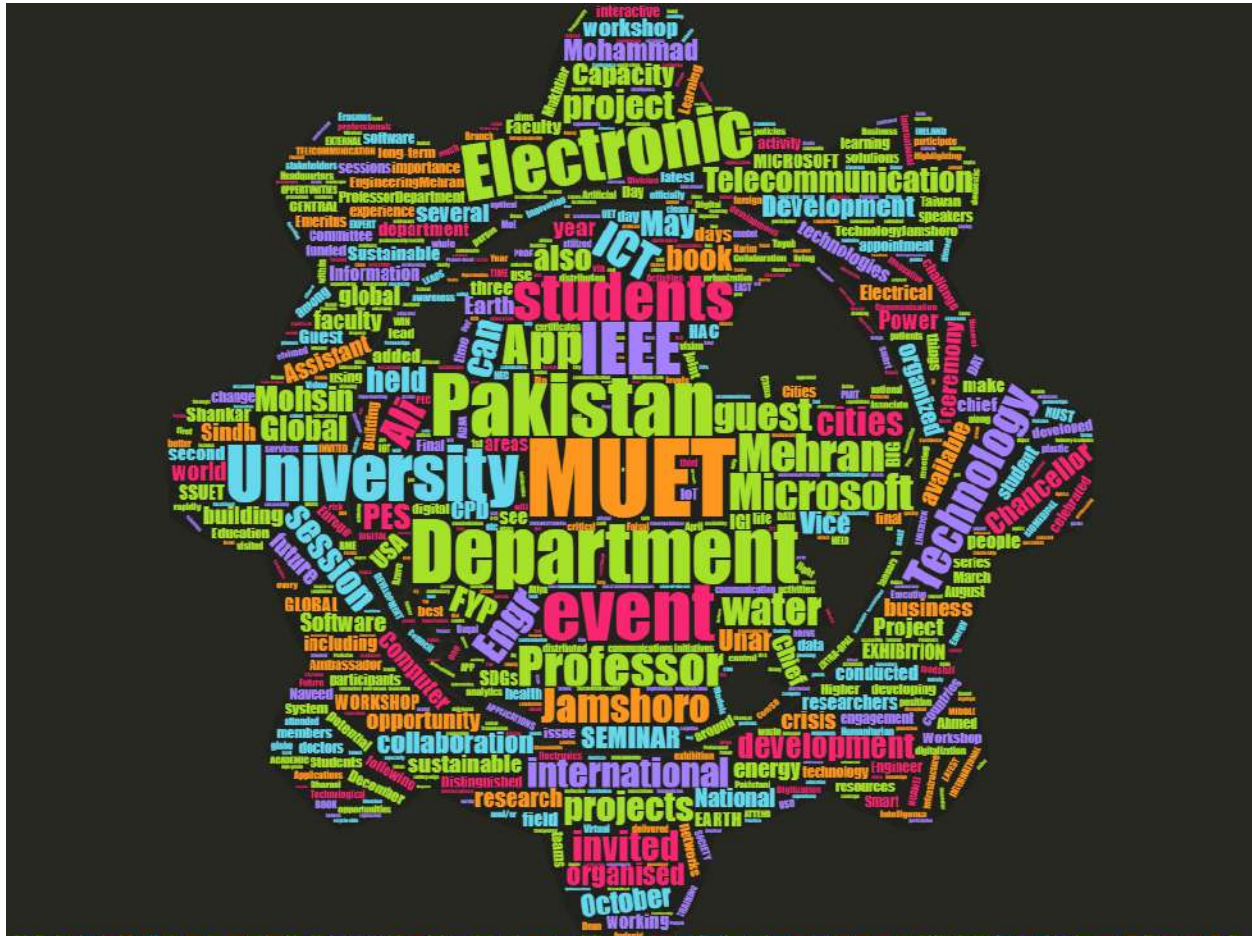# MEHRAN UNIVERSITY
OF ENGINEERING & TECHNOLOGY
JAMSHORO, PAKISTAN

Institute of Information & Communication Technologies (IICT)

Report of activities such as conferences, meetings,

seminars, book publications etc.

