



ҚАЗАҚСТАН РЕСПУБЛИКАСЫ
ТҰҢҒЫШ ПРЕЗИДЕНТІ - ЕЛБАСЫНЫҢ ҚОРЫ

«ҒЫЛЫМ ЖӘНЕ БІЛІМ – 2017»

студенттер мен жас ғалымдардың
XII Халықаралық ғылыми конференциясының
БАЯНДАМАЛАР ЖИНАҒЫ

СБОРНИК МАТЕРИАЛОВ

XII Международной научной конференции
студентов и молодых ученых
«НАУКА И ОБРАЗОВАНИЕ – 2017»

PROCEEDINGS

of the XII International Scientific Conference
for students and young scholars
«SCIENCE AND EDUCATION - 2017»



14th April 2017, Astana



**ҚАЗАҚСТАН РЕСПУБЛИКАСЫ БІЛІМ ЖӘНЕ ҒЫЛЫМ МИНИСТРЛІГІ
Л.Н. ГУМИЛЕВ АТЫНДАҒЫ ЕУРАЗИЯ ҰЛТТЫҚ УНИВЕРСИТЕТІ**

**«Ғылым және білім - 2017»
студенттер мен жас ғалымдардың
XII Халықаралық ғылыми конференциясының
БАЯНДАМАЛАР ЖИНАҒЫ**

**СБОРНИК МАТЕРИАЛОВ
XII Международной научной конференции
студентов и молодых ученых
«Наука и образование - 2017»**

**PROCEEDINGS
of the XII International Scientific Conference
for students and young scholars
«Science and education - 2017»**

2017 жыл 14 сәуір

Астана

УДК 378

ББК 74.58

Ғ 96

Ғ 96

«Ғылым және білім – 2017» студенттер мен жас ғалымдардың XII Халықаралық ғылыми конференциясы = The XII International Scientific Conference for students and young scholars «Science and education - 2017» = XII Международная научная конференция студентов и молодых ученых «Наука и образование - 2017». – Астана: <http://www.enu.kz/ru/nauka/nauka-i-obrazovanie/>, 2017. – 7466 стр. (қазақша, орысша, ағылшынша).

ISBN 978-9965-31-827-6

Жинаққа студенттердің, магистранттардың, докторанттардың және жас ғалымдардың жаратылыстану-техникалық және гуманитарлық ғылымдардың өзекті мәселелері бойынша баяндамалары енгізілген.

The proceedings are the papers of students, undergraduates, doctoral students and young researchers on topical issues of natural and technical sciences and humanities.

В сборник вошли доклады студентов, магистрантов, докторантов и молодых ученых по актуальным вопросам естественно-технических и гуманитарных наук.

УДК 378

ББК 74.58

ISBN 978-9965-31-827-6

©Л.Н. Гумилев атындағы Еуразия
ұлттық университеті, 2017

- ability to present all the necessary information, including contact numbers, interested users;
- ability to update the news in real time;
- ability to place feature articles, and magazines;
- ability to place additional information;
- ability to learn at any time;
- ability to track the learning progress;
- ability to create a forum where visitors will exchange information and views;
- ability to receive a certificate upon successful completion of the course.

In the end, we solved the problem, as the study of the history and Web-design theory, developed a conceptual model of the site, Web-based technologies was explored languages, the HTML, PHP and Java-Script and their ability to Web-design, and was developed by the logical structure and to realize functionality. It has also drawn up a methodological guide for the creation and use of the site.

Educational website "Java Academy Online" should not only be a personal affair of its creator, but involves working well organized team of people that are interested in maintaining the operation and development of this resource over time.

References

1. Official website Association World Wide Web Consortium (W3C) [electronic resource]. URL: <http://www.w3.org>
2. Asadi A. HTML5 & CSS3 Genius Guide Volume 2. – Imagine Publishing LTD, 2015. – 980p.
3. McFarland D. CSS: The Missing Manual. – O'Reilly Media, 2015. - 677p.
4. Learning PHP, MySQL & JavaScript: With jQuery, CSS & HTML5. – O'Reilly Media, 2014. - 806p.
5. Byous, Jon. "Java technology: The early years". [electronic resource]. Sun Developer Network. Sun Microsystems. URL: <http://web.archive.org>
6. Harvey M. Deitel, Paul M. Deitel Java How to Program. – Prentice Hall, 2015. – 1536p.

