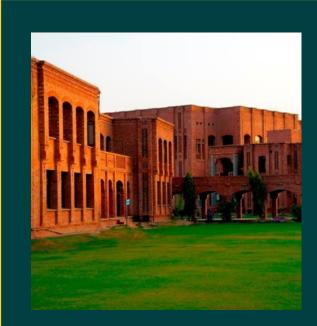


NEWSLETTER ELECTRICAL AND COMPUTER ENGINEERING DEPARTMENT

FALL 2022





OUR MISSION

To prepare competent electrical and computer engineering graduates conscious of professional ethical and social responsibilities for productive engineering careers in industry, academia, and research both locally and abroad.

OUR VISION

To be recognized globally as one of the leading departments of engineering education

WHAT'S INSIDE THIS ISSUE

ECE DEPARTMENT

FALL 2022

- Industrial Tours
- Seminars and Workshops
- ROBOFEST
- Student Week
- Convocation
- Orientation
- FIT Conference
- List of Publications
- 4th IAB Meeting ECE Dept, CUI Lahore
- Approval of new Masters Programs
- Welcome/Farewell Party
- Mr. Usman lqbal PHD Defense
- MS Graduate Students Fall 2022

MESSAGE FROM DRECTOR

PROF. DR. SYED ASAD HUSSAIN

I welcome you on behalf of the faculty and staff. These are exciting times for electrical and computer engineers as the discipline is now widely recognized as an essential source of tools and techniques for advancements in nearly all spheres of human endeavor. Our students get competitive skills in effective development and application of modern technology. We see our students as excellent engineers, outstanding researchers, extra ordinary analysts, and innovative designers. We are aware of everyday breakthroughs in modern technology and committed to equip our students with advanced competencies required to manage the growing needs of sciences and technology; in almost every professional field today. Research activities have been given high priority within the department resulting in a high quality of research publications. The Department of Electrical and Computer Engineering offers competitive degrees in rapidly expanding areas of study.

Our qualified faculty and excellent facilities ensure that students have a solid technical grasp on different subjects to apply this knowledge in practical work settings. Our prolific linkages with the Higher Education Commission, Ministry of Science and Technology and leading universities of the world help us keep up-to-date with new policy initiatives and market driven incentives being unrolled by the government and private sectors.

MESSAGE FROM THE HEAD OF DEPARTMENT

I feel honored to lead the Department of Electrical and Computer Engineering (ECE) as Head and welcome all newly admitted students in various programs of the department at both undergraduate and graduate levels in Fall 20 and SP 21 semesters. Electrical and Computer Engineering (ECE) is one of the largest departments of COMSATS University Islamabad (CUI), Lahore Campus and occupies a central place in major activities at the campus. We are striving to achieve this objective by imparting rigorous and quality education to our stellar students and engaging our faculty and research groups in the cutting edge fields of the research. The degree programs offered at the department have a balanced mix of theory and practical work in the laboratories. The theory courses are taught by our excellent, highly gualified and trained faculty. For the practical work, the department has a number of laboratories with the services of dedicated Lab Engineers which are fully equipped with modern and state of the art tools needed by the undergraduate and graduate students to learn, practice and enhance their practical skills towards engineering education. All the degree programs currently being offered both at undergraduate and graduate levels are recognized by the Higher Education Commission (HEC), Islamabad Pakistan and Pakistan Engineering Council (PEC), Islamabad.

Our graduate students currently enrolled in Master's and PhD degree programs are very much involved in carrying out research activities with these research groups under the guidance of their research Supervisor towards pursue of their degrees.

I would like to assure the parents of our students that Department will take all possible steps to ensure the safety and well being of our students currently enrolled at our various programs. We (the faculty) are also deeply committed to inculcate in our graduates the essential skills and professional talent that helps them to meet the needs of the fourth industrial revolution as well as impart industry and market relevant education which may bring laurels to their adopted future careers.

In conclusion, please join us on our exciting journey into realizing your highest potential towards becoming academic leaders in Pakistan and South-East Asia . I pray to Almighty Allah (SWT) for assistance in our future endeavors and look forward towards glorious achievements in the times to come with our team work efforts.



Engr. Dr. Ejaz A. Ansari

AN EDUCATIONAL TRIP TO THE MANGLA POWER STATION

The students of **Bachelors** in Electrical Engineering visited the Mangla Power Station.Objective of this visit was to provide students with insight of generation of hydroelectricity, turbines. transformers, switch yard, hightension distribution lines and the relevant equipment.