2019

ICT Endowment Fund for Sustainable Development

S.No	Name of Event/Seminar/Conference/Activity	Date
1	A SEMINAR ON "PROSPECT FUNDING OPPORTUNITIES FOR FYP"	January 28, 2020
2	SESSION ON "IMPORTANCE OF PATENT IN THE NATIONAL ECONOMY"	January 8, 2020
3	SEMINAR ON IOT AND BIG DATA	December 13, 2019
4	MUET PROFESSORS' LATEST BOOK PUBLISHED BY RENOWNED US PUBLISHER IGI GLOBAL	December 10, 2019
5	MEHRANIANS WIN BIG AT HUAWEI ICT COMPETITION MIDDLE EAST 2019	December 2, 2019
6	GLOBAL MICROSOFT 365 DEVELOPER BOOTCAMP HELD AT MUET	November 15, 2019
7	TRAINING ON MOODLE	November 6, 2019
8	MESSIAH AN APP	October 25, 2019
9	MICROSOFT INVITED MUET'S ASSOCIATE PROFESSOR TO ATTEND AI FOR EARTH SUMMIT IN USA	October 18, 2019
10	BME FYP EXHIBITION	October 16, 2019
11	ES FYP PROJECT EXHIBITION	October 8, 2019
12	ACADEMIC WRITING & PLAGIARISM POLICY SEMINAR	August 24, 2019
13	PYTHON PROGRAMMING	August 20, 2019
14	CPD COURSE ON "ENDNOTE AND MENDELEY"	August 1, 2019
15	INTERACTIVE LECTURE BY AN EXPERT	July 24, 2019
16	WORKSHOP ON PYTHON PROGRAMMING	June 18-19, 2019
17	DR. BS CHOWDHRY APPOINTED 'EXTERNAL EXAMINER' AT UNIVERSITY OF LIMERICK, IRELAND	June 3, 2019
18	FUTURISTIC SOLUTIONS IN BIOMEDICAL ENGINEERING	May 23, 2019
19	IEEE XPLORE DIGITAL LIBRARY WORKSHOP	May 23, 2019
20	ACHIEVED AI FOR EARTH GRANT OF $5,000 USD FOR THE SECOND TIME FROM PAKISTAN	May 23, 2019
21	WORLD TELECOMMUNICATION AND INFORMATION SOCIETY DAY	May 17, 2019
22	MUET DELEGATE PARTICIPATES IN 22ND STRATEGIC WORKSHOP	May 15, 2019
23	MUET AND SSUET LEADS FOR BECOMING PART OF EU CAPACITY BUILDING IN HIGHER EDUCATION	May 2, 2019
24	INDUSTRIAL ADVISORY BOARD (IAB)	April 30, 2019
25	ENGAGING IEEE MEMBERS FOR SUSTAINABLE DEVELOPMENT GOALS AND LEVERAGING TECHNOLOGY	April 22, 2019
26	INTERNATIONAL CONFERENCE ON COMPUTATIONAL SCIENCE AND TECHNOLOY	April 10-12, 2019
27	INTERNATIONAL SYMPOSIUM ON EMERGING TRENDS AND APPLICATIONS OF OPTICS, PHOTONICS AND LASERS (EXTRA-OPAL)	March 11-12, 2019
28	RECRUITMENT DRIVE	March 6, 2019

A SEMINAR ON "PROSPECT FUNDING OPPERTUNITIES FOR FYP"

January 28, 2020

A seminar on "Prospect Funding Oppertunities for FYP" was organised by Department of Electronic Engineering. Seminar was conducted by Dr. Atiya Baqai who talked on the funding oppertunities available for FYPs and faculty researchers and how to submit best grant application forms.

SESSION ON "IMPORTANCE OF PATENT IN THE NATIONAL ECONOMY"

January 8, 2020

An Interactive Session on "Importance of Patent in the National Economy" was delivered by Dr. Mohammad Mohsin Siraj working as a patent attorney in Philips lighting (known as Signify) Organised by Department of Electronic Engineering MUET, Jamshoro. Dr. Mohsin talked on Importance of Artificial Intelligence in all areas especially Biology, Psychology, Agriculture and all other aspects of life. Pro. Dr. Tayab Din Memon Chairman department of Electronic Engineering opened the session and shed some light on importance of machine learning and patents importance in economy of any country, while Prof. Dr. Mukhtiar Ali Unar dean faculty of Electrical, Electronic & Computer System Engineering as a chief guest welcomed the guest speaker for coming all the way from Holland. Dr. Mohsin Siraj is an alumni of MUET, he recieved his bachelors degree from Department of Electronic Engineering, MUET.

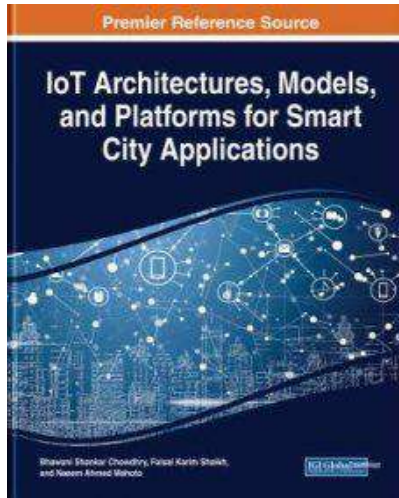# SEMINAR ON IOT AND BIG DATA

December 13, 2019

HSIEN MING HUNG (Mr. Jamie) and CHIEH CHANG (Mr. Julien) Regional Managers of M/S Kandh, Taiwan visited MUET to deliver an interactive talk on IoT and Big Data and the products of Kandh, Taiwan. Students of ES, CS and TL attended the session which was organised by Department of Electronics Engineering Mehran University of Engineering & Technology, Jamshor. At the outset Dr. Mukhtiar Ali Unar, Dean Faculty of Electrical, Electronic and Computer Engineering wellcomed the guests during his wellcome adress.

