

Event Report

DICE-AFS Innovation Event 2022

October 30-31, 2022

MNS University of Agriculture, Multan

Compiled and edited by:

Prof. Dr. Nasir Nadeem

Department of Agribusiness and Applied Economics

Dr. Sami Ullah

Assistant Professor

Department of Agribusiness and Applied Economics

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Summary

Innovation is aimed to bring new ideas and technologies that increase productivity and generate greater output and value. In countries like Pakistan, which face severe climate changes and poverty, a sustainable supply of food has become the pivotal agenda for policymakers. Innovative ideas to address these issues and research-based solutions for regional issues can solve these challenges. DICE is a strategic initiative of the DICE Foundation, USA, aimed at nurturing innovations and entrepreneurship culture in the country at all levels. DICE foundation has been mobilizing Academia, Industry and Government institutions across Pakistan since 2007 by organizing innovation events in the country every year. The idea is that all stakeholders should come to a common platform to showcase innovations and technologies, share knowledge and enhance collaboration with each other for the rapid implementation of the new products and ideas which are necessary to address challenges and socio-economic development of the country. The DICE foundation backs multidisciplinary innovation events in almost 8 different domains of professional education such as Energy, Textile, Health, Engineering, Computer Sciences and Agriculture & Food Sciences etc. Among many platforms provided by the DICE foundation, DICE Agriculture and Food Sciences (AFS) stands out due to its novelty and importance to sustain a population in terms of food, fibre and shelter. Whereas, the DICE Innovation event caters to the susceptibility of innovations in different domains and calls upon nationwide institutions to share their prospects within a conducive environment.

As the food supply is under severe threat due to climatic changes, which is quite evident after the recent floods, research-based solutions and innovative ideas that are readily adaptable and serve the purpose are much needed. MNS University of Agriculture Multan took the privilege of hosting this event in Multan for the first time in 2019, then in 2021 and 3rd time in 2022 since its incubation in Pakistan from 2007. The event successfully showcased the participation of 23 universities and 141 proposals were displayed. The total number of participants was more than 1800. The Event was graced by renowned personalities who appreciated the work of students and encouraged them to step up and play their role in the progress of the nation. The event also showcased a machinery and technology display, a seminar on “sustainable availability of healthier food /diet in current climate change context”, a food street and fun fair and several other scientific activities and cultural festivity. The said event proceeded as a platform to bring along people from academia,

industry and chambers of commerce to act as stakeholders and future investors/users of advancements in the agriculture and food industry.

DICE- Agriculture and Food Science 2022

MNS University of Agriculture, Multan is an HEC recognized higher education institution that started its academic activities in 2012. During the short period of its existence, the University has made rapid progress in terms of expansion of its academic programs, students' enrolment, physical infrastructure, campus network, and hiring of highly qualified and experienced academic and administrative staff. As a matter of fact, MNSUAM has been considered as one of the fastest growing academic institutions in the country. The primary objective of the University is to elevate the socio-economic status of farmers and to provide education in various faculties of agriculture and other branches of knowledge, make provisions for research and development and service to society. There is a strong sense of openness at MNSUAM as the University actively interacts with the surrounding institutions and society at large through continuous dialogues and knowledge exchange. With a learning-based environment and new perspectives, the University aims to contribute to a better future. Agriculture is and will remain the largest employer of the workforce and a source of livelihood for the masses. Pakistan's population is expected to surpass 300 million by 2050, which implies that agriculture production ought to enhance out of ever-shrinking cultivated areas to take care of future demand.

MNSUAM focuses on providing opportunities for showcasing innovative and entrepreneurial ideas and providing a platform for academia industry linkages. The students of MNSUAM had participated in various innovative competitions across Pakistan and get recognition for their ideas.

The MNS University of Agriculture, Multan in collaboration with the DICE (Distinguished Innovations, Collaboration and Entrepreneurship) foundation USA organized DICE AFS & Innovation event 2022 Innovation Competition and Industrial Expo at University on 30-31 October 2022. The event was attended by hundreds of students, faculty, and industry from all across Pakistan. Students displayed their Agriculture and Food Science related projects in DICE-AFS- 2022 along with the display of agro-based industrial stalls. During the event, almost 141 ideas were presented by the students. Several renowned speakers (domestic & international) from academia, industry and government/sector also participated in national Seminar sessions and shared their experiences on various topics. Various notables from academia and

Industry stakeholders attended the event. Print & electronic media at the local, as well as national level, provided coverage for the event and exhibition.

DICE Foundation, USA

DICE-Agriculture & Food Sciences and Mega Event is one of the major initiatives of the DICE Foundation. Since its inception in Pakistan in 2007, It has been conducted multiple times at the University of Agriculture, Faisalabad. In 2019 MNSUAM took pride in organizing DICE-AFS for the first time in south Punjab and 2nd Dice was organized in December 2021. In 2022, with the collaboration of the DICE Foundation, MNSUAM organized the DICE-AFS Innovation Event 2022 on 31 October 2022. The annual DICE Innovation & Entrepreneurship event is one of the major initiatives of the DICE Program and has been conducted every year since 2007. The idea behind the event is to motivate academia, industry, government, entrepreneurs and expatriates to come to a common platform to showcase innovations and technologies, share knowledge and further collaborate with each other for the rapid development of innovative products, necessary for the socio-economic development of the country.

DICE Foundation is a non-profit, tax-exempt organization, registered in Michigan, USA. DICE Foundation in collaboration with its domestic and international partners, is pursuing a DICE Program in Pakistan. To foster a culture of Innovation and Entrepreneurship in the country and transform Pakistan into an innovation-driven economy, the DICE foundation has taken several initiatives such as DICE Agriculture & Food Sciences Innovation Event, DICE-Automotive, DICE-Energy, DICE-Health, DICE-Textile and DICE Information & Enabling Technologies. MNS University of Agriculture, Multan organized DICE-AFS Innovation Competition and Industrial Expo to encourage the participation of students with their innovative ideas in the field of Agriculture and Food Sciences.

DICE-Agriculture & Food Science and 2022

The major objectives of the DICE-AFS Innovation Event 2022 are as follows:

Objectives

- To foster a culture of Innovation and Entrepreneurship in the country and make it part of the Nation's DNA
- To establish a strong linkage between academia and agriculture and food sciences industry and provide a common platform for academia, industry, government, entrepreneurs and expatriates to interact, share knowledge and collaborate on innovations and commercialization, to promote the indigenous agriculture and food sciences industry in the country
- To create a positive and favourable image of Pakistan's agriculture and food sciences industry in the community of the nation.
- To speed up the technology revolution in Pakistan by motivating both academia and industry to acquire, promote and utilize state-of-art technologies/high-tech software for the rapid development of innovative agriculture and food products.
- To inculcate entrepreneurial skills in the outgoing graduates and post-graduates to enable them job providers rather than job seekers.

Participation Criteria

The following Participation criteria were developed for the participating teams in the DICE-AFS Innovation Event 2022:

- Student teams working on Agriculture and Food sciences-related research/innovations, from any HEC, recognized degree awarding university/institution across the country.
- Each team can have a maximum of three members. Preferably each team should have one member from the Agriculture and Food Sciences Industry.

