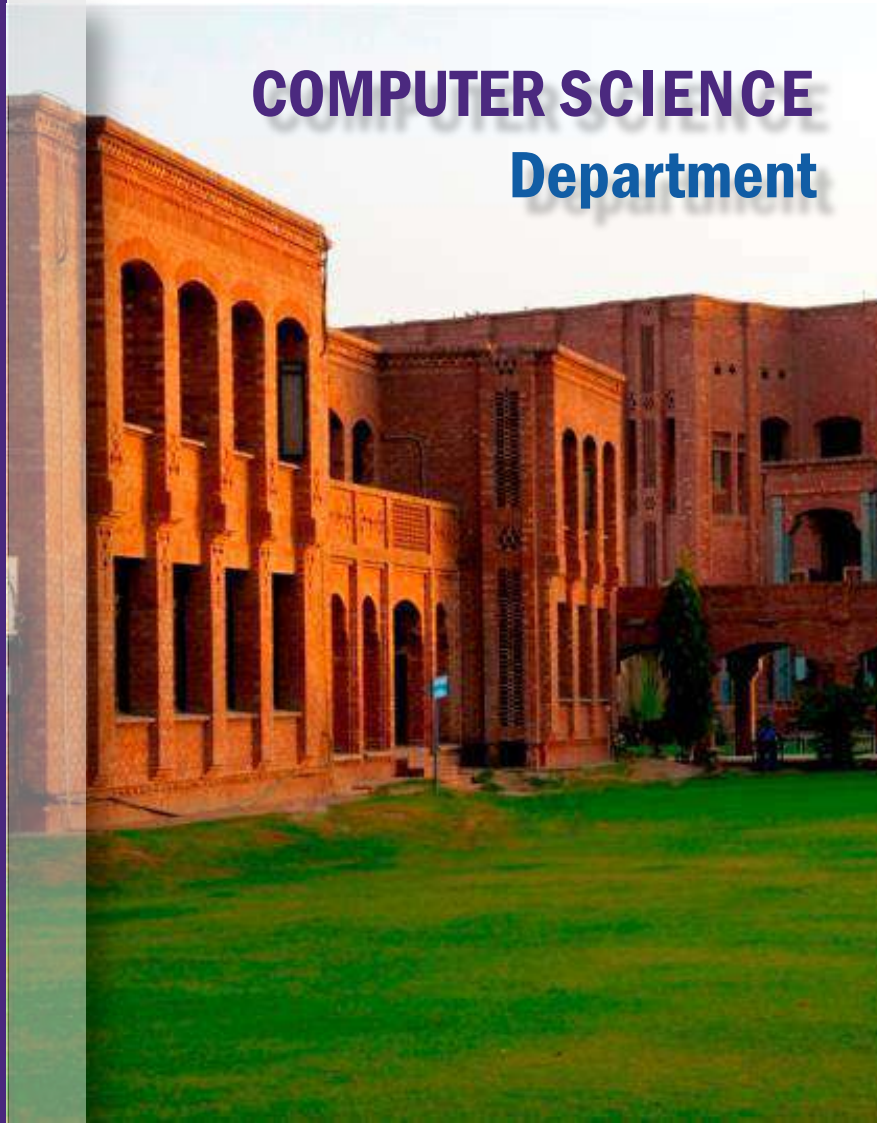# COMPUTER SCIENCE
Department

NEWSLETTER
FALL
2020

COMSATS
UNIVERSITY ISLAMABAD
LAHORE CAMPUS

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DR. ASAD HUSSAIN

MESSAGE FROM
DIRECTOR

Assalam-u-Alaikum!

" I welcome you all on the behalf of the Computer Science Department. In comparison to other disciplines, our students are getting more skillful in modern technnology. We see our students as excellent programmers, researchers and analysts in the future. We are well aware of everyday breakthroughs in modern tachnology and thus are committed to equip them with advanced competencies to manage the growing needs of sciences and technologies. Our highly qualified faculty members ensure that you have a solid technical grasp on different subjects to apply this."

