



ZiiK-Report 53
Fourth Exhibition of Student's IT Projects
IT Competence Center of Afghanistan
December 14th – 15th, 2019



Organized by



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Fourth Exhibition of Student's IT Projects

December 14th–15th, 2019

This year, the ZiiK of TU Berlin and the IT Competence Center Afghanistan (ITCC) in cooperation with the Ministry of Higher Education (MoHE) organized an Information Technology Week (IT week) in Afghanistan from December 14th through 18th. This IT Week consisted of the 4th IT Exhibition on December 14th and 15th, and the 15th IT Conference from December 16th until 18th.

During this week, selected IT topics were presented to the general public including IT projects from computer science students. Also, workshops and discussions took place. The IT Week was accompanied by academics, politicians, experts from the IT industry and the media.

The fourth IT Exhibition was opened on December 14th (see annex 3) by Prof. Balakarzai, acting Minister for Higher Education, as well as by Ms. Amarkhil, head of the office of H.E. the First Lady of Afghanistan, Mrs. Rula Ghani. Altogether, 54 IT projects were proposed from 13 Afghan universities from which 20 were selected to be presented at the ITCC Afghanistan by a professional jury consisting of lecturers of Kabul University, Kabul Polytechnic University and the ITCC Afghanistan.

From these 20 IT projects, the best five were selected by an additional jury from science, politics and the industry. These winning projects were awarded during the IT conference on December 16th:

- a "Student Affairs Management System",
- a "Lie Detector",
- a "System to Aid Communication With the Deaf",
- "Shkolaa" (an e-commerce platform for local handicrafts),
- a "SmartFire Control System".

The "IT Week in Afghanistan" was a successful event with around 300 participants and visitors. It showed that despite all adversities like poor education, insufficient infrastructures, and a lack of IT management structures and IT security, IT has the potential to increase efficiency, transparency and wealth in Afghanistan. For this, it is crucial to take measures to create the required basic structures, so that the planned objectives can be reached.

In the following, the **fourth IT exhibition** will be presented briefly.

Fourth Exhibition of Student's IT Projects



The opening ceremony of this year's IT exhibition was moderated by Prof. Azim Noorbakhsh, Head of Public Relations and strategic planning of the ITCC Afghanistan and it began with a recitation of verses of the Holy Quran.



In the following, Dr. Nazir Peroz, Head of ITCC Afghanistan and Director of the ZiiK at the TU Berlin, welcomed Prof. Abdul Tawab Balakarzai, Acting Minister of Higher Education of Afghanistan, Ms. Zuhul Amarkhil, Chief of Staff of the First Lady of the Islamic Republic of Afghanistan, Prof. Baray Seddiqi, Deputy Ministers of Higher Education, Prof. Dr. Osman Babury, former acting Minister and Deputy Minister of Higher Education, Ms. Masouda Karokhi, Member of the Parliament, Mr. Bary Yousufi, Deputy Director of the Central Statistics Organisation of Afghanistan, Mr. Khalid Akram, President of the

Akramzada International Company, Deans of computer science faculties, lecturers, students and all guests to the 4th IT exhibition.

Dr. Peroz said to be very pleased about the participation of the students at this IT exhibition. With their projects, they continue to support the public administration of Afghanistan, which is very valuable to the country and its development.

He continued by pointing out that this IT exhibition showcases the results and achievements of students from Afghan Universities. This year, eleven universities (Kabul University, Kabul Polytechnic University, Kabul Educational University, Herat University, Qandahar University, Nangarhar University, Balkh University, Kunduz University, Kunar University, Khost University, and the Private Institution of Higher Education Kardan) were invited to submit their students' projects to this IT exhibition. Altogether, 54 projects had been proposed, from which the best 20 were selected by a professional jury under the supervision of Assistant Prof. Niaz Ramaki (see annex 2).

Dr. Peroz explained that each team would be given five minutes to present their projects. The jury, comprised of computer science lecturers, technical experts from the private sector, one representative of the MoHE, and other branches/disciplines, is going to judge all projects and select the best five among them. Like in the previous years, the winner projects will be awarded a notebook computer during the IT conference on December 16th. Dr. Peroz then concluded by thanking the MoHE, the Afghan Universities for the smooth cooperation, the First Lady of Afghanistan for her support and the students for their achievements.

Opening Speech by the Minister of Higher Education, Prof. Balakarzai



Prof. Balakarzai first welcomed Ms. Zuhail Amarkhil, his colleagues from the MoHE, and the Presidents of the Afghan universities. He stated that it is a pleasure to welcome the students and their IT projects from various computer science faculties across Afghanistan to this exhibition and competition and he thanked Dr. Nazir Peroz for facilitating this IT exhibition for the Afghan students. Prof. Balakarzai noted

that today, it can be observed that not only the students skills are improving, but also that universities are cooperating with each other. This event plays an important part for the development of IT in Afghanistan, and he expressed his pleasure to participate. He stated that the ITCC Afghanistan is crucial for IT innovations at the Afghan Universities and the MoHE. Today, as he went on, all students and lecturers are convinced of the important role IT plays in their daily lives and the future of the country.