The innovative projects were from any of the following thematic areas

- Agriculture, Food & Veterinary Sciences
- Biological, Medical & Physical Sciences
- Engineering & Technology, Computer Sciences & Information Technology
- Arts & Humanities, Business & Social Sciences

Registration Process

Following registration process was chalked out to follow to get registered for the event:

An online registration portal was created as <https://mnsuam.edu.pk/index.php/afs>

A team member for each project should register on the Innovation Portal.

(<http://www.diceinnovationportal.com>)

The registering teams were to follow the following key steps:

Step 1

Register yourself as team leader at DICE-AFS by **Signing Up**

Step 2

Visit your email account for the **Activation of Account**

Step 3

Submit your innovative idea after getting **Signed In**

Step 4

Register your proposal on DICE Innovation Portal

www.diceinnovationportal.com

Project Requirements

The project requirements were as follows:

- Participating teams were to submit an innovative project idea, a one-page project description and details of team members at the time of registration.
- Teams were to utilize state-of-art technologies/software to design the innovative product concept.
- Projects having strong potential to benefit local industry/ economy were given special consideration.
- Teams were to submit the complete project report including the business plan prior to the final event before the deadline (report template was available on the (<http://mnsuam.edu.pk/diceafs/>) website).
- Teams were to display their projects on the final day of the event and were to present for evaluation.

Judgment and Evaluation

A panel of Judges consisting of experts, from both academia (the majority of judges from outside of the host institution) and industry were exclusively invited for the evaluation. All displayed projects were reviewed by DICE-AFS judges and out of them, the top 13 projects were recommended for the first three positions and 10 projects for a special prize. The following Evaluation Criteria were planned to evaluate the projects.

- Degree of Innovation (20%)
- Value for money (20%)
- Readiness for commercialization (prototype, business plan) (20%)
- Importance for the community (20%)
- Presentation (20%)

DICE-2022 Winners & Awards

In order to acknowledge the endeavours of students, cash prizes and shields were awarded to the DICE-AFS-2022 participants. First, second and third prizes were given to the winners as per the above-mentioned criteria by DICE Foundation USA.

Prizes & Shields

- First and second prize is given in each of three groups of disciplines:
 - **Group A:** Engineering & Technology, Computer Sciences and Information Technology
 - **Group B:** Physical Sciences and Agricultural Sciences
 - **Group C:** Arts & Humanities, Business and Social Sciences
 - **Group D:** Biological Sciences, Medical Sciences and Veterinary Sciences
- A Cash Prize of Rs 100, 000 along with DICE shields are awarded to 1st position holders.
- A Cash Prize of Rs 60, 000 along with DICE shields are awarded to 2nd position holders.
- A Cash Prize of Rs 40, 000 along with DICE shields are awarded to 3rd position holders.
- Special prizes of Rs 10,000 are awarded to 10 teams.
- All Participant teams will be awarded certificates of participation.
- Industry participants (those having stalls) were given DICE 2022 shields.
- All invited speakers, judges, and chief guests were awarded DICE 2022 shields

DICE-AFS Winners & Awards

In order to acknowledge the considerate efforts of students, cash prizes and shields were awarded to the DICE-AFS-2022 participants. First, second and third prizes were given to the winners as per the following criteria.

- First Prize: Cash Prize of Rs. 100,000/- along with DICE-AFS | 2022 Shield
- Second Prize: Cash Prize of Rs. 60,000/- along with DICE-AFS | 2022 Shield
- Third Prize: Cash Prize of Rs. 40,000/- along with DICE-AFS | 2022 Shield
- Top ten best of the best projects were awarded cash prizes Rs.10,000/-
- All participating teams were awarded certificate of appreciation

Prominent Participation

MNS University of Agriculture Multan in collaboration with DICE, USA, organized 3rd one-day "Agriculture and Food Sciences Innovation Event" on 30-31 October 2022. Mr. Hussain Jahanian Gardezi, Provincial Minister for Agriculture inaugurated the event. He said that Innovation is need of time in agriculture and food sciences to ensure food security through a healthy diet. He said Universities are engines of research and the promotion of innovation and entrepreneurship through such activities is inevitable. Vice Chancellor, MNS University of Agriculture Multan, Prof. Dr. Asif Ali Khan (S.I.) said that the university has provided a conducive environment for entrepreneurial activities to equip students with the required skills to promote a culture of business and entrepreneurship in agriculture. Secretary Agriculture (South Punjab), Dr. Faisal Zahoor said that Government has been focusing on Agriculture to ensure food security in the country through integrated efforts. He said Agriculture Department has been creating awareness among farmers to tackle the issue of climate change.

DG Agriculture, Dr. Anjum Butter said that Agriculture Department has achieved its target of cultivation of wheat which is a good sign for Pakistan where the food security situation has tightened due to drastic rains and floods. DG Research Dr. Nawaz Maiken said that Agriculture Research Wing has been working to develop new crop varieties which are vital to promote sustainable agriculture in the country.

Dr. Khurshid Qureshi, CEO, DICE said, in an era of climate change, it has become a huge challenge to feed ever-increasing population. He said countries like Pakistan have to develop local technologies to overcome such challenges in a sustainable way.

Several dignitaries participated in this event including, VC, Baha-ud-din Zakriya University Multan Prof. Dr. Kundi, VC, Cholistan University of Veterinary and Animal Sciences, Prof. Dr. M. Sajjad Khan, CEO, GAINS, Ms. Farah Naz etc.

Students and Faculty Members from 30 Universities presented more than 90 innovative business ideas. There were around 15 stalls of different industries and business firms set up at the event. Large numbers of students and families visited the stalls and appreciated the efforts of students. Students' projects were evaluated based on innovation, services to the community and several

other variables. Winning business ideas were awarded seed money to expand their businesses for the betterment of communities.

Participating teams exhibited their innovative ideas/concepts/products in this professionally designed exhibition. Several renowned speakers (domestic & international) from academia, industry and government also graced the appeared in national Seminar sessions and shared their notable experience on various topics. The Vice Chancellor of various universities, national and provincial ministers, and members of parliaments.