MUET PROFESSORS' LATEST BOOK PUBLISHED BY RENOWNED US PUBLISHER IGI GLOBAL

December 10, 2019

Faculty members of Mehran University of Engineering and Technology, Jamshoro, Prof. Dr. Bhawani Shankar Chowdhry, Prof. Dr. Faisal Karim Shaikh, Prof. Dr. Naeem Ahmed Mahoto making a contribution to the field of Engineering and Information Technology, edited a book entitled "IoT Architectures, Models, and Platforms for Smart City Applications". The book is published by US publisher IGI Global, a well-known international publisher of information science and technology research.

This book looks at how cities can be built as smart cities within limited resources and existing advanced technologies. Featuring coverage on a broad range of topics such as cloud computing, human-machine interface, and ad hoc networks, this book is ideally designed for urban planners, engineers, IT specialists, computer engineering students, research scientists, academicians, technology developers, policymakers, researchers, and designers. It gives them an overview of the latest research in this rapidly growing field, allowing them to manage the information efficiently.

Editor of this book, Prof. Dr. BS Chowdhry is a renowned scientist and ICT expert, he is working as Emeritus Professor and Advisor at Mehran University of Engineering and Technology, Jamshoro. He has varied experience in diversified fields such as Electronic, Telecommunication, Microprocessor Technology, Internet of Things, Telemedicine, Wireless sensor networks, etc. Other editors Prof. Dr. Faisal Karim Shaikh and Prof. Dr. Naeem Ahmed Mahoto are working as Chairmen of the Department of Telecommunication Engineering and Department of Software Engineering at MUET.

Copy of the book is available online and can be ordered from the official website of IGI Global: https://www.igi-global.com/book/iot-architectures-models-platforms-smart/

MEHRANIANS WIN BIG AT HUAWEI ICT COMPETITION MIDDLE EAST 2019

December 2, 2019

Team Pakistan lead by Neeraj Kumar student of Telecommunication Engineering, MUET along with students of NUST and Virtual University of Pakistan secured the second position, whereas the second team from Pakistan lead by Syed Shameeluddin student of Telecommunication Engineering, MUET claimed the third position in the Huawei ICT Competition Middle East 2019 held at Huawei Headquarters in Shenzhen, China.

The six students representing Pakistani teams were chosen from a field of 150 finalists, who competed following the preliminary round involving more than 12,000 entries from 30 universities of Pakistan. Pakistan's top ICT talents came from Mehran University of Engineering and Technology, NUST, Superior University, and the Virtual University of Pakistan. The shortlisted students were separated into two teams of three to represent Pakistan in the finals. Pakistani teams claimed second and third positions in the

GLOBAL MICROSOFT 365 DEVELOPER BOOTCAMP HELD AT MUET

November 15, 2019

Department of Computer System Engineering in Collaboration with MUET ACM Studenr Chapter organized "Global Microsoft 365 Developer Bootcamp" held at MUET.

TRAINING ON MOODLE

November 6, 2019

Training on Moodle: The Learning Management System organized by MUET with the collaboration of Higher Education Commision Sindh. Chief guest of the ceremony was Prof. Dr. Mohammad Aslam Uqaili, VC MUET.

MESSIAH AN APP

Students from Innovation & Entrepreneurship centre Mehran UET, Jamshoro launched an Android App called "Messiah" with slogan "In Health we trust", where patients can get appointments of doctors from any where around the world. Initially this App has brought around 40 plus doctors from Hyderabad to be available for appointment booking through this App. According to App Authors this App is a kind of first App in this region where patients can easily get appointment via Android App, and this App is very much appreciated by doctors of Hyderabad. Prof. Dr. Mohammad Aslam Uqaili, Vice Chancellor MUET joined the event as a Chief Guest where he inaugurated the App officially. Vice Chancellor said while speaking on the occasion that the future is digital, gone are the days when people have to roam around and kill their precious time for asking an appointment of the doctor. Now a days lot of things are being made available through a click. technology has changed the whole landscape of doing things done, and Mehran is second to none. He further added that I congratulate the IEC and innovators of this App and wish them a good luck.

MICROSOFT INVITED MUET'S ASSOCIATE PROFESSOR TO ATTEND AI FOR EARTH SUMMIT IN USA

October 18, 2019

Microsoft invited MUET faculty member Dr. Mohsin Ali Memon, Associate Professor in the Department of Software Engineering to attend AI for Earth Summit in Washington, USA. Dr. Mohsin Ali Memon, Associate Professor in the Department of Software Engineering was sponsored by Microsoft to attend AI for Earth Summit from 15th to 17th of October, 2019 at Microsoft Headquarters, Washington, USA. At this event, various projects that make use of Artificial Intelligence and Machine learning in agriculture, marine life, biodiversity and climate change using satellite and imagery data were presented. The Microsoft personnel educated the attendees with informative lectures on Microsoft Azure custom vision API, cognitive services, Visual Object Tagging Tool, Microsoft Lobe and gave an insight on how to use them for the betterment of the Earth. Dr. Mohsin Ali also had a chance to see AI for Earth exhibits and the latest technologies at Microsoft Visitor Center.

