed PN Director Naval Educational Services	-	Member
20.	Rear Admiral (Retd) Ehsan Saeed SI(M) Director Academic Affairs	-	In Attendance
21.	Commodore (Retd) Dr M Ihsan Qadir SI(M) Director NCMPR (through video link)	-	In Attendance
22.	Commodore (Retd) Tariq Habib SI(M) Director Finance	-	In Attendance
23.	Commodore (Retd) Farrukh Mahfooz SI(M) Director Examinations	-	In Attendance
24.	Commodore (Retd) Naseem Anwar Khan SI(M) Director P&D	-	In Attendance
25.	Commodore Mohsin Hayat Malik TI(M) Director BU Karachi Campus (through video link)	-	In Attendance
26.	Dr Faisal Aftab Director ORIC	-	In Attendance
27.	Captain (Retd) Imtiaz Khan PN Director Human Resource	-	In Attendance
28.	Ms Sundal Mufti Director Student Affairs	-	In Attendance
29.	Surg Cdr (Retd) Hameed Ullah Arif PN Deputy Director Health Sciences	-	In Attendance

Higher Education Research Committee (HERC)

Composition

a. Rector	President	i. Director Quality Assurance	Member
b. Pro-Rector	Member	j. Director CUs	Member
c. Registrar	Member	k. All HoDs (all CUs)	Member
d. DGs CUs	Member	l. Director PG Programmes	Member
e. Deans	Member	m. PGP Coordinators	Members
f. Professors	Member	n. Director R&D/ORIC	Member & Secretary
g. Director Academics	Member	o. Additional Co-opted	Members (as required)
h. Director Examinations	Member		



Executive Committee

The Executive Committee comprises the following, namely:-

- The Rector, who shall be the Chairman of the Executive Committee;
- A nominee of the Board of Governors;
- A nominee of the University Grants Commission not below the rank of a BPS-20 officer;
- A nominee of the Ministry of Education not below the rank of a B-19 officer;
- A nominee of the Directorate of Naval Educational Services;
- Heads of the Constituent Units whose presence is essential in the light of the agenda; and
- The Registrar who shall act as Secretary of the Committee.

Academic Council

Academic Council is headed by the Rector, to lay down academic policies to further the objectives and functions of the University for maintaining excellence in academic programmes.

Attendance at the meetings of the Academic Council is as follows:-

Present

Rector - In Chair
 DA - Secretary
 Pro-Rector
 DGs
 Registrar
 Directors/Principals of CUs
 Professors - As required
 Deans
 HODs
 DE
 DAdm
 DHS
 DQA
 DORIC/D(R&D)

In Attendance

Advisors (Academics, Research)
 DIT
 DF
 D(P&D)
 DSA
 DD(HRD)



CHAPTER - 13

Health Care/Medical Facilities

Facilities at BU Campuses

Bahria University is one of the prominent institutions where students, officers, staff and faculty receive the medical / emergency first aid services and counseling support services. We primarily serve the BU community at large. A well-qualified medical officer, one medical assistant and a naib qasid are there to entertain patients and handle multiple emergencies. Medical center is well equipped with all the baseline emergency medication and necessary equipment to handle emergencies and routine cases. Medical consultation and free medications is being provided to the staff and students up to an average of 60 patients daily. In addition to this, medical center arranges multiple health sessions, free medical camps for student and staff, yearly health checkup of lower staff, medical checkup and fitness of newly inducted faculty and staff, Initial emergency dealing by I/V drips, injection, nebulization, oxygen inhalation and shifting serious cases to PNS Hafeez hospital Islamabad, Routine medical checkup and blood grouping of all students at admission time, Monthly sanitary rounds and food inspection, spraying insecticide in whole premises, Blood donation camp arrangements, provision of ambulance round the clock to shift serious cases to hospital.

Day Care Centre

A setup of day care center with two ayas for kids of faculty members and health insurance office are also working in collaboration of medical care unit.

