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NUSTNews is a bi-monthly publication, produced by Student Affairs Directorate, covering various events across the entire University. It will be appreciated if the focal persons send reports right after the events so as to give them timely coverage.



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01

IN THE SPOTLIGHT

NUST makes debut in 'THE' ranking



Taking a new leap forward, National University of Sciences and Technology (NUST) has made its debut in the Times Higher Education (THE) annual ranking list of top 100 universities from emerging economies.

Fifteen universities from Chile, China, India, Malaysia, Pakistan, Russia and Turkey have entered the tables for the first time, while China cemented its dominance among the emerging economies, retaining the top two places and increasing its representation among the top-100 institutions to 27, up from 23 last year. India increases its representation with 11 of the top-100 places, up from 10 last year and has a new national leader.

These new annual tables are based on the same trusted and

comprehensive range of 13 separate and rigorous performance indicators used to create the prestigious THE World University Rankings, covering all aspects of a modern university's core missions (teaching, research, knowledge transfer and international outlook). But they have been especially recalibrated to better reflect the character and development priorities of universities in the emerging economies. Around 22 countries classified as emerging economies by Financial Time Stock Exchange (FTSE) have been analyzed i.e. Pakistan, Brazil, Russia, India, China, South Africa, Chile, Colombia, Czech Republic, Egypt, Hungary, Indonesia, Malaysia, Mexico, Morocco, Peru, the Philippines, Poland, Taiwan, Thailand, Turkey and the United Arab Emirates."

NUST observes solidarity with victims of Peshawar school attack

NUST observed a day of solidarity with the victims of Peshawar massacre, on December 17, 2014. In this connection, a session was arranged at the Jinnah auditorium, in which a large number of students, staff and faculty turned up. Muhammad Ilyas Chishti conducted the session, which started with the recitation of verses from the Holy Quran. Subsequently, all the attendees prayed for the martyrs of December 16, 2014, who laid down their lives in the brazen terror attack on Army Public School, Warsak Road, Peshawar. Students expressed their grief in their moving speeches. Moving scenes were witnessed at the occasion.

Towards the end, Rector NUST Engr Muhammad Asghar prayed for the departed souls and termed it a dastardly attack on the future of Pakistan. He expressed his heartfelt sympathies for the bereaved families. The Rector praised the role of the Armed Forces of Pakistan, who were taking



all possible measures to root out terrorism and safeguard the boundaries of the motherland while rendering supreme sacrifices.

The session was followed by a walk led by the Rector himself. The participants carried placards expressing solidarity with the families of the victims of Peshawar massacre.

Psycho-Social Support Centre established at Peshawar

Department of Behavioral Sciences, NUST formed liaison with 11 Corps Peshawar and Department of Mental Health, Combined Military Hospital, Peshawar to help establish a 'Psycho-Social Support Centre' for the victims and survivors of the APS attack.

A team comprising mental health professionals and social workers were taken on board and trained to assist the process of stabilization of the survivors of the Peshawar massacre, which has 80 teachers, 800 children and 1200 parents affected.

The teachers were reached out on a priority basis as involving them was a must in the management of the psycho-social impacts of the gruesome act against children once they were back to school. An array of meetings were held starting 29th December, to prepare the teachers to resume their work in the school. The tasks undertaken were assessment of needs; this included assessing the psychological impact after the traumatic event, disseminating information about the progress on school opening, addressing the security concerns raised by teachers and parents, facilitating grief work to stabilize teachers and parents.

A workshop in collaboration with expert clinicians was also arranged at the Peshawar Club, titled 'Mental Health Re-



sponse to the Peshawar Massacre' from 26-28 January 2015. The guest speakers included Syed Arshad Hussain, Professor Emeritus of Psychiatry, University of Missouri, Columbia and Dr. Mohammad Asad Khan, Child and Adolescent Psychiatrist USA. The workshop focused on understanding the psychological and physiological impacts of trauma in children and its management. 2K13 batch of Department of Behavioral Sciences, NUST and trainees from Department of Mental Health CMH Peshawar, Lady Reading Hospital Peshawar, and Khyber Teaching Hospital Peshawar, attended the workshop.

Flood Relief Campaign 2014 – NVC EME College

NUST Volunteers Club, College of Electrical and Mechanical Engineering, launched its flood relief campaign under the guidance and support of Commandant College of Electrical and Mechanical Engineering, Dean of the College and the NUST Administration. The campaign was launched in September 2014, with the aim to provide relief to those brothers and sisters who suffered badly from the recent floods. The activities NUST Volunteers Club conducted included Book Sale Fundraiser – Phase 01 (College of EME); Off Campus Donations Drive – 01 (F7, F8, F9 Markaz and Pakistan Monument, Islamabad); Book Sale Fundraiser – Phase 02 (College of EME); Off Campus Donations Drive – 02 (Jinnah Super, Islamabad); Off Campus Donations Drive – 03 (Saddar,



Rawalpindi); Project Imdaad for goods collection (College of EME) and Direct Donations – Class to Class (College of EME). With a view to locating the deserving flood victims for subsequent disbursement of relief items, NVC team circulated forms to get people responses of the affected regions. With the assistance of NUST Administration, NUST Volunteers Club team then carried out a survey of the shortlisted areas – some villages near Wazirabad (District Gujrat). These were Haripur, Dolatabad, Laweriwala (Rakar), Laweriwala, Manaywala, Kot Natholok Taliwala, Rana, Kot –Mir and Patoki. As informed by the local residents the major assistance required by the villagers included the rehabilitation of homes because the assistance provided by the government only pertained to food. After conducting a door-to-door visit, NVC team recorded the scale of destruction, family information, and contact details. After evaluating the survey forms of 30 shortlisted families, NUST Volunteers Club decided to support 23 families of those villages.

The disbursement phase started on Nov 15, 2014. The amount distributed was Rs 6,45,000, while 55 goods packages were handed over to the victims.



Any of the following may be contacted if any individual/ organization wishes to contribute to financial support/ educational/ relief projects of NUST Volunteers Club:

Muhammad Waqas	President NVC	0347-2419320	president.nvc@gmail.com
Ammaar Arshad	Vice President NVC	0334-9543523	vicepresident.nvc@gmail.com
Muhammad Usman Ashraf	General Secretary NVC	0333-8429344	nvc.eme@gmail.com

Over 200 receive degrees at NUST Undergraduate Convocation

Over 200 graduates received degrees in the disciplines of Chemical and Materials Engineering, Economics, Mass Communication and Public Administration at the combined undergraduate convocation of School of Chemical and Materials Engineering and School of Social Sciences and Humanities, National University of Sciences and Technology. Held at the main campus of the University on Dec 10, the ceremony was graced by Rector NUST Engr Muhammad Asghar as chief guest. Besides parents, faculty and students, a large number of distinguished guests were present at the occasion.