DR. ZULFIQAR HABIB

MESSAGE FROM
HOD

Assalam-u-Alaikum!
"Most of the subjects of Computer science are rapidly growing and dynamic. Keeping ourselves continuously updated with the latest knowledge is the need of time and very important for our survival. Next important are the best possible management of time, punctuality, dedication, and honesty in every walk of life. Last but not least is to respect each other by completing the official tasks in a given time frame. Just imagine, what a pleasant feeling if we do not need any reminder or follow up for the completion of our basic responsibilities."
Stay blessed and Fee Amaan Allah!

News

Positioning of new Head of the Department and Dean FIST

The previous Head, Department of Computer science (Dr. Ghulam Rasool) successfully completed his tenure on 15th September 2020 and handed over all official record and responsibilities to newly appointed Head, Department of Computer Science (Prof. Dr. Zulfiqar Habib).

Current Head of Department Dr. Zulfiqar Habib has been promoted to the position of Dean FIST in the 4th meeting of CUI Senate held on January 20, 2021.

Positioning of new Director COMSATS Lahore

Previous Dean FIST Dr. Asad Hussain has been promoted to the position of Director COMSATS Lahore in the 4th meeting of CUI Senate held on January 20, 2021.

Online admissions and interviews Fall 2020 in MS-CS

The Department of Computer Science conducted interviews for the admission of MS(CS) of phase 2. The dedicated panel under supervision of HoD CS successfully interviewed a total 18 numbers of candidates. They were held on September 15, 2020.

Awarded PHD

Dr. Ali Saeed (CIIT/FA15-PCS-004/LHR) completed his doctorate defense in November 2020 under the supervision of Dr. Rao Muhammad Adeel Nawab. Dr. Rao appreciated him for his efforts in accomplishing his goal despite of all the unfavorable conditions.

News

MS-CS Pass Out Student List In Semester FA-2020

Students	Supervisor	Students	Supervisor
Rehman Akram Chugtai CIIT/FA18-RCS-007/LHR	Dr. Rao Muhammad Adeel Nawab	Ahtsham Shoukat CIIT/FA17-RCS-011/LHR	Dr. Hamid Turab Mirza
Samra Janwal CIIT/SP19-RCS-011/LHR	Dr. Rao Muhammad Adeel Nawab	Umar CIIT/SP18-RCS-018/LHR	Dr. Hamid Turab Mirza
Waqar Ashiq CIIT/SP19-RCS-013/LHR	Dr. Rao Muhammad Adeel Nawab	Syed Abu Huraira CIIT/FA18-RCS-022/LHR	Dr. Syed Asad Hussain
Muhammad Imran Zaman CIIT/SP18-RCS-039/LHR	Dr. Usama Ijaz Bajwa	Anum Shahid CIIT/FA18-RCS-021/LHR	Dr. Syed Asad Hussain
Mubashar Husssain CIIT/FA17-RCS-017/LHR	Dr. Muhammad Aksam iftikhar	Sana Latif CIIT/SP18-RCS-019/LHR	Dr. Syed Asad Hussain
Freeha Hafeez CIIT/SP17-RCS-007/LHR	Dr. Adnan Ahmad	Mian Ahmed Shafiq CIIT/FA18-RCS-002/LHR	Dr. M Hasan Jamal
Sanya Abdullah CIIT/FA16-RCS-004/LHR	Dr. Wajahat Mahmood Qazi	Muhammad Abdul Jabbar CIIT/SP18-RCS-022/LHR	Dr. Farooq Ahmad
Mahmood Hussain CIIT/SP16-RCS-014/LHR	Dr. Wajahat Mahmood Qazi	Muhammad Ehsan CIIT/FA18-RCS-018/LHR	Dr. Muhammad Waqas Anwar
Gulam Mehmood CIIT/SP17-RCS-017/LHR	Dr. Hamid Turab Mirza	Sadaf Rani CIIT/FA18-RCS-017/LHR	Dr. Muhammad Waqas Anwar
Gulam Mohayyud Din CIIT/SP16-RCS-020/LHR	Dr. Farrukh Zeshan	Sana Hassan CIIT/FA18-RCS-010/LHR	Dr. Muhammad Waqas Anwar
Rida Fatima CIIT/FA18-RCS-025/LHR	Dr. Farrukh Zeshan	Zunaira Ashraf CIIT/FA18-RCS-011/LHR	Dr. Muhammad Waqas Anwar
Hira Shahid CIIT/SP16-RCS-012/LHR	Dr. Farrukh Zeshan	Fida Ur Rehman CIIT/SP18-RCS-031/LHR	Dr. Muhmmad Tayyab Chaudhary
Ayesha Shahzadi CIIT/SP19-RCS-016/LHR	Dr. Jawad Shafi	Athar Ikhlaq CIIT/FA18-RCS-029/LHR	Dr. Amjad Ali

