

BURCH SCIENCE AND INNOVATION CENTER EVALUATION REPORT

Our mission is to prepare outstanding students for higher education standards by providing a safe, caring and collaborative atmosphere featuring a quality, student-centered educational program with a strong emphasis on math, engineering, science and technology.

The Innovation Center will recruit, foster, celebrate, and support student innovators and student Innovations through extra-curricular and curricular opportunities, facilities, events, training, and mentorship and investing in next-generation technologies and approaches to spur innovation.

Our aims are to improve science with new and innovative solutions, set of practical activities, implementing new ideas, enlarging peoples will for improving and creating better world.

STRATEGIC GOALS AND THE ACTIVITIES DONE ON THEM

1. Raising awareness of the young people in fields of technology and innovation

1.1. Education in various fields

1.1.1.Organizing seminars

1.1.2.Organizing workshops

1.2. Promoting innovations

1.2.1.Organizing visits to the Center

1.2.2.Organizing science and innovation fairs

2. Promoting activities on state as well as on international

2.1. Developed student projects for competitions

2.1.1.Conducting meetings in order to form project groups

2.1.2.Assigning projects to the project groups

2.1.3.Finding funding sources for project development

2.1.4.Constructing project models

2.2. Attending international competitions

2.2.1.Ensuring funding sources

2.2.2.Ensuring transportation and accommodation

3. Maintaining the sustainability of the Center

3.1. Adopting world standards of the research centers

3.1.1.Conducting research in field of modern technologies

3.1.2.Implementing of the modern technologies in the Center

3.2. Establishing cooperation with companies

3.2.1.Meetings with companies representatives

3.2.2.Visits to the leading companies of the sector of interest

3.3. Providing equipment

3.3.1.Consulting suppliers

3.3.2.Expenditures estimation

3.3.3.Purchasing equipment

1. Raising awareness of the young people in fields of technology and innovation

Our main goal in the Innovation Center is not only pursuing science, but more than that, it is encouraging young people to feel free to be creative and confident about their ideas. By doing that they are encouraged to investigate possible fields of interest on their own and become even more familiar with modern technology.

Few different research and development groups are planned and some of them are already established:

- Arduino development group
- LEGO Mindstorms development group
- Digital electronics & programmable logic group
- Biomedical research group
- Industrial process automation group
- UAV drone development group
- Renewable energy research and development group

Currently, there is a really small number of direct users of these commodities considering the fact that there is small interest into participation in innovation center. We can say that only about 140 participants were included in our various meetings and workshops which were organized every week:

- Project development key points workshops
- Organized project development hours
- Project coordination hours (done with supervisor)
- Arduino workshops
- Beginner electronics workshops
- Academic research and paper writing workshop

However, this year the number of indirect users was satisfyingly large. Activities done in that field were:

- Part-time students organized tours for more than 1500 high-school students all around the country
- Tours for parents at the parents meeting
- Tours for visitors from international universities and the various ministries
- Opening ceremony at the day of the Burch Olympiad
- The making of the innovation.ibu.edu.ba and science.ibu.edu.ba website which attracted visits from other schools
- Attendance to the book fair and representation of the university by the members of the science center

2. Promoting activities on state as well as on international

Once the idea is born, it should come to life. We encourage young innovators to team up and find a way to make the idea work in practice as well as in theory. First step is constructing project models which then leads to fully working and implementable projects ready for everyday use. Our research teams have been very successful in conducting experiments in many different fields of science, and knowing that, we encourage them to attend many state and international competitions. Up to now,

students from our research groups have won many medals and prestige awards on many international competitions.

From September 2012, we presented our university with two participants at Vienna robot challenge and INFOMATRIX 2013, where we won silver medal. Current plans are to pass qualifications of the Microsoft Imagine Cup so that we can present our university at a prestigious global competition.

3. Maintaining the sustainability of the Center

The Innovation Center focuses on exploring new technologies and their application in real life. This means adopting the world standards of the prestige research centers around the world. In order to do this, Innovation Center is equipped with specialized materials required in the projects done in the Center. This includes:

- Tool kits, technical assistance, and research;
- Peer learning groups and peer exchanges for community organization leaders;
- Connections across the fields of science, policy, social services, and philanthropy;
- Guidance for funding research, development, and program evaluation;
- Training services that expand skills, strengthen management, and connect organizations and foundations to new and existing resources;
- Capacity-building techniques that help students become more effective.

Currently we have managed to prepare the lists of necessary materials and to get the first investment from University, which included the basic materials necessary for work. As soon as the materials arrived, they have been recorded in inventory and put to work with responsible guidance.

The other planned investment is the project we have written for the Ministry of Civil Affairs, worth 25 000 KM. We are planning to equip our center with state of the art machines and facilities with those funds. Those machines which include professional grade CNC & 3D printer, lab stations etc. will help sustain the center in every aspect.

Since May, global portal instructables.com which was founded by MIT has established cooperation with our center in terms of sending equipment to the center in exchange for reviews. First tranche is on its way to Bosnia and contains first symbolic commodities. In case of further cooperation, we would be able to obtain full industrial machine set which would include professional 3d printer, laser cutter, cnc machine, industrial sewing machine and other.

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