President's Gold Medals for being the best in academics were awarded to Mehrunnisa Irfan (Chemical Engineering), Nadia Naseer (Materials Engineering), Sadaf Basharat (Public Administration), Fizza Bangash (Mass Communication), and Khaula Waqar Jhagra and Syed Rafay Mahmood (Economics). Whereas Rector's Gold Medals for the best projects were awarded to Asjad Naeem Mukaddam (Chemical Engineering) and Hassan Zafar Khan (Materials Engineering). At the occasion, Best Teacher Award and Best Researcher Award for the year 2013

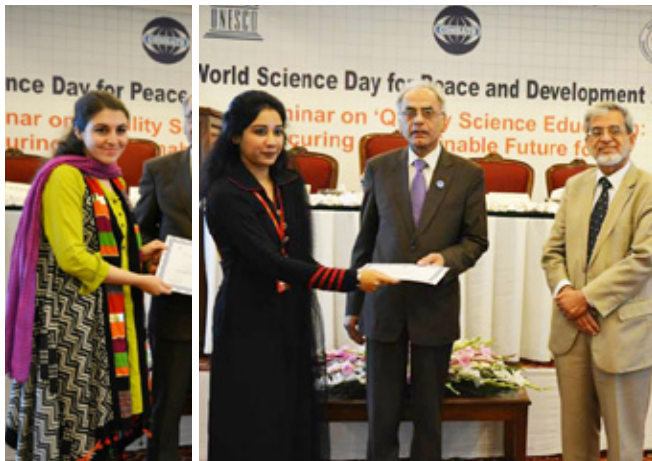


were also conferred upon Dr Habib Nasir (Chemical Engineering Department) and Dr Amir Habib (Material Engineering Department) respectively.

While delivering the convocation address, the Rector NUST extended his heartiest felicitations to the graduating students, their proud parents and the esteemed faculty. He advised the students to keep growing in knowledge and professional expertise and give the society the best they could.

ASAB students win poster competition on World Science Day

Commission on Science and Technology for Sustainable Development in South in collaboration with ECO-Science Foundation (ECOSF) and UNESCO observed World Science Day for Peace and Development on November 12, 2014. An event



was organised at Hill View Hotel, Islamabad titled 'Quality Science Education: Securing a Sustainable Future for All.' One of the highlights of the event was a 'poster competition' in which 40 posters from numerous universities across Pakistan were included.

Tahira Khan, a Masters student of Healthcare Biotechnology at Atta-ur-Rahman School of Applied Biosciences (ASAB) presented a poster on her bachelors research thesis, titled 'Newcastle disease virus mediated virotherapy for hepatocellular carcinoma,' and won the prize for the best research poster in the Healthcare category.

Similarly, Zoya Ghori, a student of MS Plant biotechnology ASAB also won the best poster prize in the Biosciences category. Her poster titled 'Mycoviruses- Natural fungicides of the future' based on the application of hypovirulent mycoviruses as biological control agents of plant pathogenic fungi that can potentially revolutionize our country's agriculture sector. She is currently working on the evolutionary studies of different mycoviruses families in her masters research.

First Intra-NUST Research Collaboration Conference

First Intra-NUST Research Collaboration Conference (INRC) was held at the Jinnah Auditorium on Saturday Nov 08. This inaugural conference was designed with the primary aim of fostering research collaborations among various NUST institutes and colleges in order to enhance the research productivity by promoting inter-disciplinary and applied research. The conference provided a common platform to the NUST researchers to reflect on the existing research culture and re-commit to an even better research eco-system.

Rector NUST Engr. Muhammad Asghar, Pro-Rector Academics Dr. Asif Raza, Principals and Deans of NUST constituent institutions, faculty members and a large number of research students attended the conference. It opened with addresses by Director Research, Dr. Riaz Ahmad, Director Innovation and Commercialization (I&C) Engr Salman Absar, Director



Quality Assurance (QA) Engr Muhammad Ismail and Chief Librarian Mr. Ayub Khan. In the technical sessions, researchers from NUST constituent schools and colleges presented their research synopsis with the objective of highlighting areas of mutual collaboration among the NUST siblings.

Pro-Rector Acad, Dr. Asif Raza, in his closing remarks, emphasized the need for fostering a collaborative research culture at NUST with the aim to produce high-performing graduates. He also distributed PCST research productivity awards among ten faculty members in recognition of their outstanding research contributions.



JSI students, teachers visit NUST

A group of 66 students along with the Principal and teachers of Jinnah Scholars Inn (JSI) visited National University of Sciences and Technology on Nov 28, 2014. Upon arrival, they were received by Mr Umer Farooq, one of the NUST Administration's officers, and a few other officials of the Directorate. During their stay, the delegation was conducted to various teaching/research facilities and hostels on campus. The students were really amazed to see the conducive learning environment being offered and wished to work diligently and pursue higher studies at NUST. A few students expressed their gratitude to their hosts, saying, "We cannot believe that such a university is in Pakistan; the discipline, security and noiseless environment are breathtaking indeed." Later, the guests were served with refreshments before they departed at their convenience.



Leading entrepreneurs deliver inspirational talks at SEECS

The enthralling news about the visit of Evan Spiegel, co-founder of a multi-billion dollar company Snapchat, to SEECS and that too for interacting with students stirred a great buzz amongst the latter. The talk was arranged by Mobilink in their promotion of Mobilink Discover PLAN Competition. To top it off, Evan Spiegel was also accompanied by Augie Fabela, co-founder of VimpelCom, the world's sixth largest telecom services company which is estimated to be valued at \$23 billion.

