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Message from the Vice Chancellor

It has been a remarkable year here at LUMS. For an institution to grow, changes must be made, which is why during 2013-2014 LUMS also metamorphosed in many areas. Through collective work with faculty, staff and students, the university management fulfilled its commitment to creating a distinctive intellectual and educational environment.

Changes have been made in university affairs, policies and the workings of general management have been updated. The following is a summary of the areas the university has added to and improved its performance on:
University Affairs

General Administration

- Plans for enhancement of campus security have been approved.
- Self-funded transportation system for students was introduced this year.
- For improvement of indoor and outdoor facilities of the campus, numerous schemes have been implemented, including a sprinkler system and engaging the services of a horticulturist.

Shaikh Ahmad Hassan School of Law

- Ground breaking ceremony for the school was held on April 5, 2014
- Construction of the building has since then commenced under NMF’s supervision with Habib Fida Ali as the official architect.

LUMS Center for Entrepreneurship (LCE)

- An inter-school working group for LCE was established to oversee the implementation of the establishment of the centre.
- The centre was inaugurated on May 17, 2014 and with a selection of incubates it commenced full operations.

Campus Infrastructure

- Coca Cola Aquatic Centre
  - Comprehensive proposal was presented to Coca Cola.
  - According to the MoU a total amount of USD 1 million for the project will be paid out over 5 years in installments of USD 200,000/year by Coca-Cola management.
  - The groundbreaking was held on May 30, 2014.
Policies

Gap Analysis

- Gap analysis of existing documented university policies has taken place through comparison with international best practice model of Syracuse University.
- Further improvements are being made in the LUMS Faculty Handbook.

New Policies

- Sexual Harassment Policy has been revised to ensure compliance with the Law of Pakistan
- Attendance policy, leave policy, benefits of ex-employees policy have been revisited and improved upon.

University Governance

- University Governance Structure (BoT, MC, VC, University Council and Faculty Council) have been formally reviewed.
- Proposal for formal closure of earlier discussions on constitution of University/VC Council and TORs of this Council have been presented after consultation with all stakeholders.

Internal Audit

- A system is to be developed and implemented to address all internal audit (KPMG) observations.
- A compliance office in the VC Secretariat has been established to track long term implementation of recommendations and development of policies.
- External (PWC) consultants for university policies development have been hired.

Internal Coordination

- Cross-departmental working groups have been established to address key thematic operational issues.
- A university calendar is under development to better understand dependencies of inter-departmental processes.

Dr. Sohail Naqvi
Vice Chancellor LUMS
LUMS IN NUMBERS

Total student body: 3594

Number of total male students: 2229

Number of total female students: 1365

Current graduate student body: 455

Current post graduate student body: 28
SULEMAN DAWOOD SCHOOL OF BUSINESS (SDSB)
SULEMAN DAWOOD SCHOOL OF BUSINESS (SDSB)

Degrees Offered
- BSc (Honours) Accounting and Finance
- BSc (Honours) Management Science
- Masters in Business Administration (MBA)
- Executive MBA (EMBA)
- PhD Management

Research Highlights
- The SDSB faculty published the following in 2013-2014:
  - 36 Conference Papers
  - 3 Book Chapters
  - 26 Journal Papers
  - 11 Journal Cases
  - 36 LUMS Cases
Message from the Dean

The Suleman Dawood School of Business (SDSB), a leading management school of Asia, is distinguished as the pioneer of the case method of teaching in Pakistan with over five hundred local cases written by its faculty. Since its inception, SDSB has strived to bring about a constructive change in the academic and management practices in the region by motivating and enabling the best human resources to foster an innovative and progressive culture.

Our vision is to be the leading business management school in the region, recognised for teaching and research excellence. The academic programmes are designed to develop leaders who can identify real challenges and present solutions. Our programmes are industry relevant that address pressing needs of today and are constantly reinvented through the cutting edge research of our faculty. The undergraduate programmes, the BSc (Honours) in Accounting & Finance and Management Science, groom highly professional graduates. The graduate programmes offered include the MBA, Executive MBA and PhD Management, which give our graduates a global perspective. Our executive education and customised training programmes offered at the Reasling Executive Development Centre are highly sought after as well.

SDSB’s research and executive centres are complemented by the highly accomplished faculty who work to achieve our mission of generation, assimilation, and dissemination of knowledge. With the largest gathering of PhDs in a business school in the nation, the research conducted by our faculty is widely acknowledged in the international scholarly circles and their contributions are published in well renowned journals, including our own Asian Case Research Journal.
Our faculty provides ranging consultancies and policy advice both to the public and private sectors. This leads to the addition of several new cases to our curricula every year, developed in-house at the Case Research Centre. Our new initiative of conducting sector based research in the areas of Agribusiness, Entrepreneurship and Family Business, Education Management and Energy Management is helping us stay relevant to the changing needs of the local and global economies. The Social Enterprise Development Centre (SEDC) and the Raising Executive Development Centre (REDaC) extend our expertise to the industry, thus contributing to the human resource development of public, private, social and small and medium enterprises (SME) sectors of the country.

Our achievements during the year 2013 – 2014 include:

- LUMS was once again ranked as the top business education university in Pakistan by the Higher Education Commission of Pakistan
- New simulations & experiential exercises in the area of Project Management, Change Management and Marketing Management were introduced in the year
- New content development initiatives have been undertaken by the SDSB faculty in the area of finance, general management, HR, and business for the upcoming year
- SDSB student enrolment increased from 1068 in 2013-2014, to 1267 in 2014-2015
- New MOUs for academic and student exchange were signed with University of Malaya, Malaysia, Ozyegin University, Turkey, and Universiti Putra Malaysia, Malaysia
- New faculty has been hired and faculty research is on the rise with A-list publications and case studies
- 3rd South Asian Management Research and Case Conference 2013 was held in Bangalore, India, as a collaborative event between SDSB LUMS and Indian Institute of Management. The conference theme was set as ‘Celebrating South Asia: Explorations of the Contributions to Global Economy’
- AACSB has now accepted our Eligibility Application and will be appointing a mentor shortly

Dr. Arif Nazir Butt
Dean, Suleman Dawood School of Business
Academic Highlights

BSc (Honours) Accounting & Finance and Management Science

- The intake for SDSB undergraduate students FY 2013-14 was 280 students
- Undergraduate batch size for the business school increased to 1000 students in the year 2013-14
- 40% of juniors (Class of 2016) opted for the Management Science major due to the previous success of the programme
- New electives in the fields of Accounting, Finance, Management and Marketing were offered in the undergraduate programme
- SDSB undergraduate students were awarded merit based scholarships in order to continue with their higher education
- 2 ACF 2014 students were selected for the CFA Scholarship Programme FY 2013-14 under partnership agreement with CFA Institute. Both students will get fee exemption from CFA for their exams.

AACSB and SDSB

- Status of Pre-Accreditation AACSB Eligibility Application
  ACSB accepted SDSB’s Pre-Accreditation Eligibility Application and will be appointing a mentor to assist SDSB in the development of AACSB Standards Alignment Plan (SAP).

- AACSB Workshops/Seminars and Conferences
  To familiarise faculty with the AACSB accreditation standards, policies, and processes, SDSB faculty / administrators have been participating in workshops and seminars organised by AACSB since 2010. During 2012-2014, 18 faculty members attended the AACSB workshops at various international locations which were focused on Business Accreditation and Assurance of Learning (AOL) standards.

- AACSB Accreditation Workshop 1.0 for SDSB Faculty
  A full-day workshop for SDSB Faculty titled ‘AACSB Accreditation Workshop 1.0’ was organised in November 2013 to engage all faculty in the AACSB accreditation process.

ACCA-LUMS Collaboration

- ACCA awards exemptions to LUMS
  ACCA awarded exemptions from first nine ACCA papers to graduates (2013 & 2014) from the BSc (Hon) Accounting and Finance programme. ACCA conducted a robust quality assurance process and extended this award on the basis of comparable curriculum. This accreditation grants the maximum number of exemptions that are awarded to any institution.

- LUMS-SDSB, as an accredited partner also signed the ACCA Accelerate Programme
  Accelerate is a special arrangement between ACCA and LUMS giving the BSc (Hon) Accounting and Finance students, an opportunity to register early with ACCA and accelerate their careers in finance. Under this scheme, students would benefit in the following ways:
  - Free initial registration of ACCA
  - Free annual subscription of first year
  - No exemption fee for first 9 papers
  - Free access to ACCA’s online resources for professional qualification of Chartered Accountancy, additional requirements will include 3 years training and two modules (6 courses)

- Five ACF graduates from the batch of 2014 were hired by PWC Qatar
  Highest numbers of ACF 2014 graduates were hired by MNC’s - FY 2013-14 namely Engro Foods, Reckitt Benckiser, Standard Chartered, Proctor & Gamble and Unilever.

MBA

- Three new online HBS courses were offered to the new MBA class, namely Mathematics for Management, IT for Management and Finance making a total of seven courses.

- In the second year, three new elective courses have been introduced:
  1. Organisational Power and Politics
  2. Business Launch Pad
  3. Competition Law and Policy
Executive MBA (EMBA)

- Key themes of ‘Leadership’, ‘Business Fundamentals’, and ‘Innovation’ have been introduced in the first year along with basic functional courses. In the second year, participants were offered ‘Specialisation’ and ‘International’ modules, and a set of integrative courses that revolve around the theme ‘Managing the Future’.

- In the second year, participants were given the option of choosing elective courses from the following two specialisation areas:
  - General Management
  - Entrepreneurship

- The International Module, an integral 5-day component of the EMBA programme was conducted in University Sains Malaysia, Malaysia. The class made industry visits to Intel Corporation, Jeruk Pak Ali Simpang Ampat, Motorolla and Terang Bulan Sdn Bhd in Penang, Malaysia:
  - International Module 1: from June 29 to July 6, 2013
  - International Module 2: from September 22 to October 6, 2013

- An alternative to the international module is gaining intense management expertise through local modules and this year industrial visits were made to Sialkot.

- Two ‘Distance Learning Modules’ have been introduced in EMBA. These modules consist of seven HBS online courses. Two new courses were offered this year, in addition to the five offered last year;:
  - Mathematics for Management
  - IT for Management

PhD Management

The SDSB PhD Management programme is being re-launched this year. It offers a unique opportunity for higher studies in Finance, Operations Management and Organisational Behaviour and Strategy. The programme has been designed to ensure that doctoral students have the full range of necessary research and teaching competencies, skills and sufficient knowledge of their subject area essential for designing and executing research at the highest standards of academic excellence. It aims to do this by combining structured course work with supervised research study. The programme design has been made in line with international standards and satisfies HEC guidelines for PhD programmes. There are 12 students in the new batch which is the largest class size of PhD Management at SDSB.
SDSB CENTRES

CASE RESEARCH CENTRE

The primary goal of any leading research university is to produce high quality and meaningful scholarship. The Case Research Centre (CRC) is the hub of pedagogical research at SDSB. CRC has excellent examples of the transformative impact of our case research. These Pakistan specific cases and notes are drawn from real life issues in organisations experienced first-hand by SDSB faculty through research or consultation.

Highlights:

- **Case Output from July 2013 - June 2014:**
  - 40 case studies and technical notes

- **Asian Journal of Management Cases published with Sage Publications, India**
  - [Volume 10, September 2013] & [Volume 1, March 2014]

- **Annual Case and Research Conference:**
  - 3rd South Asian Management Research and Case Conference 2013 (December 27-29, 2013)
    - This conference was a collaboration between SDSB-LUMS and Indian Institute of Management (IIM), Bangalore held in Bangalore India. The theme was 'Celebrating South Asia: Explorations of the Contributions to Global Economy' where 150 submissions were received, 94 papers were accepted and 80 were presented.

- **Faculty Workshops**
  - Two workshops were held in the past year:
    1. The Art & Science of Teaching (January 10-11, 2014)
RAISING EXECUTIVE DEVELOPMENT CENTRE

The Raising Executive Development Centre (REDC) during 2013-2014 continued to innovate, revamp and rejuvenate its executive education programmes to respond effectively to the learning and development needs of the industry. REDC launched a number of new initiatives to bring more relevance in the programmes offered.

REDC in NUMBERS

**PARTICIPANTS**

1369

**NUMBER OF CLIENT ORGANISATIONS**

237

**PARTICIPANTS’ DEMOGRAPHICS**

89%

11%

**OPEN ENROLLMENT**

49

**ORGANISATION FOCUSED**

- Customised programme on Strategy and Leadership for leading players in Telecom, FMCG and Manufacturing Industries
- One year Executive Certificate Programme for Agribusiness Management for entrepreneurs, progressive farmers and working professionals
- Regional Conference on education for USAID
- Workshop/ Round table on Business opportunities in Agriculture and Women mentoring women in business for Dutch Embassy

**LEARNING INNOVATION**

- Published Cases/Technical Notes
- New Content Development Initiative
- Conducted Simulations/ Experiential Exercises

- Negotiation Skills
- Problem Solving & Decision Making
- Building High Performance Teams
- Exec. Cert. in Agribusiness Management
- Leading and Managing Change
- Developing Future Leaders
- Management Development Programme

**FUNCTIONAL DISTRIBUTION OF ENROLLMENTS (2013-2014)**

<table>
<thead>
<tr>
<th>INDICATOR</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quality &amp; Relevance of Programmes</td>
<td>42</td>
</tr>
<tr>
<td>Impressions of Learning Experience</td>
<td>43</td>
</tr>
<tr>
<td>Value to Participant Future Career</td>
<td>43</td>
</tr>
<tr>
<td>Residential Programme Quality of Service</td>
<td>46</td>
</tr>
<tr>
<td>Residential Programme Quality of Facilities</td>
<td>46</td>
</tr>
</tbody>
</table>

**PARTICIPANT EVALUATION (ANNUALISED) REDC PROGRAMMES & FACILITIES (2013-2014)**

**INDUSTRY WISE DISTRIBUTION OF ENROLLMENTS (2013-2014)**

<table>
<thead>
<tr>
<th>Industry</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retailing/Wholesaling</td>
<td>90</td>
</tr>
<tr>
<td>Chemical</td>
<td>40</td>
</tr>
<tr>
<td>Pharmaceutical</td>
<td>60</td>
</tr>
<tr>
<td>Telecommunications/IT</td>
<td>30</td>
</tr>
<tr>
<td>Agriculture</td>
<td>50</td>
</tr>
<tr>
<td>Public Sector</td>
<td>40</td>
</tr>
<tr>
<td>Oil and Gas/ Energy</td>
<td>30</td>
</tr>
<tr>
<td>Consumer Products</td>
<td>0</td>
</tr>
<tr>
<td>Textile</td>
<td>0</td>
</tr>
<tr>
<td>Engineering/ Construction/ Real Estate</td>
<td>50</td>
</tr>
<tr>
<td>Financial Institutions/ Insurance</td>
<td>50</td>
</tr>
<tr>
<td>Food / Beverages</td>
<td>0</td>
</tr>
<tr>
<td>Health Care/ Medical</td>
<td>0</td>
</tr>
<tr>
<td>Armed Forces</td>
<td>0</td>
</tr>
<tr>
<td>Automotive</td>
<td>0</td>
</tr>
<tr>
<td>Others</td>
<td>0</td>
</tr>
<tr>
<td>Education</td>
<td>0</td>
</tr>
</tbody>
</table>
Learning Innovation

- The area of focus has been to enhance the contextual value and relevance of our content, through scholarship generation hand-in-hand with programme development:
  - New cases and technical notes completed and published in the areas of family-run businesses, innovation, culture, reward systems and agribusiness.
  - Custom programmes based on collaborative case development with industry leaders in telecom financial services and agribusiness management.