BME FYP EXHIBITION

October 16, 2019

FYP Examination: A final year project and poster exhibition held at Department of Biomedical Engineering MUET, Jamshoro for the student of 16 Batch of MUET.

ES PROJECT EXHIBITION

October 8, 2019

Final year project exhibition, compitition and priza distribution ceremony organised by department of Electronic Engineering Mehran UET, Jamsoro held at department of Electronic Engineering MUET, Jamshoro on October 07, 2019. Passing out final year students displayed their final year projects. Vice Chancellor MUET Prof. Dr. Mohammad Aslam Uqaili visited to see the projects where he appreciated the talented students specially the best three projects having potential of commercialisation, following a cash prize distribution ceremony to the best three projects and appreciation certificates to the participants of the compitition and organising comiittees.

ACADEMIC WRITING & PLAGIARISM POLICY SEMINAR

August 24, 2019

This seminar was organised by Final Year Project Committee, Electronic Department and the topic presentation was delivered by Dr. Farida Memon.

PYTHON PROGRAMMING

August 20, 2019

Department of Electronic Engineering, MUET, Jamshoro in collaboration with Pakistan Engineering Council (PEC), Islamabad organised a Two days CPD course of 1.5 points on Python Programming at the Computing Laboratory of Electronic Engineering Department. Dr. Shoib Rehman Soomro was the resource person of the 2 days workshop. Professor Emeritus Dr. Bhawani Shankar Choudhry was the chief guest of the opening ceremony of the event.

CPD COURSE ON "ENDNOTE AND MENDELEY"

August 1, 2019

A one day CPD course was held on "Endnote and Mendeley software for referencing and Citation (1.0 CPD Point)" at The Department of Electronic Engineering Mehran University of Engineering & Technology Jamshoro in collaboration with Pakistan Engineering Council (PEC), organised by Department of Electronic Engineering, MUET. Dr. Tayab Din Memon & Dr. Atiya Baqai conducted session as resource persons of the session while prof. Dr. Mukhtiar Ali Unar Dean Faculty of Electrical, Electronic & Computer Engineering inaugurated the event as Chief Guest and shaded some light upon the MUET efforts on providing such valuable courses time to time and also urged students to take most out of the opportunities MUET is providing to their students.

INTERACTIVE LECTURE BY AN EXPERT

July 24, 2019

Under a series of interactive sessions with experts a lecture was conducted by a foreign scholar Dr. Yar Mohammad Mughal, Assistant professor of IT at University of Tartu, Estonia (Europe) on "Prospect Scholarship Opportunities for Research and Collaboration in Europe" held at Audio/ Video Conference Hall of IT building of MUET, Jamshoro. Organised by Department of Electronics Engineering.

DR. BS CHOWDHRY APPOINTED 'EXTERNAL EXAMINER' AT UNIVERSITY OF LIMERICK, IRELAND

June 3, 2019

Dr BS Chowdhry appointed 'External Examiner' at University of Limerick, Ireland

Professor Dr BS Chowdhry, Professor Emeritus/Distinguished National Professor has been appointed External examiner by the University of Limerick, Ireland from 2019 to 2022.

He was recently invited by Dr. Martin Hayes, Head, Department of Electronic and Computer Engineering, University of Limerick, Ireland to visit the Department of Electronic & Computer Engineering, the University Of Limerick for the week of the 3rd June 2019 in his capacity as an external examiner. Professor Chowdhry is the assigned examiner for the program of Mobile Communications & Security program. Prof BS Chowdhry mentioned that it was a great opportunity to meet Prof Dr Martin Margala, Chair Electrical & Computer Engineering University of Massachusetts, USA during the visit of University of Limerick (UL). We both were invited as an external examiner by UL. This includes a meeting of External Examiners with HoD and Course Directors followed by Review of courses, Review of assessments and final year projects, Review of structure and course modules. At the end Feedback and Discussion was carried out. This is the first time that Professor from Pakistan is appointed external examiners to taught a program to provide an independent view and report on students performance, program outcomes and proposed awards. With such visits, one can bring the best experience and practices of Technologically developed countries. ■

Posters, mini project exhibition at Biomedical Engineering Dept MUET

By Khushboo Danish

A mini-project and posters display exhibition under the title 'Futuristic Solutions in Bio-medical Engineering 2019' was held at Biomedical Engineering Department, MUET Jamshoro.

The students of 17 and F16 batches pre-

The students shared their ideas with Dr. Mohd Aslam Uqaili, Vice Chancellor, Prof. Dr. Tauha Hussain Ali, Pro-Vice Chancellor, Dr.Mukhtiar Ali Unar Dean FEECE Faculty, Dr.Zulfiqar Umrani (Manager, IEC) and others.