As a successful entrepreneur, Evan had a plethora of sage advice that a large crowd of aspiring entrepreneurs were eager to learn and follow. Evan talked at length about five characteristics of entrepreneurs: they should have a purpose; they should be passionate about achieving their goal; they should be able to persevere, even when things seem very bleak; they should have the right team working together, and sharing the same passion and purpose; and last but not the least they should be willing to go where no one has gone before. He advised the prospective entrepreneurs to always keep everything simple and straightforward, especially in business dealings and negotiations, and that never allow money to lead the way. Not one successful entrepreneur, according to Augie Fabela (CEO VimpelCom), had ever chased money. It was also said during the talk that the greatest motivator for most entrepreneurs was not wanting to work for someone else.



SEECS achievement

Students of School of Electrical Engineering and Computer Science bagged two prizes in ACM GIKI's Soft-com, which is a national computer science modular competition. Team Rifterz, comprising Waqee Khalid and Uzair Ghauri, won 1st Prize in Speed Programming, while Team Techstack, comprising M. Faizan, M. Waseem Khan and Waqee Khalid, stood second in Start-up Competition.

Honour of faculty - EME College

Saheeb Ahmed Kayani, serving as Assistant professor at NUST College of Electrical and Mechanical Engineering, has been granted the prestigious 'Charles Wallace Visiting Fellowship' for 2014-15. The Charles Wallace visiting fellowship programme is funded by the Charles Wallace Pakistan Trust based in the United Kingdom and managed by the British Council in Pakistan. Saheeb Ahmed Kayani was associated with the Centre for Water and Development, School of Oriental and African Studies (SOAS), University of London, as a 'Visiting Academic' from December 1, 2014 to January 9, 2015 to work on a brief project that deals with Mangla Dam raising and its socio-spatial impact. His work is unique in its nature as previously no detailed study has been carried out to understand and evaluate the interaction and effect of the raising project on the physical and social landscape of the area where the dam site is located.



Women Entrepreneurship Day Pakistan's inauguration at NBS

Women Entrepreneurship Day Pakistan (WED Pakistan) celebrated its official launch at NUST Business School (NBS) on November 29, 2014. The event was attended by students, corporate women, entrepreneurs and social sector representatives alike, whose energy was sky high, and motives were to encourage and celebrate the achievements of female entrepreneurs in Pakistan.

The guest speakers comprised some exceptional women entrepreneurs, who shared their personal experiences and voiced support for the movement itself. WED Pakistan Ambassador Anushae Naveed Ashraf, who is also an alumnus of NBS, opened the floor with some beautiful words of wisdom. The extraordinary speakers included the first female cartoonist and founder of Gogi Studios, Nigar Nazar; the highly inspirational painter and feminist, Muniba Mazari; Pakistan's first female commentator, Leena Aziz; and the owner of the unique local health cafe, Juicy Gossip, Izzah Ahmed to name a few.

Miss Keshwar Sameen, faculty NBS, was representing the academia and emphasized the role of educational institutes in instilling entrepreneurial talents and confidence among its students. She commended NBS on the role it had played over the years in promoting and encouraging its students in developing their entrepreneurial skills.

The founding member of the premier Pakistani think tank Jinnah Institute, Sehar Tariq ignited the audience's enthusiasm, including the men, by highlighting the significance of the word 'feminism.' This was followed by the immensely entertaining showcase of the Gogi cartoons by Nigar Nazar, that showed how significant controversial issues can be discussed through animation. Muniba Mazari followed next, inspiring the audience with her life story and her mission to change the perception regarding disabled people. Besides the entrepreneurial women, the City Manager of Elance-oDesk and the TEDx Ambassador to Pakistan, Saad Hamid also addressed the audience encouraging the efforts of the women entrepreneurs of Pakistan.



First National Conference on Disaster Management at MCE



Military College of Engineering organized First National Conference under the title 'Disaster Management.' The workshop was held at MCE and renowned speakers on national level were invited to talk about their experiences on managing the disasters and reducing the risk. The conference was divided into four sessions.

The conference ended on a high note, aiming at bringing to-

gether the eminent researchers and practitioners to share their experience and knowledge about Disaster Management and Mitigation so that the issue could be dealt with effectively in future. A total of 152 professionals attended the conference. PEC members will be given 1 CPD point for attending this conference.

Excellence in Internal QA – The Case Study of NUST: a paper presented by Engr Ismail at int'l convention



Director Quality Assurance Engr Muhammad Ismail, as a keynote speaker, presented a paper titled 'Excellence in Internal QA – The Case Study of NUST' at Pakistan's 13th International Convention on Quality Improvement held at Lahore during 17-18 November, 2014. The speaker gave an overview of the quality assurance framework comprising internal and external quality assurance practices. He briefly introduced the external quality assurance (EQA) measures

pertaining to institutional performance evaluation and accreditation of programmes by accreditation councils and deliberated on the Internal Quality Assurance (IQA) measures in detail. He explained that IQA exercises cover self-assessment of programmes and the university's internal quality audit. Engr Ismail gave an account of IQA activities in Pakistani universities with special focus at National University of Sciences and Technology (NUST) where IQA activities were planned, coordinated and conducted by NUST Quality Assurance Directorate (QAD). NUST has twenty-two teaching institutions, therefore for the effective implementation of QA programmes across NUST, Local Quality Enhancement Cells have been established at all constituents, which function in collaboration with QAD. He elaborated the procedures for conducting the self-assessment process of programmes and the university's internal quality audits of NUST constituent institutions for indicating any deficiencies at the programme and institutional levels, respectively.

ASAB, Bioreach Society organize Ebola-Congo Seminar



In line with its public health focused agenda, NUST Bioreach Society (a student-run society of NUST) and Atta-ur-Rahman School of applied Biosciences (ASAB), joined hands with NIH Epidemiology experts and WHO Field experts along with AFIP Virology department, on November 14, to impart awareness among university students regarding current serious global epidemics.

The event was titled 'Emerging viral threats; Ebola and Congo' which attracted a number of eminent scientists, academics and researchers. Principal ASAB, Dr. Peter John commenced the ceremony with his address in which he briefly talked about the scale and scope of the Ebola epidemic and significance of the seminar. Among the speakers were Col Dr Eijaz head of Virology department at Armed Forces Institute of Pathology (AFIP), Dr Mirza Amir Baig from Field

Epidemiology and Laboratory Training Program at NIH. Dr Muhammad Salman, a senior scientific officer at NIH and Dr Najma Javed who heads Central Research Centre established by PMRC at NIH. The chief guest, Rector NUST Engr. Muhammad Asghar concluded the first half of the seminar with his address. He stressed the need for such awareness workshops while pointing out that students are an excellent means for disseminating such knowledge to general public. In the second half of the seminar, a training session was conducted by Dr Nadeem Ahmad Gondal and Mr Ahsan Raza from WHO which mainly included the demonstration of usage of personal protective equipment and handling of hazardous materials (HAZMAT). Certificates were distributed among the trainees and tokens of gratitude were presented to the guest trainers and speakers.