News

New Faculty Hiring

Ms. Yella Mehroz
Lecturer

Mr. Tayyab Wahab
Lecturer

Mr. Akhzar Nazir
Lecturer

Ms. Mahrukh Saleem
Lecturer

Ms. Muntaha Iqbal
Lecturer

Events

Orientation Ceremony for Fall 2020

An orientation ceremony of the Computer Science Department was held on Sunday September 20, 2020. The delegate staff and faculty memebers actively participated in the event under the supervision Dr. Zulfiqar Habib (HoD, CS).

Visit by the National Computing Education Accreditation Council (NCEAC)

An official visit of NCEAC accreditation inspection committee for the accreditation of BS(SE) degree program of CUI Lahore campus was held on 11th November 2020. The delegation had a meeting with Campus Director,Dean FIST and departmental heads. The head of Computer Science department Prof. Dr. Zulfiqar Habib supervised and managed the whole day activity according to plan with the Cooperation of senior faculty members, departmental NCEAC committees, designated staff and higher administration. At the end of November 2020, The Department of Computer Science, BS Software Engineering batches (Fall 2016, Spring 2017 and Fall 2017) got recommended for accreditation by NCEAC evaluators.

A Discussion On Freelancing Resources Published In Jang (Urdu) Newspaper

In today's world education and technology are a compulsion for one another. Even in the traditional ways of teaching, students perform their educational activities (like assignments) via computer and internet. The kids of today`s world are quite sharp that keep themselves aware of the changes occurring in the world. In such circumstances there is a need that they should use their intelligence of utilizing computer and internet not only for educational purposes but also for earning money.

In the developed countries like America and Europe, majority students fulfil their educational expenditures by themselves. Everybody is either a game developer or a computer programmer. One should also test his abilities and the way he can cash them over internet.
If someone is a student of Fine arts, then he can sell his art online to earn money. One can be an online tutor or can earn by solving some assignment.

UpWork.com, Fiverr.com and Freelancer.com are currently the most popular websites in the world, where everyone can find a job that suits them and earn good money at home. Below is a description of the areas through which you can earn a reasonable income every month.

Freelancing

If you are a graphic designer, know web development, search engine optimization or social media marketing work, specialize in video editing, computer or non-computer work, you can make the best money through freelancing. You can also tutor children through Skype. Many people in Pakistan are currently earning through freelancing.

Blogging

The most popular way to make money on the internet is blogging. To make money through blogging, you create your blog on any topic such as technology, health, education, blogger or blogging services like WordPress and then place ads on your blog through Google AdSense or similar services.

Affiliate Marketing

The principle of making money from affiliate marketing is very simple, in this way you sell a person's service or product by advertising it, in return for which you get commission. The more products you sell, the more money you will get. Numerous companies are also working in the field of affiliate marketing, including Click Bank, Amazon and eBay. You can create your own website or blog to sell products or promote them through video.

Fiverr

Fiverr is a website where you publish whatever skills you have and then the person in need contacts you and when you get the job done you get paid for it.

Virtual Assistant

The job of a virtual assistant is exactly the same as working as an assistant in your own country. The only difference is that you are doing this through the internet. In Europe and other developed countries, different individuals and organizations need individuals to carry out their day-to-day work. If they hire these people from their own country, they will have to pay a handsome salary in return, so they contact third world countries, where the workforce is very cheap, and hire people from here. To get this job you need a strong grasp of English language, communication skills and networking.

Earnings from Google AdSense

Another important source is the display of ads through Google AdSense. For this you have to do two things. One is a personal website or blog and the other is an AdSense account. First you create an AdSense account and get ads from there, which you get in the form of a special link and then upload that link to your website. That ad automatically appears on your site. You get about 68% of the revenue from the people who see this ad.

Meeting with PITB Officials

The Head of Computer Science Department, senior faculty members had a meeting with PITB officials. The PITB officials showed keen interest in Establishment of National FreelanceTraining Centre at COMSATS University Lahore. It was held on 29 October 2020.