Organisation-Focused Programmes

REDC’s portfolio of Organisation-Focused Programmes (OFP) consisted of 29 programmes for various organisations. These programmes offered a dynamic opportunity for senior professionals to participate in enhancing organisations’ business performance.

- Toolkit for Motivation and Innovation
  The customised Leading Leaders Programme in May 2014 received acclamation for inculcating executives with contemporary knowledge and skills focusing on the strategic perspective.

- Strategy Alignment
  REDC conducted multiple customised marketing simulations that enabled participants’ to test their strategy at run time during FY 2013-2014. The programmes provided a platform for exchange of ideas and a vivid experience for strategically managing a diverse product portfolio to outpace market competition.

- Market-Driven to Market Driving
  A leading packaging organisation approached LUMS to facilitate in development of their executives through a rigorous multi-tiered programme. This programme enabled participants to understand the customer base and develop personal leadership action plan and also develop a strategic plan based on client engagement and competition analysis.
Open-Enrollment Programmes – High Impact Learning

REDC has transformed itself into a leading service provider offering premium executive education to the corporate world and business community. REDC conducted 20 Open-Enrollment Programmes in varied management disciplines in the past year.

The center’s flagship, Management Development Programme (MDP) received participation from the senior management of a diverse mix of industry sectors. Senior executives from leading MNCs, FMCGs, financial institutions, international audit firms, pharmaceuticals, telecommunication companies, fertilizer manufacturers, software houses and heavy engineering, among others constituted the participants of MDP 2013.

REDC introduced a year-long Executive Certificate in Agribusiness Management (ECAM) in collaboration with Nestle Pakistan. Designed for the technical high potential entrepreneurs and executives, ECAM is a modular programme developed to propagate effective and cutting-edge agribusiness management practices in the country.

Family-Run Businesses- Bridging Linkages: REDC successfully conducted programme on Growth and Continuity in Family Run Businesses as well as hosted an Executive Alumni Dinner for the participants of Family Run Business to facilitate exchange of dialogue and view on common challenges and developments.

SOCIAL ENTERPRISE DEVELOPMENT CENTRE

LUMS and McGill University launched the Social Enterprise Development Centre (SEDC) in 2010, with financial support from Canadian International Development Agency (CIDA), as a joint venture to uplift the capacities of the social enterprises in Pakistan. SEDC’s interventions are derived from the key areas of Research, Training, Consultancy and Dialogue (RTCD) in enhancing the leadership and managerial competencies of their human capital.

Highlights

- National Leadership for Reproductive Health and Development (NLRHD) Project (2010-2013)
  Funded by: The David & Lucile Packard Foundation, USA
  Budgeted Amount: USD 500,902

  • HELP Training Programmes (21 training programmes conducted)
  • Sector Specific Strategic Papers (Livestock, Textile & Sports Sector)
  • Establishment of National Women Leaders’ Network (NWLN)
  • Impact Assessment Workshop (November 1st, 2013)
  • Project Conference (December 14, 2013)
Assessment & Strengthening Program – USAID

Assessment & Strengthening Program (ASP) funded by USAID is designed to bring the integral management of Pakistani CSOs and the GOP organisations to a higher level of management excellence, accountability and transparency. This helps to build the capacity of Pakistan’s implementing partners to meet standards for compliance with US Government rules and regulations, and to meet the donors’ standards for future funding.

- A few ASP trainings were held during 2013-2014:
  - Financial Management for Middle Managers of Public Sector
  - Monitoring & Evaluation for Operational Executives
  - Procurement Audit
  - Procurement Management Workshop for Decision Makers
  - Monitoring and Evaluation for Middle Managers
  - HR Management & Administration for Senior Managers
  - Communication Strategy & Management (Tier 1)
  - Procurement Planning Workshop for Operational Executives

- A total number of 1684 participants from all over Pakistan, covering government organisations including civil society organisations and private organisations

- 85 cases and scholarly notes have been developed so far by SDSB faculty in 3 years of operations

- 44 trainings conducted for 12 programmes which were developed in collaboration with international linkages
SDSB External Relations

MBA Exchange Programmes

In addition to the already existing eleven international universities, which have been engaged with LUMS SDSB for academic (faculty and student) exchange; we have successfully added three international universities to our panel. The MBA programme has collaborations with the following universities:

01. ESSEC Business School, France
02. Emlyon Business School, France
03. IESSEG School of Management, France
04. Indian School of Business, Hyderabad
05. University of New Castle, Australia
06. Bend University, Australia
07. Seoul National University, Korea
08. Koc University, Turkey
09. Ozyegin University, Turkey (NEW)
10. University Sains Malaysia
11. University of Malaya, Malaysia (NEW)
12. Universiti Putra Malaysia, Malaysia (NEW)
13. Tsinghua School of Economics and Management, China
14. Guanghua School of Management, Peking University, China

MBA Clubs & Societies

- **LUMS MBA Global Management Club (GMC)**
  This MBA executive student club hosted Synergies’14 in March 2014. The event was attended by around 500 students from across Pakistan. Events included were:
  - Perspicacia - Business Case Competition
  - Gauntlet - Business Simulation Game
  - Empyre - Business Simulation Game

- **LUMS MBA Marketing Executive Club (LMEC)**
  This MBA executive student club hosted the annual event Marketing Colloquium in March 2014. The event was attended by students from different universities across Pakistan, where they competed against each other in order to test their marketing skills through formulating brand strategies, preparing ATL and BTL marketing plans, etc. Events included in Marketing Colloquium 2014 were:
  - Brands War Competition
  - Battle of the Brains
  - Ad Effect – Advert Competition
  - Brand Plan – Comprehensive Marketing Strategy
  - Intopia – Entrepreneurial and Marketing Competition
  - Brandeur – Branding Workshop

- **LUMS HR Executive Club (LHEC)**
  Held its annual HR Confluence as the flagship event which aims to bring together the corporate community and the upcoming generation of managers/leaders. The event took place in February and encompassed various interactive activities for the participants including:
  - ServicePunch: Customer Care Workshop
  - HARVARd Everest: Simulation Competition
  - HR MASTERS: Case Study Competition
  - HR Panel Discussion Sessions: HR Evolution & New Practices

- **The LUMS MBA Entrepreneurship Society (LMES)**
  Held the internationally acclaimed TED talk for the first time at LUMS termed as ‘TEDxLUMS’ which followed the theme: ‘Unravelling Stories’. TED is a global platform devoted to ‘Ideas Worth Spreading’ while TEDx is a locally organised collaborative event that focuses on individuals and innovation in various cities. The landmark event attracted globally recognised speakers like Jehangir Tareen, Hassan Shehryar Yasin (HSY), Kalsoom Lakhani, Ali Gulpir, Anila Daulatzai and Maryam Wasif.

- **LUMS MBA Sports Society (LMSS)**
  Held their annual sports competition which was sponsored by Corineto of Unilever in April 2014 where the MBA first years took the lead by winning all competitions.
MBA Placement Office (MPO)

- MBA Class of 2014 placement statistics:
  - 53% placements and 80% offers by the first week of August 2014
  - Successful and best placements in PwC, Qatar to date. 5 undergraduates inducted
  - Increased international placements within the MENA region: 9% to date

- MBA 2016 internships
  - Internships arranged one week before the 6 weeks deadline (July 21, 2014)
  - Internship placements in Sanofi Aventis, Dubai were arranged by MPO. These MBA 2016 students were the first Pakistanis to work at this office.

- Career Development Workshops on Resume Writing and Interview Skills were held
- Industry Panel Discussions on FMCG and Telecommunication sector for MBA & EMBA 2014 & 2015 were arranged.
- A workshop on Psychometric Tests (MBTI, TKI, Strong interest Inventory, FIRO-B etc.) was held
- 17 companies visited campus for MBA recruitment (on-campus drives)
- 69 companies engaged to date, with MPO for MBA/EMBA recruitment (active opportunities/process regardless of the outcome)
- 28 companies participated in MPO Networking Days 2014 (2 sector based days)
- 5 companies that have specifically targeted EMBA graduates for recruitment to date.
- Local Average Salary for MBA 2014: Rs. 92,000
- An Alumni Panel Discussion on Telecommunication Industry: trends, opportunities and expectations was held
- An Alumni Panel Discussion on Marketing and Sales Functions: concept, types, trends and opportunities was arranged.
- Shell Dome event was arranged
- McKinsey recruitment and interview preparation sessions were held
- Coca Cola Beverages Pvt. Ltd. ‘No Mountains High’ recruitment drive took place on campus

New Initiatives:

- Profile Interviews
  MBA students are ‘profiled’ into their strengths and weaknesses and then trained and counselled accordingly to improve their weak areas.

- Career Development Workshops
  A series of MPO workshops to coach students on key soft skills including resume writing, interview skills, networking and negotiation skills. These workshops are conducted separately for first and final year students. All students within a class are invited but those with corresponding weak areas are particularly encouraged to attend.
MUSHTAQ AHMAD GURMANI SCHOOL OF HUMANITIES AND SOCIAL SCIENCES (MGHSS)

Departments:
- Humanities and Social Sciences (HSS)
- Economics

Research Highlights HSS:
- Books: 10
- Book Chapters: 13
- Journal Articles (International, Peer Reviewed): 14

Research Highlights Econ:
- Journal Articles in Print: 6
- Working Papers: 10
- Conference Presentations: 16

Degrees Offered:
- MS Economics
- BSc (Honours)
  - Anthropology/Sociology
  - Economics
  - Economics and Politics
  - Political Science
- BA (Honours)
  - English
  - History
Message from the **Dean**

The Mushtaq Ahmad Gurmani School of Humanities and Social Sciences (MGHSS) is the heart of LUMS – it is the biggest of our four schools, home to half the students and half the faculty in the university. It is an exciting school that offers majors in Economics, Political Science, Economics and Politics, History, English, and Anthropology and Sociology as well as minors in Psychology and Philosophy. It is also home to the Gurmani Centre for Languages and Literature with a focus on our national and regional heritage.

MGHSS offers students the strong and deep foundations on which all education ought to rest. There is a profound difference between being educated and being trained and effective and successful professionals need to be sensitive to the economy and society in which they have to function.

There is no other institution in Pakistan that offers the kind of core foundation of education that LUMS does because of the presence, vitality and vibrancy of MGHSS whose faculty thrives on engaging with the most critical and pressing issues in our society. The school aspires to provide every LUMS student the analytical tools with which to understand these issues and relate to them with awareness, sensitivity and intelligence.

Our graduates have been among the most admired ambassadors for the country abroad and we hope that they will also be amongst the most socially committed and politically aware citizens at home. MGHSS offers the LUMS student a life-changing opportunity. It is a school for the bold, the curious, the committed and the ones determined to make a difference.

**Dr. Anjum Altaf**
Dean I Mushtaq Ahmad Gurmani School of Humanities and Social Sciences
Department of Humanities & Social Sciences

The Department of Humanities and Social Sciences (HSS) is a community of scholars. Through teaching and research, the faculty critically engage with, and contribute to the body of knowledge.

Within the parameters of LUMS, the department fulfils three equally important, mutually complementary functions:

1. Through the BA (Honours), BSc (Honours) and minor programmes, HSS provides specialised and rigorous training in the disciplines of Humanities and Social Sciences – currently Anthropology-Sociology, English, History, Philosophy, Politics, and Psychology – on par with leading universities around the world;

2. The Department provides a broad exposure to humanities and social sciences for students in other schools with the purpose of inoculating a lifelong affinity for learning and placing a high value on the life of the mind and;

3. As a university located in the global South, HSS’s contribution to world-class scholarship demonstrates an unequivocal commitment to original research and creative thinking.

In 2013, a new major, BA (Honours) in English was launched. 15 English courses were taught during the year with over 400 students attending.
HSS at a Glance

Full time faculty **46**
- Male **26**
- Female **20**

PhDs **31**

Total number of students in HSS majors **515**

Total number of courses (including sections) taught in the academic year **189**

Total number of students taught in the academic year were **6088**

Almost **4000** of these were in HSS courses while the rest were in the university wide core courses.
Faculty

The department has built a reputation for attracting high quality young faculty and this year has been particularly good. The following were hired:

1. Dr. Ali Raza, Assistant Professor, History, University of Oxford
2. Dr. Anushay Malik, Assistant Professor, History, SOAS London
3. Dr. Maryam Wasif Khan, Assistant Professor, English, UCLA
4. Dr. Amin Ali, Assistant Professor, Sociology (Joining in August 2014), University of Texas at Austin
5. Dr. Ayaz Qureshi, Assistant Professor, Anthropology (Joining in January 2015), SOAS London
6. Dr. Muhammad Zahid, Assistant Professor, Political Science (Joining in August 2014), University of Leeds

Visiting Faculty

In order to ensure that the department continues to build linkages and receive healthy input from other academic institutions, HSS had three visiting faculty members in the academic year:

1. Professor Ishtiaq Ahmed, Professor Emeritus, Stockholm University
2. Professor Kiren Chaudhry, Associate Professor, Berkeley, California
3. Professor Anne-Christine Hubbard, Assistant Professor, University of Lille

Awards and Fellowships

1. Nida Kirmani received 2 fellowships – one based in Berlin and the other in Delhi.
2. Nadira Shahnaz received the Fulbright Fellowship and the Barakat fellowship based at Oxford University.
3. Ali Nobil Ahmed received a fellowship based in Berlin
4. Ehum Haider and Essam Fahim got into PhD programmes in Cambridge. Both received funding from Cambridge.
5. Taimoor Shahid was accepted into a PhD programme in Chicago.

Promotions

Bilal Tanweer – Assistant Professor (English)
Students

One parameter of the success of a department is how its students fare after graduation. This year, the department has made a major effort to track its students in graduate programmes and block to graduate programmes and enrolment in graduate programmes. The feedback indicates that HSS has fared very well.

The Fulbright data for last year reveals that 12 out of 50 students receiving the award were from Humanities and Social Sciences. Moreover, 27 students who received the Fulbright chose to pursue graduate programmes in fields related to Humanities and Social Sciences.

The placements to date have been:

- Sanniah Jabeen (Humanities) – MA at the University of Chicago
- Rida Qadir (Political Science) Masters at MIT
- Rao Mohsin Ali Noor (History) Masters in Middle Eastern Studies, University of Chicago
- Momena Sohail (Anthropology), University of Oxford

Students from HSS have distinguished themselves further by securing placement with the most prestigious employers, and by the range and diversity of their choices.

Many have gone to the corporate sector, joining high profile companies like Coca Cola, Unilever, the Sufi Group, Engro and Bank Alfalah. Others have chosen research positions at UNICEF, the UN headquarters in New York, the World Bank in Washington, the British Council and USAID. Still others are working with NGOs in Pakistan (HRCP, Teach for Pakistan) or have taken the CSS exam.

Grants

Faculty Travel Grant

Travel grants for conference funding were won by the following faculty members:

1. Amber Riaz
2. Sadaf Ahmad
3. Hasan Karrar
4. Lukas Werth
5. Naveed Rehan
6. Nida Kirmani
7. Waqar Zaidi
8. Bilal Tanweer

Faculty Initiative Fund

Five faculty members also won grants from the university for research to be conducted in the coming year. In the first call for proposals, 3 of the top 5 proposals were from the department. The following received university grants:

4. Laila Bushra – Religious Fundamentalism in Pakistan
5. Waqar Zaidi – Discourses and Ideologies of the Atomic Age
6. Ali Usman Qasmi - Problematizing Citizenship in a Postcolonial Nation-State: A Case Study of Pakistan

Selected Events

HSS had its most prolific year in terms of organising academic forums and debate. This included three conferences and a host of talks by prominent academics.