A special jury was assigned the task of projects review for marking as per categories.

A huge number of professors and teachers from the university and also from other cam-

sonic Glasses for blinds, Estimation of Protein Concentration using Color Sensor, IOT based heart rate monitoring, Laser following robot for disabled, Intelligent Tele-robotic system for health care operations and Hand gesture-controlled wheelchair.

Two of the projects presented in this exhibition by 2nd-year students of 17 Batch were selected as Startup business program and received a cash amount of Rs.600,000 by

for funding of such start-ups and FYPs.

Moreover, Top 3 projects and posters were also awarded shields and cash prizes. Other participants also received the certificates.

Dr.Mukhtiar Ali Unar, Prof. Dr. Bhawani Shankar Choudhary and Dr. Ahsan Ahmed Ursani talked about the importance of practical learning of theoretical concepts.

The top 3 positions in Project category

sented novel ideas through their projects while the students of batch 16 presented their posters.

The prime purpose of the exhibition was to encourage practical skills along with academic studies. The students supervised by teaching staff came up with some great ideas and enhanced their learning capability for field related tasks.

puses visited the exhibition and appreciated the ideas.

The projects were based on Smart Cane for blind people,

Home Automation, Bernoulli's Flow demonstration,

Autonomous Control of Ventilations using Ambu-Bag, Digital Microscope, Special Ultra-

RINU MUET, a government-funded program for student's FYPs and Startup business).

The winners included Smart Blind Walking Stick by Khushboo Danish and Estimation of Turbulence in fluid flow in a pipe using optical sensor by Noor Hassan Jamali.

Dr. Zulfiqar Umrani (Manager, IEC) suggested the students apply to RINU Co-Hort

were: Estimation of Turbulence in fluid flow in a pipe using an optical sensor (17 Batch), Smart Blind Walking stick (17 Batch) and Estimation of protein concentration using a color sensor (Fall-16 Batch). (The writer is a 2nd year undergraduate at Biomedical Engineering Dept, MUET and an ambassador of ER) ■

IEEE XPLORE DIGITAL LIBRARY WORKSHOP

IEEE Xplore Digital Library Workshop at Mehran

IEEE organized an awareness session of Xplore Digital Library Workshop in Mehran University of Engineering and Technology (MUET) Jamshoro.

Around 50-60 students participated in this event which was conducted by Mr. Mumtaz, Library Assistant. The Key points of this event were spreading awareness as regards exploring IEEE Digital library for research paper publications and its benefits.

The students also learned about challenge management and awareness.

Meanwhile, students explored the IEEE website and got the experience of searching for research papers related to their academic interests.

The second part of this event was for IEEE membership and benefits conducted by Jitender Dharani (Chair, IEEE MUET). It covered issues like IEEE collabo-

ration, membership fees, and benefits for being part of it.

The participants said they learned about the digital library and its benefits relating to their studies, projects and research area. They

got knowledge about IEEE collaboration and its key benefits. They looked forward to participation in various opportunities under the forum of IEEE.

A participant said: Such a pleasant experience for me to attend IEEE's workshop as it helped me in learning about aspects and ben-

efits of IEEE's library and its applications which will surely prove to be fruitful for me in the future.

Mehran University which ranks among top ten engineering institutions of Pakistan has IEEE's active presence with the active participation of students from various departments such as Biomedical Engineering, Electrical Engineering, Electronics Engineering, and Software Engineering.

Students play an active role in IEEE activities by organizing various events related to research paper publications, IEEE celebration day, FYP Exhibition and international conferences.

IEEE provides various opportunities to students related to their studies, research paper publications, knowledge about developmental technologies, etc. It also provides exposure to volunteering and organizing events and conferences that enables them to have multi-dimensional skills.■

ACHIEVED AI FOR EARTH GRANT OF $5,000 USD FOR THE SECOND TIME FROM PAKISTAN

May 23, 2019

Predictive analytics using artificial intelligence for the arsenic levels in water, their exposure to foodstuff and health risk appraisal for Pakistan

In Pakistan, people living in villages and rural areas are consuming ground water for drinking, agriculture and domestic purposes because clean river water is not accessible to them. As toxicity is mostly found in ground water and transported to human beings by ingestion, crops, vegetables, fruits and fishes. This project addresses the challenge of predicting the rise in As levels contamination in water and foodstuff in the respective areas. The developed model based on various regression algorithms could be analyzed and its effects on human health can also be determined in terms of health risk factor. We see this opportunity to access Microsoft Azure's cutting-edge resources as a critical step toward helping the Government in improving the quality and availability of clean water supplies in the selected areas of Sindh and Punjab provinces of Pakistan. We hope that our project seeks to improve this process by working with Azure and collaborators from Microsoft.