UDC 004.738.5(-053.6) (574)

IMPACT OF THE INTERNET ON DEVELOPMENT OF A TEENAGER IN KAZAKHSTAN

Urazalina Almira, Zhunussova Aidana

Almi.urazalina@gmail.com, Zhaidana98@mail.ru

Students of Biotechnology, L.N. Gumilyov ENU, Astana, Kazakhstan

Scientific leader- Aristanbekova Zhumagul Isagaliyevna

We want to tell about situation that covers all students in every country, but to explore only on student's that study in Eurasian National University. This topic in order to find out about the current situation among our friends and may be this research will help them. As we said, problem that we present in our project work covers all parts of the Earth. Thus, this issue is considered relevant to the modern world. The major problem of our project work is totally dependence of adolescents on the Internet. Nowadays, Internet becomes one of the main parts in human's life. One of the global challenges is Internet. Teenager's unconsciously immersed under the influence of the Internet. Online games and social network's attract the attention of teenager's to a variety of attractive things. So, young people spend much time online. In many people's eyes Internet influence damages social development and psychology of a teenager. In addition, young people stay in the Internet without knowing boundaries. Therefore, there are many problem's, which teenager's face and we as a students find it is important to discuss. The dependence of Internet in developed

countries such as America and Korea came much earlier rather than in Kazakhstan. Nowadays, application of Internet also totally spread in our country. For now, dependence on the internet is not only to teenagers, but also captures many families in our country. For example: our aunt's has dependence on the Internet like their children's. They use the Internet every day and do not think that this is a problem for her. The problem is because of the time that they waste due to the Internet. They could spend this time more useful, like doing homework with their kids or cooking. So, there are a lot of issues that covers theme of our project.

Many years centuries ago people did not have computers, mobile phones and the main device Internet. However, with each century the life of people developed and started to be more easily because of creation of new technologies, which help people in various ways. Nowadays, people, especially youth, cannot live without Internet and they became addictive to it. Therefore, appears various disasters that destroy the mind and the all usual life of teenagers.

There are many negative effects on the teenager life because of their addiction:

- Changes of emotion
- Influence on psychology
- Became more aggressive
- Atrophy disease

Moreover, an even emotion of young people begins to change in many ways. Peele (1991, pg. 43) explained the psychological hook of addiction as "it gives you feelings and gratifying sensations that you are not able to get in other ways. It may block out sensations of pain, uncertainty, or discomfort. Also Internet can completely change perceptions and capture the attention. It is possible for person to sink online and amend the mood from negative to positive side in daedal moments. All it can add temporary protection, quieting the internal state and deliverance from surrounding problems. So, due to this benefits Internet subordinates people to return and expend their precious time.

One of our sources is an article "The Impact of Internet Usage on Adolescent Self-identity Development" by Janet H. Long and Guo-Ming Chen (Communication Studies Faculty Publications, 2007). In this project, researchers studied the impact of Internet usage on the self-identity development in 10 students between the ages of 17 and 24. We can use the information of this work, because it helps us to answer the questions our research. For example, they found that "Yet presently more than 7 hours of an adolescent's day is spent interacting with some form of media (Harrison, Taub, & Hayes, 2000)." It really riskily for schedule of young people, because occupy 7 hours a day and it is the half of all day. In addition, authors describe psychology of human and how it is connected with impact of the internet. For example: According to McKenna and Bargh (1999), "people are turning to the Internet to meet important social and psychological needs" (p.2). Expressing identity is a strong self-motivator for using the Net. Shy people who fear real relationships go to the chatrooms for the virtual relationships. So, the youth who are upset because of their appearance and did not feel comfortable on their life use Internet to prove themselves that they are better. And the Internet connections with each other people help for teenagers who are disappointed to be more powerful and to not give up. Therefore each of this teenager people started live only online in Internet and they did not see what happened around them in real life.

Also has the negative influence on the psychology of the young developing organism. The Yüksel stated that "one of the most common psychological disorder determined during psychological health services is depression as a mood change". Depression is a psychological mood change which has symptoms like sleep and appetite disorders, somatic symptoms, pessimism, bad feelings about ego, general dissatisfaction, loss of love and interest, crying spells, decreasing self esteem, negative expectations, self criticism, self blame, difficulties in decision making, loss of motivation, ideas about escape, withdrawal and revenge (Hisli, 1988).

Each of year technology develops and scientists create many diverse advices with new programs, which connected with Internet. Therefore, youth are so addicted to the Internet helpers. Statistics says that adolescents use social media in large numbers. For example, a national survey in 2009 finds that 73% of online teenagers use SNS, which is an increase from 55% 3 years earlier

(Lenhart, Purcell, Smith, & Zickuhr, 2010).

The research of scientist Cengiz ŞAHİN* shows: «Adolescents staying online longer were found to have higher level of internet addiction than ones staying online shorter. It can be said that students using internet more than three hours a day tend to get addicted». Studies in the literature show that as the time spending on internet is increasing, addiction level is increasing, too (Üneri & Tamdır, 2011; Ata, Akpınar & Kelleci, 2011).

The dependence of the Internet often influence on the restraint of aggression. Teenagers of all two sexes became more aggressive and evil. It proves by research of Eugenia A. Ives “The Social Cognitive Effects of Digital Technology on Teenagers “Violent video games allow players to attack and kill one another in graphic bloody ways. Studies show that prolonged exposure to violent media leads to aggressive behavior, anxiety, bullying, and desensitization. Wicked pictures, which occur in the diverse video gaming influenced by the negative subliminal children. For child abuse can become a normal human phenomenon. Because of this, we think it is very fearfully for future growing generation. And human should apprehend it for safety of mind young people.