VISIT TO NOOR TEXTILE LAHORE

The students of Bachelors in Electrical Engineering visited the Noor Textile industry Lahore. Objective of this visit was to provide students with the insight of contemporary technology being used in the designing and implementation of Textile industry and related domains.

VISITS TO THE 220 KV GRID STATION, SARFRAZNAGAR

The students of Bachelors in Electrical Engineering (Power) visited the site of 220 KV grid station, Sarfraznagar. Objective of this visit was to provide students with insight of power transmission and distribution from high-voltage lines to the 11 KV feeders and the relevant power equipment such as autotransformers, CTs, circuit breakers, surge arresters and busbars etc.

VISIT TO JAZZ NOC, LAHORE

The COC arranged an industrial visit to the Jazz/Mobilink NOC on Tuesday, November 08, 2022, for the students of FA19-BEE-Telecommunincation. 24 students visited the site along with faculty members. The students were taken to the NOC, where they were given a brief overviewabout the NOC and their working environment. The students were also taken to the NOC real-time data monitoring facility.

TRIP TO THE PRODUCTION SITE OF OUTFITTERS

The students of Bachelors in Electrical Engineering visited the factory production area. Objective of this visit was to provide students with insight of machinery involved in the production and the industrial automation process.

TRANSFOPOWER INDUSTRY (PVT)

Thursday 26th and 27th Oct

Industrial 2 tours were arranged for semester 5 and semester students 7 at transfopower



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tactical methods of teaching. Industrial visits provide students with a chance to meet industry leaders, professionals, entrepreneurs, policymakers, and corporates who share their wisdom. learning, and experiences. Transfopower Industry (Pvt) Limited is a leading company in Pakistan's transformer manufacturing sector. Established in 1990 by a team of engineers who literally pioneered transformer manufacturing and design in the country. The students of FA19 BEE and FA20 BEE power batch visited this industry on 26th and 27th October, 2022 respectively.

Transfopower Industry (Pvt) Limited is a leading company in Pakistan's transformer manufacturing sector. Established in 1990 by a team of engineers who literally pioneered transformer manufacturing and design in the country.



INDUSTRIAL TOURS

GRID STATION VISIT

SKI

Wapda Town H Block Grid Station visit for final year Power Specialization Students



INDUSTRIAL TOUR TO MOBILINK

Venue: Mobilink Head office, Quaide-Azam Industrial State, Lahore. Day & Date: Tuesday, November 8, 2022

Person in industry: Mr. Usman Ikram Manager (NOC) and Mr, Aftab Paul Engineer (NOC).

Program and Batch: BEE(T)-FA19 [24 students]



M XX M

An industrial tour was organized for the students of BEE (Telecommunication) section. The students reached the Mobilink office at 12:00 Hrs along with the respective faculty members. The faculty and students were received by our Alumni Mr. Aftab Paul. After few official procedures, students were taken to the NOC, where they were given a brief presentation by Mr. Muneeb about the NOC and their working environment. The students were also taken to the NOC real time data monitoring facility, where they were again briefed about the monitoring and handling of network in real time. At the end, souvenirs were presented to Mr. Usman and Mr. Aftab by Dr. Mujtaba as a token of thanks.



INDUSTRIAL TOURS

SHORT VISIT REPORT

Faculty member to visit with: Dr. Mujtaba Hussain Jaffery, Mr. M. Hassan Aslam and Mr. Nesruminallah



REPORT ON VISIT TO THE TECHNOCRAFTS PVT, LAHORE

MA X MA

The COC arranged an industrial visit to the Technocrafts Pvt, Lahore on Monday, September 26, 2022, for the students of FA20-BEE-Electronics. 32 students visited the site along with faculty members. The visit was intended to provide students with opportunity to see the working of aerial vehicles and the role of electronic control system in their flight path management.

INDUSTRIAL TOURS

AN EDUCATIONAL TRIP TO THE FIELD SITE OF ZONG TELECOMMUNICATION

The students of Bachelors in Electrical Engineering (Telecommunication) visited a field site of Zong situated in Lahore.Objective of this visit was to provide students with insight of Base Transceiver Station, its main components, and related details of its operation.





WHAT IS ENTREPRENEURSHIP?