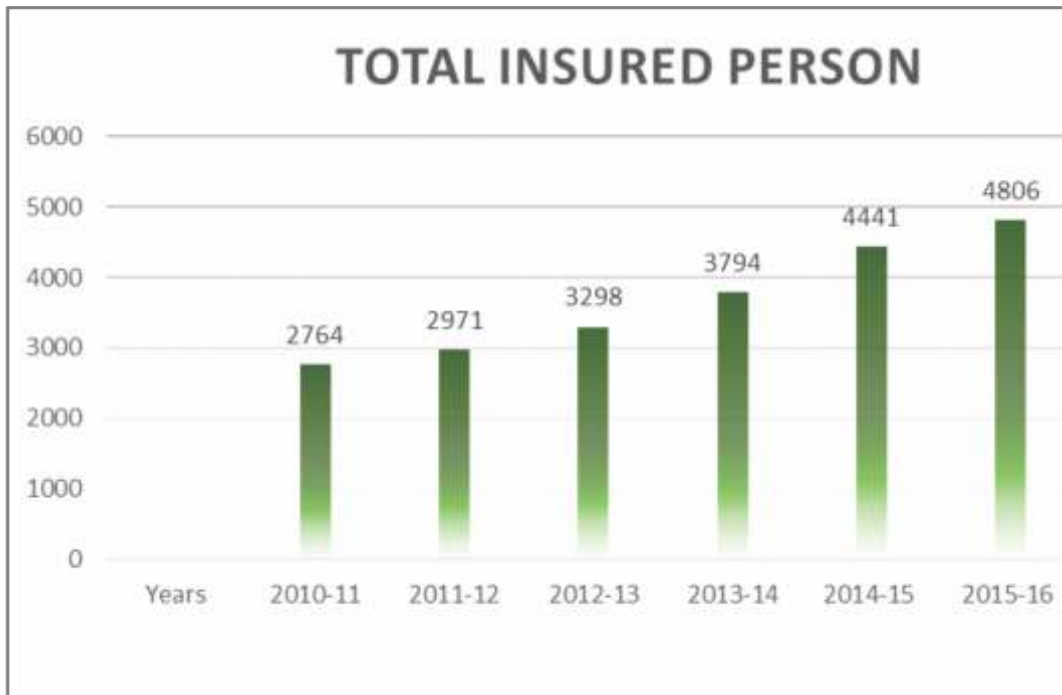
Life Insurance

Bahria University has always been conscious of providing every possible facility to its employees. Provision of health Insurance coverage to BU employees is one of such initiatives. Health Insurance can relieve the employees and their families from the worries of unexpected Diseases/Ailments, Surgery and Out Patients Care.

In order to provide medical facilities in a logical, organized and to ensure cost effectiveness of the scheme, Health Insurance coverage is made mandatory for all faculty members, officers and administrative staff of Bahria University. Currently Jubilee General Insurance Company (JGI) is providing Health insurance coverage to BU Employees and their dependents.

Following graphical representations show the illustrative view of services and contribution of this policy during the year 2015-16:



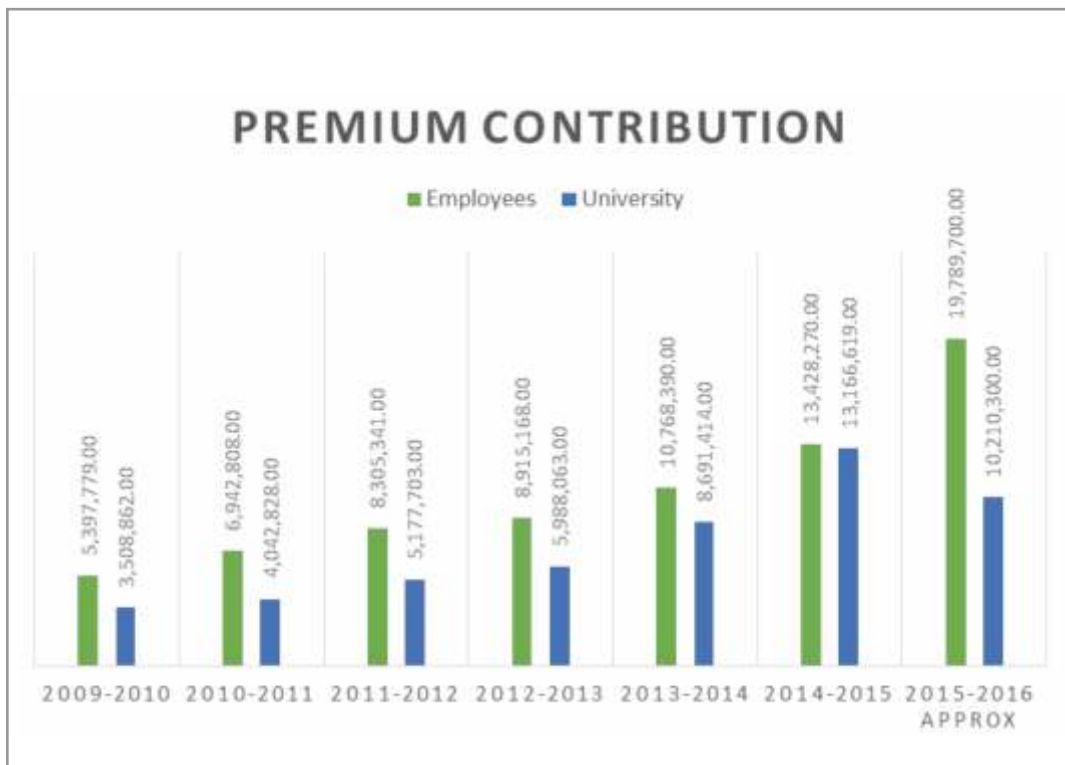
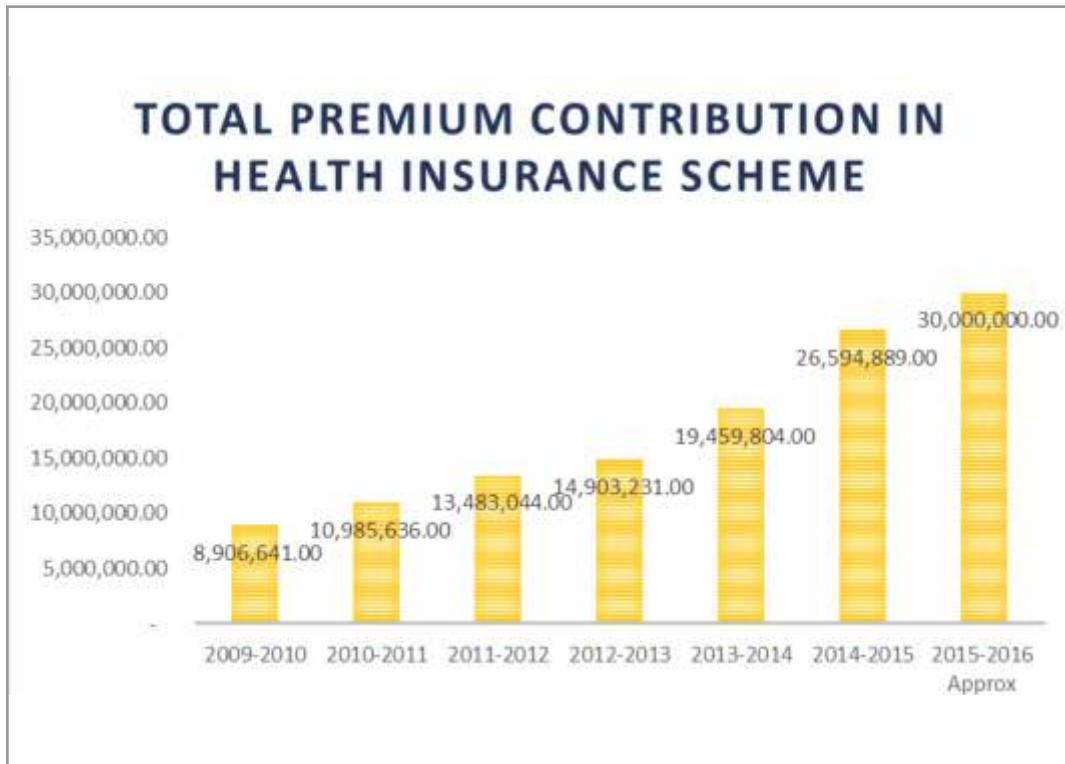


Ratio of employees and dependents



IP/OPD Reimbursement







CHAPTER - 14

Budget & Finance

BUDGET & FINANCE

To develop new initiatives and sustain those initiatives financial resources and their management is of paramount importance. Bahria has allocated a lot of resources for its market-based, competitive initiatives that allows the university to

develop new programmes, spend on development of new infrastructure to carry these programmes, and sustain these initiatives with continuous provision of resources.

BAHRIA UNIVERSITY STATEMENT OF FINANCIAL POSITION AS AT 30 JUNE 2016

	NOTE	2016 Rupees	2015 Rupees
ASSETS			
NON-CURRENT ASSETS			
Property and equipment	4	1,721,153,962	1,708,061,797
Long term deposits		9,775,843	9,802,158
		<u>1,730,929,805</u>	<u>1,717,863,955</u>
CURRENT ASSETS			
Short term investment	5	105,578,130	30,160,000
Advances	6	57,786,818	15,893,653
Prepayments		4,780,752	4,808,507
Other receivables	7	43,466,961	5,743,170
Cash and bank balances	8	669,586,173	477,629,321
		881,198,834	534,234,651
TOTAL ASSETS		<u><u>2,612,128,639</u></u>	<u><u>2,252,098,606</u></u>
FUND AND LIABILITIES			
FUND			
General fund	9	2,337,343,309	2,040,158,612
NON-CURRENT LIABILITIES			
Students' security deposits	10	163,017,818	143,002,257
CURRENT LIABILITIES			
Current portion of security deposit	10	20,281,434	17,791,251
Other payables	11 ²	91,486,078	51,146,486
		111,767,512	68,937,737
TOTAL LIABILITIES		274,785,330	211,939,994
CONTINGENCIES AND COMMITMENTS	12		
TOTAL FUND AND LIABILITIES		<u><u>2,612,128,639</u></u>	<u><u>2,252,098,606</u></u>

The annexed notes form an integral part of these financial statements.