It is not a secret that nowadays term internet addiction equalizes with disease like alcohol and etc. From recent studies in China, brain scans show that the brains of Internet addicts look like the brains of drug and alcohol addicts. “Structural abnormalities in gray matter” were found - which were basically shrinkage of 10 to 20 percent in the area of the brain responsible for processing speech, memory, motor control, emotions, and sensory iGeneration 43 information. These studies also showed that the more time Internet addicts spent online, the more the brain showed signs of atrophy (Dokoupil, 2012, p. 28-29).

We want add example from my life, now we are at 18 years and we forced make use of the Internet in our diverse educational purposes and social needs. As teenager we really concerned of our all accounts in my social networks. Also always we want to watch others personal pages and what news there. Due to large amount of use Internet we began to notice to how our vision deteriorates.

We was illustrated that people who are teenagers and youth are completely dependent on the Internet and its effect on their life with diverse ways. So in the recent time quantity of addiction to the Internet suddenly decrease in Kazakhstan among youth. May be it linked with the rapidly development of country in the diverse ways like technology and etc. Therefore, our teenager began to have more possible ways of availability of Internet and awareness of information on diverse networks.

In the beginning of this paper we allocated 4 main research questions to find the answers for them. So, conclusion will be built on these questions.

How often teenager use the Internet? (In our university)

The results of the survey and of the interviews of teenagers had shown that a large amount of them use the internet, it takes a half of their all day approximately 5-6 hours. It also confirms the theorem “addiction to the Internet”, which we used in our project work. Indeed, respondents were shocked about how much they waste time in the Internet. And also it pushed them to thing about their schedule, because Internet nail a lot of time.

For what purpose they use the Internet?

There was a big percentage of youth who are use the Internet only for social networks and other different online program. It is horrible, because exactly this functions of Internet addictive this young people. Also other percentage said that Internet is like assistant for their educational purposes, because it gives much credible information which improves knowledge of youth in diverse ways.

How does it influence the usual day of a student?

Internet destroys correct and accurate schedule of teenager day. Because of the social networks youth do not have enough time for their homework. Indeed, it is waste of a lot of time and therefore they did not have time for other things. Also it effects on that nowadays new generation stop going to various clubs. It linked with that students stopped attend clubs like swimming, dancing, drawing and others.

What are the effects on the psychology of teenager?

Firstly, because of a lack communication with peers in real life they became closed and shy. Therefore they did not have friends around them, which can help them when they face difficult moments of their lives. Secondly, if teenager started use Internet in early ages expose them to become very aggressive and evil. It happens because of video games, which includes ruthless pictures. Thirdly, people who feel lonely or lacking of attention in the inner soul started seeking temporary solace in virtual life.

References

1. Long, J. H., & Chen, G. M. (2007). The Impact of Internet Usage on Adolescent Self-Identity Development
2. Ahn, J. (2011). The effect of social network sites on adolescents' social and academic development: Current theories and controversies. *Journal of the American Society for Information Science and Technology*, 62(8), 1435-1445. Chicago
3. ŞAHİN, C. (2014). An Analysis of the Relationship between Internet Addiction and Depression Levels of High School Students. *Participatory Educational Research (PER)*.
4. Ives, E. A. (2013). iGeneration: The social cognitive effects of digital technology on teenagers.
5. Young, K. S. (1999). Internet addiction: symptoms, evaluation and treatment. *Innovations in clinical practice: A source book*, 17, 19-31
6. Valkenburg, P. M., & Peter, J. (2011). Online communication among adolescents: An integrated model of its attraction, opportunities, and risks. *Journal of Adolescent Health*, 48(2), 121-127.

УДК 004.4

ПЕРСПЕКТИВЫ ПРИМЕНЕНИЯ МИКРОПРОЦЕССОРНОЙ ПЛАТФОРМЫ ARDUINO

Абдинурова Алия Бериковна

aliyaabdinurova@gmail.com

Студент 4-го курса, специальности Информатика

ЕНУ им. Л. Н. Гумилева, Астана, Казахстан

Научный руководитель – Ахаева Ж. Б.

В настоящее время существует множество платформ для изучения основ схемотехники. Для тех, кто только начинает изучать схемотехнику, самым актуальным будет являться платформа фирмы Arduino. Упрощенная и облегченная работа с микроконтроллерами делает устройства фирмы Arduino приоритетными. Простейшая и доступная среда для программирования, низкая ценовая политика и большое количество дополнительных плат расширений является достоинством устройств данной фирмы. Как и у опытного специалиста, так и у начинающего любителя, платформа Arduino может стать главной составляющей, при исследовании и решении задач по схемотехнике и робототехнике. Цели данной статьи – проанализировать возможности платформы Arduino, ознакомиться с техническими характеристиками и функциональным описанием платы Arduino UNO, а также определить перспективы применения устройства[1].

Arduino является инструментом для проектирования электроники, непосредственно взаимодействующей с окружающей физической средой, в отличие от стандартных компьютеров, которые в действительности не имеют возможности выйти за рамки виртуальности. Данная платформа имеет открытый программный код, построена на печатной плате с модернизированной средой для написания программного обеспечения и предназначена для управления физическими процессами с использованием ЭВМ.