INSTRUCTOR: MR SAJID CHOHAN (SALES COACH, TRAINER & BUSINESS CONSULTANT) FOCAL PERSON: MIAN AHMED YASER(0333 4705224) TIME: 10:00-11:30 AM DATE : NOVEMBER 2, 2022 VENUE: A BLOCK SEMINAR HALL AUDIENCE: FA19-BEE, FA19-BCE, FA20-BEE, FA20-BCE





Seminar on ENTREPRENEURSHIP AND INTRAPRENEURSHIP

COMSATS UNIVERSITY ISLAMABAD, LAHORE CAMPUS Department of Electrical and Computer Engineering

TOPICS:

- WHO IS AN ENTREPRENEUR ?
- WHO IS AN INTRAPRENEUR ?
 - ENTEERPRENEUR VS
- HOW DO THEY DIFFER?
- WHAT ATTRIBUTES DO THEY SHARE?



"Entrepreneurship and Intrapreneurship" by Mr. Sajid Chohan

A Seminar on the subject title under CoC was held today 02nd November 2022 10:00-11:30 AM in the A block seminar Hall. This seminar was attended by FA19-BCE, FA19-BEE, FA20-BCE and FA20 BEE batches. The presenter of this seminar was Mr Sajid Chohan who is an experienced sales and marketing coach having worked on senior positions in Industry in the domestic sector as well as abroad.







INSTRUCTOR: M. HASSAN ASLAM(LECTURER) mhassanaslam@cuilahore.edu.pk https://sites.google.com/ciitlahore.edu.pk mianhassanaslam/ TIME: 10:00-11:30 AM DATE : OCTOBER 12, 2022 VENUE: A BLOCK SEMINAR HALL AUDIENCE: FA19-BEE, FA19-BCE, FA20-BEE, FA20-BCE





Seminar on

MOBILE APPLICATION DEVELOPMENT FOR ENGINEERS USING MIT APP INVENTOR

Arranged by: Collaboration and Outreach Committee Department of Electrical and Computer Engineering COMSATS UNIVERSITY ISLAMABAD, LAHORE CAMPUS

TOPICS:

WHAT IS MIT APP INVENTOR?

- INTRODUCTION AND BRIEF HISTORY
- FEATURES AND REQUIREMENTS
- MIT APP INVENTOR AND STANDARD DEVELOPMENT TOOLS

HOW TO BUILD APP USING MIT APP INVENTOR?

- DESIGN
- FUNCTIONALITY
- TESTING/EMULATING DEVELOPMENT OF SMALL

APPLICATION

REQUIREMENTS: LAPTOP, MOBILE PHONE (ANDROID) AND INTERNET CONNECTION



Mobile Application Development for Engineers using MIT App Inventor

The COC arranged a seminar on October 12, 2022, on "Mobile Application Development for Engineers using MIT App Inventor". This seminar/workshop was primarily conducted for the 6th and 7th semester students of ECE dept. to help them develop mobile apps for their FYPs and semester projects. Seminar was conducted by Mr. Hassan Aslam, Lecturer, ECE Dept.

ORGANIZED BY:

COC ECE DEPARTMENT

CUI LAHORE



SPEAKER NAME: MUHAMMAD ALI AZAM CEO(OIFA SOLUTIONS & AA FREIGHTS)

ENGR. ATTA UR REHMAN FOUNDER AA FREIGHTS

- Python & BCI
- Python is an interpreted high-level programming language for generalpurpose programming
- Created by Guido van Rossum and first, released in 1991, Python has a design philosophy emphasizing code readability and a syntax that allows programmers to express concepts in fewer lines of code, notably using significant whitespace, provides constructs that enable clear programming on both small and large scales.

A- BLOCK SEMINAR ROOM COMSATS LAHORE Resource person : DrZaid Ahmed 0321-1335337 Focal person : Mian Ahmed Yawe 0333-1703224

14-DEC-2022 10:00 to 11:30



PYTHON FOR ENGINEERS EXAMPLE FROM COMPUTER BRAIN INTERFACE

S EM IN AR O N



WHO SHOULD ATTEND:

- OPEN FOR ALL
- MANDATORY FOR 7TH SEMESTER STUDENTS OF BCE AND BEE

PRE REQUISITES:

 BASIC PROGRAMMING SKILLS C++, MATLAB

> CO-HOSTED BY: IEEE CUI Lahore

Department of Chemical Engineering COMSATS University Islamabad (Lahore Campus)

presents

RESEARCH WORKSHOP

on

How to Write an Effective Literature Review for Synopsis/Thesis/Research Article

by

Dr. Aqeel Ahmed Bazmi Chairman, Department of Chemical Engineering, CUI Lahore

26TH OCTOBER, 2022

2:30 pm - 4:00 pm (PST)

Seminar Room, A Block, CUI Lahore

<u>ع</u>

venue

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digi{x}valley CAREER DEVELOPMENT SEMINAR

CAREER COUNSELLING IN ADVANCE TECHNOLOGIES

WHAT YOU WILL LEARN

- OPEN LIBRARY FOR ARTIFICIAL INTELLEGENCE AND MACHINE LEARNING
 - ADVANCED PROGRAMMING LANGUAGE IN EMBEDDED SYSTEM
- INDUSTRIAL PROJECTS USING EMBEDDED SYSTEM •
- CAREER GROWTH IN SOFTWARE DEVELOPMENT TIPS TO MAKE PROFESSIONAL RESUME & LINKEDIN PROFILES •

E PROFESSIONAL RESUME & LINKEDIN PROFILI

TUESDAY

DECEMBER 13 09:00 AM ONWARDS AT SEMINAR HALL A BLOCK COMSATS LAHORE COMSATS UNIVERSITY

LAHORE

DR. MUHAMMAD YAQOOB JAVED ASISSTANT PROFESSOR COMSATS UNIVERSITY

CONTACT

0305-4778908

AAD NAJMI

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Proposal Writing for Final Year Project

The COC arranged a seminar on September 28, 2022 on "Proposal Writing for Final Year Project" for the 6th semester students of ECE dept. Seminar was conducted by Dr. Jahangir Arshad, Assistant Professor, ECE Dept. Dr. Jahangir highlighted the main points that are mandatory to be included in the proposal and the significance of this official document for the execution of an FYP.

KYC-First Seminar on Entrepreneurship

COC arranged a seminar on Entrepreneurship on 26th October 2022. Mr. Yasser Arafat of 'KYC-first' introduced his company and the opportunities for internship at his platform. He then invited CEOs working in building electrification, renewable energy, ERP implementation and digital marketing



BASED ON WIND FARM DESIGN AND COMMISSONING

THURSDAY DECEMBER 22

4:00 PM ONWARDS AT SEMINAR HALL A BLOCK COMSATS LAHORE

MUHAMMAD IMRAN KHAN Lead wind farm commisioning project manager

SKILLS:

RENEWABLE ENERGY ELECTRICAL ENGINEERING POWER GENERATION PROJECT MANAGEMENT

EXPERIENCE:

ORSTED TECHNICAL INTERFACE ENGINEER - RAMPION OFFSHORE WIND FARM EON TECHNICAL SALES CONSULTANT HARDWARE DESIGN ENGINEER-INTEL

DR. MUHAMMAD YAQOOB JAVED ASISSTANT PROFESSOR COMSATS UNIVERSITY



COMSATS UNIVERSTY ISLAMABAD LAHORE CAMPUS



V M V





S NON

INSTRUCTORS OF TRAINING SESSIONS

Dr. Mujtaba Jaffery, Associate Professor PhD in Robotics & Control Systems Email: m.jaffery@cuilahore.edu.pk

Dr. Masood Ahmad, Assistant Professor PhD in Control Systems Email: masoodjaffar@cuilahore.edu.pk

Ayesha Ali, Assistant Professor Masters in Robotics Email: ayeshaali@cuilahore.edu.pk

Sarmad Hassan, Lab Engineer BS Electrical Engineering Email: sarmad.hassan@cuilahore.edu.pk