Investigators

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WORLD TELECOMMUNICATION AND INFORMATION SOCIETY DAY

May 17, 2019

Department of Telecommunication Engineering celebrates "50th anniversary of World Telecommunication & Information Society Day" on 17 May 2019 This year, theme of 2019 is "Bridging the standardization gap" As this event is celebrated with notion of spreading awareness about the activities of Telecommunication community world wide and worthy speakers are invited from Industry and faculty to highlight progress under given theme The events Chief guest was Prof. Dr. Khan Mohummad Brohi, DEAN Faculty of Civil and Architecture and Guest Speakers were Mr. Imdad Ali, Director General PTA (via Video Link) and Engr. Mehran Memon, Assistant Professor, Telecom Engg, MUET. By taking the opportunity of event, different awards and certificates were distributed, among the highlights were 1st Position secured by Final Year Students under supervision of Engr. Saima Hafeez and Engr. Komal Memon. Certificates were distributed among Teaching Assistant (TA) and Course Participate of RF Planning and Optimazation lead by Engr Yahya Hussain (Telenor RF Engineer)

MUET DELEGATE PARTICIPATES IN 22ND STRATEGIC WORKSHOP.

May 15, 2019

Vice Chancellor MUET Prof MA Uqaili and Distinguished National Professor BS Chowdhry were invited by the University of Malaga Spain to participate in Strategic Workshop Global Cities Digitization.

MUET has developed several international collaboration through European Union Erasmus Mundus and International Credit Mobility Program and has been successful in winning several EU projects including Capacity building in Higher Education. More than 150 undergraduate, masters, Ph.D. students, and faculty members have benefitted under such fully funded EU programs.

There were several technical sessions and a series of meeting regarding our on-going and upcoming EU funded projects to do future planning as focal/lead persons from Mehran University of Engineering and Technology. Highlighting the importance of Workshop on 'Global Cities Digitization', Prof MA Uqaili told that Digital technologies are reshaping the cities from the original to a virtual world.

Digitalization or digital transformation is the focal priority of the present and future agenda or policies within the national and international platform. The inherent and forthcoming challenge of the 21st century is to high-grade people way of living in cities, and the idea of digitalization and urbanization is inaugurating an innovative horizon for sustainable infrastructure and stable economic development for the global cities.

Information and Communication Technologies (ICT), big data analytics and internet of things (IoT) are impersonating a floor for intelligent data generation to manage long-term settlements, planning and sustainable infrastructure for digital business and smart cities following initiatives. Prof BS Chowdhry, Distinguished National Professor and Lead person of EU Erasmus programs at MUET mentioned that Global cities digitalization is also putting some new humane questions, and dilemmas concerning privacy, safety, and security.

There is a need for a clearer vision at the global level for the development of healthy competition throughout the cities of the globe which require the real potential of urbanization to experience shared accomplishment and exterminate poverty.

The critical barrier here is to see for a collective negotiation among stakeholders, local population and business associations for developing transparency in policies, communication, and mutual partnerships. The workshop focused on several themes such as GCD Concept, Vision and Smart Innovation, Digital Business Models for Smart Cities, Technological Platform Paradigm andGlobal Partnerships, Security, Policies and safety Standards, Future Global Strategies and Project Proposal Discussions.

Renowned experts and professors from Germany, Italy, Denmark, Finland, Norway, Pakistan, Spain, Bulgaria, Macedonia, Japan, Taiwan, USA, China, France, India, and Sweeden participated in the workshop. The recommendations of the workshops will be submitted as a white paper to European Commission for developing collaborative projects.

MUET AND SSUET LEADS FOR BECOMING PART OF EU CAPACITY BUILDING IN HIGHER EDUCATION Project

May 2, 2019

MUET and SSUET Leads for becoming part of EU Capacity Building in Higher Education Project:MUET and SSUET Delegates participates in the 1st CENTRAL project meeting in Thailand held at College of Arts, Media and Technology (CAMT) , Chiang Mai University (CMU) having the Theme: "Integration of ICT Tools in Innovative Educational Practice & Business Modeling" to reflect on the joint long-term persistent endeavors to reveal the full potential of robust communication techniques, networks, systems, and services to provide capabilities that will revolutionize the global use of ICT in education, finally for business incubation. CENTRAL (Capacity building and ExchaNge towards attaining Technological Research and modernizing Academic Learning) aims at developing and implementing academic educational curricula with an international orientation in content and/or form, aimed at preparing students for performing (professionally/socially) in an international and multicultural context and designed for domestic and/or foreign (international) students. CENTRAL is aimed at enabling employability, internationalization and interdisciplinary engagement of students and graduates, as well as research staff. Three countries of Europe and three countries of Asia including Pakistan are the partners of a consortium of this one million Euros project. Professor Chowdhry, Coordinator from MUET informed that the project also aims the development of ICT and skill-based curriculum as per needs of stakeholders:
• Development of Online Project-based Learning model and software usable for all partner HEIs
• Development of mutually beneficial business training module, business models and joint ventures.
• Conversions of Ideas into innovative products leading to joint research and publications.