Conferences

- HSS and National Institutes for the Humanities (NIHU) Program for Islamic Area Studies at Waseda University, Japan joinedly held the Fourth International Conference of the NIHU Program for Islamic Area Studies at LUMS between November 2 and 4, 2013. The theme for the conference was New Horizons in Islamic Area Studies: Encounters, Reflections and Collaborations.
- Dr. Mohammad Waseem and Asma Faiz in collaboration with Dr. Andrea Flescherberg, DAAD long-term professor in Pakistan organised a two-day international conference Governance and Public Policy-Making: A Eurasian Dialogue on March 13, 2014, at LUMS. The conference included presentation of papers by eminent social scientists such as Dr. S Akbar Zaidi, Dr. Jochen Hippler (University of Duisberg-Essen), Dr. Sanaa Alimia (SOAS) and Dr. Kneir (Kassel University).
The Ninth Annual HSS Conference, titled The Global War Centenary, 1914-2014 was held from March 21-23, 2014. The purpose of the conference was to use the centennial of the First World War to explore how war, in its many manifestations has been a process integral to modernity across the long twentieth century. Professor Bruce Cumings (University of Chicago) and Professor David Edgerton (King’s College London) delivered keynote addresses. In addition, there was one workshop session, three panel sessions, a roundtable with journalists, and a roundtable discussion at the end.

LUMS Writers Workshop and Short Story Contest
This is an initiative that the department undertook in 2012. The idea of the workshop is to provide young writers with the time, space and mentorship for creative work. In 2013, LUMS Young Writers Workshop had its second annual event where 8 participants were mentoried in the craft of fiction writing. These were selected from a pool of about 250 entries. The workshop was conducted by Bilal Tanweer, along with the Sri Lankan writer, Shehan Karunatilaka, who won the Commonwealth Prize and DSC Prize for his novel ‘Chinaman’, as the guest speaker.

October, 2013
Regional Histories of Pakistan Problems and Prospects
Dr. Ali Usman Qasmi

Dynastic Politics in Punjab
Dr. Hassan Javid

Pakistan the Garrison State
Prof. Ishtiaq Ahmad

Soap, Imperialism, and the Transformation of 19th Century Consumerism
Dr. Waqar Zaidi

Opening Up the Issue of Intellectual Decline in
Dr. Nomanul Haq

November, 2013
Andrei Tarkovsky’s Hunters in the Snow
Dr. Khalid Mir

Social Sciences: Theory and Practice
Prof. Mohammad Waseem,
Prof. Andrea Fleischengberg,
Dr. Rubina Sajgot

Unframed: The Avant-Garde Today
Huma Mulj

Translation as Dialogue: Rendering Umrao Jan’s Revenge in English
Taimur Shahid,
Bilal Tanweer

Questioning The Muslim Woman
Dr. Nida Kirmani

A Talk on ‘The Labour Movement in Lahore: 1947 - 1974’
Dr. Anushay Malik

December, 2013
The Heart of South Asia
Prof. Veena Sikri

History Seminar with Dr. Rajmohan Gandhi
Dr. Rajmohan Gandhi

January, 2014
Creative Writing Lecture With Lorraine Adams
Lorraine Adams

The Scatter Here Is Too Great
Bilal Tanweer

February, 2014
Joining the Foreign Service of Pakistan
Director General of the Foreign Service
Academy

March, 2014
HSS Seminar on the Irrational Actors in Social Theory
Dr. Kiren Chaudhry

April, 2014
The Lahore Fort and its Four Courts
Dr. Nadira Khan
Other Highlights

- A two-hour HSS Open House session provided LUMS students with an interest in HSS subjects with more information on the HSS disciplines and the Majors and Minors.

- The department organised an Outreach seminar on HSS for school counsellors and administrators. Faculty members also visited several schools across Punjab and in Karachi to introduce students to the Humanities and Social Sciences at LUMS.

- The department added an additional essay component to its admissions criteria, and graded some 600 essays for the incoming batch of students into the MGSHSS. This better ensured that students had the skills required to cope with the department’s courses, and is a major step towards a better more nuanced admissions policy.
Research/ Publications

- **BLONYAD**: Journal of Urdu Studies (Vol. 5, 2014)
- **NUMUD**: Students’ Literary Magazine (Vol. 3, 2014)
- **Naya Urdu Afsana**: Collection of articles read at the Manto Conference held in LUMS in 2012, published by Sang-e Meel Publications

Events

- Events organised by the Student Council of Halqa-e Danish:
  - Orientation 2013 and Launch of Namud followed by a performance of Noon Meem Rashid's "Laaj" and "Zamaleq" by Shariq Thara
  - Bulleh Shah's Poetry: Guest Speaker Iqbal Qaisar
  - The Problems of Urdu Orthography: Lecture by Arif Waqqar
  - Students' Session
  - Marsila & Sozo-o Salam of Lucknow: Poetry Recital (Urdu & Farsi), Nohas in Hindi & Persian Poetry: A presentation by Hasho Neest
  - Saadat Hasan Manto's Pakistan 2013: Lecture by Raza Naem
  - A Session with Eminent Poet and Playwright Amjad Islam Amjad
  - Iqbal's Interpretation of the Quranic Story of Adam & Eve: Lecture by Dr. Ayesha Leghari
  - The Art of Translation: Lecture by Giola Gueruzoni.
  - Translation Workshop conducted by Giola Gueruzoni
  - A Seminar on Poet Majeed Amjad followed a Nazm Reading Session by Seven Contemporary Poets of the Urdu Nazm
  - Choosing a Research Agenda: From Ideology to Social Behavior with Special Reference to the Partition Syndrome and its Fallout on India- Pakistan Relation: Lecture by Dr. Ihshtiaq Ahmed
  - A Two day workshop on the Hindi Script by Taimoor Shahid
  - Talk by Raza Naem on Egyptian Poet Fouad Negm
  - Urdu Play ‘Twinkle Twinkle Main Ban Gayaa Star’ written, directed and performed by LUMS’ students, performed for ten consecutive days at Alhamra Arts Council, in collaboration with Zavia Productions

Gurmani Centre for Languages & Literature

Academic Highlights

The Centre offered 19 courses in Fall, Spring and Summer 2013-14 which were attended by 586 students

- Fall 2013-14, 271 students attended
- Spring 2013-14, 291 students attended
- Summer 2013-14, 24 students attended
Guest Lectures (2013-14)

- **Fall 2013-14**: A session on “Importance of Arabic Language in the World” by Mazhar Meen in the Arabic class.
- **Spring 2013-14**: A session on “Issues Related to the Accurate Usage of Language” by Rauf Parekh, in the class of LITR251 Twentycentury Urdu Naam.
- **Spring 2013-14**: A lecture on “Arabic Language in the Age of Globalisation” by Mazhar Meen in the Arabic class.

Faculty Achievements/Publications

- Yasmeen Hameed’s book titled “Daybreak: Writings on Faiz” was published by Oxford University Press Pakistan.
- Yasmeen Hameed’s book titled “Naya Urdu Afsana” was published by Sang-e Meel Publications.
- Dr. Yusuf Siddiq’s book “Mashriq Mein Islam Tehzeeb ke Aasaar: Bengal Mein Arabi wa Farsi Katbat” (“Relics of Islamic Civilization in the East: Arabic and Persian Inscriptions of Bengal”) was published by NUST University.
Department of Economics

The Economics Department is a growing and vibrant department that provides students an opportunity to obtain an in-depth understanding of economic theory and its varied applications in the real world. At the undergraduate level there is a diverse range of courses offered within the department ranging from quantitatively challenging to more qualitative and empirical courses. The department also offers an MS degree in Economics which is comparable in structure and rigour to any high quality graduate programme in the US or the UK.

The Department is now one of the largest in the country and is a recognised national and regional centre of research. In recent years its faculty has become much more research active and the current interests of the faculty span a range of sub-fields, which include: macro and monetary, growth, experimental game theory, finance, applied econometrics, trade, economics of education and migration and political economy. The Department’s national reputation has afforded its faculty the opportunity to undertake consultancy and research work on policy issues of international and national significance.
The Department at a Glance

Faculty

There are currently 32 faculty members at the Department of Economics, of which 17 have PhD degrees. In addition there are 8 teaching fellows and 7 visiting faculty members. The chart below shows how the department has grown in the recent years.

New Faculty Hires 2013-14

- Dr. Imtiazul Haq (PhD, University of Manchester)
- Dr. Husnain Fateh (PhD, University of Iowa) - joining Fall 2014
- Syed Hassan (PhD candidate, Ohio State University) – joining Fall 2014
- Bilal Khan (PhD candidate, Northern Illinois University) - joining Fall 2014
- Rabiya Rashid (MSc Economics, LUMS)
- Usman Ghaus (MSc Economics, LUMS)
Visiting Faculty

One of the ways that the department maintains linkages with other universities is to have a visiting faculty programme in which faculty from leading institutes are invited to teach at LUMS. The Department has had the following visiting faculty members in the last year:

- Dr. Ijaz Nabi (Professor, Country Director, International Growth Centre)
- Dr. Karin Seigmanni (Senior Lecturer, Labour and Gender Economics, International Institute of Social Studies of Erasmus University, Rotterdam)
- Kate Veborn (Candidate, DPhil Economics, University of Oxford)
- Dr. Mahmood Ayub (Senior Associate at Centennial Group Inc)
- Dr. Polin Nayak (Professor, Delhi School of Economics)
- Dr. Farosat Bokhari (Senior Lecturer, University of East Anglia)
- Dr. Ahmad Khalid (Professor, Bond University)
Students

The Department consistently attracts a large proportion of the LUUMS student body. In the year 2013-14, 70 percent of the graduating class in the Mushtaq Ahmad Gurnani School of Humanities and Social Sciences had Economics or Economics and Politics as their major. The BSc Economics programme remains the most popular graduating major, while the BSc Economics and Politics option is also gaining popularity overtime.

University Admissions

In the past ten years, nearly 25 to 30 of the graduates in Economics have been placed in well-reputed PhD programmes, such as: Northwestern, Yale, Cambridge, Oxford, George Mason, University of Arizona, London School of Economics and University College London. In fact, several graduates of the BSc programme have joined LUUMS as Assistant Professors after completing their PhDs.

Scholarships

15 students from the department have received the Fulbright scholarship this year, with 14 starting Master’s Programmes and 1 starting a PhD programme.
Grants

The Economics Department at LUMS values teaching and scholarly activity.

- **Grant Body: IZA-DfID’s Growth and Labour Markets in Low Income Countries Programme**
  Cheema, A. (with Asim Khwaja (Harvard), Jacob Shapiro (Princeton) and Muhammad Farooq Naseer (LUMS)). Punjab Economic Opportunity Programme: Evaluating Markets for Skills Acquisition and Employment

- **Grant Body: MIT-JPAL Governance Initiative**
  Cheema, A. (with Asim Khwaja (Harvard), Daron Acemoglu (MIT) and James Robinson (Harvard)). Trust in State Authority and Non-State Actors, A Pilot Study

- **Grant Body: Harvard Ash Centre**
  Cheema, A. (with Asim Khwaja (Harvard), Daron Acemoglu (MIT) and James Robinson (Harvard)). Trust in State Authority and Non-State Actors, A Pilot Study

- **Grant Body: Institute of Development and Economic Alternatives**
  Cheema, A. (with Jacob Shapiro (Princeton) and Zulfiquar Hameed (Punjab Police)). Policing Hotspots: Enforcement or Situational Policing Where do the Dividends Lie?

- **Grant Body: DFID**
  Cheema, A. (with Asim Khwaja (Harvard), Jacob Shapiro (Princeton) and Muhammad Farooq Naseer (LUMS)). Punjab Economic Opportunities Program: Evaluating the Impact of Core Interventions

  Hussain, S.T., Khan, U. Afraz, N. Mukhtar, N. India – Pakistan Trade Relations, Adam Smith International/ UK Foreign Office (UK FCO). The project was funded for $300,000.

- **Grant money managed at UCSD**
  Hassannain, Ali. Grant worth $29,610 for my project with Arman Rezaee “Removing Misconceptions about Conception: Technological Innovation in Livestock Extension Services in Punjab, Pakistan.” Including grant money managed at UCSD, this project is currently funded to the tune of $200,000.


  **Faculty Initiative Fund, LUMS:**
  Majid, H & Memon, R. Do Migrants Bring Their Castes with Them? Identity and Occupational Mobility in Lahore


  Malik, Kashif Encouraging Entrepreneurship: A Randomized Evaluation of Micro-Venture Capital - An Initial Assessment

Publications

Social Science and Policy Bulletin

This bulletin is published quarterly by the MGSHSS with the aim of disseminating high quality research done at the school to a wider audience.

LUMS Economics Working Paper Series

This series is published to provide a platform to the faculty for academic research dissemination and feedback.
Other Highlights

In the year 2013, 85 per cent of the new student intake expressed a preference for an Economics major. The department also offers a minor in Economics and is developing proposals to recompence the Economics and Mathematics major, and start a new major in Economics and History.

From MSc Economics to MS Economics: Re-structuring the graduate programme

The Department of Economics has replaced the existing MSc Economics programme with the MS Economics programme effective from Fall 2014-15. The MS Economics programme comprised 30 credits spread equally over two semesters. The new MS programme approved by the Faculty Council and Faculty Plenary consists of 30 credits to be completed in three to four semesters.

MS Economics Conversion Programme

Students who have already graduated with MSc Economics degrees from LUMS would be eligible to enroll in the MS Economics programme. These students would be required to register for at least two semesters and complete 6 credit hours thesis to qualify for the MS Economics degree.

Student Advisory

The department has a student advisory system in place to counsel to take the right courses in an academically sound sequence. The advisory system also has to be geared towards giving students advice regarding placement in graduate programmes. The department conducts open house sessions every semester with visiting researchers and faculty from well-established universities abroad to help with career and university choices and placements.

Selected Events

The 10th South Asian Economics Students Meet

The Economics Department and the Random Walk Economics Society (RWES) hosted the 10th South Asian Economics Students Meet (SAESM) at LUMS from December 24 to 28, 2013 in collaboration with the Lahore School of Economics. Student and faculty participants from Afghanistan, Bangladesh, Bhutan, India, Nepal, Sri Lanka and across Pakistan took part in various events such as writing and presenting academic papers, an individual event called the Budding Economist of South Asia, and a quiz competition. A best paper award titled the Sen-Haq award was also unveiled, in honor of Nobel Prize winner Amartya Sen and the late Mahbub-ul-Haq.

Discussion and presentations were also led by Dr. Ijaz Nabi (Country Director, IFIC), Dr. Mohsin Khan (Resident Senior Fellow, Atlantic Council), Sakib Sherani (Former Principal Economic Advisor to the Ministry of Finance), Huma Fakhar (Founder, MAP Services), Haroon Sharif (Adviser, Regional Economic Cooperation, World Bank) and Dr. Ali Qazilbash (UNIDO).