National Seminar on Genetic Disorders - ASAB

National Academy of Young Scientists in collaboration with Atta-ur-Rahman School of Applied Biosciences (ASAB), organized National Seminar on Genetic Disorders: From Awareness to Diagnosis on November 24 at the auditorium of ASAB. The purpose of the seminar was to present an overview of the genetics of various inherited disorders in Pakistan and to develop collective expert advice for diagnosis and counselling of genetic disorders.

Pro-Rector (Academics) NUST, Dr. Asif Raza was chief guest at the occasion. He stressed on developing effective collaboration at department and institution level to counter this serious problem.



Third ASEAN Pakistan Conference on Materials Sciences - SCME



SCME organized 3rd ASEAN Pakistan Conference on Materials Sciences (APCoMS-3) from 25th – 27th November. The conference not only aimed at providing an excellent forum for exchange of research information amongst scientists and engineers from ASEAN countries but also did promote dialogue on a variety of topics representing the latest developments and future trends of materials and nanotechnology. Dr. Mukhtar Ahmed, Chair Higher Education Commission, was chief guest at the opening ceremony. He elucidated the fact that Pakistan was not a terrorist country rather a country with strong emphasis on education, research and development. Dr. Muhammad Mujahid, Principal SCME, stressed upon the need of research in the field of Materials Sciences and Engineering to help Pakistan and the ASEAN countries positively influence the industrial, economic and

manufacturing sectors. The conference had been a venture for over 200 participants and contributions from 60 eminent speakers around the globe. These material experts had diverse backgrounds from approximately 10 countries which included the United Kingdom, Malaysia, China and Vietnam. Prof Nguyen QuangLiem was the Focal Person of ASEAN Sub Committee on Materials Science and Technology. The participants fervently displayed their research in Materials Engineering on posters which were judged by the leading material experts. Moreover, to make the conference a life-time experience for the honorable international guests, several social events were also planned i.e. a 'Cultural Night' was held on Day 1 at SCME while a trip to Monal for the guests was also arranged on Day 2, which was thoroughly relished.

Workshop on 3G and 4G Cellular Systems - MCS

Military College of Signals organized a one-day workshop on the "3G and 4G Cellular Systems Technology, Optimization and Planning" on 18 Nov 2014. The workshop was conducted by Lt Col Dr. Adnan Ahmed Khan, Department of Electrical Engineering, MCS in collaboration with relevant experts with adequate experience and knowledge in the training, planning, installation and optimization of Universal Mobile Telecommunications Systems (UMTS) based Cellular Communication Networks.

The aim of the workshop was to provide adequate knowledge and understanding of future Cellular Systems. Teams from major Organizations and academic institutes like STRATCOMM, Frequency Allocation Board (FAB), PAF, Avionics Production Factory, PAC, Kamra, ZTE, Telenor, LMKR, Institute of Business and Management Karachi, COMSATS Institute of Information Technology, Fatima Jinnah University, UET Taxila, UET Peshawar, CASE, COMSATS Abbottabad, Institute of Space Technology and Muhammad Ali Jinnah University Islamabad attended the event.



Quality expert speaks on Global Sustainable Management

Roland K. Jahnke, an academican at International Academy of Quality and Director of Deutsche Post DHL, delivered a seminar on Global Management and Sustainability at NUST Business School (NBS) on November 19. He presented the DHL as a business case study which focused on transformational and transitional shifts of the company in terms of management and strategies. Sustainability was the main theme of discussion. Students and faculty members attended the session.

DHL is a global company and a market leader in consumers and business logistics sectors with more than 470000 employees and operates in more than 220 countries around the world.



Seminar on Outcome-based Education

Quality Assurance Directorate at National University of Sciences and Technology organized a Seminar on Implementation of Outcome-based Education, on November 27 at H-12 Campus, Islamabad. Dr. Asif Raza, Pro-Rector (Academics), graced the occasion as chief guest, whereas Dr. Wasim Khaliq from NUST Institute of Civil Engineering was the resource person. The seminar was attended by Heads of Departments, Directors of Local Quality Enhancement Cells and Senior Faculty Members of NUST engineering and non-engineering Institutions.

Dr. Asif Raza urged upon NUST Institutions to take the implementation of quality assurance policies and programs very seriously. He stressed upon importance of the Outcome-based Education, which enables the departments to discretely know their strengths and weak areas in the realm of education and provides them the opportunity to improve their programs further. He distributed the certificates amongst the participants and thanked them for actively participating in the seminar.



Dice Automotive launched at SMME

Distinguished Innovations, Collaboration and Entrepreneurship (DICE) and School of Mechanical and Manufacturing Engineering (SMME) on Dec 16 jointly launched DICE Automotive - an Exhibition, Symposium and Competition- which will be held annually at SMME. DICE Automotive aims to bring together the academia and Industry. Its primary objective is to act as a pragmatic and focused platform for automotive related innovations and for collaboration among academia, industry, government, entrepreneurs and expatriate community on all matters pertaining to the growth of automotive sector in Pakistan.

The event focused on mobilizing expatriate community to take advantage of their expertise and experiences for the benefit of auto industry in Pakistan; and also to act as a Think Tank to recommend automotive related strategies.

Participation in the event was open to all industry and research organizations with their products/projects and innovations. The project titled 'Experimental and simulated performance analysis of parabolic trough collector' by Naveed Ahmed from SMME was declared the winner of the competition.



Joint Research on Dengue Pathogenesis by RCMS, ASAB

Recently, a study, conducted jointly by the research groups and supervised by Jamil Ahmad (Research Centre for Modeling and Simulation) and Dr. Amjad Ali, (Attatur-Rahman School of



Applied Biosciences) on the 'Modeling and Analysis of the Regulatory Network of Dengue Virus Pathogenesis and Clearance,' was published in the Journal of Computational Biology and Chemistry, having impact factor of 1.52. This study employed a Model-Checking based verification of the dynamics of Toll like Receptor 3 mediated signaling pathways. They reported that elevated levels of cytokine subsequently induce SOCS expression which in turn results into the continuous down-regulation of Toll like receptor 3 and interferon. This resulted into dengue pathogenesis during the stage of immunosuppression. Understudy dengue pathogenesis will lead to identification of sites for drug targets which will eventually lead to potential therapeutics for combating dengue.