Webinars

I2c Webinar on Career Development

CUI Lahore, Office of Alumni Relations and Career Development conducted a webinar in the last week of December 2020 on essential professional skills and capabilities to groom and grow in the corporate sector in collaboration with I2c Inc, a leading software house in Lahore, Pakistan Experiences from program manager, Ms. Zahra Sami who is a motivational speaker and a woman on wheels (like Muniba Mazari) were shared in this event.

Virtual participation in symposium titled "Data Science for Solution-driven and Sustainable Response to current developing world challenges"

COMSATS is one of the partners in in the organization of the 2nd African Symposium on Big Data, Analytics and Machine Intelligence themed "Data Science for Solution-driven and Sustainable Response to current developing world challenges". This was held online from December 3, 2020 to December 4, 2020. The event was attended virtually by faculty members via ZOOM.

PAK UK Education Gateway – Virtual Conference- Keeping the connection alive.

The British Council in Pakistan and HEC launched a joint programme Pak-UK Education Gateway in 2018, which aims to enhance partnership between the Higher Education sectors of Pakistan and the UK.Key areas of collaboration under this umbrella framework are innovative and collaborative research, higher education leadership, quality assurance and standard setting, distance learning, international mobility, community engagement and transnational education.

استاد کی ایک عمدہ مثال

ایک طالبِ علم نے اپنے استاد صاحب سے عرض کیا: استاد محترم! آپ کے پیریڈ میں ہم بات اچھی طرح سمجھ جاتے ہیں، آپ کی باتوں کا لطف بھی اٹھاتے ہیں اور اس لیے آپ کے پیریڈ کا انتظار بھی رہتا ہے۔ لیکن جب ہم کتاب پڑھتے ہیں تو جہیں وہ لطف حاصل نہیں ہوتا جو آپ کے پیریڈ میں حاصل ہوتا ہے۔

استاد صاحب نے فرمایا: شہد کی مکھی شہد کیسے بناتی ہے؟

ایک طالب علم نے جواب دیا: پھولوں کے رس سے۔۔۔۔

استاد صاحب نے پوچھا: اگر تم پھولوں کو یونہی کھالو تو ان کا ذائقہ کیسا ہوگا؟

طالب علم نے جواب دیا: کڑوا ہوگا

استاد صاحب نے فرمایا: اے میرے بیٹے! درس و تدریس کا شعبہ بھی شہد کی مکھی کے کام کی طرح ہے۔ استاد شہد کی مکھی کی طرح لاکھوں پھولوں (کتب، تجربات، مشاہدات) کا دورہ کرتا ہے اور پھر اپنے طلبہ کے سامنے ان پھولوں کے رس کا نچوڑ میٹھے شہد (خلاصے) کی صورت میں لاکر رکھتا ہے۔

اللہ تعالیٰ ہر اس شخص کی حفاظت فرمائے جو انبیاء کے اس کام سے تعلق رکھتا ہے۔

ہمارے ہر استاد اور استانی کے لیے سلامتی ہو۔

اس حکایت کا ایک پہلو یہ بھی ہے کہ اگر کسی استاد کو یہ محسوس ہوتا ہے کہ میرے درس میں شہد کے جیسی چاشنی نہیں، یعنی طلبہ دلچسپی نہیں لیتے تو دو وجوہات ہوسکتی ہے

پہلی وجہ یہ کہ اس استاد نے شہد کی مکھی کی طرح پھول پھول کا دورہ نہیں کیا۔ یعنی تیاری کے لیے صرف ایک کتاب پر تکیہ کر لیا۔

دوسرا یہ کہ شہد کی مکھی کی طرح اس استاد نے پھولوں کا رس نکال کر شہد بنانے کے بجائے طلبہ کے سامنے کڑوے پھول لاکر رکھ دیے۔ یعنی جیسا کتاب میں پڑھا تھا ویسا کا ویسا طلبہ کو سنا دیا۔ اگر اس میں طلبہ کے ذہنوں کے مطابق مثالیں شامل ہوتی، تختہ سیاہ یا دیگر تعلیمی آلات سے مدد لی جاتی، مناسب سرگرمیوں کا انتخاب کیا جاتا تو اس محنت کا نتیجہ میٹھے شہد کی صورت میں نکلتا۔

استاد کا کام شہد کی مکھی کے کام کی طرح سخت اور تھکا دینے والا ہے۔ لیکن اس کا نتیجہ بھی شہد جیسا لذیذ و شیریں ہے۔

Publications

Following are the publications from the faculty of computer science that are available online.