Mahbub-ul-Haq Lecture Series

The Economics Department and the Mahbub-ul-Haq Human Development Center agreed to jointly hold an annual Mahbub-ul-Haq lecture series. The first lecture of the series was held on January 16, 2014. Dr. Noorleen Hayez, the Under-Secretary General of the United Nations, and Executive Secretary of United Nations Economic and Social Commission for Asia and the Pacific (UN ESCAP) presented the topic "Placing Human Development at the Center of Post-2015 Development: A New Global Compact for the Future we Want". The event was chaired by Mr. Iqbal Riza, former Special Advisor to the Secretary-General of the United Nations.
Pakistan-India Trade Workshops

The Department of Economics conducted three workshops on Pak-India Trade in connection with their ongoing project. The first was on agriculture, with policy makers, stakeholders, and the LUMS team discussing the subsidies given by India to its agriculture sector and also the lack of market access. The workshop resulted in significant findings which fed into a research policy paper written by the Department of Economics. A key outcome of this work is a policy stance to argue for a separate agreement on agriculture to open up trade between Pakistan and India.

A second workshop focused on the automobile and pharmaceutical sectors. The purpose of this research was to identify the threat to local industry as a result of opening up trade with India. The work done by the research team was shared with sector stakeholders during a workshop on the auto sector held in Karachi and on the pharmaceutical sector held in Lahore. Key stakeholders actively participated and provided insights into the real issues. The workshop informed policy options.

Finally, in culmination to the research done during the year on the normalisation of trade with India, a workshop was held in December where research on overall trade impact, trade in agriculture, trade in the auto-sector, trade in the pharmaceutical sector and alternative dispute resolution mechanism was shared with a wider audience consisting of industry, academia and policy makers.

Brown Bag Seminar Series

The Economics Department continued its Brown Bag series this year. This series is an opportunity for internal and guest speakers to present work informally to an academic audience. This series of lectures is also open to researchers from collaborating institutions such as CERP and IDEAS to facilitate an exchange of ideas and encourage collaborative work.

**July 22, 2013**

**Additional Returns to Investing in Girls’ Education: Impact on Younger Sibling Human Capital**

Dr. Javeria Qureshi
Assistant Professor, University of Illinois, Chicago

**August 1, 2013**

**Specifications in Demand Systems for Drugs: Logistic vs. AIDS**

Dr. Farasat Bokhari
Associate Professor, University of East Anglia

**October 2, 2013**

**Mercantilism: Its Origins and Relevance to the Modern World**

Shahid Mahmood
Research Officer, Institute of Social and Policy Sciences

**November 1, 2013**

**Pakistan Railways: Its Current Condition and Cause-Based Solutions**

Fiaz Ahmed Khan
Deputy Chief Personnel Officer, Pakistan Railways Headquarters

**January 16, 2014**

**Coming Up Short: Recovery Gaps in Child Development and the Role of Maternal Education After the 2005 Pakistan Earthquake**

Dr. Tahir Andrabi
Professor, Pomona College

**February 5, 2014**

**The Working Classes and Nationalist Articulations in Pakistan and Bangladesh, 1947-1971**

Dr. Anushay Malik
Assistant Professor of History, LUMS

**February 23, 2014**

**Personalities and Public Sector Performance: Evidence from a Health Experiment in Pakistan**

Arman Rezaee
Graduate Student, University of California, San Diego

**May 16, 2014**

**Simulating Natural Disasters - A Complex Systems Framework**

Dr. Ali Asjad Naqvi
Post-doctoral Fellow, Vienna University of Economics and Business

**June 6, 2014**

**School Accountability Laws and the Consumption of Psychosimulants**

Dr. Farasat Bokhari
Associate Professor, University of East Anglia
LUMS – CERP Fellow Joint Career Advisory Panel

CERP and the Department of Economics at LUMS jointly hosted a forum for students and young researchers to meet with an inspirational group of economists including Michael Callen (Harvard), Asim Khawaja (Harvard), Tahir Anjraoi (Pomona College), Reema Hanna (Harvard), Michael Best (LSE), Benjamin Oken (MIT), Javed Younas (AUIS), and Atif Mian (Princeton). The event followed a Q&A format allowing the participants to interact directly with the speakers and to learn of their experience and gain advice for a career in academic and research.
Data Resource Unit

The Economics Department manages a Data Resource Unit in order to assist the faculty with applied work. The Data Unit has an international advisory committee to keep it current and has established links with the leading national providers of empirical data, that is, the State Bank of Pakistan, the Securities and Exchange Commission and the Federal Bureau of Statistics, Pakistan. The centre is also developing the capacity to undertake large-scale field research and to streamline the hiring of research fellows who can assist faculty with research.

The Data Resource Unit (DRU) of the Department of Economics has made huge strides in acquiring and preparing several new data sets in ready to use form and has been instrumental in furthering the research endeavors of faculty, graduate and undergraduate students, and alumni of LUMS.


- More than 100 students and faculty members approached DRU for technical assistance in their research related projects. This assistance was provided in the form of merging of data files, variable construction from large data sets, and other data handling issues, etc. Technical support in estimation of models in such softwares as Stata, SPSS, DEAP, Frontier was a common form of support.

- Almost all MSc Economics thesis students and students registered in ECON 414 Applied Microeconomics acknowledged support of DRU in their thesis and research reports.

- More than 15 LUMS alumni studying abroad for their PhD and Masters degrees were also provided assistance in data and data related issues.

- Occasionally, technical advice to PhD and MPhil students was also provided to students from other Pakistani universities.

- DRU also provided technical support to University Research Council towards ranking of faculty FiF proposals, submitted in fall 2013 and spring 2014 rounds.

- Capacity building of DRU also came through a 10 day training course in Islamabad on Multi-Dimensional Poverty Index, which was attended by Abubakar Memon, Research Fellow, DRU.

- Three RAs were trained in data related issues by DRU, especially in handling data in Excel and Stata.

- Value added services were created by DRU in the form of merging data of 18 Labour Force Surveys by following district coding of 1990-91.
SYED BABAR ALI
SCHOOL OF SCIENCE AND ENGINEERING (SBASSE)
SYED BABAR ALI SCHOOL OF SCIENCE AND ENGINEERING (SBASSE)

**Departments**
- Biology
- Chemistry
- Computer Science
- Electrical Engineering
- Mathematics
- Physics

**Degrees Offered**
- BS, MS & PhD
  - Biology
  - Chemistry
  - Computer Science
  - Electrical Engineering
  - Mathematics
  - Physics
Message from the Dean

Syed Babar Ali School of Science and Engineering (SBASSE) serves as a platform through which high quality education in selected areas of science and engineering is imparted to students. Our overarching goal is to produce outstanding graduates who are capable of finding innovative solutions to challenging problems. We expect our graduates to be passionate scientists and educators who are committed to enhancing knowledge as well as improving the quality of human life through technological advancements.

Currently, SBASSE offers undergraduate degrees in six majors: Biology, Chemistry, Computer Sciences, Electrical Engineering, Mathematics and Physics. The freshman curriculum is common for all students and comprises of core courses in Mathematics, Physics, Chemistry, Biology and Computer Science. The purpose of a common ‘core curriculum’ is that it strengthens fundamental concepts in natural sciences and also gives students sufficient time to declare their major. It is this interdisciplinary, "no-borders" focus which distinguishes SBASSE from other competing schools. Our multifaceted 21st century curriculum provides SBASSE undergraduates adequate breadth and depth in each of the majors, and positions them to pursue rapidly evolving areas that interface with other disciplines. Throughout the four years, student learning takes place through lectures, tutorials, problem-solving, research and frequent interactions with experienced world-class faculty members. That our graduates are much sought after by leading academic institutions and companies, serve as solid indicators of the high quality of our undergraduate programmes. This year is no different from previous ones in that a significant number of SBASSE graduates were accepted in MS and PhD programmes on full scholarships in top-tier universities, while others were recruited by well-reputed corporations in Pakistan and abroad.

SBASSE also offers MS and PhD programmes in all six disciplines. The MS and PhD programmes are of two and four year duration, respectively. Generous financial aid is provided to all PhD students as well as deserving MS students. With our resolute vision, excellent research-active faculty, outstanding students and modern infrastructure that includes state-of-the-art classrooms and laboratories, SBASSE is poised to become a globally competitive leader in science and engineering research and education.

Dr. Sohail A. Qureshi
Dean and Professor | SBASSE
Department of Biology

Students

(Fully funded MS and PhD placements)

- Yumna Zahid 2013
  Admission secured in 2014
  - Texas A&M International University
    PhD Biology

- Moneeza Akbar Agha 2012
  Admission secured in 2014
  - Drexel University
  - Brandeis University
    MS Neuroscience

- Eraj Shafiq Khokhar 2013
  Admission secured in 2014
  - University of New Hampshire, US
    PhD Biochemistry

- Usama Mukhtar 2014
  Admission secured in 2014
  - Cornell University, US
  - Dartmouth College, US
  - University of Massachusetts Amherst, US
    PhD

- Shafqat Rasool 2013
  Admission secured in 2013
  - McGill University
    MS Biochemistry

- Usman Rasheed 2014
  Admission secured in 2013
  - University of Eastern Finland
    Master's degree programme in Environmental Biology (MDP EnvBio)

- Qurat-ul-Ayn Ashraf 2013
  Admission secured in 2014
  - University of Arkansas
    Masters in Cell and Molecular Biology

- Adil Muneer 2015
  - Lausanne University, Switzerland Internship
Faculty

- LUMS Syed Babar Ali School of Science and Engineering (SBASSE) received a HEC-USAID grant to develop magnetic nanoparticles based economical test strips for bacterial detection in water samples. The project will cost over 600,000 USD which will be shared almost equally by Professor Vincent Rotello at UMass Amherst, and LUMS, for a period of 3 years. Irshad Hussain (Principal Investigator), Chair, Department of Chemistry, and Sohail A. Qureshi (Co-Principal Investigator), Professor of Biology and Dean SBASSE have worked a great deal to have it approved.

- The Epigenetics research group led by Dr. Muhammad Tariq has successfully established microinjection facility at LUMS which has generated several independent transgenic flies expressing different genes. The microinjection technique involves injecting nanolitres of DNA in fruit fly eggs within the first 30 minutes of egg development which aims at delivering DNA to specific cells.

- Dr. Zakir Ullah, Associate Professor at the Department of Biology, has been awarded a research grant of PKR 7.1 million by the Higher Education Commission (HEC) to study the regulation of specific genes that are turned off during the development of the human placenta.

- The Higher Education Commission (HEC) has awarded PKR 6.7 million to Dr. Muhammad Tariq to study Mixed Lineage Leukemia (MLL) gene in Drosophila (fruit flies). MLL is a gene which frequently becomes defective in humans suffering from leukemia and Dr. Tariq’s group aims to decode the molecular function of MLL which may contribute to diseases like cancer.

- Dr. Aziz Mithani, Assistant Professor at the LUMS Department of Biology, has published two papers in BMC Genomics, one of the leading scientific journals. The research was done in conjunction with the Department of Plant Sciences, University of Oxford.

Grants

The following faculty members received FIF grant in 2014:

- Dr. Muhammad Tariq
- Dr. Shahzau-ul-Hussain
- Dr. Zakir Ullah
- Dr. Aziz Mithani & Dr. Jawaad Afzal
Department of Chemistry

Students

- All BS graduates in Chemistry interested in higher studies (5 out of 7) received fully funded PhD scholarships from multiple universities in US, Canada, UK and Japan including Cornell, University of British Columbia, UIUC, University of Texas A & M, University of Minnesota, University of Massachusetts (Amherst), Arizona State University, University of Edinburgh, and Okinawa Institute of Science & Technology (Japan).

- 03 Chemistry students and staff members got the Fulbright scholarship i.e., Asadullah Khan (BS, Chemistry), Saba Safdar (MS student) and Aleiza Farrukh (Chemistry academic staff member). Aleiza Farrukh and Asad Qamar Zaman, also got fully funded PhD scholarships in Germany (MPI for Polymer Research, Mainz) and USA (University of Southern Illinois) respectively.

- Shazia Mumtaz, a PhD student of Dr. Irshad Hussain, is visiting Prof. Rotello’s lab at the University of Massachusetts, Amherst, USA, from May 18, 2014, for at least 03 months through collaborative Pak-US grant to work on the development of nanoparticles based test strips for bacterial detection.

Faculty

- Chemistry faculty published over 20 research articles, mostly in A+/A category prestigious international journals during the year 2013-2014. Chemistry faculty also submitted 10 research proposals to various funding agencies including HEC, PSF, COMSTECH-TWAS, ISESCO-COMSTECH, & MNV. Dr. Ghayoor Abbas and Dr. Habib-ur-Rahman were also awarded FIF research grants.

- Dr. Irshad Hussain and Dr. Falak Sher were awarded the Research Productivity Award in 2014 by PCST for their research accomplishments in 2012-2013.

- Dr. Ghayoor Abbas delivered invited lectures at a symposium on “Drug Development: Natural & Synthetic” in CIIT Abbottabad, Pakistan, on August 25-27, 2013 and at a one day symposium on “Green Chemistry: An Innovative Route to Sustainable Scientific Development” at University of Sargodha, on April 30, 2014. He also served as a panel speaker at the “Technologies for Active Pharmaceutical Intermediates section of the 3rd invention to Innovation Summit 2014” held at PU, Lahore, Pakistan, on March 19-20, 2014. Dr. Ghayoor Abbas participated in the seminar on “Exploring Technology Potentials for Import Substitutions of Chemical Intermediates” at the Lahore Chamber of Commerce & Industry on May 20, 2014.

- Dr. Rahman Shah Zaib Saleem delivered invited lectures at FC College University, Lahore, and was invited to judge the science projects in Punjab Provincial Science Fair 2013 organised by School Education Department, Government of Punjab and Intel Education Initiative (November 26-28, 2013).

- Dr. Irshad Hussain delivered several keynote and invited lectures at national and international forums notably at Nano-Bio-Med Conference (Oct 14-18, ICTP, Italy); at Chinese universities including Huazhong University of Science and Technology (HUST), Wuhan National Labs for Optoelectronics (NLO) and Hubei University of Technology, Wuhan, China during April 18-30, 2014, at National Science Conference (May 01-02, 2014; ICCBS, University of Karachi) and at Saudi ARAMCO R & D Center at KAUST, Saudi Arabia, on May 29, 2014.

- Dr. Basit Yameen got a research fellowship at MIT-Harvard Center for Cancer Nanotechnology Excellence to develop novel polymer-based nanomaterials for drug delivery applications. Dr. Basit Yameen delivered invited lectures at several international forums including a symposium on “Control Switching Surface Properties with Responsive Polymers at Interfaces” held at TU Darmstadt, Germany (September 22-24, 2013) Centre for NanoScale Science and Technology (CNST), Flinders University, Adelaide, Australia (May 22, 2014), and Max Planck Institute for Polymer Research, Mainz, Germany (June 24, 2014).

- Dr. Rahman Shah Zaib Saleem got a fellowship from the Cambridge University, UK, to develop novel synthetic routes for drug discovery during the Summer, 2013 and 2014.

- Dr. Irshad Hussain got a research fellowship from KAUST to synthesise and explore catalytic/solar cell applications of metal and alloy nanoparticles at KAUST during the summer 2013 and 2014.

- Dr. Irshad Hussain was named as the Chair of Nanotech Experts Panel by Pakistan Council for Science & Technology (PCST), Ministry of Science
and Technology (MoST), to lead the experts committee and draft a short-term and a long-term policy to promote NanoScience & Nanotechnology in Pakistan under the Technology Foresight initiative of PCST (MoST). The technology foresight report on nanotechnology has already been launched and is available on PCST website.

- Syed Zaif Hussain, senior lab instructor, visited Phillips University, Marburg, Germany, from September 2013 to January 2014, through a Pak-German collaborative project of Dr. Irshad Hussain to explore the catalytic applications of metal nanoparticles.