Fact Sheet

Participating Universities	23
Total Projects (Submitted)	141
Total Projects (Displayed at Event)	135
Foot Count	1600
Participating Teams in Food Street	15
National Speakers	10

DICE-AFS 2022 Winners

Position	Project Title	University	Prize
1 st Position	Aerial Spraying Drone and Weed Detection	NCRA, NUST	PKR 100,000
2 nd Position	Eco-Friendly thin PDLC films Technology	BUTTEMS, Quetta	PKR 60,000
3 rd Position	Agriculture Water Indication System	GCT, (Women) Bahawalpur	PKR 40.000

Special Prize (PKR 10,000/- each)

Sr.No.	Project Title	University
1	Diabetes Mellitus control by E-health through on invasive device	MNSUAM
2	Eco friendly smart Organic paper soap	BUIITEMS
3	Bio-methane Fuel Production from Agri. and Animal Waste: Green, Renewable, & Circular Economy energy	MNSUAM
4	Bio-degradable plastic	Dow University of Health Sciences, Karachi
5	Combining superior agronomic traits with heat tolerance in hemp to increase production potential in warm humid Gangetic Plains of Pakistan	UAF
6	High resolution flexible time temperature indicator (FTTI) for food quality control.	GIKJ
7	Formulation of Lavash Crackers by incorporation of spinach leaves powder and rosemary to target mental illness*	JUW
8	Innovative Stev- Barley Biscuits	UCP Lahore
9	Golden Drink - An immune booster Nano encapsulated curcumin drink	UMT
10	Stress Saviors	BZU

Seminar on sustainable availability of healthier food /diet in current climate change context

Department of Food Science and Technology in collaboration with GAIN organized the seminar on the eve of DICE-AFS 2022. The theme of the seminar was the “sustainable supply of food under changing climatic condition”. The chief guest, Mr. Syed Hussain Jahania Gardezi said that sustainable food for ever-increasing population is a need of the time. He said the role of agricultural scientists is very important. The Worthy Vice Chancellor, Prof. Dr. Asif Ali. Various prominent speakers including Ms. Farrah Naz, Choudhary Faiz Rasool, Prof. Dr. Mubashir Mehdi, Dr. Muhammad Abdul Saboor, Engr. Mahmood Riaz, Mr. Munawar Husain, Prof. Dr Umair Arshad, Dr. Rao Wali Muhammad, Mubarak Ali Sarwar, Secretary Agriculture South Punjab, and Prof. Dr. Shafqat Saeed emphasized the importance of the sustainable provision of food under changing climatic conditions. Worthy speakers stressed on the adoption of a healthy diet which has low environmental impact should be promoted as an important climate change mitigation strategy. Typically, these diets are high in plant-sourced and low in animal-sourced and processed foods. Despite the fact that their environmental impacts vary, they are often referred to as ‘sustainable diets’. The event ended at 2 pm and Dean FAES Prof. Dr. Shafqat Saeed concluded the session.

Food Street and Fun Fair

Food Street and Fun Fair were held on 31st October 2022 at MNS-University of Agriculture Multan in which students from different department like Food Technology, Agribusiness and Applied Economics, Institute of Plant Breeding and Biotechnology, Human Nutrition and Home-Economics participated in this event. Different student groups who secured funding from YES-Network for social entrepreneurship also participated in this event and represented different food products. The objective of the food street was to exhibit their skills in cooking and could get experience to start their own business in the near future. Participants visited the stalls and acknowledged and appreciated the efforts of the students.

Machinery and Technology Display

Machinery and Technology Display 2022 was organized by MNS University of Agriculture Multan., Agricultural Mechanization Research Institute, Noori Agro and Cotton Research Institute and other industries participated in this event University and institutes research outcomes were also displayed in the event Which included cotton harvesters, garlic planter, tree pruner, Cotton Stalk Puller Shredder, Solar desiccant dryer, High-efficiency seed drill, Honey Hives and high-efficiency irrigation system. Prototypes of a roller mill, cotton ginning machine, and automatic hatchery, autonomous car, prepared by the students of BSc Agro-Industrial Engineering Technology were also displayed at the expo. The display was helpful to aware the public and farmers of the development of new technologies in the field of agriculture. Such machinery and equipment could be utilized to increase the overall efficiency of farm operations right from sowing to harvesting and transportation. The nexus of Agriculture and Industry is in need of time to boost the economy of our country which more than half population depends upon the agriculture sector. At this event visitors and guests from different backgrounds visited the expo and shared their opinion as well for future research streams. The visitors appreciated the efforts of the university in organizing the successful event.

Cultural Festivity and Gala Dinner:

On the eve of DICE-AFS 2022, cultural activity was organized to celebrate the richness of cultural diversity, via showcasing the talents of university students to preserve, value, and promote nationalism. Furthermore, all artists and cultural professionals have benefited from the interchange and the diversity among participants who have joined from all over Pakistan. The said event provided a platform for the student to create harmony and develop contacts for the future. The MNS University of Agriculture Multan believes in collaboration and has always succeeded with the approach in all segments of society.

Program Closing Ceremony

The Innovation event was concluded by Syed Hussain Jahanian Gardezi; Provincial Minister of Punjab for Agriculture. He addressed the participants regarding the need for modern and innovative solutions to lead the nation towards a sustained and progressive future. The sustainable

supply of food for the increasing population under changing climatic conditions is the need of the time. The government has been focusing on innovative ideas for the sustainable provision of a healthy diet to the masses. He concluded by wishing the start-ups well, both in the partnership with their prospective sponsors, He encouraged start-ups to be benefited through valuable mentorship support, capital access, start-up incubation opportunities, and launchpads to be connected to the rest of the world. This will provide aspiring entrepreneurs with the resources and environment to help unlock the value of innovation and translate innovative ideas into commercialized products and services. Lastly, he extended his congratulations to the winners of the DICE AFS Innovation Event and motivated them to transform these ideas into workable solutions.

A vote of thanks by Prof. Dr. Asif Ali, Vice Chancellor of MNS-UAM and Patron in Chief of the DICE AFS Innovation Event 2022 was extended to the chief guests and participants.

Sponsors

The DICE-AFS and Innovation Event – 2022 organizers are obliged to the following sponsors for providing sponsorships for DICE-AFS & Innovation Event 2022.





We create chemistry



Pictorial view of inauguration





Pictorial view of Machinery and Technology Display





Compost Windrow Turner ALP-AE-066



Organic Compost



Compost Handling



Compost Process



Compost Piling

Windrow Turner to improve the compost quality.

Machine Objectives:

- The most simple and cost effective method to produce high quality compost for soil fertility.
- Maintain the Oxygen percentages of greater than 10 % inside the pile.
- Provide the ideal moisture content is around 50 to 60 % with proper mixing of compost.
- Maintain the carbon to nitrogen (C/N) ratio of about 30:1 from the initial stage to 10 to 20:1 as till the proper digestion of compost pile.
- Provide the ideal range of temperature for effective composting is between 45 to 65°C through proper mixing.
- Reduce the Compost size with turner blades motion.
- Simple controls and excellent visibility for the driver and operator.