Seminar on Contract Management - SCEE

A lecture on 'Contract Management' was arranged on 19 Nov at NIT Auditorium for the 2011 Civil Engineering Batch of NUST Institute of Civil Engineering (NICE), SCEE. The guest speaker for the occasion was Engr Salman Shahid, who currently serving in NESPAK Islamabad office as a senior engineer. He explained the historical importance of contract management and also shed light on the aspects of construction management and how important the management was in the field of Civil Engineering. He said that the central aim of contract management was to obtain the product as agreed in the contract and achieve value for money.



Lecture on Tunneling Techniques - SCEE

Tunneling and underground construction is one of the oldest construction mediums. New Austrian Tunneling Method (NATM) emerged in mid 20th century and has proved its successful applicability to more than 100 projects throughout the world. Keeping in mind the importance of NATM, a lecture on 'Tunneling Techniques' was arranged on 22 Oct at NIT Auditorium for the students of Civil Engineering Batch of NUST Institute of Civil Engineering (NICE), SCEE. A good number of participants attended from various departments of P.A.E.C besides SCEE faculty. The guest speaker for the occasion was Prof Dr Johan Golser.



Seminar on Finite Element Analysis of Composites - EME College

Mechanical Engineering Department of College of Electrical and Mechanical Engineering held Seminar on Finite Element Analysis of Composites on Friday, November 7, at NUST EME, Peshawar Road. Assistant Professor Dr. Rizwan Saeed Choudhry, Winner IAUP (NUST) international faculty achievement award, and group lead for the Composites Engineering Research Group of Department of Mechanical Engineering (DME), NUST College of EME, was the speaker, who has done his PhD in 2009 in Damage Characterization and Modeling of Damage in Composite Materials.

The speaker held two sessions and discussed about using finite element analysis for analyzing structures made of next generation materials such as carbon fiber reinforced polymers, using ABAQUS FEA software. Graduate engineers working in design/stress analysis departments, final year undergraduate and postgraduate students attended the seminar. During the session, live demo was conducted by building and analyzing ply level linear elastic FEA model in ABAQUS to develop understanding of the differences in data analysis (post processing) for composites and metals.

Event details and training material is available online at <http://cemecomposites.com>



“There is no scientific answer for success. You can't define it. You've simply got to live it and do it.” –Anita Roddick

National Software Engineering Conference 2014 - MCS

Department of Computer Software Engineering organized National Software Engineering Conference 2014 (NSEC-2014) on 11-12 November, at Military College of Signals (MCS). The NSEC-2014 was the second in its series with the pioneer conference NSEC-2010 held in August 2010.

The two-day conference was launched not only to create awareness but also to provide a forum for exchange of information among corporate executives, professionals and users of information technology from academia, industry, military, government and corporate sector, at national and international level, regarding the globally critical domains of software engineering. The

conference especially focused on recent developments in software engineering technologies and best management practices along with their applications to achieve optimally secure IT infrastructure and organizational governance. Many eminent personalities from academia and dignified industry experts graced the occasion. Rector NUST Engr Muhammad Asghar was chief guest at the inaugural session of the conference.



Case Base Learning

Workshop - AM College

Integrated faculty development programme has been started by AM College and AFGMI under the auspices of GHQ Med Dte from Jan. In this connection, tenth workshop on 'Case Base Learning' was conducted by Col Sohail Sabir, Col Khadija Qamar and Lt Col Alamgir Khan on 29 Nov 2014 at Army Medical College conference room. All the basic sciences and clinical related personnel attended the workshop. Workshop sessions included interactive sessions on the small group discussion along with role play of the students and group presentations. The facilitators outlined the compositions and functions of the small group dynamics. The CBL is an educational paradigm closely related to the more common Problem based learning. The various styles of learners and the effectiveness of case base learning in teaching sessions were elaborated to enhance the concept of teaching and learning.



Trends and innovations on medical education: a talk by Prof AraTekian – AM College

Prof AraTekian – a Professor of Medical Education and Associate Dean of International Affairs, University of Illinois at Chicago, USA - delivered a lecture on trends and innovations on medical education at Ayub auditorium AMC on 12 dec. Maj Gen Salman Ali HI (M) Principal Army Medical College along with the faculty and students of the college attended the lecture presentation. His lecture was focused on curriculum development, assessment, program evaluation and patient safety.



Training on NVivo software - C³A

Fatima, a researcher from Quaid-e-Azam University, who completed her M-Phil thesis by using Nvivo Software, shared her expertise and research experience with the students. Her thesis was titled 'Patterns of Interactions and their Outcomes across Generations in Joint Family Systems.' Her talk on NVivo Software was inspirational for students. She also shared report writing format on the basis of analysis drawn from Nvivo Software.



Self-growth Workshop - C³A

Center for Counselling and Career Advisory (C³A) arranged a self-growth workshop for NUST students. The workshop aimed to help students gain self-awareness so that they could learn to identify and express their emotions in an appropriate way. It also aimed to help students learn effective communication skills and manage their stress and anger in an effective way. The workshop was participatory and consisted of group work which helped them develop their understanding at personal level. A total of 20 students from different schools attended the first session of the workshop however, the number of students varied in all sessions depending on their study schedule.



Guest lecture on career aspirations - C³A

Dr Shoaib Kiani, from Pakistan Military Academy (Kakul) was invited as a guest speaker to share his PhD research findings on 'Personality and Vocational Interests in High School Students.' His research developed understanding of the students regarding emic and etic perspectives of research, career development issues in our context and research-based findings on the match and mismatch between the personality types and vocational interests and their consequences for both the individuals and society.

PDC organizes HEC sponsored Indigenous On-campus Training

A five-day Higher Education Commission (HEC) sponsored 'Indigenous On-campus Training (IOT)' was organized for administrative and management cadre (Non teaching staff) of NUST and participants from Bahria University, Allama Iqbal Open University and International Islamic University from 24th – 28th November at CIE Building by Professional Development centre of NUST. Each day comprised three sessions. The topics covered included Achieving Personal Effectiveness, Finance for Non Finance Managers, Academic Governance, Effective Communication Skills, University Administration and Ensuring Quality in education. Registrar NUST Engr. Salim Daud distributed certificates among the participants.