New Hires

- Dr. Muhammad Zaheer - graduated from the University of Bayreuth, Germany
- Dr. Salman Nosheer Arshad - graduated from UIUC, USA

Grants

Dr. Irshad Hussain and Dr. Sohail A. Qureshi were awarded a research grant worth ~600,000 USD (LUMS share over 330,000 USD) by HEC and US National Academy of Sciences to develop nanoparticles based test strips for bacterial detection in drinking water in collaboration with Prof. Vincent Rotello at the University of Massachusetts, USA.

Dr. Falak Sher got a research fellowship from the British Council (Rs. 1.346 million) to work on the synthesis and applications of transition metal oxides at the University of Edinburgh, UK, during the Summer 2014. He also got a research fellowship during Summer 2013, from the Aberdeen University to work on a similar research project.

Selected Events

The Chemistry department organised 2 National/International Conferences/Symposium during the year 2013-2014. These are a National Conference on Chemical Trends – 2013 (funded by Fulbright) on September 27, 2013, and an International Symposium on Nanomaterials – Potential applications and challenges on October 31, 2013, attended by renowned Professors from US, UK and China in addition to national speakers.
Department of Computer Science

Research Highlights

- Over twenty-five research publications in 2013-14
- Conference venues include prestigious conferences including SIGCOMM, INFOCOM, ASE, ICONIP, SEB, ICAE, ICIP, etc
- Journal publications in IEEE Transactions on Dependable and Secure Computing, IEEE Transaction on Smart Grids and other top journals

Students

PhD Defense


Placement Highlights

- 100% success for placement of students at places such as Microsoft, Habib Bank, LUMS.
- 100% success in admissions of students intending to pursue graduate studies. 90% admissions with full funding at places such as MIT, Stanford, Harvard, UIUC, CMU and many others.
Accomplishments

- Aisha Mushtaq (BS 2014, Computer Science) won the highly prestigious Facebook’s 2014 Grace Hopper Scholarship. She was one of the 25 students who were selected from a pool of several hundred applicants.

- Qurat-ul- Ain Bajwa (BS 2015, Computer Science) and Raema Bajwa (BS 2015, Computer Science) won the highly prestigious Google Anita Borg Memorial Scholarship in 2014.

Admission from CS in ’14

- No. of Applicants: 20
- No. of Offers: 52
- 90% Funded Offers
- 100% Acceptance Rate

Offers received from

- Harvard
- MIT
- Stanford
- CMU
- UIUC
- UT Austin
- Georgia Tech
- Cornell
- UCLA
- USC
- Duke
- SUNY I Stony Brook

Also:

- Dartmouth
- UC Davis
- UCSD
- Rice U
- UNC Chapel Hill
- Boston U
- U Pittsburgh
- CUNY
- Colorado State
- EPFL
- UIC
- UMass Amherst
- Ohio State
- SUNY Buffalo
- UBC
- U of Utah
- Rutgers
- U Waterloo
- Northeastern U
- NC State
- U Colorado
- U Nebraska

Applicants

- Abdul Wasay
- Ahsan Abdullah
- Ali Raza
- Arim Rahman
- Ayan Aymat
- Hassan Nawaz
- Furqan ul Haq
- M Ali Gulzar
- M. Wajihat
- Mohsin Ali
- Mutahir Kazmi
- Roshul Ahmad Tarar
- Ruwafa Anwar
- Salman Asif Wall Usmani

CD RA 2013-2014

- Bilal Mahmood
- Ghunfar Baig
- Hashim Sharif
- Taha Khan
Faculty

- Dr. Murtaza Taj joined CS department as Assistant Professor on tenure track. Dr. Taj completed his PhD from Queen Mary University of London. His research interests are in computer vision with a particular focus on object detection and tracking using multimodal sensors.

Selected Events

- Computer Science Annual Research Competition
- GDG Dev. Fest at LUMS. Google Pakistan Event
- PAKATHON - Solving Pakistan’s Problems through Technology
- Startup Weekend 2014
- Google Student Programs & WordPress Event @ LUMS

Students

- One EE Senior Project got selected for incubation at LUMS Center for Entrepreneurship (LCF).
- Three EE Sprojs won the ICT R&D National Grassroot ICT Research Initiative Awards.
- Five EE Sprojs got shortlisted for the final round of the annual IEEE Lahore Section PYP Competition.
- Mr. Muhammad Licaama has been awarded with Syed Zahoor Hassan Gold medal for the best NOP graduate class of 2014.
- PhD students Talha Manzoor, Syed Muhammad Abbas, Tasweer Ahmed and Tariq Shamim Khawaja cleared their qualifiers.

- A team of Electrical Engineering students secured two runners-up positions at NEO 2014, the all-Pakistan science competition and project exhibition organised by IEEE GIKI from January 31 to February 2, 2014. Approximately 500 engineering students from notable institutions such as FAST, NUST, SSUET, NED, UET, HITEC and PIEAS took part in the science competitions.

- A team from the Electrical Engineering Department won second place at the Annual IEEE Lahore Final Year Project Competition for their project “Pursuit and Detection through Autonomous Distributed Robotics.” The student team included Ahmed Saraiullah, Esan Mahmood, Suneza Hamid and Qurat ul Ain Nadeem and the project was supervised by Dr. Momin Uppal, Assistant Professor at the EE department. A total of 78 projects were competing in the competition from top engineering universities from Lahore and Faisalabad.

Faculty

- Eight research papers were published in high quality international journals by EE faculty.
- Over twenty research papers were published in internationally recognised conferences by EE faculty.
- Dr. Jahangir Ikram mentored a team of Electrical Engineering students who won Best Engineering Design Award in National Engineering and Robotics Competition 2014.
Research Presentations

- Dr. Hassan Abbas Khan, Assistant Professor, Department of Electrical Engineering, was invited to speak at "National Workshop on Advanced Electronics: Device Design & Process Characterisation" (link) organised by Islamic International University, Islamabad. The workshop was aimed to train students, early career faculty members and researchers from national scientific organisations.

- Dr. Abubakr Muhammad presented a research paper with students in CVT symposium at University of Kaiserslautern, Germany in March, 2014.

- Dr. Hassan Abbas Khan presented the paper “A Practical Perspective on Grid-tied PV Systems in Low Reliability Grids” at 40th IEEE Photovoltaic Specialists Conference.

- Dr. Momin Uppal presented his research on "Efficient Relaying Strategy Selection and Signal Combining using Error Estimation Codes" and "Energy-Efficient Cooperative Spectrum Sensing using Rateless Coded Relaying" at “IEEE Wireless Communications and Networking Conference”, held at Istanbul, Turkey from April 6-9, 2014.

- Dr. Waqas Majeed’s abstract "Automatic Detection of Spatiotemporal Propagating Patterns in BOLD fMRI of the Rats using an ICA Based Approach" has been invited for presentation at the scientific sessions of the Joint Annual Meeting ISMRM-ESMRMB at Milan, Italy in May, 2014.

- Dr. Neuman Zaffar presented his paper in 40th IEEE Photovoltaic Specialist conference being held June 8 -13, 2014.

- Dr. Shahid Masud visited University of Offenburg, Germany in August, 2013 in connection with DAAD sponsored collaborative research project.

The Advanced Communications (AdCom) Lab at the Department of Electrical Engineering, marked the end of yet another productive year.

- The lab’s research work during the past year, directed by three faculty members, Dr. Ijaz Haider Naqvi, Dr. Momin Uppal and Dr. Naveed-ur-Hassan, has been accorded international recognition through the acceptance of 15 publications at prestigious peer-reviewed journals and conferences.

- In addition, during the year 2013, the lab has been able to secure new research grants worth more than PKR 12 million, with several other proposals in the pipeline.

- The lab has continuing collaborations with prestigious international universities such as Singapore University of Technology and Design (SUTD), Zhejiang University, China, Supelec, France, Texas A & M University and INSA Rennes, France.

Selected Events

- 5th workshop on Field and Assistive Robotics was organised by Electrical Engineering Department on November 1, 2014. Dr. Abubakr Muhammad was the focal person. The technical organisers and sponsors of the workshop included CYPHYNETS lab, RRLAB (University of Kaiserslautern, Germany), IEEE Control Systems Society (Pakistan Joint Chapter) and DAAD (German Academic Exchange Service). In addition to four German researchers, the event was attended by close to 200 participants from all around Pakistan, including students, faculty members, researchers, entrepreneurs and hobbyists from renowned universities and industries of Pakistan.

- 4th workshop “Teaching the Teachers (a concepts workshop): Fundamentals of Power Electronic Converters” was led by Professor Asad A. Abidi, Distinguished Chancellor’s Professor at the Electrical Engineering Department, University of California, Los Angeles, USA. The workshop was conducted at LUMS Syed Babar Ali School of Science and Engineering (SBASSE) from December 16 to 20, 2013. Dr. Hassan Abbas Khan and Professor Nauman Ahmed Zaffar led the organisation effort.

- An Open House/Career Fair on April 25, 2014 in collaboration with the Career Services Office (CSO) in which the graduating students of EE department demonstrated their Senior Year Design Projects (Spres).

- An Introduction to Software Defined Radio: Seminar was organised by Electrical Engineering Department with the help of National Instruments Arabia, on June 18, 2014. It was about how to learn to prototype a wireless communication receiving algorithm using Software Defined Radio. Discover how to acquire, analyse, and record wireless signals from the NI Universal Software Radio Peripheral (USRP) software defined radio using LabVIEW.
Future Plans and Challenges

- Set up Power Electronics Lab
- Set up Microwaves and RF Lab
- More collaboration with industry and foreign research institutions for research and to acquire funding, student job placements and internships in industry
- Increase outreach activities and overall marketing efforts for all programmes
- Attract and admit quality students
- Faculty hiring in key areas
Department of Mathematics

New graduate degrees were introduced in Fall 2012. These included MS Mathematics.

Research Highlights

- Faculty produced over twenty-three research publications in 2013-14.

Students

- Asma Khalid was awarded a PhD Mathematics degree under the supervision of Dr. Mian Muhammad Awais and co-supervisor Dr. Mujahid Abbas. The title of her thesis was “Opinion Aggregation in Fuzzy Framework and Incomplete Fuzzy Preference Relations.”

- Muhammad Waleed was awarded a fully funded graduate assistantship in University of Maine, USA completing BS Class of 2013.

- Rameez Raghib received a scholarship in KIT (Karlsruhe Institute of Technology) Germany for a Masters in Algebra and Geometry.

Faculty

- Dr. Imran Naem participated in Hands-On Research in Complex Systems School, Trieste, Italy from June 30 to July 11, 2014.

- Dr. Imran Naem had a research visit to the International Center for Theoretical Physics (ICTP) from June 29 to July 20, 2013.

- Dr. Imran Naem has been awarded a Research Productivity award 2013.

- Dr. Mujahid Abbas has been awarded a Research Productivity award 2013.


- Dr. Faqir M. Bhatti served in the organizing committee of International Workshop on Discrete Structures, March 2014 (NUST, Islamabad).

Grants

- Dr. Sultan Sial, Dr. Adnan Khan and Dr. Mudassar Imran has been awarded a research grant through Faculty Initiative Fund (FIF) LUMS.

- Dr. Sultan Sial, Dr. Imran Naem and Dr. Mudassar Imran has been awarded a research grant through Faculty Initiative Fund (FIF) LUMS.

- Dr. Faqir M. Bhatti has achieved a project for two years (2013-2015) through Higher Education Commission (HEC) on “Spectral Graph Theory Methods for Self Assembly of Hexagonal Systems” PKR 1.46 Million.

- Dr. Faqir M. Bhatti received the approval of PKR 423,300 from HEC to organize a workshop on ‘Recent Advances in Commutative Algebra and Algebraic Geometry (March 2014).

Future Plans and Challenges

- Job placement for BS, MS and PhD students.

- Restart of BS Econ/Math Programme.

- New programmes (Financial Mathematics, Bio Informatics, Actuarial Mathematics etc.) will be introduced.

- The International Conference on Discrete Mathematics in March 2015 will be organised.

- The Department will invite overseas Pakistani Mathematicians under Ministry of Education (PPQP) to visit Math Department and its research centre, CASM.

Selected Events

The following workshops and conferences were organised through CASM and the Mathematics Department:

- Workshop on Recent Advances in Commutative Algebra with Algebraic Geometry (March 28-29, 2014)

- National Workshop on Recent Advances in Graph Theory and Combinatorics (November 22-24, 2013)

- CASM – PIEAS Workshop on Computational Fluid Dynamics and Scientific Computing (November 8-9, 2013)
Centre for Advanced Studies in Mathematics (CASM)

Events

- **Lecture on Computational Mathematics at LCWU, Lahore, June 4, 2014**
  
  CASM in collaboration with the Faculty Development Centre of Lahore College of Women University (LCWU) arranged a public lecture by Dr. M. Usman at LCWU, Lahore on June 4, 2014. Dr. Usman visited CASM under President of Pakistan’s Programme for Care of Highly Qualified Overseas Pakistanis (PPQO), Ministry of Education. Dr. Usman delivered a talk on “Applications of Computational Mathematics in STEM (Science, Technology, Engineering and Mathematics) Disciplines”, which was attended by faculty from LUMS, graduate students and faculty from LCWU.

- **Public Lecture on Financial Mathematics at UET, May 31, 2014**
  
  In collaboration with Punjab Mathematical Society (PMS) a public lecture by Prof. Kazim Khan on Financial Mathematics: Coherent Risk Measures at UET. Professor Kazim visited CASM under Ministry of Education, Pakistan (PPQP Scheme). The talk covered the basics of financial mathematics and discussed the classical value at risk (VaR) concept along with its shortcomings, relative to the more robust concept of coherent risk measures.

- **Professional Performance Award for Dr. Shaheen Nazir by Abdus Salam School of Mathematical Sciences, Lahore**
  
  During the workshop on Recent Advances in Commutative Algebra and Algebraic Geometry organised by CASM, Dr. Shaheen Nazir of Mathematics Department, Syed Babar Ali School of Science and Engineering, has received the ‘Professional Performance Award’, from the Abdus Salam School of Mathematical Sciences (ASSMS), Lahore. The ceremony was held on March 29 and it was presented by Prof. Barbu Beatriceanu of Institute of Mathematics of the Romanian Academy on behalf of the ASSMS.

  The citation for the award is “The Award is presented to Dr. Shaheen Nazir in reorganization of her very serious work and successful efforts in serving the interest of Pakistani Mathematics Community.”

- **CASM Arranged a Public Lecture in Collaboration with Punjab Mathematical Society at UET, Lahore, February 22, 2014**
  
  The Center for Advanced Studies in Mathematics (CASM) LUMS and the Punjab Mathematical Society (PMS) arranged a Public Lecture at UET Lahore on Saturday the 22nd February. This was the first of a series of Lectures planned as a joint effort by CASM and PMS for highlighting exciting areas of Mathematical Research at LUMS and awareness for researchers and graduate students about the importance of the subject.

  The speaker was Dr. Adnan Khan from the Mathematics
department at LUMS. His talk focused on Modeling of Epidemics and how such models can help inform public health authorities. To illustrate the ideas, he talked about a model for the outbreak of a zombie epidemic and how various control strategies ranging from a quarantine of the zombie population to finding a cure for ‘zombie-ism’ to efficient elimination of zombies, would fare in combating the outbreak. The 2011 dengue outbreak in Lahore was also discussed. Details of the talk can be found at http://suraj.lums.edu.pk/~adnan/khan/PMS2014

- Renowned Overseas Mathematicians Visited CASM

Two overseas Pakistani Mathematicians, Dr. Kazim Khan from Kent State University (USA) and Dr. Muhammad Usman from Univ. of Dayton (USA), will be visiting Centre of Advanced Studies in Mathematics (CASM), Syed Babar Ali School of Science and Engineering, LUMS under the platform of "President’s Program for Care of Highly Qualified Overseas Pakistanis" (PPQO) for four weeks starting from second week of May, 2014. Both were sponsored under PPQO Scheme.