ENGAGING IEEE MEMBERS FOR SUSTAINABLE DEVELOPMENT GOALS AND LEVERAGING TECHNOLOGY

April 22, 2019

(A capacity building workshop for promoting IEEE PES HAC)

A dream to achieve SDGs, a wonderful opportunity for learning global development with community action, SDGs Prmotions, Leveraging Technology and continuing the chain of sustainability for IEEE PES HAC funded event series. On April 22nd, 2019, IEEE MUET Student Branch organized once again a Capacity building event in collaboration with the IEEE PES Humanitarian Activities Committee. This event was led by Engr. Jatendar Dharani being IEEE PES HAC Ambassador. The event was attended by 100 participants including IEEE members. The One-Day event was comprised of several sessions including a Capacity Building interactive workshop, IEEE PES DAY 2019 Celebrations, a session on Industry-Academia engagement and the themed activity Sustainable Development Drive (A recycle Project). The event was commenced by the welcome address of Prof. Dr. Asif Ali Shah (Branch Counsellor IEEE MUET). For the introduction about project Engr. Jatendar Dharani (IEEE Power & Energy Society Day Ambassador 2019/ IEEE Power & Energy Humanitarian Activities Committee Ambassador) was invited. The first session titled, "Role of Young Professional Engineers in Achieving UN Sustainable Development Goals through Capacity Building & Leadership Training" was conducted by Engr. Naveed Ahmed Unar (Assistant Executive Engineer (GSO) at National Transmission & Dispatch Company Limited, MoE, Power Division, Pakistan). The session was followed by another session tilted "IEEE PES HAC initiatives and SDGs promotions", addressed by Professor Emeritus/Advisor MUET Prof. Dr. Bhawani Shankar Chowdhry The Workshop in Sustainable Development brought together the knowledge and theories that students have gained in the classroom and gives them the opportunity to apply them to craft every day, practical solutions.

2nd PES Global Day was celebrated at MUET with the slogan "More Power to the Future". Prof. Dr. Bhawani Shankar Chowdhry Distinguished National Professor, Professor Emeritus, MUET, Engr. Naveed A Unar, Assistant Executive Engineer (GSO) of NTDC. MoE, Power Division Pakistan were the guest speakers of the event.

Prof. Dr. Mohammad Aslam Uquaili Vice Chancellor MUET graced the event as Chief Guest. The celebration was officially marked by a cake cutting ceremony by the chief guest Prof. Dr. M. Aslam Uqaili, Vice Chancellor MUET along with guest speaker Engr. Naveed A Unar. The chief guest of the event Prof. Dr. Muhammad Aslam Uqaili while addressing the participants/guests said that for sustainable development every single of us should make an effort. Highlighting the issue of the energy crisis, he further added we can minimize the energy

crisis if we try to control our daily unwanted expenditures. For concern water issue, the whole world is facing a water shortage crisis. But as much water is utilized in an ineffective way here is not like in developed countries. He further added a solution for energy crisis by saying that if we adopt solar energy and other renewable energy resources that we can overcome this problem. He advised that if we make precaution in waste usage of electricity then we can control the shortage of it. He further added that Climate change is the most significant challenge to achieving sustainable development and nowadays, we have never had better know-how and solutions available to avert the crisis and create opportunities for a better life for people all over the world. Climate change is not just a long-term issue. It is happening today, and it entails uncertainties for policymakers trying to shape the future, therefore, the engineers are playing a key role in sustainable development. The UN SDG Action Campaign strives to be a catalyst for the global movement for the SDGs by offering awareness raising, communications, innovation and citizen engagement solutions to partners across the globe. As it was Earth day being celebrated globally so, an activity named "Recycle Project" was launched and executed successfully. This activity involved the participants to have hands-on experience by using recycle-able plastic waste to make it useful and environment-friendly. They utilized the used plastic cold-drink bottles and planted trees in it.

INDUSTRIAL ADVISORY BOARD DIALOGUE

Second meeting of the Industrial Advisory Board (IAB) for the Department of Electronic Engineering was held followed by the formal DIALOGUE between final year students of the department and members of the IAB who are working at very senior positions in very well reputed organizations including SUPARCO, OMV, British Petroleum, NESCOM, Peoples STEEL and Cybernet. Dr Tayab elaborated the importance of Outcome Based Education (OBE), its continual quality improvement (CQI) cycle, and its emphasis on Industry-Academic collaboration. He advised that students should change their perception of rote learning and focus more on creative ways of study, while, he said, and that industry should come forward and play its role in imparting the required soft and hard skills among the students. The keynote speech was followed by a fruitful and constructive question and answer session between the experts and final year students of Electronic Engineering department. Students were given an opportunity to engage with the visiting delegation and ask their queries ranging from job market requirements to the future trends of Electronics. This was largely a candid discussion of the experts with students, who shared their diversified experience while answering to the students' queries. Attitude and skills have more weightage in the contemporary world that should be demonstrated in full confidence while appearing in interview was the answer by one of the representative. The session was ended by a truly motivating and thought vote of thank by Prof. Dr. Mukhtiar Ahmd Unar, the DEAN FEECE.

