

Financial Assistance to the Local Community

AIOU provides financial assistance to the local community assisting the start-up of financially and socially sustainable businesses.

Business Incubation Center:

ORIC's Business Incubation Center facilitate the AIOU students, alumni and local community with potential business ideas by seeking resources to connect idea holders with investors through Islamabad/Rawalpindi Chamber of Commerce & Industry (and other resources) to implement their idea practically for social benefit. They are further groomed by focusing on their entrepreneurial capacity building at ORIC/Business Incubation Center of AIOU.

Also prize money is awarded to the best ideas by AIOU to support initial finances.

AIOU Startups (Partially funded by AIOU)

Sr. No.	Startup Name	Name of owner	Description
1	Old Cars to run on electric power	Mehboob Ahmad	The basic idea of this startup is to fit high speed 24 volt 8 horse power step motor in place of engine to rotate a straight shaft which would replace the crank shaft. The motor is powered with rechargeable dry batteries. and batteries can be charged with generators to be fitted to rotate with back wheels of the vehicle. When the vehicle will run it will charge the batteries. Approximately cost 100 thousand to 300 thousand per vehicle production.
2	Solar Dryer	Khurram Raza	This is a great sustainability related startup. It is based on reuse of wastage of vegetables and fruits. To lower the wastage of food and fruits a solar dryer will be used to make organic products.
3	Making of Tiles/Brick and other constructional Goods with the use of Polythene Bags	Sana Rubab	Making Brick and other constructional Goods with the use of Polythene Bags is a science oriented idea which is based on the recycling of polythene bags and utilizing them for good causes. The plastic-soil based geoplastic-material (PS) is produced by heating and mixing simultaneously recycled polyethylene plastic (plastic bottles or polythene bags) with soil at a specified temperature to melt the thermoplastic material so that a uniform fused mix is attained. That soil plastic material formed as a result is a new plastosoil material with an average tensile strength of 27-28 MPa. Additionally its mechanical strength is also greater. It is lighter in weight in comparison to concrete or cement that is used for constructional purposes.
4	Biodegradable packaging	Sabih Ullah	Smart shaped lighter products are introduced which are easily handle .e.g lighter laptop bags, small biodegradable carbonated

			and Detergent bottles which is easier to open and cut out unnecessary plastics. In this startup it is focused to produced Bis phenol A (BPA) free cans because BPA is hazardous for health. So, with these new features the product value will be more in market as compared to existing products.
5	Blind stick using arduino UNO and ultrasonic sensors	Muneeba Hasib	This startup helps the blind to detect obstacles in front of person and give response by vibrating stick and warning alarm. Yes there are innovative features in this project i.e. using Arduino UNO, ultrasonic sensors, and it is a type of artificial intelligence project for blind to take care of themselves and their life's.
6	Chicken Feathers: Giving waste a new life	Qazi Muhammad Sagheer	This startup transforms poultry waste for useful purposes. Reuse of poultry feathers for meaningful purposes is an encouraged step about their disposal and also beneficial if feathers used for commercial purposes. Many useful products like decorative products, keratin / protein for feedstuffs, biodegradable plastic, isolative agents. These entire products are biodegradable and having no side effects. The product synthesized will be affordable to everyone and therefore it makes its roots in business in no time. On the other hand, making a profit the other aim of project is to replace non-biodegradable plastic with degradable so the product is totally environment friendly, and the one positive point that products made by feathers are light in weight and easy to transport. In nowadays study poultry feathers seem to use by scientists in feedstuff.
7	Robofarmic(Plant Disease Detection Robotic system)	Arbab Naseer	This system includes Identify kind of disease , remotely controlled with mobile application, fully automated. on the other hand previously existing are only applicable for research purpose those are just prototype of automated robot system for plants disease detection. That developed use and fetch already given data from the database in the form of prototype but it does not work as real time robot to access and process data to find the kind of disease or any other disorder plant have. that already developed system just compare the shapes and colors of leaves of plant but cannot process it to find the actual reason and disease found in the plants. This system is an advance level product or robotic system using different kind of resources provided to us in such a way that this developed robotic system will pick some pictures or photos of plants and process it to find the actual reason and disease by which a plant is affected. Raspberry PI 2 Raspberry camera 2 (navigation + classification) Motor controller Batteries 3 Ultrasonic sensor 2 Motors 4 Jumper wires Mountain Ark SR 13 chassis Raw material cost = RS. 33000/- only

8	Local Production of Reactive Dyes	Muhammad Nawaz Khan	Costly reactive dyes are imported annually, this rise the cost of printing, dying and sublimation printing i. Raw Material Naphthalene derivatives(2500/kg) aromatic amines (9792/liter), sodium nitrite (200/kg), Cyanuric chloride (20000/kg), Sulphuric acid(2500/liter), hydrochloric acid, nitric acid (200/liter) ii. Total cost 8000/kg product iii. Size and shape of product solution form (300gram /liter). iv. Color as required
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Fully Funded Startups by AIOU

S.No	Group	Start-up Name
1	Arbab Naseer	Robofarmic(Plant Disease Detection Robotic system)
2	Khurram Raza	Solar Dryer
3	Muhammad Nawaz Khan	Local Production of Reactive Dyes
4	Muneeba Hasib	Blind stick using arduino UNO and ultrasonic sensors
5	Qazi Muhammad Sagheer	Chicken Feathers: Giving waste a new life
6	Sabih Ullah	Biodegradable packaging
7	Sana Rubab	Making of Tiles/Brick and other constructional Goods with the use of Polythene Bags
8	Abdul wali Khan, Muhammad Bilal, Faraz Ahmad	RF based night vision Spy Robot
9	Altaf Hussain, M Ahmed Tahsin, Abdul Mateen	Night vision Spybot
10	Ayesha Naseer, Arbab Hassan, Fariha Nisar	Ultrasonic Range finder

11	Farwa Amir, Sana Zubair, Saima Shafiq	Digital Voltmeter
12	Iqra Zafar, Urooj Bano, Madiha Ramzan	3 Phase Transmission line faults & their detection
13	Kanwal Shahzadi, Laraib Zaheer, Lubna Yamin	Saving Energy Through Street Light
14	M Nauman Iftikhar, Arshad Ali, Umm e Roman	Human following Robot
15	M Osama Shahid, Zohaib Yousuf, Andleeb Arshad	Edge avoider Robot
16	M Saif Ali, Muhammad Shahid, Tania Kanwal	Smoke & Flame Detection
17	Maryam Mehmood, Shakeela Kamal, M Mudassir	Room Humidity & Temperature Control and their display on LCD
18	Mudassir Ameen, Asma Nasim, Muhammad Asif	Incubator
19	Muhammad Nasir, Aatika Fayyaz, Kashf Noor	Solar tracker robot using Microcontroller
20	Rabia Shahzadi, Wajahat Ali, Sufyan Ahmed	Blind Belt
21	Saima Khatoon, Sidra Ishaq, Behram Khan	Password based Door Lock System
22	Shayan Ishfaq, Shaista Firdous, Umama Abbasi	Human detection Robot using IR Sensor
23	Mehboob Ahmad	Old Cars to run on electric power