1. Prof. Kazim Khan received an MS in Applied Statistics in 1977, and a PhD in Mathematical Statistics in 1980, both from Case Western Reserve University. Professor Khan joined the faculty of Kent State University in 1981. His research interests include applied statistics, communication and networking, mathematical finance, optimal designs of experiments, stochastic methods in approximation theory, analysis and summability theory.

2. Dr. Muhammad Usman is an Associate Professor in University of Dayton, USA. He received his MA in Biophysics from Ohio University, MS in Mathematics from Ohio University and PhD in Mathematics from University of Cincinnati in 2007. His research interests include Numerical Analysis, Mathematical Biology, Nonlinear PDEs and Applications, Scientific Computing and Analytical Mechanics.

3. Dr. Seema Nanda from Centre of Applicable Mathematics (CAM) based in Tata Institute of Fundamental Research, India will be visiting CASM as well in May 2014. She is currently working at Centre for Applicable Mathematics (CAM), Tata Institute of Fundamental Research (TIFR), Bangalore and an Adjunct, at International Centre for Theoretical Sciences, TIFR. Dr. Seema Nanda had also been a Visiting Faculty at Harvey Mudd College, USA before completing her education at New York University and Baylor University - Hankamer School of Business, New York, USA. Her research interests lie in Disease and Immune System Modeling, Optimal Control as Related to Treatment Modeling, Dynamical Systems, Random Graphs and Mathematical Finance. All three conducted a workshop on Black-Scholes and Beyond: Pricing Equity Derivatives 2014 (May 16-18).

Seminars/Talks

- Seminar on Executable Modelling: A Model Driven Approach of Programming and Analyzing Complex Systems by Imran Mahmood (September 27, 2013)

- SEE Seminar on Applied Cryptography: Privacy-Aware Secure Mobile Health Sensing by M. Saqib Khan (July 5, 2013)

- Seminar on Cycle Through Specific Vertices in 2-connected Graphs by Hiba Nadeem (July 1, 2013)

- The Centre for Advanced Studies in Mathematics (CASM) conducted a talk on Application of Shape Derivatives and Topology Optimization to Vortices by Nauman Raza (June 27, 2014).

- Seminar on Calcium Dynamics in Dendritic Spines by Muhammad Dur-e-Ahmad (March 21, 2014)

- Seminar on Topological Derivative Based Techniques in Imaging by Dr. Abdul Wahab (February 17, 2014)

- Seminar on How Mathematical Models can Help Control Epidemics by Adnan A Khan (February 22, 2014) at UET

Workshops

- CASM-PIEAS Workshop was held on Computational Fluid Dynamics and Scientific Computing (November 8-9, 2013)

The objective of the two-day training workshop was to initiate engagement in basic and applied research in CFD. The hope is to motivate students and faculty to enter the field actively.

The workshop covered the following:
- Modelling
- Grid Generation Techniques
- High Performance Computing
- Numerical Methods in CFD
- Applications of CFD
- Multiphase Flow Modelling
- Microfluidics Modelling
- Turbulence Modelling
ANNUAL REPORT 2014

SYED BABAR ALI SCHOOL OF SCIENCE AND ENGINEERING (SBASSE)

Organising Committee:
- Mian Muhammad Awais (CS, LUMS)
- Muhammad Tayyeb Javed (PIEAS, Islamabad)
- Sultan Sial (Math LUMS)
- Adnan Khan (Math, LUMS)

The Centre for Advanced Studies in Mathematics (CASM) held a National Workshop on Recent Advances in Graph Theory and Combinatorics (November 22-24, 2013)

The applications of Graph Theory continue to increase due to its wide scope in mathematics, computer science and technology.

The main objective of this workshop was to highlight the major theoretical advances as well as applications of graph theory and combinatorics.

The Centre for Advanced Studies in Mathematics (CASM) held a Workshop on Black-Scholes and Beyond: Pricing Equity Derivatives (May 16-18, 2014)

The chief aim of this two day workshop was to cover the theory and computational techniques required for the pricing of equity derivatives within the Black-Scholes framework and its extensions. Participants were introduced to pricing American and European options, Monte Carlo methods, stochastic calculus, Finite difference methods and pricing of exotic options.

Organisers for the workshop
- Adnan Khan (Math, LUMS)
- F. M. Bhatti (Math, LUMS)
- Sultan Sial (Math, LUMS)

Foreign Speakers
- Kazim Khan (Kent State Univ., USA)
- Muhammad Usman (Univ. of Dayton, USA)
- Seema Nanda (TIFR, India)

National Speakers
- Adnan Khan (Math, LUMS)
- Ferhana Ahmad (SDSB, LUMS)
- Sultan Sial (Math, LUMS)
Department of Physics

The Department of Physics witnessed another exciting year. The main highlight was the initiation of the graduate programmes: two year MS and fully funded PhD programmes were launched. Both of these programmes promise to extend the rich academic culture cultivated around the world-class undergraduate degree the department has already been offering, and that has placed our students in the world’s leading institutes such as MIT and University of California Berkeley.

This year the Department offered a wider tapestry of elective courses in physics including quantum information, quantum optics, advanced quantum mechanics, nanoscience, optics and electronic structure calculations. For the wider benefit, the department has now placed all the courseware including video recordings on its website. Faculty was actively involved in revamping the national physics curriculum for BS and MS degrees; Dr. Sabieh Anwar being the Secretary of the national HEC commissioned task force.

Students

- The advanced undergraduate students, this year too, demonstrated several exciting pieces of work as part of their final year projects; for example on
  - AdS-CFT correspondence
  - Supersymmetric gauge theories
  - Detection of muons
  - The analysis and construction of a vibrating sample magnetometer

- The Department’s Federation Agreement with the Abdus Salam ICTP in Italy was successfully extended for another six years. A senior student, Asad Azam was selected this year for the summer research programme at CERN, the third student from the Department picked up for this prestigious scheme.
Faculty

The Faculty continued their respective research programmes which resulted in significant published work.

- Dr. Amer Iqbal studied mass-deformed $N=2$ gauge theories from various perspectives and computed relevant partition functions. He also investigated M-branes producing a thorough study of these light strings suspended between parallel M5 branes, from first-principles calculations and density functional analyses.

- Dr. Fakhr-ul-Inam produced an interesting series of studies on dangling bonds in Si-H thiospinels subject to pressure and the confounding problem of understanding excess electrons in ice.

- Dr. Imran Younus's contributions to the PHENIX collaboration were aimed at studying double-helicity symmetries in proton-proton collisions as well as transverse-single-spin asymmetries.

- Dr. Imran Younus's work on the PHENIX forward Si vertex detector was also published recently.

- Dr. Sabieh Anwar's group demonstrated giant magneto-optical rotations in a garnet crystal at low temperatures that were measured through Stokes polarimetry.

- Several interesting instructional experiments, for example on frustrated total internal reflection and the use of modern image processing tools for observing the behaviour of electron beams were also described.
Research and Research Collaborations

The Department enjoys considerable institutional-scale collaborations.

- Dr. Yoko Miyamoto from Tokyo's University of Electro-communication visited in the fall of 2013 and discussed ways of enabling a mechanism of exchange visits between the two institutes—an agreement entered into recently.

- A delegation from the Compact Muon Solenoid (CMS) experiment at CERN, led by Dr. Tiziano Camporesi, was invited to visit the Department with the purpose of exploring prospects of putting LUMS on board the CMS-Pakistan Association. Delightfully, CMS has now given Pakistan an initial go ahead for an Associate Member status and this promises to open up several opportunities for our research.

- LUMS was formally inducted into the PHENIX collaboration, a consortium of particle physicists aimed at studying the structure of the proton. Dr. Imran Younus spearheaded this collaboration.

Selected Events

Outside the formal classroom environment, there were ample opportunities for scientific interactions, available to faculty, researchers and students, as well as the wider academic communities in Lahore, in the form of an exciting series of physics seminars.

- The series, coordinated by Dr. Imran Younus, covered a wide range of topics including spintronics, 'the charm of ALICE', gamma ray bursts, graphene, surface waves, climatic circulations, density functional theory and quark flavours. Dr. Vique Hussain, Professor of Physics at the University of New Brunswick who was invited to

LUMS as distinguished Professor for the Spring of 2014, delivered a series of cutting-edge talks on "time, vacuum energy and the cosmological constant", "gravitational waves as sunglasses", and "bosonic string theory with dust".

- All of these departmental seminars were supplemented by smaller informal group meetings and specialised lecture series led by individual faculty and research students.

- National Workshop on Quantum information Science was held in the summer of 2013 that attracted experts and students from around the country.

The Physics Labs

The Physics laboratories remained busy throughout the year. Several experiments in the undergraduate laboratories were updated and modernised, primarily through automation and computer control. Laboratory Instructor Armoza Shaheen playing a key role.

- Dr. Imran Younus launched the nuclear physics laboratory with experiments on cosmic ray muons and gamma ray spectroscopy.

- Dr. Sabieh Anwar initiated optics teaching and smart physics laboratories. The latter uses mobile devices, smart cameras and techniques in modern computer vision for observing, tracking and analysing kinematic processes.

- New sophisticated tools for scientific discovery were also built including variable temperature resistivity stations, atomic force and Kerr microscopes, and surface plasmonic sensors.

- Dr. Murtnaz Sheikh successfully demonstrated a homegrown system for confocal microscopy.

- The research laboratories and the mechanical workshop conducted by Hafiz Rehwan, continued providing measurement and precision manufacturing services to the SBASSE and other national institutes and research groups. Luckily, the laboratory facilities are now poised to physically expand into the newly created space and infrastructure that has now become available and will be shared with other SBASSE entities.

- The Physics lab has taken huge strides in expanding the frontiers of quality physics education through the sharing of cutting-edge tools and techniques in modern, research-inspired science education and the development and transfer of indigenous instructional systems. Instructional experiments developed in house were transferred this year to Preston University, the Habib University and Nusrat Jahan College. This transfer of physics was coupled with intensive teacher training programmes.
SHAIKH AHMAD HASSAN SCHOOL OF LAW (SAHSOL)
SHAIKH AHMAD HASSAN SCHOOL OF LAW (SAHSOL)

The Shaikh Ahmad Hassan School of Law (SAHSOL) offers to students who hold at least an FA/A-Level degree, a five-year joint degree programme (BA-LLB). The idea is to familiarise students during their first two years of the BA-LLB with a variety of vital background subjects such as economics, political science, sociology, philosophy etc., already being offered at LUMS, which also form an essential foundation for the study of law. At the same time, the language and computer courses, which LLMS is offering at the undergraduate level, helps these students develop vital language and computer skills. A student who has taken basic courses in political theory and the economic and political history of Pakistan will obviously be able to gain a lot more from the more advanced courses in constitutional law being offered at a later stage. After completion of two years of the above-described liberal arts education and skills development during which a student takes some introductory courses to law, he/she then embarks on three years of sustained legal education while eventually having the option of choosing a specialised career stream, described below. LUMS is currently the only university in Pakistan which is offering such a unique five year degree, as it has a thriving undergraduate programme with highly qualified social sciences, computer studies, mathematics, finance and accounting and economics faculty as well as a highly successful business school and fast growing graduate level economics and computer studies programmes.

Provision of Specialised Streams in areas such as: Law, Policy and Development; Law, Business and Economics, Law and Society; and Law and Technology.

The specialised streams of learning at the advanced stages of the degree ensures that apart from a solid all round academic training at the BA component level and a rigorous training in multidisciplinary subjects at the LLB level, students will also be able to choose a specialised stream which shall equip them even better for a career in that area. Such specialisation does not currently exist under the prevalent legal education system in Pakistan.
Office of Admissions

The admission process has all been converted to an online system which is user friendly and has been made easier for the applicants. As the volume of applications increases, so does the volume of queries and the Office of Admissions has a policy to respond within 48 hours of each concern received.

After the initial work of receiving applications, the Admissions Team hosted the test in six main cities (Quetta, Peshawar, Islamabad, Lahore, Multan and Karachi).

This year, freshman applications increased by 25 percent and had an acceptance rate of 72 percent.

Office of Admissions is also improving its recruitment and enrollment of underrepresented students.

Most noteworthy, more than one-third of the incoming students are women (41 percent). This represents a jump of nearly 2 percentage points over last year’s enrollment.

With a growing number of applications each year, the team plans to work more diligently in order to facilitate applicants. All applicants were notified of their admission status in a timely manner.
Office of Financial Aid

The Office of Admissions jointly works with the Office of Financial Aid resulting in a transparent and effective process. The Office of Financial Aid has further streamlined processes, including those of loan recovery.

## Financial Aid

<table>
<thead>
<tr>
<th>Status</th>
<th>Initiatives</th>
<th>Accomplishments</th>
<th>Plans</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Preparation of Financial Aid Data for SAP</td>
<td>Addition of percentage awards against each student in order to recognise revenue</td>
<td>Undertook an extensive activity of entering financial aid data manually as per requirements of SAP to aid in revenue recognition</td>
</tr>
<tr>
<td>02</td>
<td>Installment/Extension &amp; Fine Waiver Requests</td>
<td>Laid down a policy for processing such applications</td>
<td>Developed a process flow of routing the decision of such requests to the relevant departments &amp; students</td>
</tr>
<tr>
<td>03</td>
<td>Processing Aid Applications (for returning batches)</td>
<td>Laying down policies and evaluation criteria for the financial aid assessment</td>
<td>1. Recommendations through a formal forum (Admission &amp; Financial Aid Committee) obtained 2. Uploaded all financial aid decisions in Zambieel before voucher generation</td>
</tr>
<tr>
<td>04</td>
<td>Conducted a Kick Off Session with all Financial Aid Committee Members</td>
<td>Discussion on various aspects involved in gauging the paying capacity</td>
<td>Brought all members at par with the financial aid parameters &amp; processes</td>
</tr>
</tbody>
</table>
## Financial Aid

<table>
<thead>
<tr>
<th>Status</th>
<th>Initiatives</th>
<th>Accomplishments</th>
<th>Plans</th>
</tr>
</thead>
<tbody>
<tr>
<td>05 Organised a Meeting Session with Packages &amp; Services Sales Corp Reps</td>
<td>To ensure that all home &amp; business premises of all returning students are physically verified</td>
<td>1. Redesigned two individual forms of physical verification for house and businesses 2. Physical verifications of almost 90% of financial aid applicants completed</td>
<td></td>
</tr>
<tr>
<td>06 Financial Aid Helpdesk</td>
<td>Financial Aid Helpdesk Development of an OFA Helpdesk</td>
<td>All external queries are now routed through one medium</td>
<td></td>
</tr>
<tr>
<td>07 Development of a Financial Aid Module in Zambeel</td>
<td>Preliminary work on the said task is in process</td>
<td></td>
<td>Ensuring that all decisions and data bases are maintained online</td>
</tr>
<tr>
<td>08 Aid Disbursement</td>
<td></td>
<td>1. Bursary Assistance of almost PKR 353 M disbursed in the FY 2013-2014 to over 960 students 2. Out of the above figure almost PKR 142 M disbursed to 250 NOP students</td>
<td></td>
</tr>
</tbody>
</table>
## Loan Recovery

<table>
<thead>
<tr>
<th>Current Status</th>
<th>Initiatives</th>
<th>Accomplishments</th>
<th>Plans</th>
</tr>
</thead>
</table>
| 01 Due Loan & Overdue Loan (Old alumni as well as Class of 2013) | 1. Placed reminder calls to alumni for due payments also for payments that they have missed.  
2. Postdated cheques received from those who committed to pay in installments. | Tentative amount of PKR 4,700,000 has been recovered till June 2014 | 1. Reminder e-mail and telephonic to alumni graduated in June 2013 in case they do not pay their loan installment.  
2. Legal reminders will be given to alumni after soft reminders to ensure maximum loan recovery. |
| 02 Loan Repayment Schedules issued to Class of 2013 | 1. Loan Repayment Undertaking has been added as an additional document.  
2. 10% penalty on late payment has been added in Letter for Loan Repayment after approval | 1. Signed copy of Schedule for Loan Repayment /Loan Repayment Letter and Loan Repayment Undertaking has been received from maximum number of alumni  
2. Cheques of 18 alumni have been received to date out of the probable 48 (amount will be updated in report for the month of March)  
3. In addition to the LUMS Student Loan Agreement, Student Loan Guarantee, LUMS student Loan Promissory note have been received from the graduating class of 2014.  
4. Received postdated cheques along with the aforementioned documents | |
| 03 Data Streamlining of below mentioned files; Loan Repayment Schedules Loan Agreement Loan Clearance Certificate | 1. Compilation of hard copy schedules in files as per graduating class, programme and roll numbers.  
2. Data entry of contact details from legal agreement of alumni with overdue loan. | | |
Facilities and Engineering

Following are some of the major jobs which were carried out during the year 2013-14.