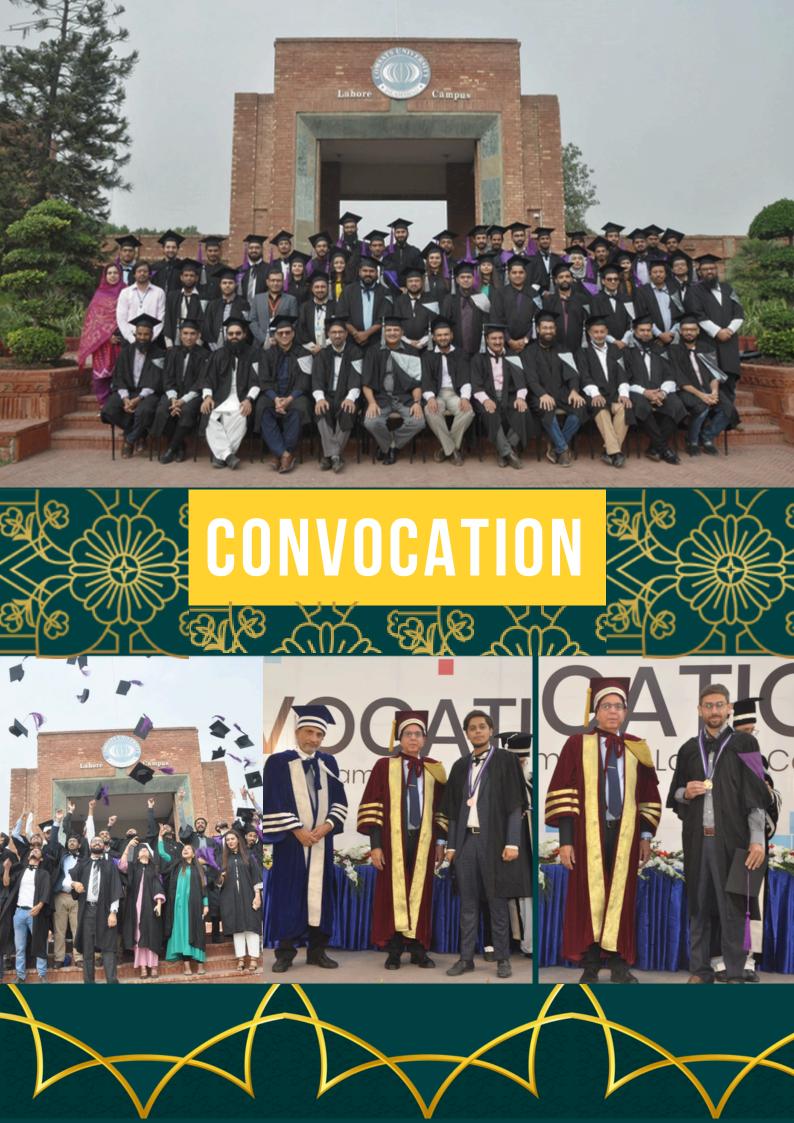
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ROBOFEST Robowar

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INTERNATIONAL CONFERENCE ON FRONTIERS OF INFORMATION TECHNOLOGY

20th International Conference on

11 - 12 December 2023 | Islamabad - Pakistan

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Give them exclusive access to your latest collections, services, and limited offers while simultaneously improving your brand's visibilityno need to limit yourself to brochures or billboards. Clients can be up-to-date on your newest and biggest releases at home, work, and even while traveling with a simple click.



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The meeting began with the recitation of the holy Quran and was followed by the individual introductions of each member. Then, Dr. Ijaz Ansari greeted the attendees and emphasized the significance of strong collaboration between industry and academia.

Dr. Naeem Shehzad, the convenor of the departmental IAB committee, presented updates on the progress made from the previous IAB meeting. Meanwhile, Dr. Naeem Awais, the Program in charge for Computer Engineering, and Dr. Asim Ali Khan, the Program in charge for Electrical Engineering, presented their respective program's assessment data. Dr. Mujtaba Hussain Jaffery, the Convenor of the CoC, also briefed the attendees on the committee's data.



The meeting continued with an open discussion, where members from the industry posed various questions and suggested possible ways to bridge the gap between academia and industry. Dr. Ijaz Ansari gave his concluding remarks before the participants were served lunch.

APPROVAL OF NEW MASTERS PROGRAMS



باسيسرا يجو كيش كميش HIGHER EDUCATION COMMISSION



Office of the Director (QAD)

Quality Assurance Divisio H9, Islamabad (Pakistan) Phone: 051-90802700 I mail phonoc@hec.gov.pk; msmphilnoc@hec.gov.pk

Government of Pakistan, Islamabad

Dir/2022/QAD-NOC/HEC/COMSATS-L/MS-ESE/3 Dated: January 11, 2023

Subject: No Objection Certificate for Launch of Master of Science (MS) Energy Systems Engineering at COMSATS University, Lahore Campus

Reference your application received vide letter No. CUI-Reg/22/02 dated 03.01.2022 on the subject matter.