Principal Investigator:
Dr. Engr. Sarfraz Hashim
Co-PI:
Dr. Alamgir Akhtar Khan
Dr. Muqarrab Ali

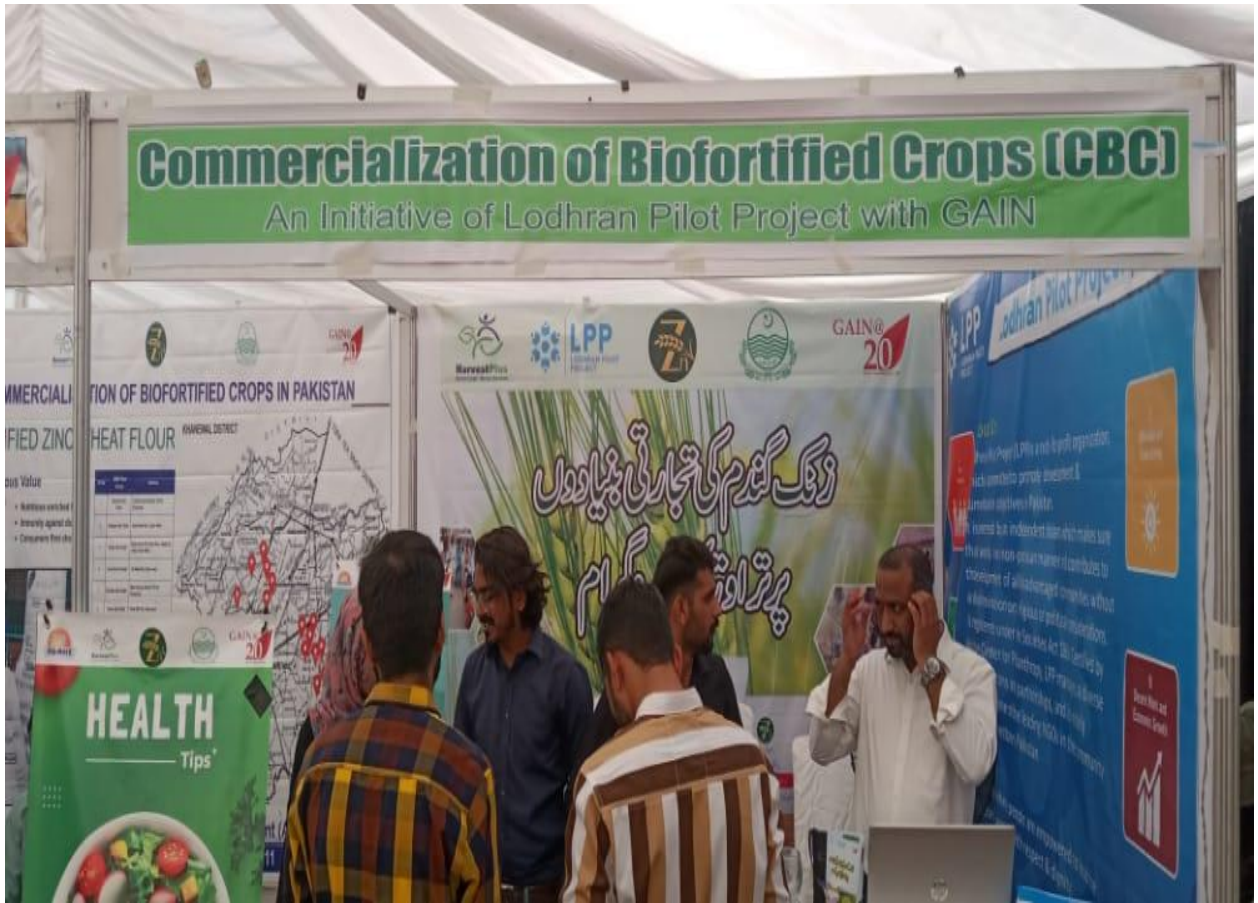
Research Associate:
Engr. Aftab Khalifa
Team Member:
Dr. Tariq Sultan
Dr. Imran Ali
Engr. Farukh Ehsan

Department of Agricultural Engineering,
Faculty of Agricultural Biosystem Engineering & Technology,
MNS University of Agriculture Multan

Project Funded by PARC-ALP (AE-066)

Pictorial view of Stalls





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University of Agriculture, Faisalabad

MNS UNIVERSITY OF AGRICULTURE MULTAN

Benefits
of Protein, Vitamins & Minerals
of Cancer
nt (Pre-mature aging)
Omega-3 & Omega-6
health
cardiovascular diseases
energy level
ment of muscle
ulation & meta

FIRST INTENSIVE FISH FARM OF PAKISTAN

Pond Raceway System
IN-POND RACEWAY SYSTEM
(IPRS) DEMO SITE by USSEC
IN PAKISTAN

USSEC
SOY



The Pioneer

High Protein
Low Fat
Low Sugar
Low Sodium
No Artificial
Flavors

FISH CHIPS
Crispy Fried Fish
Crispy Fried Fish
Crispy Fried Fish



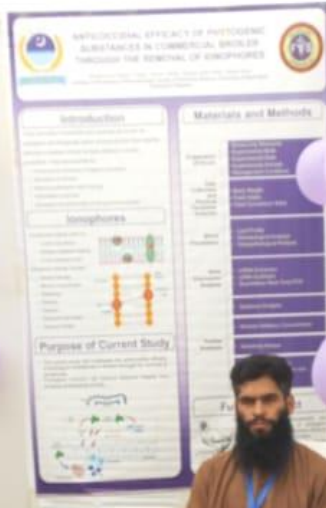
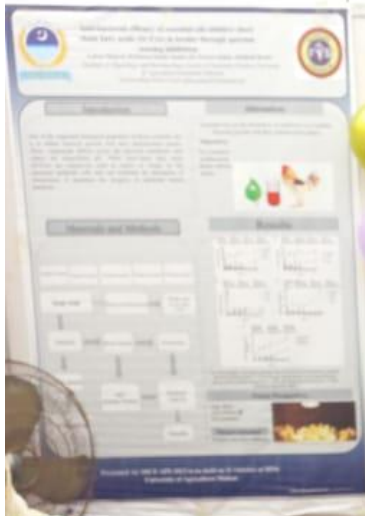
The Pioneer Foods



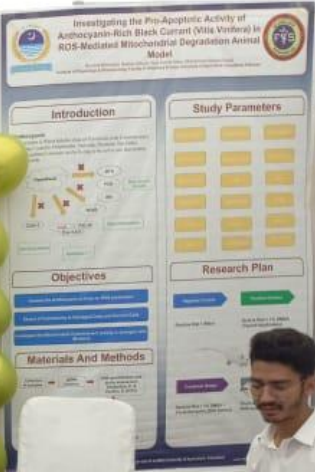
The Pioneer Foods

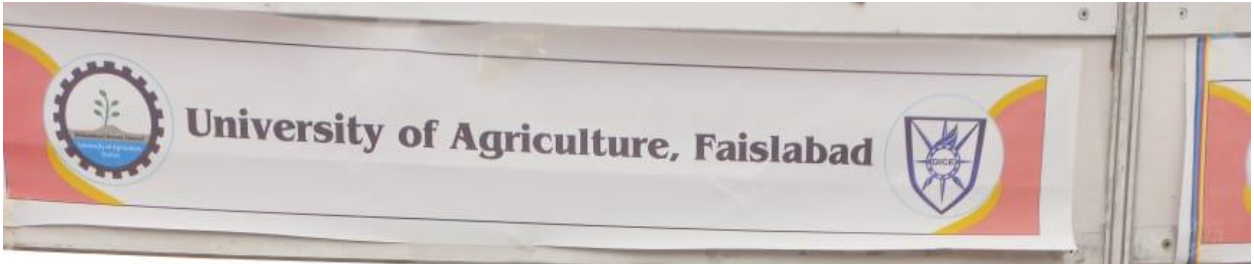


University of Agriculture, Faisalabad



**UNIVERSITY OF AGRICULTURE,
FAISALABAD**





puchick.
SPACE FOR LOCAL ARTISTS
f t i n @puchickstudio

DICE2022
A WEB SPACE FOR LOCAL ARTISTS
WHY PUCHICK?
FOLLOW THE PATH, BE ONE OF US

Electricity
Production With Agriculture Waste
F.M Marketing
Alternate Energy
Wood Gasification Power Plant
BENEFITS:
• It Generates Electricity And Heat According To The Principle Of Combined Heat And Power
• It Significantly Reduces Lower Quantity Of Air Pollutants
• Electricity Is Generated By Using All Types Of Agricultural Waste
• This Plant Also Uses Less Water Than Traditional Coal Based Power Plants
• This Project Is Taking Example Of British Innovation In Sustainable Construction In Malaysia