BUDGET & FINANCE

BAHRIA UNIVERSITY INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 30 JUNE 2016

	NOTE	2016 Rupees	2015 Rupees
INCOME			
Fee income	13	1,988,264,652	1,711,645,387
Grant income	14	177,647,525	101,495,765
Other income	15	142,676,915	128,427,257
		2,308,589,092	1,941,568,409
EXPENDITURE			
Salaries, wages and other benefits		1,325,033,747	1,110,682,293
Traveling expenses		11,506,453	17,569,341
Repair and maintenance		67,574,149	66,460,582
Workshops and conferences		6,857,681	15,427,829
Utilities and communication		89,785,868	82,583,554
Professional services		28,411,950	12,374,030
Audit fee		120,000	120,000
Equipment operation		4,629,978	3,860,226
Donation		4,444,139	3,096,032
Student expenses		36,970,802	32,072,905
Entertainment expenses		5,779,248	6,446,062
Newspaper and periodicals		2,873,767	3,748,615
Printing and stationery		21,128,825	23,264,362
Insurance		1,592,402	1,816,755
Postage and courier expenses		2,197,474	1,810,055
Renewals, registration and licenses		4,052,132	4,668,528
Scholarships		36,791,522	35,165,893
Advertisement and publicity		8,944,007	10,106,404
Rent, rate and taxes		17,263,501	17,428,108
Affiliated examination expenses		32,610,780	36,071,059
Research and development		31,627,871	12,354,907
Depreciation	4.1	221,532,691	170,430,413
Bank charges		242,084	324,408
Hostel expenses		15,923,920	16,899,163
Sports activities		1,351,474	4,690,888
New intake expense		16,547,312	11,365,690
Gardening, cleaning and garbage expenses		11,437,411	4,614,357
Miscellaneous		4,173,207	10,468,764
		2,011,404,395	1,715,921,223
SURPLUS FOR THE YEAR		297,184,697	225,647,186

The annexed notes form an integral part of these financial statements.

BUDGET & FINANCE

BAHRIA UNIVERSITY STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 30 JUNE 2016

	2016 Rupees	2015 Rupees
CASH FLOWS FROM OPERATING ACTIVITIES		
Surplus for the year	297,184,697	225,647,187
Adjustments for non-cash charges and other items:		
Depreciation	221,532,691	170,430,413
Gain on disposal of assets	(979,664)	(549,074)
Profit on bank deposits	(37,710,345)	(34,434,562)
	182,842,682	135,446,777
Operating cash flows before working capital changes	480,027,379	361,093,964
Working capital changes		
Decrease / (increase) in:		
Long term deposits	26,315	(238,148)
Advances	(41,893,165)	(5,792,514)
Prepayments	27,755	4,094,144
Other receivables	(34,491,826)	(2,752,763)
Increase / (decrease) in accrued and other liabilities	40,339,592	(16,489,673)
	(35,991,329)	(21,178,954)
Cash generated from operations	444,036,050	339,915,010
Student security deposits	20,015,561	29,063,370
Current portion of security deposit	2,490,183	(5,923,330)
Net cash generated from operating activities	466,541,794	363,055,050
CASH FLOWS FROM INVESTING ACTIVITIES		
Capital expenditure on property and equipment	(235,317,806)	(158,047,538)
Proceeds from sale of property and equipment	1,672,614	637,239
Profit on bank deposits received	29,900,250	34,434,562
Short term investment - net	(70,840,000)	181,250
Net cash used in investing activities	(274,584,942)	(122,794,487)
CASH FLOWS FROM FINANCING ACTIVITIES		
	-	-
Net increase in cash and cash equivalents	191,956,852	240,260,563
Cash and cash equivalents at the beginning of the year	477,629,321	237,368,758
Cash and cash equivalents at the end of the year	669,586,173	477,629,321

BAHRIA UNIVERSITY
STATEMENT OF CHANGES IN GENERAL FUND
FOR THE YEAR ENDED 30 JUNE 2016

	Rupees
Balance as at 30 June 2014	1,814,511,425
Surplus for the year	225,647,187
Balance as at 30 June 2015	<hr/> 2,040,158,612
Surplus for the year	297,184,697
Balance as at 30 June 2016	<hr/> <u>2,337,343,309</u>



**Bahria University Head Office
Directorate of Quality Assurance**

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