1. F. Ali, S. E. Sappagh, S. M. Riazul Islam, D. Kwak, A. Ali, M. Imran, K.S. Kwak "A Smart Health-care Monitoring System for Heart Disease Prediction Based on Ensemble Deep Learning and Feature Fusion" Information Fusion Volume 63, November 2020, Pages 208-222

2. A. Ali, S. Tariq, L. Feng, M. Iqbal, I. Raza, M. H. Saddiqi, and A.K. Bashir "Adaptive Bitrate Video Transmission over Cognitive Radio Networks Using Cross Layer Routing Approach" Published in: IEEE Transactions on Cognitive Communications and Networking (Volume: 6, Issue: 3, September 2020)

3. Furkh Zeshan, Adnan Ahmad, Abdel-Haleem Abdel-Aty, Fahd Algarni and Ashfaq Ahmad (2020), "A Hybrid Semantic Knowledge Integration and Sharing Approach for Distributed Smart Environments.", Sensors, Impact Factor: 3.275

4. Muhammad Hamid; Furkh Zeshan; Adnan Ahmad; Farooq Ahmad; Ali Hamza (2020), "An Intelligent Recommender and Decision Support System (IRDSS) for Effective Management of Software Projects", IEEE Access, Impact Factor: 4.09

5. Adnan Ahmad, Furkh Zeshan et, al. (2020), "Does one size fit all? Investigating the Effect of Group Size and Gamification on Learners' Behaviors in Higher Education", Journal of Computing in Higher Education, Impact Factor: 2.63

6. Adnan Ahmad, Furkh Zeshan, Salman Khan, Amjad Ali, Alia Samreen (2020), "Impact of Gamification on Learning Outcome of Computer Science Majors", ACM Transactions on Computing Education, Impact Factor: 1.36

7. Maria Khan, Ghulam Rasool "Recovery of Mobile Game Design Patterns" International Arab Conference on Information Technology (ACIT'2020), November 28-30, 2020.

8. Atif Saeed paper titled " A cross VM network channel attacks on cloud model with counter measures ",IEEE transaction of Dependable and secure computing, with Impact Factor 6.89, December 2020

9. Wasif Akbar, Wei-ping Wu, Sehrish Saleem, Muhammad Farhan, Muhammad Asim Saleem, Ashir Javeed, Liaqat Ali, paper titled "Development of Hepatitis Disease Detection System by Exploiting Sparsity in Linear Support Vector Machine to Improve Strength of AdaBoost Ensemble Model", Mobile Information Systems, with an Impact Factor of 1.58. vol. November 2020

10. Dr Jawad, Ms Sara Sajid, kanza hamid paper titled "Blockchain-based decentralized workload and energy management of geo-distributed data centers", Sustainable Computing: Information Systems with Impact Factor 2.798. October 2020

11. Junaid anjum, Momina Shaheen paper titled "Usability Engineering Process for Medical Devices" has been published in "Proceedings of the Future Technologies Conference (FTC) 2020".

12. K. Iqbal, S. Abbas, M. A. Khan, A. Athar, M. S. Khan et al., paper titled "Autonomous parking-lots detection with multi-sensor data fusion using machine deep learning techniques," Computers, Materials & Continua, vol. 66, no.2, pp. 1595–1612, 2021 With Impact Factor 4.89, November 2020

NEWSLETTER
TEAM

Dr. Atifa Athar
Assistant Professor

Ms. Sobia Usman
Assistant Professor

Ms. Humera Faisal
Assistant Professor

Mr. Hafiz Muhammad Tahir
Lecturer

Ms. Shaina Ashraf
Lecturer

Ms. Yella Mehroz
Lecturer

Mr. Muhammad Farhan
Lecturer

Ms. Momina Shaheen
Lecturer

Mr. Amaid Zia
Lecturer

Ms. Memoona Tasadduq
Lecturer

Ms. Zeenat Afzal
Lecturer