Management of Termites through Baiting
• Termites are important pests of wood and wood products, trees and crops
• Very difficult to control in existing structures
OUR CLAIMS
• We provide effective termite control
• Complete elimination of colonies
• No drilling in the building
• Environment friendly control
Colony Elimination



iculture,



STS

DICE2022

A WIDE SPACE FOR LOCAL ARTISTS

WHY PUKOD?

FOLLOW THE PATH, BE ONE OF US



Electricity

Production With Agriculture Waste
F.M Marketing
Alternate Energy

Wood Gasifier

- BENEFITS:**
- It is a clean energy source
 - It is a renewable energy source
 - It is significantly cheaper than other energy sources
 - It is a clean energy source
 - It is a clean energy source
 - It is a clean energy source

Management of Termites through Baiting

- Termites are important pests of wood and wood products, trees and crops
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OUR CLAIMS

- We provide effective control of termites
- Complete elimination of termite colonies
- No drilling in the building
- Environment friendly termite



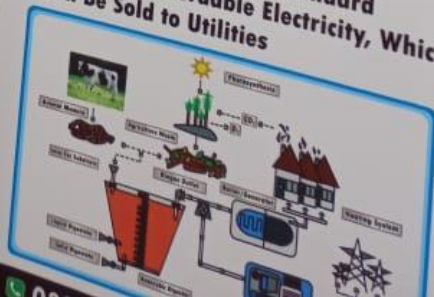
Electricity

Production With Biogas

F.M Marketing
Alternate Energy

BENEFITS:

- Very Low Maintenance & Operational Cost
- Regular Supply of the Gas All Over The Year
- Liquid & Solid Fertilizers That Can Be Used In The Cultivation of Land As It Contain A Prominent KNP Ratio
- Cleaner Environment
- Advancement In Living Standard
- Clean And Affordable Electricity, Which Can Be Sold to Utilities





MNS University of Agriculture
Multan

MNSUAM
presents
DISTINGUISHED
INNOVATION
COLLABORATION &
ENTERPRENEURSHIP

DICE2022

A WEB SPACE FOR LOCAL ARTISTS

puchick.

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Management of Termites through Baiting

We Offer:

- Effective long lasting control of termites
- Complete elimination of termite colonies
- No drilling in the building
- Environment friendly termite control



...ation & services, please contact
...mabk12@gmail.com
...AGENCY.

DICE2022
A WEB SPACE FOR LOCAL ARTISTS

WHY PUCHICK?

FOLLOW THE PATH, BE ONE OF US!

Electricity
Production With Agriculture Waste
F.M Marketing
Alternate Energy

Wood Gasification Power Plant

BENEFITS:

- It Generates Electricity And Heat According To The Principle Of Combined Heat And Power
- It Significantly Reduces Green House Gas Emission
- Gasoline Is Generated By Using 80 Tons Of Agriculture Waste
- This Plant Also Use Very Little Fuel
- Low Sound Power Plant
- The Project Is Being Supported By A Rich Investment In Sustainable Generation In Pakistan

Management of Termites through Baiting

- Termites are important pests of wood and wood products, trees and crops
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OUR CLAIMS

- We provide effective control of termites
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The Women University Multan



Recycling Cloth

My Business Plan
for design clothes and sell them
Develop an application for the
recycling process.
Provide recycling and selling
services to people who use old clothes.

Mission
Mission is to help
people who use old clothes
to recycle them.



MY BUSINESS PLAN

My business plan is to make terrarium
which are made of small plants and
animals in a glass container. They are
popular and easy to make. An open terrarium
can house small, hardy houseplants.
But for more sophisticated plants
waiting for light and other conditions
they do exceptionally well in the
closed environment.

PRODUCT
Terrarium which is made of the
plants and small animals and
kept in a glass container. A good
example of a terrarium is a
fishbowl.





The Islamia University of Bahawalpur



New Communication Assistant

ASSISTANT

ASSISTANT!

DICE AFS 2022

HARIS HERBAL
Handmade Products

Problem Statement

Now a days we are facing many skin issues due to the use of unhygienic condition, pollution, age and low standard chemical rich cosmetics.

SOLUTION

Haris Herbal uses blended to create fragrance from these ingredients like natural herbs like rose and other products to our customers address. This Haris Herbal focus is on growing and only reliable for all handmade products with a range of soaps, lotions, toners and other skin care products to make the skin more suitable and healthy.

Business model

evaluation of poly-herbal on Arthro-fit: A pilot study

Zahar, Hazratia Sahib, Araf Iqbal

ABSTRACT

RESULTS



HARIS HERBAL

There is a lot to love about Haris Herbal Handmade Products eco friendly, Economical Wonderful for your Skin Unprocessed, free from harmful additives, and crafted with care.














<http://www.facebook.com/harisherbal>
www.harisherbal.com

To start your business...



**Ghulam Ishaq Khan Institute of
Engineering Sciences and Technology,
KPK**





**Balochistan University of Information
Technology, Engineering and Management
Sciences (BUIITEMS), Quetta**



nt of Food T
ge of Technolog
a Fortified Ap

BUIITEMS
Quality & Excellence in Education
Eco friendly thin films based smart glass panel technology

ABSTRACT
To prepare a smart glass polymer dispersed liquid crystal (PDLC) thin-film panel, the liquid crystalline material is dispersed into a liquid polymer on the morphology of the polymer matrix via heat curing system. In this study we have prepared PDLC films or smart glass by the thermal polymerization-induced phase separation (PIPS) method, with a thickness of 25.0 ± 1.0 μm controlled by a polyethylene terephthalate (PET) spacer and optimal preparation condition was 30% Nematic Liquid Crystal (LC) with a curing time 5 hours at 80°C. When the polymer changes from liquid to solid, the liquid crystal becomes incompatible with the polymer film. The film can be processed by standard techniques to have large, Eco friendly, and environmentally robust display and light shutters. The paper describes PDLC films and their properties in a simplified approach, suitable for teaching the devices based on such films to students of university courses.
Key Words: smart glass, morphology, Nematic Liquid Crystal, polymer matrix

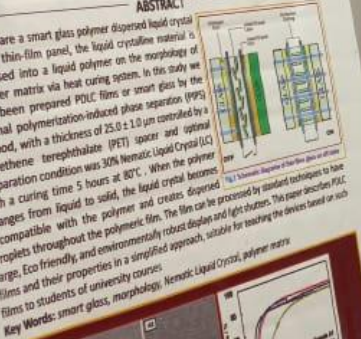


Fig. 4 Photograph of smart glass thin PDLC device (a) OFF and (b) ON state.