Each day comprised three sessions. The topics covered included Achieving Personal Effectiveness, Finance for Non Finance Managers, Academic Governance, Effective Communication Skills, University Administration and Ensuring Quality in education. Registrar NUST Engr. Salim Daud distributed certificates among the participants.

UGRAD Seminar - SEECS

With the aim to familiarize students with the process of applying to graduate schools in the United States, a seminar was arranged by IEEE on Friday, 14th November, 2014 at the seminar hall of School of Electrical Engineering and Computer Science. Dr. Tahir Azim, Assistant Professor at SEECS, gave tips on how to increase chances of admission. A large number of students discussed their queries. He guided the students about CV, resumes, letters of recommendation, statement of purpose and other application requirements along with GRE preparation.



“The will to win, the desire to succeed, the urge to reach your full potential... these are the keys that will unlock the door to personal excellence” –Confucius

Workshop on Effective Project Management Techniques - PDC

A workshop on 'Effective Project Management Techniques' was organized by Professional Development Center (PDC) of NUST at CIE Building on 26th and 27th November 2014. The programme was designed to enable the participants to discover how to use project management techniques to reduce project delays, avoid scope creep, and rise in cost escalation and learn how to implement good project management practices in the context of Pakistan. The workshop was facilitated by Mr. Imtiaz Ahmed, GM PDC and Mr. Jamal Thaheem, Faculty member of SCEE. The workshop was concluded by distributing certificates among the course participants by Mr. Jamal Thaheem.



MCS faculty publishes research paper in international journal

Col Dr. Muhammad Hanif is a faculty member at Military College of Signals (MCS). He very regularly publishes research work in international journals. During the month of Dec 2014, he published research paper titled "Diagnostics of tin Plasma Produced by Visible and IR nano second Laser Ablation" in ISI indexed journal of "Contribution to Plasma Physics", Volume No. 54, Issue No. 11.



Closing Ceremony of UN Military Observer Course held - CIPS

To bid farewell to the participants of the first international course, a simple and befitting closing ceremony was organized on 7 November. The event was attended by representatives of UN Agencies in Islamabad and Defence Attaches of participants' countries. Mr Timo Pakkala UN Resident Coordinator / UNDP Resident Representative Pakistan was chief guests. Col Maxwell, Zimbabwe and Col Raheel, Pak Army thanked the faculty and staff for the excellent trainings imparted to them.



Breathe Easy: a walk for healthy environment

NUST Environment Club arranged an event titled 'Breathe Easy' on November 11, 2014. Organized in collaboration with International Union for the Conservation of Nature – Pakistan, the event was poised to spread cognizance about a healthier and safer environment. The event also featured Pakistan Sustainable Transport Project – PAKSTRAN which aims to address the transport and related problems in the country, is being implemented in the country by the Government of Pakistan.



SCME students excel at Biz Fest'14, GIKI

Three students from SCME namely Mehwish Akhlaq, Muhammad Abubakr Khalid and Usman Ghafoor participated in All Pakistan Business Festival (Biz Fest'14) held at GIKI and bagged 1st Position in Elevator Pitch Competition and

2nd position in Business Launch Competition.

All Pakistan Business Festival (Biz Fest) is an event held annually at Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI). The primary objective of this event is to provide a competitive as well as supportive environment for students to reinforce their entrepreneurial skills. The event comprises three modules i.e. Business Launch Competition, Elevator Pitch Competition, and Video Pitch Competition.



Dr Kelim speaks on essence of Rumi's poetry

NUST Literary Circle held a seminar, 'The essence of Maulana Rumi's poetry' on December 11, 2014. The renowned scholar, Dr. Kelim Erkan Turkmen, graced the event with his kind presence to deliver a thoughtful talk on the life and works of Maulana Rumi.

Held at NUST Institute of Civil Engineering, a constituent of School of Civil and Environmental Engineering, the talk was open for all. During the two-hour engaging session, Dr. Kelim presented the audience with excerpts from Rumi's poetry and the insightful messages it contained. He termed Rumi an international figure, who was understood by all irrespective of their nationalities, races and ethnicities. In the light of Rumi's works, he emphasized the importance of the balance between the worldly pursuits and the spiritual journey. He said, "The body is controlled by the brain. The brain is materialistic. What about the soul? Masnevi (Rumi's book) is about balancing the brain and the soul."

By sporadically extracting guffaws from amongst the packed audience, the esteemed guest held an engaging session throughout.



Newbies extended warm welcome at Freshmen Night - SEECs

The sophomores of School of Electrical Engineering and Computer Science hosted Freshmen Night on December 15. The first display of the night was a video titled 'If the Black Eyed Peas were from SEECs.' The video gathered a huge round of applause from the audience. Next up was a small skit 'Sultanat-e-H12,' which was a fusion of the H-12 and the Mughal Era clichés. That was a crowd pleaser and kept the audience laughing throughout. This was followed by a dulcet medley performed by Wu Ran Lu, Hamza Iqbal, Annus Shahid and a stand-up comedy session by Hamza Shahid to entertain the attendees.



‘Knack of All This’

With a legacy of organizing unique and exciting events to serve the community, NCSC took things to a whole new level with ‘Knack of All This:’ a four-day event held from 8th to 12th December at School of Mechanical and Manufacturing Engineering. It attracted students to showcase their talents to anyone willing to learn; be it singing, dancing, photoshop, photography, painting, public speaking, in-line sketching, skating etc. The event served as an excellent platform to bring to limelight, the power to teach and the will to learn.



U-lounge block inaugurated at NBS

A new block was inaugurated at NUST Business School by the President and CEO of Ufone along with Pro-Rector NUST Engr Muhammad Shahid on 21st November. U-lounge, sponsored by Ufone, will serve as a ‘group study room’ in addition to the already fully functional library. The primary purpose of U-lounge is to encourage students to spend time in a relaxed indoor environment for group collaborations, research and study. The room is equipped with comfortable seating and a TV which gives students a chance to share their ideas in a conducive environment.



RCMS student wins laurels at APCOMS

Hafiz Suliman Munawar, an MS Computer Science and Engineering student at RCMS, won 2nd prize at the Urdu Declamation Contest held at Army Public College of Management Sciences (APCOMS), Rawalpindi on 7th Dec, 2014. Around 13 students from various institutes like NUST, COMSATS, GIKI and UET participated in the event. Brig. (Retd.) Hubdar Ahmed Madni, Principal APCOMS, presided over the ceremony.