2 I am pleased to inform you that HEC has no objection to offering the Master of Science (MS) in Energy Systems Engineering, a Level 7 qualification at COMSATS University, Labore Campus, with the following relevant faculty members and w.e.f Spring 2022:

- Dr. Sobia Baig, Professor
- Dr. Fawad Azeem, Assistant Professor ٠
- Dr. Aamer Bilal Asghar, Assistant Professor

The University is advised to strictly comply with HEC policies prescribed for MS/MPhil/Ph.D. 3. equivalent programs, including minimum standards for faculty, program duration, credit hours, and semester guidelines, as notified by HEC. Further, the Postgraduate Program Review Committee (PGPR) will also monitor the parameters mentioned above during their visit to the University. Moreover, in case of a change in faculty, the University shall inform the Quality Assurance Division (QAD) immediately to update the status of NOC in the database. Moreover, Higher Education Commission (HEC) reserves the right to withdraw the issued NOC if the University cannot demonstrate its ability and commitment to meet the minimum HEC criteria/guidelines.

Issued with the approval of the Director General (QA).

d Miriat)

The Registrar COMSATS University Park Road, Tarlai Kalan, Islamabad

Copy for information to:

- PS to Rector, COMSATS University, Park Road, Tarlai Kalan, Islamabad
- PS to Director General (QA), Higher Education Commission, Islamabad
- Office Copy

APPROVAL OF NEW MASTERS PROGRAMS



ہائےبرایجو کیشن کمیشن



HIGHER EDUCATION COMMISSION

Government of Pakistan, Islamabad Quality Assurance Division H9, Islamabad (Pakistan) Phone: 051-90802700 Email: <u>phdnoc@hec.gov.pk</u>; <u>msmphilnoc@hec.gov.pk</u>

Office of the Director (QAD)

> Dir/2022/QAD-NOC/HEC/COMSATS-L/MS-CE//26 Dated: December 06, 2022

Subject: No Objection Certificate for Launch of Master of Science (MS) Computer Engineering at COMSATS University, Lahore Campus

Reference your application received vide letter No. CUI-Reg/22/01 dated 03.01.2022 on the subject matter.

 Lam pleased to inform you that HEC has no objection to offering the Master of Science (MS) in Computer Engineering, a Level 7 qualification at COMSATS University, Lahore Campus, with the following relevant faculty members and w.e.f Fall 2022:

- Dr. Muhammad Jawad, Assistant Professor
- Dr. Ikram Ullah Khosa, Assistant Professor

3. The University is advised to strictly comply with HEC policies prescribed for MS/MPhil/Ph.D. equivalent programs, including minimum standards for faculty, program duration, credit hours, and semester guidelines, as notified by HEC. Further, the Postgraduate Program Review Committee (PGPR) will also monitor the parameters mentioned above during their visit to the University. Moreover, in case of a change in faculty, the University shall inform the Quality Assurance Division (QAD) immediately to update the status of NOC in the database. Moreover, Higher Education Commission (HEC) reserves the right to withdraw the issued NOC if the University cannot demonstrate its ability and commitment to meet the minimum HEC criteria/guidelines.

Issued with the approval of the Director General (QA).

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(Muneer Ahmed Mirjat)

The Registrar COMSATS University Park Road, Tarlai Kalan, Islamabad

Copy for information to:

- PS to Rector, COMSATS University, Park Road, Tarlai Kalan, Islamabad
- PS to Director General (QA), Higher Education Commission, Islamabad
- Office Copy



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USMAN IQBAL PHD DEFENSE



MS GRADUATES FALL 2022



Raza Ehsan



Ali Nasir









Abdullah Tariq



Tehseen Javaid



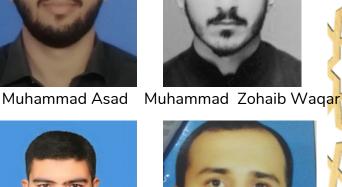
Muhammad Subiyal Fayyaz



Umair Haleem



Hafiz Muhammad Abubakar



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Dr. Jehangir Arshad



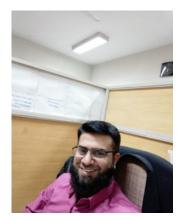
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Ms. Wajeeha Khan



Mr. Ahmed Mudassir



Ms. Nisma Saleem



Mr. Assad Ali



Mr. Rasheed Ali