Acknowledgements
This work was supported by the Higher Education Commission (HEC) of Pakistan, a project of Technology development fund (TRDP-USA) and No. 001 Awards Project (BUIITEMS 2014-2015) of BUIITEMS. The authors also thankful to the Balochistan University of Information Technology, Engineering and Management Sciences (BUIITEMS), Quetta for Material Polymer Science Laboratory facilities and special thanks to International Polymer Industry, Islamabad for technical assistance.

References:
1. Ghali, M.V. & Razaq, S. Balochistan, M. Jangir, M., Sameer, Memon, (2015) Study on the synthesis of smart PDLC films using physical group 1-90 in freshwater and carbon. Journal of Engineering and Management Sciences (BUIITEMS), Quetta, Vol. 10, No. 01, pp. 1-10.
2. M. T. Razaq, M. Jangir, M. Jangir, M., Sameer, Memon, (2015) Study on the synthesis of smart PDLC films using physical group 1-90 in freshwater and carbon. Journal of Engineering and Management Sciences (BUIITEMS), Quetta, Vol. 10, No. 01, pp. 1-10.
3. M. T. Razaq, M. Jangir, M. Jangir, M., Sameer, Memon, (2015) Study on the synthesis of smart PDLC films using physical group 1-90 in freshwater and carbon. Journal of Engineering and Management Sciences (BUIITEMS), Quetta, Vol. 10, No. 01, pp. 1-10.

Stall No. 48 A

BUIITEMS
DICE AFS 2022
A Project of Higher Education Commission (HEC) of I.R. Pakistan, (NHRP-9254) ; Flexible PET/ITO Coated Smart Films Technology
"Eco-Friendly Thin PDLC Films Technology"

Man in dark suit sitting at the table.

Man in red shirt standing at the table, looking at a device.

Table with electronic equipment and samples:

- Blue power supply
- Resistors and wires
- Box labeled "PET/ITO Coated Film"
- Box labeled "PET/ITO Nematic Coated PDLC-Film"
- Box labeled "70V"

Man in dark suit standing, holding a notebook and pen, looking at the equipment.



**Bahauddin Zakariya University,
Multan**



REGNANT BIOREFINERY
(Sustainability is the key to a better future)

Biogasifier is a system that biologically digests organic material in anaerobic conditions (without oxygen). Microbes and other bacteria break down organic materials in a biogasifier and produce biogas.

BIOGAS COMPONENTS

- Compost
- Methane
- Carbon dioxide

BIODIGESTION

• Adsorption



REGNANT BIOREFINERY

WHO WE ARE?

Regnant Biorefinery is a green tech-based startup developing biogas technology to meet household gas requirements.

WHAT IS BIOGAS AND HOW IS IT PRODUCED?

Decomposition of organic waste produces biogas in biogasifier, after its purification, it can efficiently be used for cooking purposes.

SDGS WE ARE ADDRESSING

- Goal #7: Affordable and clean energy
- Goal #13: Climate Action

WHAT MAKES US DIFFERENT?

- Our biogasifier is portable
- Filter unit provides single step upgradation of biogas
- Economical

Regnant Biorefinery

FAQ

WHO WE ARE?

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- Filter unit provides single step upgradation of biogas
- Economical

Permanent Magnet
(pole motor)

Engineering at Regnant International is efficient and the improved increased cost to manufacture every new motor could save a billion dollar idea.

Motor

Design Test, Layout & Operation

Development

pe

red

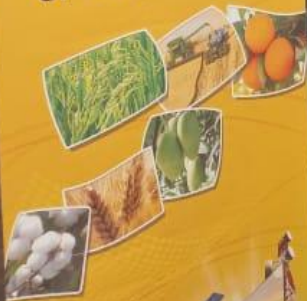
Directorate of Agricultural Information
Agriculture Department, Punjab



Prosperity Grows
with the seed of knowledge



Prosperity
Grows
with the seed
of knowledge



Prosperity Grows
with the seed of knowledge



Directorate of Agricultural
Information, Punjab
www.punjab.gov.pk



FS INNOVA
MP
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ART VISION
COMMERCE
BUSINESS

APPROACH ON OF RICE CASE USING LEARNING

Model

set represents the first concept of correction
ing to increase the degradation problem of
age image features to deep neural networks, and
also creates another gradient vanishing problem
introducing a batch normalization layer and max
pooling layer with proper initialization of weights. However,
initial Networks is a common neural network that
serves as the base for many machine vision applications.



Detection

Stall No. 56 B

ABCD AR game

ABCD-AR (Augmented Reality) Learning Game for pre-school kids

ABCD-AR Game is an interactive augmented reality game for pre-school kids to read, write and learn alphabets. The game is designed to be more engaging than traditional methods of teaching which can often be boring for children. The use of technology in learning can help make it more fun and exciting for children while also helping them to gain knowledge. Game has ability to bring children creativity and imagination to real world.

FLOW OF GAME



Augmented Reality (AR)

AR is the ability to superimpose computer-generated objects on the physical world, thus changing the perception of the physical world. To experience AR, users have to wear markers (glasses) and use AR-enabled computer-generated images. AR is used in many applications.

FACE

OUTCOMES

- Enhance the learning capability
- Increase creativity
- Encourage kids
- Increase attention and engagement
- Make a child's fast learner
- Add information and meaning to the real object.

FUTURE

Development of AR-based learning applications for pre-school kids.

ABCD AR game

ABCD-AR (Augmented Reality) Learning Game for pre-school

OUTCOMES

- Enhance the learning capability
- Increase creativity
- Encourage kids
- Increase attention and engagement
- Make a child's fast learner
- Add information and meaning to the real object.

SCAN QR CODE



Team Leader: Fatima Aslam (fatima.aslam.cs@gmail.com)
Team member: Maim Aslam
Supervisor: Dr. Abdul Razaq (abdur.razaq@muhammad.edu.pk)
Muhammad Nawaz Sharif University of Agriculture Multan

GAME INTERFACE



REACH & CONTINUING EDUCATION



MNS UNIVERSITY OF AGRICULTURE MULTAN

S. NO	COURSE TITLE	DURATION	FEE
1	Cyber Security	1 Month	2000/-
2	Introduction to Amazon and Digital Marketing	1 Month	2500/-
3	The Science of Cooking & Baking	15 Days	
4	Computer Application in Office	1 1/2 Months	
5	Business Management, Presentation Skills and Practices in	1 Month	
6	Chinese Language	3 Months	
7	Landscape Designs	3 Months	
8	Introductory Stitching Course	2 Months	
9	Spray Application Techniques and Selection of		
10	Design of NEIS with Solar		Rs.5000/-
11	Tractor Operator		Rs.5000/-
12	Use of Agriculture Machinery/Implement		
13	Welding and Solid Works		
14	Painting		