Prof. Balakarzai then closed his speech and turned to the universities and encouraged them to support young students with their innovative ideas and projects.

Opening Speech by Ms. Zuhail Amarkhil, Chief of Staff of the First Lady of the Islamic Republic Afghanistan



Mrs. Amarkhil began her speech by stating that it is a great pleasure to participate in this 4th IT Exhibition of student's projects at the ITCC Afghanistan. We all know, she went on, that technology has become a part of our lives, and that this development brings great changes to society, economy, culture and education, and great improvements in our lives and

work. However, Afghanistan is still far from completing this positive development, and needs to perform quite some developments, and much work needs to be done in many areas.

She claimed that Afghanistan needs IT experts, and that therefore the country requires better education and support of its young generation. She suggested to the students to not only develop databases and systems for hospitals etc., but rather consider the issues of their regions and the country, because this is where experts are required to find solutions.

She thanked the ITCC Afghanistan to establish this exhibition and competition and wished all participants a successful event.

Presentation of the student's IT projects



After the opening speeches, the students presented their projects. Each team (see annex 2) had five minutes to present. Afterwards, the jury members and the invited guests were given the chance to ask questions.



In the following, the jury and the guests took the opportunity to take a look at the prototypes. For the assessment, four components were considered:

1. Conceptual planning
2. Economic feasibility
3. Societal implications
4. Implementation of the prototype



The projects covered different areas like public health care, military, public administration, as well as practical technical inventions.

All 20 projects were assessed by the jury, and the five winners were then announced at the end of the day.

The jury committee consisted of the following persons:

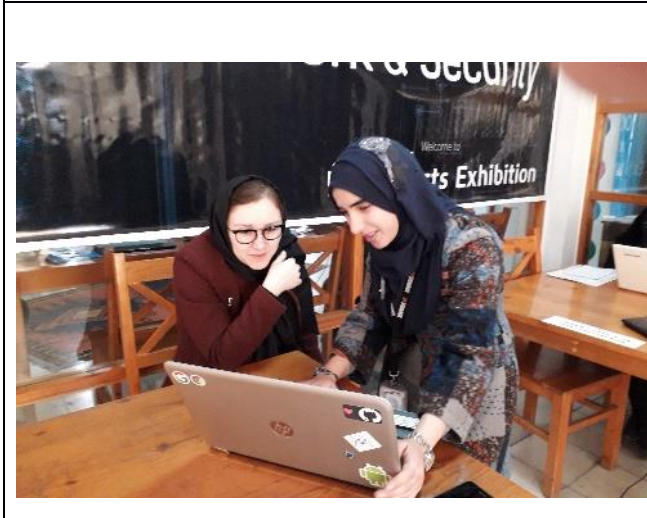
1. Prof. Dr. Baray Sediqi, Deputy Minister of Higher Education
2. Prof. Dr. Osman Babury, former Acting Minister of Higher Education
3. Mr. Bary Yousufi, Deputy of the Central Statistics Organisation of Afghanistan
4. Mr. Khalid Akram, President of the Akramzada International Company

5. Prof. Mirza Mohammad Mirza, Lecturer at the Faculty Computer Engineering and Informatics at Kabul Polytechnic University
6. Prof. Dr. Hassan Adelyar, Lecturer at the Faculty of Computer Science, Kabul University
7. Ms. Masouda Karokhi, Member of the Parliament
8. Mr. Mohammad Hanif Gharanai, Head of IT at the President's Office
9. Dr. Nazir Peroz, Director of the ZiiK at TU Berlin and Director of the ITCC Afghanistan

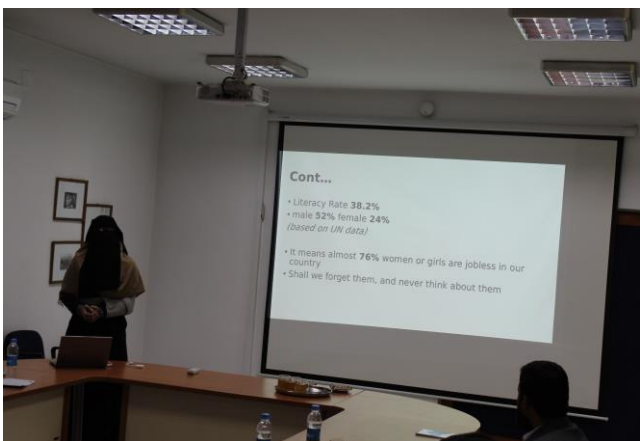
Photographs of the event can be found in annex 1.