MUET WINS

Isra University Hyderabad organized a Grand Finale of Business Plan Competition - 2019. It was a national level contest to inspire innovative entrepreneurship ideas for venture funding and business growth. After excessive rounds of short listing, only 17 teams out of 59 teams were shortlisted and were able to present their ideas in the final round. The respected judges awarded 1st Prize to the startup team of MUET entitled as "Turning The Textile Trash into Cash".

COMPUTATIONAL SCIENCES AND TECHNOLOGIES

1st international conference held on Computational Sciences and Technologies with the slogan "Engineering, Science and Technology at the Intersection of solving problems to humanity" organized by Dept. of Computer System Engineering & Software Engineering in collaboration with HEC. Founder of COMSATS Islamabad Dr. Mohammad Junaid Zaidi was the chief guest in the Opening ceremony. Prof. Dr. Mohammad Aslam Uqaili along with Prof. Dr. Tauha Hussain Ali inaugurated the conference proceedings. A number of national and international scholars presented their respective research papers.

CAREER GUIDANCE SEMINAR

Office of the Advisor Students' Affairs MUET organized a "Career Guidance" seminar for the students of Mehran University. Pakistan Air Force (PAF) Wing Commander Dr. Nasir Majeed briefed about a career in PAF as an Engineer, followed by a question-answer session. Prof. Dr. Tauha Hussain Ali joined the session as a Chief Guest. Dr. Tanveer Hussain Director Advisor Students' Affairs presented a vote of thanks to the guest speaker on their valuable information on the given topic.

WORKSHOP ON PYTHON PROGRAMMING

Considering the importance of Python programming in various areas of sciences in engineering, the Electronic Engineering Department, Mehran University of Engineering and Technology, Jamshoro organized three days interactive short course on Python programming during 18-20 June 2019. The course was conducted by the indigenous trainer Dr. Shoaib Rehman Soomro, assistant professor from electronic engineering department, MUET, Jamshoro and was attended by the undergraduate and postgraduatestudents of various departments, including electronics, telecommunication, biomedical, software and mechatronics. Dr. Tayab Din Memon Chairman Department of Electronic Engineering welcomed all students and formally opened the short course. He also appreciated passion of participating students for learning python programming. He also thanked Dean FEECE to take out time from his busy schedule to attend the event. The dean FEECE, Prof. Dr. Mukhtiar Unar was the chief guest in the opening ceremony. In his speech, Prof. Dr. Mukhtiar Unar discussed the importance of open-source freeware tools in general, and python programming in particular. He emphasized that the increasing cost of computational tools for engineering and sciences is limiting the students and scientists of the developing nations such as Pakistan to have access to high-endresearch tools. In one of the examples, he compared the cost of famous MATLAB licenses and its multiple toolboxes with the free and open-source libraries of Python. Prof. Dr. Unar also appreciated the motivation of the participating students, who took out the time from their vacations for learning this new tool. In last, Prof. Dr. Unar also appreciated the efforts of the chairman electronic engineering department and his team for initiating, planning, organizing and successfully conducting the course.

NATIONAL CENTRE OF ROBOTICS & AUTOMATION (NCRA)

Higher education Commission has notified approval of the National Centre of Robotics & Automation (NCRA) which is designed to create national capacity in key emerging areas of science and technology that have received a lot of attention and focus in the recent years and where a bit of investment and focus may create a competitive advantage for Pakistan. The Project is mainly focused on R&D and human resource development in the specialized field of Robotics and Automation and its practical applications, which are important components of Vision 2025. Besides R&D and HR development, the center will provide ecosystems which will enable startups in the domain of robotics, AI and automation. For the industry, it will provide technology and consultation to shift to industry 4.0. MUET has become partner University to establish "Condition Monitoring Lab" under National Centre of Robotics & Automation (NCRA). First of all, indigenous development of technology driven solutions saves us from import cost and improves overall industrial performance and quality. Secondly, new opportunities emerge while developing solutions are provided locally.

INTERNATIONAL SYMPOSIUM ON EMERGING TRENDS AND APPLICATIONS OF OPTICS, PHOTONICS AND LASERS (EXTRA-OPAL)

March 11-12, 2019

NUST School of Electrical Engineering and Computer Science (SEECS) in collaboration with MUET and ITU organized a 2-day International Symposium on Emerging Trends and Applications of Optics, Photonics and Lasers (ExTRA-OPAL) at NUST H-12 campus on March 11-12, 2019.

Leading national and international researchers were invited to present state-of-the-art technologies and developments in the fields of optical communications and optical devices. The symposium invited presentations and contributed talks from world-class invited speakers and researchers. Local industry professionals were also invited to participate in panel discussions.

This event also provided an opportunity for young professionals to learn from the leading international authorities about the latest developments and future trends related to rapidly expanding the field of integrated photonics and emerging quantum optics applications.

RECRUITMENT DRIVE

Colgate Palmolive pvt (ltd) organized a recruitment drive through Office of student Affairs, MUET at the department of software engineering.