- 132KV transmission line passing over the upcoming Law School Building was shifted to the new pylons to have clear distance between the high tension lines & the building.
- All diesel generators were overhauled to keep them in perfect condition for meeting load shedding schedules applied by WAPDA authorities.
- All six chillers operated throughout the year thus providing best ambient conditions in all the buildings of LUMS.
- All the male and female hostels have been provided with evaporating cooling system. This project provides all hostels with a cooling arrangement on all floors.
- To accommodate 340 more students in the present hostels, triple occupancy has been arranged in present rooms of hostels M1, M2, M3, M4, F1 & F2.
- Incubation Centre & Trade Centre were commissioned in SDSB building.
- Both squash courts in the Sports Complex were air-conditioned through present chiller system.
- Glass partitioning has been provided in all squash courts to have better ambient conditions in the playing and sitting area.
- Male & female gyms in sports complex were air-conditioned with new setup.
- Old garbage house was shifted to a new location.
- Under the energy conservation plan, an amount of PKR 27 Million was sanctioned. The Building Management System control for the Academic Block is being revived and the conventional tube lights are being replaced by LED lights.
- A contract has been signed with M/s OURSUN who shall be installing 300KW Solar system on different roofs of LUMS. The power generated through the system shall be purchased thus reducing demand on costly power from WAPDA.
- Monthly savings through ongoing projects on energy conservation is PKR 1.3 Million
- 40 classrooms and 52 discussion rooms in all school buildings were renovated under the annual maintenance programme.
The Gad & Birgit Rausing Library

The Gad & Birgit Rausing Library at LUMS is equipped with state-of-the-art systems and technologies. In line with the library’s mission to excel in supporting the academic and scholarly endeavours of its users in their core instructional and research requirements, the library continuously strives to introduce user-focused innovative systems, services and resources. These include:

- Web Discovery Service helps the LUMS community to search all subscribed content (e-journals, books, library catalogue) through a single Google like interface.
- Library’s virtual private network (VPN) enables faculty, students and researchers to access complete text electronic resources, when they are away from the campus.
- “Ask a Librarian” virtual reference service facilitates the LUMS community to interact with the library professionals through one single chat interface.
- Kindles have been made available in the learning commons section of the library to facilitate convenient reading of electronic books, and journal articles.
- Wireless LAN facilities available in the library building to access online resources.
- Documentaries and video lectures are available at http://panopto.lums.edu.pk
- Library has Learning Commons and Research & Scholar Commons sections at the first floor (KiC wing) of the library which provide latest digital devices (Kindles, scanners, printers, and multimedia) facilities to the students in an interactive environment.
- Multimedia Section of the library is equipped with the latest technology tools such as LED, CD/DVDs players, multimedia, Hi-Fi audio system, microfilm and microfiche readers, and cordless headphones.
Office of Marketing, Fundraising and Alumni

Office of Marketing, Fundraising and Alumni is a central office looking after some of the key functions of LUMS.

Alumni
- Alumni card processing and account creation for the Class of 2013 took place at the time of graduation
- Alumni chapters were created in Australia, Singapore, EU Mainland and KPK
- Homecoming carnival was held for alumni and their families
- Alumni database is now 70% up-to-date
- Regional alumni reunions at Karachi, Islamabad, Peshawar and Faisalabad
- International alumni reunions at Dubai, New York, Boston, Prague and Sydney
- Connect with new alumni, 862 graduated in June 2014. There are now more than 8000 alumni

Fundraising
- Networking with donors, existing and potential
- Zakat drive was launched in Ramzan to raise funds for deserving students
- LUMS and UBL collaborated on a CSR project to help Gangaram Hospital with support from LUMS student societies
- The groundbreaking ceremony was held for Shaikh Ahmad Hassan School of Law
- Support to LUMS from key donors for National Outreach Programme (NOP) and various infrastructure initiatives
- On campus visits (600 visitors)
- Web Development
  - A new responsive template was launched for the LUMS website
  - Administration panels were made for efficient usage in editing the CMS

Marketing and Communications
- Admissions
  - Undergraduate applications increased by 25%
  - MBA applications increased by 27%
  - EMBA applications increased by 8%
  - PhD Management applications increased by 127%
  - SBASSE graduate applications recorded a drop of 23%
- LUMS Open Day
  - Undergraduate audience increased by 21%
  - Graduate audience increased by 67%
- Information Sessions
  - Undergraduate audience increased by 99%
  - Graduate audience increased by 125%
- Social media impact increased by 161%
General Administration Services

Security, PepsiDining Centre and Executive Dining Centre, horticulture, transport are areas that come under General Administration Services (GAS). Some of this year’s highlights are:

- Integral, motivated and alert security
- 24/7 manned control room for security management system through our highly professional security wardens
- Efficient mail and courier services
- Variety & quality of food & services in PDC/EDH catering 4000-5000 head covers per day
- Safe and secure transport services to LUMS community
- Growing own pure organic vegetables in our garden for LUMS community
- Efficient classroom staff and office attendants
- Sarsubz LUMS is keeping the campus green, vibrant, neat and clean
Human Resource Department

- **Employee Trainings**
  - PULSS (Project for Uplifiting of LUMS Support Staff) sessions were arranged for 35 attendants and support staff on MS Office, Communication Skills and Excel.
  - Training was arranged through COTHM (College of Tourism and Hotel Management) for FDC staff members on Technical Skills and Hygiene of 40 FDC staff members.
  - Training on Sexual Harassment was arranged for faculty and staff of LUMS.
  - 6 in-house training sessions (around 48 hours) held for LUMS staff. Staff trainings were arranged at external venues, REDC and through USAID as well.

- **Ranked as Best Employer**
  - By a survey conducted by Rozee.pk, LUMS was named as one of the best employers in Education Sector of Pakistan. Award distribution ceremony was held in March 2014.

- **Transition to SAP**
  - Payroll reconciliation is in process through SAP.
  - Faculty and staff appraisals were conducted through SAP.
  - Online attendance module has been implemented.

- **Daycare Events**
  - Eid party & Spring Festival was arranged for kids of Daycare Centre.

- **Benefits and Facilities**
  - 9 loans were disbursed to employees through Employee Benefit Fund Loan.
  - Female transport facility was managed and arranged smoothly for more than 50 female staff members.
  - Benefit of health insurance was provided and managed for all employees of LUMS.
  - Off-campus housing was arranged for LUMS faculty members.
Information Systems and Technology Department

The decision for implementation of SAP Financials and PeopleSoft Student Management Information Systems and hiring of consultants to support this had already been taken last year. This year the implementation of these complex, interdependent systems, improvement of business processes to ensure compliance with international best practices and inter and intra-department coordination for successful implementation including legacy data incorporation was ensured. Some of the more salient accomplishments are:

- Student Financial Implementation allowing students timely information about all dues.
- LUMS/Allied Bank Integration for timely reconciliation of deposited fees.
- SAP HR and Attendance System Integration.
- SAP and PeopleSoft Integration (ongoing).
National Outreach Programme Centre

- Coaching Session 2013 was held for a period of 4 weeks.
- National Outreach Programme (NOP) Consortium made with twelve universities on the initiative of LUMS, and one meeting held in November 2013.
- NOP Centre has been established and staffed with six personnel one project manager, two marketing executives, one student counsellor, one communication specialist, and one coordinator, in January 2014. This was made possible by the generous funding from the UK Department for International Development (DfID).
- Student counselling established with a dedicated student counsellor for NOP scholars in January 2014.
- Twenty-nine cities were visited in Punjab for the purpose of outreach for the NOP, as well as seven cities in Sindh and four in AJK, from November 2013 to June 2014.
- NOP Facebook page populated, Twitter account made (November 2013) and one issue of quarterly NOP newsletter Mentor was disseminated in April 2014.
Office of Student Affairs

Office of Student Affairs (OSA) houses four units under it: Career Services Office (CSO), Residence, Sports Wellness and Recreation (SWR), and Extracurricular Activities (ECA).

Residence

The Housing Office at the Office of Student Affairs (OSA) supports the academic mission of LUMS by providing a well-maintained residential environment for students. The atmosphere provided encourages learning, respect and appreciates individual differences and promotes a sense of community.

LUMS has four residential colleges which comprise of 10 residential buildings. The four residential buildings for female students are Mulark Hall, Perwia Ali Hall, Ruma-Amina Hall, and MZMG Hall. The six residential buildings accommodating male students are M1, Suleman Dawood Hostel, M2, M3, M4, Jehangir Siddiqui Hostel, M5, and M6.

Career Services Office (CSO)

- Education Fair 2013
  Career Services Office arranged a productive Mega Education Fair on October 25, 2013, in which students got a platform to interact with different representatives of foreign university and educational consultants.

- One on One Counselling Sessions
  Other than the Education Fair, CSO also arranged one on one sessions for students with the representatives of foreign universities that enabled students to attain more awareness about the opportunities in foreign universities and scholarships programmes.

- Career Fair 2014
  CSO has been successful in organising this annual fair which attracted more than 40 reputed local and multinational companies from various sectors like Financial, IT, Telecom, Engineering, Textile, Oil and Pharmaceutical to participate in this event. Recruiters like Galian, Getz Pharma, MTBC, NRSP Microfinance Bank and Total Parco conducted on-spot interviews and made offers of one month.

- Internships 2014
  A large number of companies from all sectors approached CSO for their Summer Internship Programme. Around 320 were placed during summer break 2014 including IBJ Accounting & Finance students for their compulsory auditing internships.

- Grooming Sessions
  Continuously pushing the limits when it comes to preparing students for professional life, the CSO organised grooming sessions to enhance overall grooming. This was an opportunity for graduating students to hone their skills in resume writing, interviews and professional interactions.

- Mock Interviews
  In order to enhance students interview skills and get expert feedback, mock interviews were arranged which were conducted by alumni from companies like Nestle, Pakistan, Business Logic Systems, Unilever, Engro Foods, Samsung Electronics, Korea Development Bank, Shell, Telenor Pakistan, McKinsey, Wireless Life, Zaeen ASP Ltd (Riyadh). More than 150 students registered for the mock interviews.

- CEOs and Guest Speaker Sessions
  CSO also arranged sessions, such as Coke Empower Lecture and Fatma Group Speaker Session, of industry leaders centering on career planning and soft skills, particularly with a focus on the prevalent global market dynamics and the preparation required for international opportunities.

- Networking Visits
  To build a strong relationship with organisations, CSO arranged meetings with Karachi and Lahore based employers between LUMS to minimise the gap between industry and academia.

- Placements 2014
  This year around 35 renowned multinational and local organisations conducted their recruitment sessions at LUMS for their Management Trainee Summer Internship Programmes. More than 500 students were placed within three months of graduation in different sectors that includes MNC's, FMCGs, Education Sector, IT, Telecom, NGO, Law, etc. 158 students went for higher studies in countries like UK, Canada, Germany, USA, Australia etc.
Placements 2014 - Industries

- Manufacturing: 7%
- Telecom & IT: 19%
- Engineering: 5%
- Financial: 13%
- FMCG: 10%
- Education: 8%
- Development: 10%
- Consultancy: 2%
- Research: 11%
- Paints: 1%
- Media: 4%
- Law: 4%
- Textile: 2%
- Others: 4%
Extra-Curricular Activities

With over 30 vibrant student societies at LUMS, events are hosted all year round under the supervision of the Extra-Curricular Activities Office (ECA). Highlights for the year are:

- Student Societies arranged 215 events.
- Sports at LUMS arranged 85 domestic and national championships.
- In annual games, SWR department with the collaboration of SLUMS arranged the mega event. A large number of teams from students, faculty and staff participated in the event.
- LUMUN participated in WorldMUN held in Brussels, Belgium and won the second prize by winning 4 best delegate awards.
- LUMUN participated in MUNTR’14 held in Antalya, Turkey. They won five best delegate awards, three outstanding diplomacy awards and one honourable mention.
- LUMUN arranged the Eurasia conference with the collaboration of University of Passau-Germany.
- LUMS Media Arts Society (LMA) produced its first flagship film titled ‘La-Hasil’ and organised the biggest film festival in Pakistan, ‘Filums’
- LUMS Entrepreneurial Society (LES) participated in Jacobus competition in Breman, Germany hosted by Jacobs University and reached the top 10.
- LES participated and won the Nescon Competition held at FAST University Islamabad.
- DRUMS participated at World University Debating Championship 2014 held in Chennai, India. DRUMS team was among the top eighteen in English Second Language category.
- Members of Dramaline went to Stuttgart, Germany. During their trip they performed at the University of Stuttgart. They also performed at the Pakistani Embassy in Berlin.
- Dramaline performed its annual play, ‘Moulin Rouge’ at the Ali Auditorium.
- LUMS Community Service Society (LCSS) arranged a blood drive in coordination with Shaukat Khanum Hospital and collected over 150 blood bottles. LCSS also arranged a blood drive with the help of Fatimah Hospital and collected over 200 bottles of blood.
- LCSS arranged bridging barriers for underprivileged children in association with Rabit Foundation, Care Foundation, PEN Education Foundation and Citizen Foundation.
- LCSS arranged special children Olympics for mentally/physically disabled children in collaboration with Special Children Olympics Organisation-Punjab Chapter.
- The LUMS Adventure Society (LAS) team attempted to climb to the famous Minglik Sar peak which stands at 6,050 meters and successfully achieved their goal.
- LDS organised the only convention for aspiring reporters in Pakistan, ‘CARMA’, which was attended by almost 500 participants.
- LUMS Literary Society (LLS) organised LUMS’ first literary festival which was attended by various literary personalities of Pakistan.
- Random Walk Economic Society (RWES) won the competition “Preparing the Shadow Budget” held and telecasted by Dunya TV.
- Around 3000 students from all over the country participated in the 6 mega events LUMUN, PSfl, CARMA, YLES, Sports FEST and LUMS Olympiad.
Office of Sports, Wellness and Recreation

The Office of Sports, Wellness & Recreation (SWR) and Sports at LUMS (SLUMS) have achieved milestones in terms of participation, student involvement, facility, equipment repair and maintenance. One of the primary concerns of LUMS sports department is to provide healthy and quality sports and recreation for the student body, faculty and staff members of our community.