Dr. Iqbal Yasin
JALABAD Road,

Fruit Based Products

Pickles

Skills arranged by trainees of:
Processing Preservation Package Assistant Course

DEPARTMENT OF
HORTICULTURE & CONTINUING EDUCATION
MNS UNIVERSITY OF AGRICULTURE, MULTAN





MNS University of Agriculture,
Multan



Stall No. 57 A

Stall No. 57 B

SITY OF /GRICULTURE MULTAN

100% INTENSIVE FISH FARM OF PAKI

EMPHASIS ON WATER QUALITY SYSTEM
3 PHASE DEMO SITE BY USSEC
IN PAKISTAN

USSEC

USSEC

USSEC

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SHARAN's
ORGANIC
Apple Cider
Vinegar
SHARAN HERBAL AND FOOD SUPPLEMENT



 **Government College Of Technology,**
Rahim Yar Khan 

 **Technical Education and Vocational Training Authority**
(TEVTA)
DICE AFS
31 Oct 2022
Innovation Competition and Industrial

BUSINESS INCUBATION AND AGRICULTURAL ENTREPRENEURSHIP CENTER

TECHNICAL EDUCATION & VOCATIONAL TRAINING AUTHORITY (TEVTA)
Government College of Technology, R.Y.Khan

CNC WRITER / ENGRAVER

An engraver is an automatic writing machine used for engraving on various materials. It uses a flexible nib pen to move the tip onto the writing surface. CNC writer is able to draw coordinates are uploaded to the separate program. The image file is transferred via Software. Then the code is transferred by which the motor mechanism is triggered.

What is the opportunity? / What do you want to achieve? Multi task CNC machine which can be used for engraving logo and sketching a picture.

Timeline/ schedule/ Duration The delivery of CNC writer can be delivered within 15 days.

In touch with? The CNC machine and may be sold to a sketching and a drawing maker. As a tool, it can be used as Engraver, Engraving machine or decorative piece. It can be used for engraving on wood, plastic and metal.



of CNC writer working at Government College of Technology, R.Y.Khan.

procedure/ Call on F

deliver our service to anyone, it is a framework to support the investment by risk management systems, due diligence, makes sure that portfolio will remain healthy.

Government College of Technology, R.Y.Khan

A man in a light blue shirt is operating a CNC engraving machine on a white table. A laptop is open next to the machine. A woman in a white uniform with a green sash that says "PREFE" is standing nearby. Another man in a grey shirt is also present. The background features a banner for the DICE AFS competition.



Technology,
an



Government College Of Technology (Women),
Bahawalpur



Technical Education and Vocational Training Authority
(TEVTA)

DICE AFS
31 Oct 2022



on Compete and Industry Expo

TECHNICAL EDUCATION
VOCATIONAL TRAINING AUTHORITY
(TEVTA)
Government College of Technology, R.Y.Khan

Project Name: CNC Writing Machine
The machine is a computer controlled machine used for engraving and cutting. It is used for making parts of machines and other components. The machine is controlled by a computer program. The machine is used for making parts of machines and other components. The machine is controlled by a computer program. The machine is used for making parts of machines and other components. The machine is controlled by a computer program.

Investment procedure/ Call on Projects

Project Name
"Smart Water Indication System"



Cultural land.
ect
that when a farmer irrigates
system provides guidance to
reached their other edges.
it will not have to go to the
ect the presence of water.
ter and receiver, as soon as
the wire, the signal goes to
merizes the indication alarm.

Project
an be easily built.

Technology for Women
pur





FoSJ University of Central Punjab Year: 1438 Basmillah FOOD SCIENCE & TECHNOLOGY

Al-Qalab

Presented by: Ali Murtaza Shah and Muhammad Hanaf

Importance:
Ajwa date seed powder can be used for medicinal, medical purpose and treatment of several chronic diseases. The results of Ajwa dates also offers vital vitamins, including fiber and potassium, with a huge range of phytochemicals which have been associated with increased insulin sensitivity and the power to treat the nerve disorders. Cholesterol with the sachet of Ajwa seed powder is full of nutrients and true for the fitness of diabetic patients.

Benefits:

- To expand date sweets for the diabetic patients to fulfil their cravings
- To utilize the date seed and innovate the brand new type of chocolate
- To expand a product for the curing of cardiovascular diseases
- To develop high organic food product of dry fruits
- Ajwa dates have the power to treat rare diseases

Al-Qalab
"Let food be thy medicine, and medicine be thy food."
Dr. Haniya
www.fostech.com

Al-Qalab
"Let food be thy medicine, and medicine be thy food."
Dr. Haniya
www.fostech.com

University of Central Punjab,
Lahore



Stall No. 70 B



FOSJ



VERMICELLI BITES

Presented by: Afshan Ismail and Falah Noor

Importance:

Vermicelli is rich in carbohydrates and instant source of energy production, it is fat and cholesterol free. Especially designed for children as an alternative of candy because sweetened condensed milk is also used which plays a role in their growth and development.

Benefits:

- Reduces blood pressure.
- Prevents future heart problems
- Improves digestive system
- Prevents constipation
- Builds strong bones

Bioactive compounds:

- Lactoferrin
- Lignans
- Antioxidants



2
3
8
12







UMT
 Dice Agriculture and Food Sciences
DICE-AFS
 GROUP MEMBERS:
MAHNOOR
M.ZEESHAN

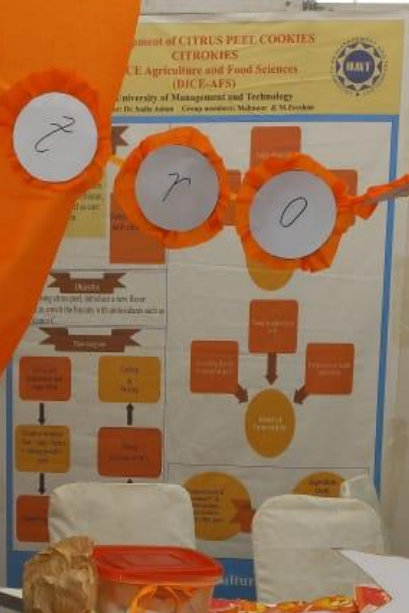

CITROKIES

CITRUS IN EVERY BITE

Ingredients
 All purpose Flour
 Sugar
 Salt
 Eggs
 Butter
 Orange Peel
 Orange Juice
 Vanilla Essence
 Baking Powder

Nutrition facts
 Serving Size: 1 cookie
 Amount Per Serving: 1 cookie
 Calories 100
 Total Fat 5g
 Total Sugar 10g
 Total Protein 2g

Citrookies
 Made with real citrus peel



CITRUS
IN
EVERY
BITE



The Women University Multan

Muhammad In...
Allied S...

DICE AFS 2022 30-31 October 2022

From Food For Food

Supervisor: Dr. Humaira Yasmeen

Members: Iram Asim, Habiba Rizvi Khan, Hafiza Masuma Faheem

Abstract

25 % of mango is made up of kernel making up to 4575 % of the seed. Currently being used as animal feed but can be used to produce flour or edibles.