MUN'AM 14 at AM College

Model United Nations Army Medical College (MUN'AM), one of the most awaited events of AM College and the only student organized event, started on 21st of November. The chief guest at the occasion was Maj General Khaliq Naveed Ansari. There were two committees in this year's MUN'AM. WHO and PNA. PNA sessions were as enthusiastic as ever. Bold speeches, raising notions, sarcastic points and most of all the 'politics,' it was all there. Hamza Jahangeer, the Secretary General of MUN'AM, was chairing this committee along with Zaheer Babar. Several draft papers and bills were proposed and there was a healthy discussion from all the members of Pakistan National Assembly. WHO sessions had brilliant ideas and fluent speeches on the research and development of drugs. The chief guest distributed certificates among winners and honorable mentions at the end.



NLC activities: a semester recap

NUST Literary Circle prides itself in being one of the biggest and most active societies at NUST, and during the last semester it kept true to its tradition of organizing a series of unforgettable events. It started with introducing a Ten-word Story Competition. This was hugely successful and NLC unearthed some true writing gems. Second in the line-up was *'Aik Shaam Anwar Maqsood kay Saath,'* and through this event NUST students were given a chance to interact with one of the prolific writing personalities in Pakistan. As one would expect the event was a huge success. The next event was perhaps one of the most widely anticipated NUST events ever: The All Pakistan *Mazhaiya Mushaira*. The numbers this event generated were unprecedented and over a 1000 students, faculty and administration officials enjoyed the event. NLC was very proud to be able to bring the event to the NUST student body. To finish off this semester, NLC kicked off its annual 'Photo essay competition at Ayubia; A talk on Discovering Rumi; and last but not the least arranged a CV based talk session with Osama Hassan (Coke rep).



SPORTS

SEECs Futsal League

In the month of November, School of Electrical Engineering and Computer Science (SEECs) held its annual futsal league tournament. The final match was played between 'The Invincibles' and 'A-Team.' The highlight of the league was three

classic goals scored by Junaid Khan from Team Niggers. The tournament had everything a classic tournament of football should – long range goals, exquisite passing, towering headers, last gasp equalizers and of course, penalty shootouts. The A Team proved itself to be the undisputed futsal champion of SEECs for the year 2014 by winning on penalties.



Isb Campus prevail at Intra NUST Badminton Competition

Intra NUST Badminton (Men) Competition 2014-15 was organized at NUST Gymnasium, Islamabad Campus during 28-29 Nov. A total of six teams (MCE, MCS, AMC, EME, CAE and Islamabad Campus) participated in the event. The final was played between Islamabad Campus and EME College, which the former won by 3-0 after a very thrilling competition. Dr. Azad Akhter Siddiqui, Principal School of Natural Sciences (SNS) was chief guest at the final and handed over winners trophy to the Islamabad Campus team.



Isb Campus win intra NUST table tennis title

Intra NUST Table Tennis (Men) Competition 2014-15 was organized at NUST Gymnasium, Islamabad Campus during 28-29 Nov. Islamabad campus team won three matches to clinch the trophy, the final being against EME College. Dr. Azad Akhter Siddiqui, Principal School of Natural Sciences (SNS) was chief guest at the final and handed over winners trophy to the Islamabad Campus team.



Nadir Khan: an emerging cyclist – EME College

Nadir Khan, a student of College of Electrical and Mechanical Engineering, is a cyclist and also a member of Islamabad Cycling Association (ICA). Nadir has participated in a number of races including: National Cycle Race from Peshawar to Wah Cantt 2013; 73rd Punjab games (26th to 31st December 2013); 61st National Cycling Championship (17-21 March, 2014); Cycling Race to Monal / Pir Sohawa Islamabad (16th May 2014) where he remained 6th; and Helmet Awareness Ride held by Motorway Police in collaboration with Islamabad Cycling Association in the year 2014.

The 73rd Punjab Games were held during 26th to 31st December, 2013 in Lahore. Four events of cycling included the Road and Velodrome races. Six regions from all over Punjab participated in these events. Nadir won a Bronze Medal in the Velodrome Team Pursuit, while managed to win 10th Position in the 30 kms Scratch Race.



SMME beat SEecs to become on-campus cricket champions

At the final of On-campus Cricket (Men) Competition 2014 – 15, played between SMME and SEecs, the former won the title as they beat their opponents by 2 runs. Held at Concordia Complex - I, Islamabad Campus during 8 - 12 Dec, 2014, as many as nine teams (SMME, NBS, SEecs, SNS, SCME, CES, ASAB, S3H and SCEE) participated in the championship. All the matches were played in the evening. Dr. Arshad Ali Principal SEecs was chief guest at the occasion and gave away trophy to the champions.



CAE outsmart MCS to clinch Intra NUST Hockey Competition

Intra NUST Hockey (Men) Competition 2014 - 15 was organized at NUST Gymnasium, Islamabad Campus during 5 - 7 Dec. Four teams (MCE, MCS, EME College and CAE) participated in the event. The final was played between CAE and MCS, which CAE won by 8 - 7 after a very engaging contest. Group Capt Nadir Munir HoD CAE was chief guest at the opening ceremony, while Group Capt Imran Ali Chaudhary HoD, (I.E.) CAE was chief guest at finals and presented the winning team with the trophy.



SCEE seize On-campus Volleyball Competition

At On-campus Volleyball (Men) competition 2014 - 15, SCEE outclass SEECs with the scoreboard showing 3-0 at the end of the play. The event was organized at Concordia Complex - I, Islamabad Campus during 8 - 12 Dec. Nine teams (SMME, RCMS, SEECs, SNS, SCME, CES, ASAB, S3H and SCEE) participated in the event. Dr. Arshad Ali Principal SEECs was chief guest and handed over winners' trophy to the SCEE team.