Opening, Presentation and Selection of the best five IT projects by the jury of the 4th IT exhibition











Annex 2

List of student's IT projects of the 4th IT exhibition at the ITCC Afghanistan:

NO	Name	Last Name	University	Project
1	Hakima	Merzayee	Kabul Polytechnic University	Human Skin Disease Diagnosis and Remedy Application
2	Wahida	Hussaini	Kabul Polytechnic University	Android Phone Theft Security with GPS (Mobile finder)
3	Liqat Ali	Rahimi	Kabul Polytechnic University	Plagiarism Detection System for Academic Affair Department of MoHE
4	Mohammadullah	Adil	Kabul Polytechnic University	Student Affairs Management System
5	Suliman Mohammad Roman Massoud	Acehaqzai Ehsanzada Mirzai	Shaheed Prof.Rabani Kabul Education University	Military Research Robot
6	Hazrat Musa	Hodman	Kandahar University	National Army Casualties Analysis System
7	Samira	Ahmadzai	Kandahar University	Shkolaa
8	Mohammad Sajeed	Habibi	Kunduz University	Realtime Reporting System Among Brishna Management Information
9	Haqyar	Khan	Kunar University	Office Gram
10	Wasim	Ahmad	Shahekh Zahed University	University ERP (Enterprise Resource Planning) and in Addition to Online Exam System both with Mobile and Computer Based System
11	Abdul Sami	Amiri	Nangarhar University	Smart Fire Control System
12	Samim	Rahimi	Nangarhar University	Smart Automatic Dehydrating System
13	Morsal	Azizi	Herat University	Lie Detector
14	Sayed Farid	Qattali	Herat University	Azma Dafter
15	Rafiullah	Samim	Balkh University	IoT Based Automotive Security System
16	Omid	Timur	Balkh University	Farmer
17	Hanif	Adbul Baqi	Kardan Private University	Skillmaster
18	Hassina Farkhunda	Hamid Hassan	Kabul University	Conceptual Implementation of Plant Diseases Detection
19	Mehrin Ahmad Zia	Najm Yosoufi	Kabul University	Towards a System to Aid Communication With Deaf
20	Mahdi	Jafari	Kabul University	Dari Speech Recognition



Ministry of Higher Education Afghanistan



Fourth Exhibition of Student's IT Projects

IT Competence Center of Afghanistan

December 14th – 15th, 2019

The IT Competence Center of Afghanistan (ITCC Afghanistan) is organizing the fourth exhibition of student's IT projects in Kabul on the campus of the Ministry of Higher Education (MoHE) on December 14th and 15th, 2019. The aim of this exhibition is to present IT projects from students of computer science faculties of different Afghan universities and also to introduce new innovative ideas based on student's projects to the Afghan society. As in previous years, the fourth IT Exhibition is technically supported by the Center for international and intercultural Communication (ZiiK) of Technische Universität Berlin (TU Berlin) and funded by the German Federal Foreign Office and the German Academic Exchange Service (DAAD).

At least three projects from each university will be participating in the competition from which a jury will select the five best to be awarded with a prize. The jury is consisting of members of science, politic, economy and society. The projects are divided in three categories: Software Application, Network and Security, and Database Systems. The prizes will be handed over to the winners during the 15th IT Conference at the MoHE on December 16th, 2019.

The exhibition begins at on **December 14th at 10:00am** and takes place at the ITCC Afghanistan.

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First day: Saturday, December 14th, 2019

Moderation:	Prof. Azim Noorbakhsh, Head of Public Relations and Strategic Planning of the ITCC Afghanistan
10:00 am	Recitation of Quran-e-Sharif Welcome
10:10 – 10:20 am	Dr. Nazir Peroz, Director of the ZiiK at TU Berlin and Director of the ITCC Afghanistan Opening
10:20 - 10:30 am	Prof. Abdul Tawab Balakarzai, Acting Minister of Higher Education of Afghanistan
10:30 - 10:40 am	Ms. Zuhail Amarkhil, Chief of Staff of the First Lady of the Islamic Republic of Afghanistan
10:40 - 10:50 am	Ehsanullah Ahmadzai, Chief of Staff at the Ministry of Communication and Information Technology of Afghanistan
10:50 - 12:00 am	Demonstration of IT projects of the students
12:00 am	Lunch
1:00 - 4:00 pm	Evaluation of the IT projects by the jury
4:00 pm	End of first day

Second day: Sunday, December 15th, 2019

10:00 - 12:00 am	Evaluation of the IT projects by the jury, continued
12:00 am	Lunch
2:00 - 4:00 pm	Decision about the best five IT projects by the jury
4:00 pm	End of second day