- **Summer Academies for Children**
  Summer camps for alumni, faculty and staff school going children were organised. Children and parents were very enthusiastic to send their children for these programmes.

- **Wellness Programme**
  SWR introduced aerobics, taekwondo, yoga and gymnastics for the open LUMS community. The students, staff and faculty are being trained well to continuously complex and high-intensity training.

- **Coaching and Training Programme for Beginners and Elite Players**
  Developing and promoting competitive sports amongst students, faculty and staff requires proper training facilities. To meet the requirements, services of professional coaches were being acquired to provide training to our community. These training sessions are held thrice a week.

- **Over 46 events** were organised by SLUMS and SWR.

- **LUMS Annual Games**
  SWR and SLUMS organised the 1st LUMS Annual Games from March 29-31, 2013. Teams from all schools competed against each other in a number of sporting events, including football, basketball, table tennis, cricket, squash, volleyball, badminton and athletics.

  Overall MGSHSS won the games with 57 points, SBASSE came in second with 35 points and SDSB came third with 25 points.

  These sports in addition to uniting the LUMS community under one platform play a significant role in inculcating self-reliance, teamwork and sportsman spirit in the participants.

- **Inter-department Matches**
  The cricket match between REDC and Library was won by Library and the badminton match between SBASSE and IST was won by SBASSE, 2-0. Farhan-ul-Haq of SSE beat Tariq Sheikh of IST in table tennis, 3-2. In the Library vs Administration tug-of-war match, Administration was victorious. The weekend games provided a good opportunity for the staff of the university to interact in a recreation activity.

- **Up-gradation of Gyms**
  Pro Chancellor LUMS, Syed Babar Ali offered a grant of PKR 30 Million for the up-gradation of the male and female gyms.

- **Centralised Air-Conditioning**
  Vice Chancellor Dr. Sohail Naqui has approved the air-conditioning of entire sports complex.

- **Renovation of Squash Courts**
  Dr. Sohail Naqui has also approved plans for the renovation of squash courts.
### Office of Sponsored Programmes (OSP)

#### Externally Sponsored Research Grants
- Number of proposals submitted: 107
- Total amount of submitted proposals: PKR 1,864,011,796
- Number of proposals approved: 16
- Funds received: PKR 137,924,334

**Average processing time of proposals evaluation is 3.5 working days during the year.**

#### Externally Sponsored Travel Grants
- Number of travel grant applications submitted: 32
- Total amount of submitted proposals: PKR 9,514,403
- Number of proposals approved: 12
- Funds received: PKR 4,021,641

#### Externally Sponsored Events
* (Workshops/Seminars/Conferences/Symposiums)*
- Number of proposals submitted: 14
- Amount requested: PKR 14,873,808
- Number of proposals approved: 10
- Amount approved: PKR 13,226,608

#### Externally Sponsored Travel Grants
- Number of consultancy assignments undertaken: 6
- Amount approved: PKR 8,004,000

#### MOUs / NDAs
- Number of research MoUs/NDA's processed and signed: 14

#### LUMS Funded Research Grants – Faculty Initiative Fund (FIF)
- Number of proposals submitted: 79
- Total amount of submitted proposals: PKR 67,604,111
- Number of proposals approved: 41
- Total funding provided: PKR 32,051,360

#### LUMS Funded Travel Grants – Faculty Travel Grant (FTG)
- Number of travel grant applications: 55
- Total amount of submitted applications: PKR 14,721,396
- Number of travel grants approved: 41
- Amount approved: PKR 11,338,436
Horizon 2020 Awareness Seminar

The European Union Delegation to Pakistan and Office of Sponsored Programmes (OSP) organised an awareness seminar on April 24, 2016 on the new EU Research and Innovation Programme HORIZON 2020 at Rausing Executive Development Centre (REDC), LUMS. The Programme has an impressive envelope of €79 billion for funding such collaboration worldwide for a seven-year term (more than €10 billion per year).
Procurement Office

Office of Procurement is the custodian of all purchases for LUMS. Following is the update for FY 2013-2014:

- Total amount of Local Purchases amounted to PKR 549,262,489.40
- Total Amount of Import Purchases amounted to PKR 17,263,484.14

Some major purchases in the last fiscal year were:

- Evaporator Air Cooler PKR 9 Million
- Desktop Computers PKR 7 Million
- VSM cryogen free CFM 60B 224,569
- Super Speed centrifuge USD 43,000
- Ultra Machine USD 43,000
Registrar’s Office

The Office of the Registrar (RO) provides quality services to students, faculty, academic and administrative departments.

- It develops and implements policies and procedures relating to student’s official academic record.
- Evaluates and utilizes the latest technology in its working for a swifter processing mechanism.
- Each year RO publishes the student handbook revising and revises policies as required.
- Hosting the university’s largest events, the convocation and graduate night, RO takes the lead on ensuring all processes are run smoothly from calculating the credits of eligible graduating students to seats for the proud parents.
Message from the CFO

The prudent financial discipline and belt-tightening measures in year 2013-14 helped the university manage to sustain an operating surplus of PKR 524 million which is about 7% higher than the preceding year, despite the marginal growth in student body (approximately 6% over 2012-13) and ever increasing financial aid, utilities and infrastructure costs, yet without compromising the quality and output.

During the year 2013-14 the amount of PKR 249 million was received from various external donors primarily to support the educational needs of the deserving students in the form of financial aid and PKR. 546 million was received in lieu of research & development projects. Out of PKR 233 million, an amount of PKR 35 million was earmarked as “restricted endowment” by the donors, and has been made part of the endowment pool thereby increasing its size to PKR 652 million as of balance sheet date. The University is carefully evaluating and managing its financial aid side and students enrolment through National Outreach Programme (NOP). For that the university has disbursed PKR 352 million scholarships in the financial year which is 11% higher than the preceding year.

Recognising the importance of financial discipline and to develop a sustainable financial model, the University has successfully implemented SAP during 2013-14, which will have a long-term and continuing effect on its financial operations. While the long term financial sustainability of the university is dependent upon the existence of a large endowment fund, it has focused its attention in the short term on rationalising the operating costs, optimising the short term investment opportunities by utilising the available cash balance of PKR 947 million as of balance sheet date.
## Summary Of Assets & Liabilities

<table>
<thead>
<tr>
<th></th>
<th>2013-14</th>
<th>2012-13</th>
<th>2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non Current Assets</td>
<td>1234</td>
<td>984</td>
<td>966</td>
</tr>
<tr>
<td>Current Assets</td>
<td>2138</td>
<td>1627</td>
<td>1205</td>
</tr>
<tr>
<td>Non Current Liabilities</td>
<td>102</td>
<td>92</td>
<td>60</td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>628</td>
<td>566</td>
<td>842</td>
</tr>
</tbody>
</table>

### Summary Of Assets & Liabilities

- **Non Current Assets**
- **Current Assets**
- **Non Current Liabilities**
- **Current Liabilities**

- **Non Current Assets**
- **Current Assets**
- **Non Current Liabilities**
- **Current Liabilities**
## Summary of Funds

**Rupees in Millions**

<table>
<thead>
<tr>
<th></th>
<th>2013-14</th>
<th>2012-13</th>
<th>2011-12</th>
</tr>
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<tbody>
<tr>
<td>Current</td>
<td>942</td>
<td>463</td>
<td>19</td>
</tr>
<tr>
<td>Endowment</td>
<td>652</td>
<td>594</td>
<td>501</td>
</tr>
<tr>
<td>Scholarship</td>
<td>30</td>
<td>21</td>
<td>5</td>
</tr>
<tr>
<td>Chair</td>
<td>45</td>
<td>43</td>
<td>39</td>
</tr>
<tr>
<td>Sponsored</td>
<td>161</td>
<td>207</td>
<td>100</td>
</tr>
<tr>
<td>Fixed Asset</td>
<td>811</td>
<td>625</td>
<td>614</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>2642</td>
<td>1952</td>
<td>1268</td>
</tr>
</tbody>
</table>

### Fund Summary

- **2013 - 2014**: Current, Endowment, Scholarship, Chair, Sponsored, Fixed Assets
- **2012 - 2013**: Current, Endowment, Scholarship, Chair, Sponsored, Fixed Assets
- **2011 - 2012**: Current, Endowment, Scholarship, Chair, Sponsored, Fixed Assets
### Revenue & Expense Comparison

<table>
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<th></th>
<th>2013-14</th>
<th>2012-13</th>
<th>2011-12</th>
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<tbody>
<tr>
<td>Revenue</td>
<td>3,373</td>
<td>2,837</td>
<td>2,264</td>
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<tr>
<td>Expenses</td>
<td>2,849</td>
<td>2,349</td>
<td>1,807</td>
</tr>
<tr>
<td>Net Surplus / (Deficit)</td>
<td>524</td>
<td>488</td>
<td>457</td>
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### Scholarship Expense

<table>
<thead>
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<th></th>
<th>2013-14</th>
<th>2012-13</th>
<th>2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUMS Funds</td>
<td>124</td>
<td>200</td>
<td>210</td>
</tr>
<tr>
<td>Donors Funds</td>
<td>228</td>
<td>118</td>
<td>118</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>352</td>
<td>318</td>
<td>328</td>
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</table>

### Scholarship Disbursements

- LUMS Funds
- Donors Funds
## Horizontal Analysis of Financial

<table>
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<tr>
<th></th>
<th>2013-14</th>
<th>2012-13</th>
<th>2011-12</th>
</tr>
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<tbody>
<tr>
<td><strong>Assets &amp; Liabilities</strong></td>
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<td></td>
</tr>
<tr>
<td>Non Current Assets</td>
<td>1,234</td>
<td>984</td>
<td>966</td>
</tr>
<tr>
<td>Current Assets</td>
<td>2,138</td>
<td>1,627</td>
<td>1,205</td>
</tr>
<tr>
<td>Non Current Liabilities</td>
<td>(102)</td>
<td>(92)</td>
<td>(60)</td>
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<tr>
<td>Current Liabilities</td>
<td>(628)</td>
<td>(566)</td>
<td>(842)</td>
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<td><strong>Total</strong></td>
<td>2,642</td>
<td>1,952</td>
<td>1,268</td>
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<tr>
<td><strong>Fund Balance</strong></td>
<td></td>
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<tr>
<td>Current Fund</td>
<td>942</td>
<td>463</td>
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<tr>
<td>Endowment Fund</td>
<td>652</td>
<td>594</td>
<td>501</td>
</tr>
<tr>
<td>Scholarship Fund</td>
<td>30</td>
<td>21</td>
<td>(5)</td>
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<tr>
<td>Chair Fund</td>
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<td>43</td>
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<td>Sponsored Fund</td>
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<td>207</td>
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<td>Fixed Asset Fund</td>
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<td>625</td>
<td>614</td>
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<tr>
<td><strong>Total</strong></td>
<td>2,642</td>
<td>1,952</td>
<td>1,268</td>
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<tr>
<td><strong>Income &amp; Expenditure</strong></td>
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<tr>
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<td>Expenditure</td>
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<tr>
<td>Surplus</td>
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<td>341</td>
<td>303</td>
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### Vertical Analysis of Financial Statements

<table>
<thead>
<tr>
<th></th>
<th>2013-14</th>
<th>%</th>
<th>2012-13</th>
<th>%</th>
<th>2011-12</th>
<th>%</th>
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<td>(92)</td>
<td>-5%</td>
<td>(60)</td>
<td>-5%</td>
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<tr>
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<td>-24%</td>
<td>(566)</td>
<td>-29%</td>
<td>(842)</td>
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<tr>
<td><strong>Fund Balance</strong></td>
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<td>36%</td>
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<td>1%</td>
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<tr>
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<td>0%</td>
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<tr>
<td>Chair Fund</td>
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<td>2%</td>
<td>43</td>
<td>2%</td>
<td>39</td>
<td>3%</td>
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<tr>
<td>Sponsored Fund</td>
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<td>6%</td>
<td>207</td>
<td>11%</td>
<td>100</td>
<td>8%</td>
</tr>
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<td>Fixed Asset Fund</td>
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<td>31%</td>
<td>625</td>
<td>33%</td>
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<td>48%</td>
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<tr>
<td>Income</td>
<td>3,373</td>
<td>100%</td>
<td>2,837</td>
<td>100%</td>
<td>2,264</td>
<td>100%</td>
</tr>
<tr>
<td>Expenditure</td>
<td>3,174</td>
<td>94%</td>
<td>2,496</td>
<td>83%</td>
<td>1,961</td>
<td>82%</td>
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<tr>
<td>Surplus</td>
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<td>6%</td>
<td>341</td>
<td>12%</td>
<td>303</td>
<td>13%</td>
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</table>
## Revenue Composition

### Rupees in Millions

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<thead>
<tr>
<th></th>
<th>2013-14</th>
<th>2012-13</th>
<th>2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Grants Income</strong></td>
<td>636</td>
<td>487</td>
<td>328</td>
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<tr>
<td><strong>Tuition &amp; Other Fee</strong></td>
<td>1,903</td>
<td>1,624</td>
<td>1,339</td>
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<tr>
<td><strong>REDC, SEDC &amp; Consultancy</strong></td>
<td>228</td>
<td>171</td>
<td>164</td>
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<tr>
<td><strong>ROI &amp; Ex Gain/(Loss)</strong></td>
<td>130</td>
<td>151</td>
<td>104</td>
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<tr>
<td><strong>Hostel, Apartment &amp; Cafeteria</strong></td>
<td>221</td>
<td>197</td>
<td>168</td>
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<tr>
<td><strong>Sponsored Project Income</strong></td>
<td>91</td>
<td>80</td>
<td>39</td>
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<tr>
<td><strong>Other Resources</strong></td>
<td>164</td>
<td>128</td>
<td>122</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>3373</td>
<td>2837</td>
<td>2264</td>
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</tbody>
</table>

### Revenue Composition FY2013-14

- Grants Income: 19%
- Tuition & Other Fee: 56%
- REDC, SEDC & Consultancy: 3%
- ROI & Ex Gain/(Loss): 7%
- Hostel, Apartment & Cafeteria: 4%
- Sponsored Project Income: 6%
- Other Resources: 3%
# Expenses Composition

**Rupees in Millions**

<table>
<thead>
<tr>
<th></th>
<th>2013-14</th>
<th>2012-13</th>
<th>2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries &amp; Benefits</td>
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<td>975</td>
<td>789</td>
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<tr>
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<tr>
<td>Scholarship</td>
<td>352</td>
<td>318</td>
<td>328</td>
</tr>
<tr>
<td>Research &amp; Training</td>
<td>122</td>
<td>80</td>
<td>77</td>
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<tr>
<td>Advertisement &amp; Promotion</td>
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<td>9</td>
</tr>
<tr>
<td>Utilities, Supplies &amp; Services</td>
<td>558</td>
<td>434</td>
<td>384</td>
</tr>
<tr>
<td>Depreciation</td>
<td>145</td>
<td>140</td>
<td>118</td>
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<tr>
<td>Other Expenses</td>
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<td>186</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td>2849</td>
<td>2349</td>
<td>1807</td>
</tr>
</tbody>
</table>

**Expenses Composition FY2013-14**

- Salaries & Benefits: 12%
- Contribution for Building: 4%
- Scholarship: 5%
- Research & Training: 8%
- Advertisement & Promotion: 9%
- Utilities, Supplies & Services: 1%
- Depreciation: 1%
- Other Expenses: 99%