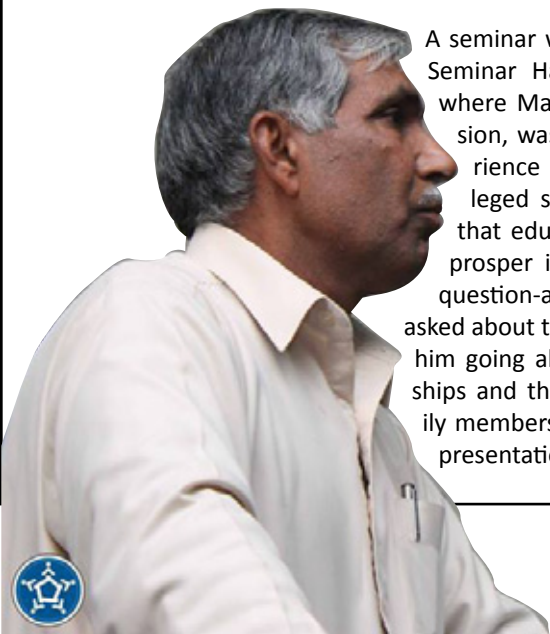
NCSC Blood Donation Drive 2014

Following the tradition of holding two blood camps in a year, NUST Community Service Club (NCSC) held yet another successful three-day blood donation camp in collaboration with the Armed Forces Institute of Transfusion (AFIT) from 17-19 November 2014 at the helipad ground, NUST H-12 Campus.



Master Ayub: an epitome of compassion

A seminar was conducted by NCSC at SCEE Seminar Hall on the 17th of December, where Master Ayub, a teacher by profession, was invited to talk about his experience of teaching various underprivileged students (free of cost) and how that education helped those children to prosper in their lives. There was also a question-answer session in which he was asked about the motivational factors that kept him going all those years despite the hardships and the support he got from his family members. The event concluded with the presentation of a souvenir to the guest.



Free diabetic tests at village near Isb

The prevalence of diabetes in Pakistan is setting records on a global scale. It is an alarming situation not only for diabetics but also for those who are unaware if they have contracted the 'silent killer.' To address the situation, the NUST community services club joined hands with Saleem Akhtar Trust and set up a free medical camp. On the 13th of December a camp was set up in a village namely Ghungrella which is at a forty-minute drive from Islamabad. All the diabetic tests were run on the patients by Dr. Shahid Nawaz and Dr. Abrar Ahmed.



NCSC Edvolution team launch *Siraat*

NUST Community Service Club (NCSC) Edvolution team launched project *Siraat*, which is a career counselling project aimed towards federal schools and colleges.

Siraat word has been derived from the Arabic language, which means 'Path.' The monumental surge in the career options and ever increasing competition has made career counseling an indispensable pillar of Youth development. *Siraat* is aimed at providing free of cost counselling through volunteers from NUST. The main motto of initiating this project is to enlighten the minds of youth by showing them the right trail, which would lead them to their destiny.



NCSC organizes Wafa Welfare Trust camp at NUST

NUST Community Service Club (NCSC) organized Wafa Welfare Trust camp for orphans at the helipad ground of H-12 campus on 26th and 27th November. The aim of the activity was to raise awareness for orphanages. The trust provides basic necessities of life including subsistence (monthly ration, clothes, hygiene kits); education (including school fee, books, school supplies and two uniforms); health (including medical check-ups and immunizations); social upliftment (through extracurricular activities), and last but not least, child protection rights (including inheritance and family).



Sanitation Festival

The WASH (Water, Sanitation and Hygiene) coalition of Pakistan arranged a mega scale event on the 19th of November, and labeled it as the 'Sanitation Festival' parallel to the World Toilet Day, to raise awareness on Sanitation and Hygiene in Pakistan. The event took place at Lok Virsa, Shakarparian, Islamabad.

The organizations which played a significant role in making the Sanitation Festival a healthy event included: NUST - National University of Sciences and Technology, WSSCC – Water Supply and Sanitation Collaborative Council, AHKM, Plan International, Save the Children, Oxfam, HANDS, RSPN – Rural Support Programmes Network, IRSP – Integrated Regional Support Program, FANSA – Freshwater Action Network South Asia, ACTED - Agency for Technical Cooperation and Development, NRSP – National Rural Support Program, Water Aid, PPAF – Pakistan Poverty Alleviation Fund, PIEDAR - Pakistan Institute for Environment Development Action Research, UN Habitat, UNICEF, HRDS – Human Resource Development Society and Handicap International and AAN Associates.



Teach for a Change – SOS Village Islamabad

'Teach for a Change' is a project under which students of NUST go to SOS Village Islamabad five days a week (i.e. Monday to Friday) for an hour to help girls as well as boys with their homework and studies in two shifts. SOS Village Islamabad is at 10-minutes walking distance from NUST. This project started in mid of December 2012 by a group of NUST students and collaborated with NCSC in 2013.



Spot Fixing: a 10-hour Community Service Activity

The fifth-year students of School of Art Design and Architecture decided to fix a spot. Spot Fixing was an activity of choosing any segment of streets of the twin cities: contaminated pavements, defaced walls, ill-kept dividers etc. that have become an eye sore for the public property, and are continuously being targeted for contamination or are simply being neglected by the authorities. At this point the project participants aimed at stepping in with their tools for not only cleaning up the place but also to enhance its value by painting it.



Students, faculty and staff of all the campuses of NUST are requested to send their Essays, Poems, Book Reviews, Caricatures, Short Stories and Quality Jokes for inclusion in the forthcoming issue of the magazine

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05

NEWS IN PICTURES



▲ Job fair held at NUST Business School



▲ The Pakistani military advisor to our permanent mission in New York receiving the certificate on behalf of CIPS from the representative of ITS UNDPKO



▲ Facsimile of the certificate awarded by ITS, UNDPKO



▲ Projects showcased at CERN Exhibition held on 20th December 2014 at NCP



▲ Entrepreneurship Seminar Series was held at SMME from Sep-Dec, 2014



◀ A renowned scholar from University of IOWA, USA Prof Dr M Asghar Bhatti delivered lectures at SMME CAD/CAM lab from Jan 06 to 08, 2015

▼ SNS hosted a welcome party for the freshman UG batch on 24th November, 2014



▲ Staff Day at SEECS





▲ Phantom of the opera themed welcome party of NUST Business School held at IGIS Ground on Dec 05



▲ A mind-engaging event 'Science of Stupids' held on 20th November, 2014 at SNS



▲ A delegation of students from C³A visited Higher Education Commission, Islamabad and sought relevant information on curriculum development



▲ Students of C³A participated in International Conference on Educational Psychology organized by the National Institute of Psychology, Quaid-e-Azam University, Islamabad

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