Introduction

Mango kernels are wasted every year in bulk. But it can provide as an alternative source for wheat flour with similar nutrient values then it would be great help in this era of inflation.

Methodology



Importance

Proximate analysis

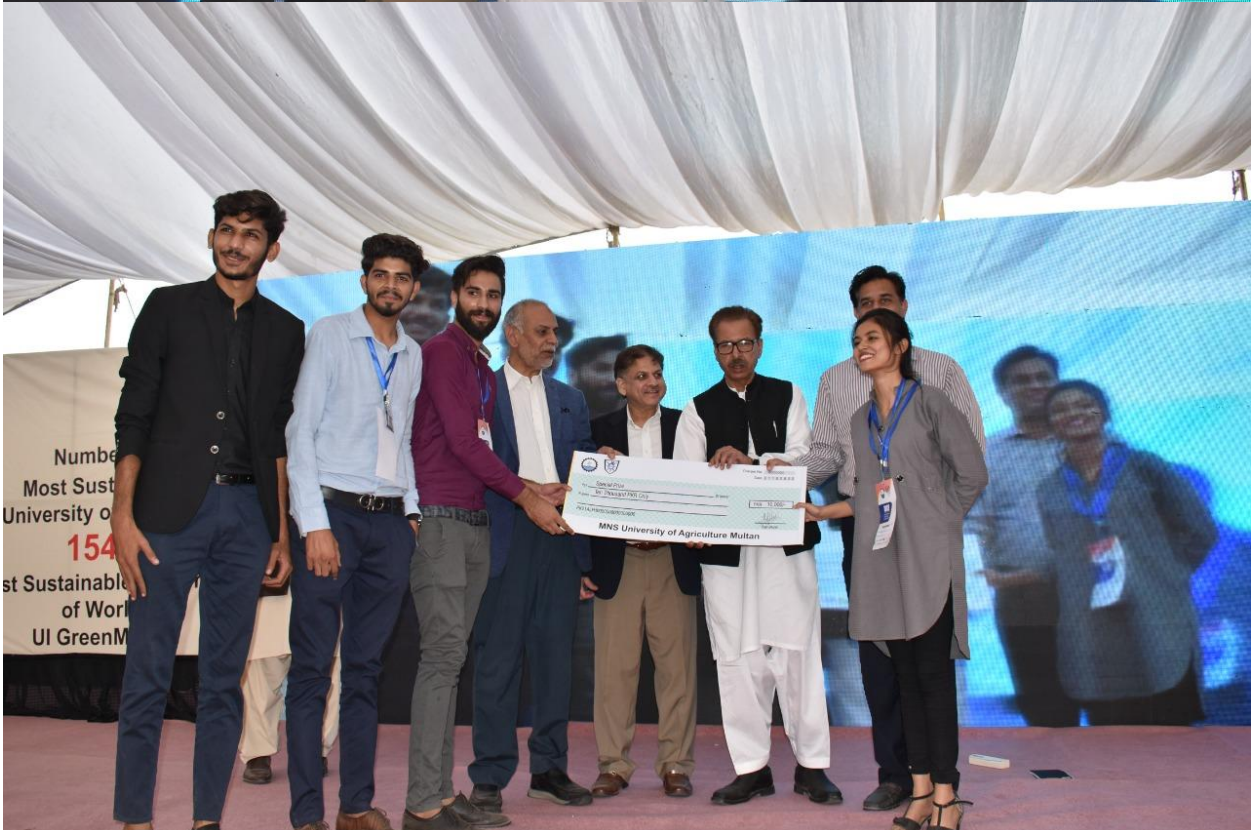
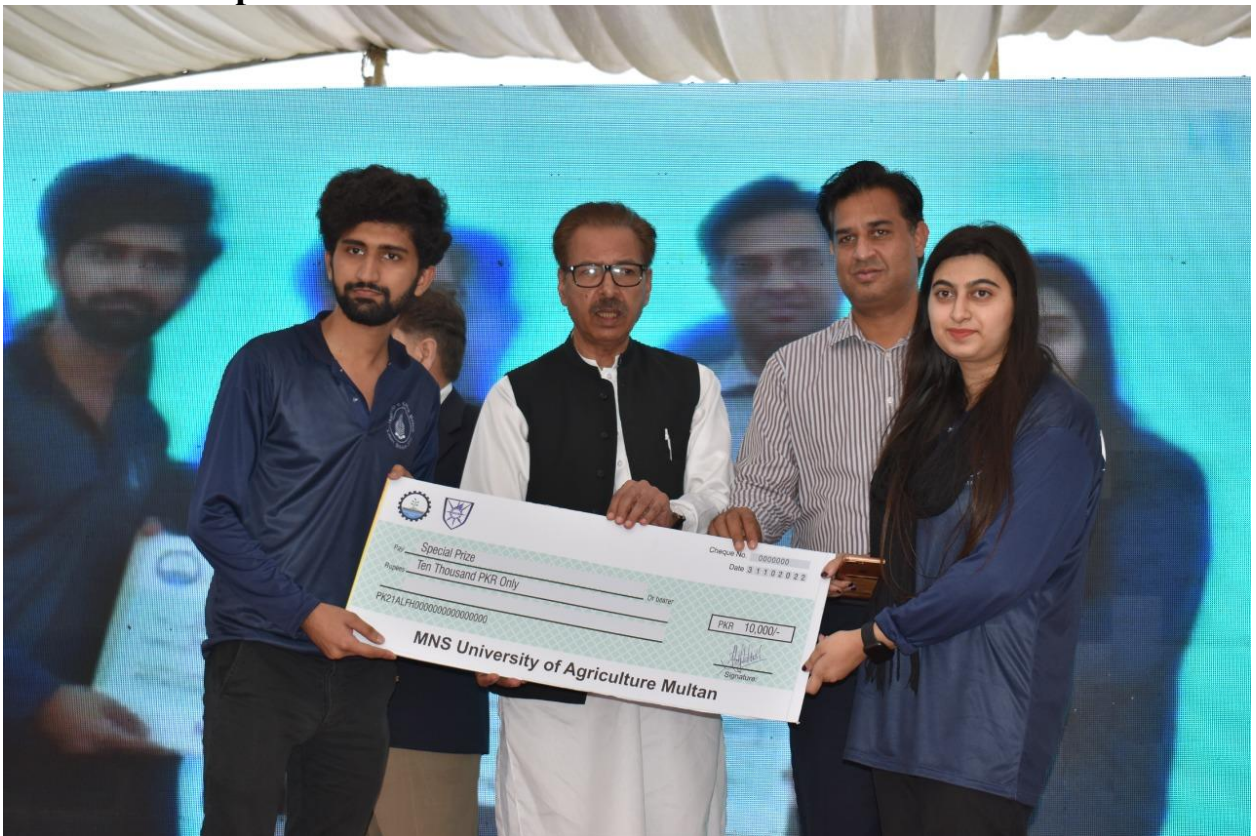
FROM FOOD FOR FOOD

DPT. MM





Pictorial view of price distributin

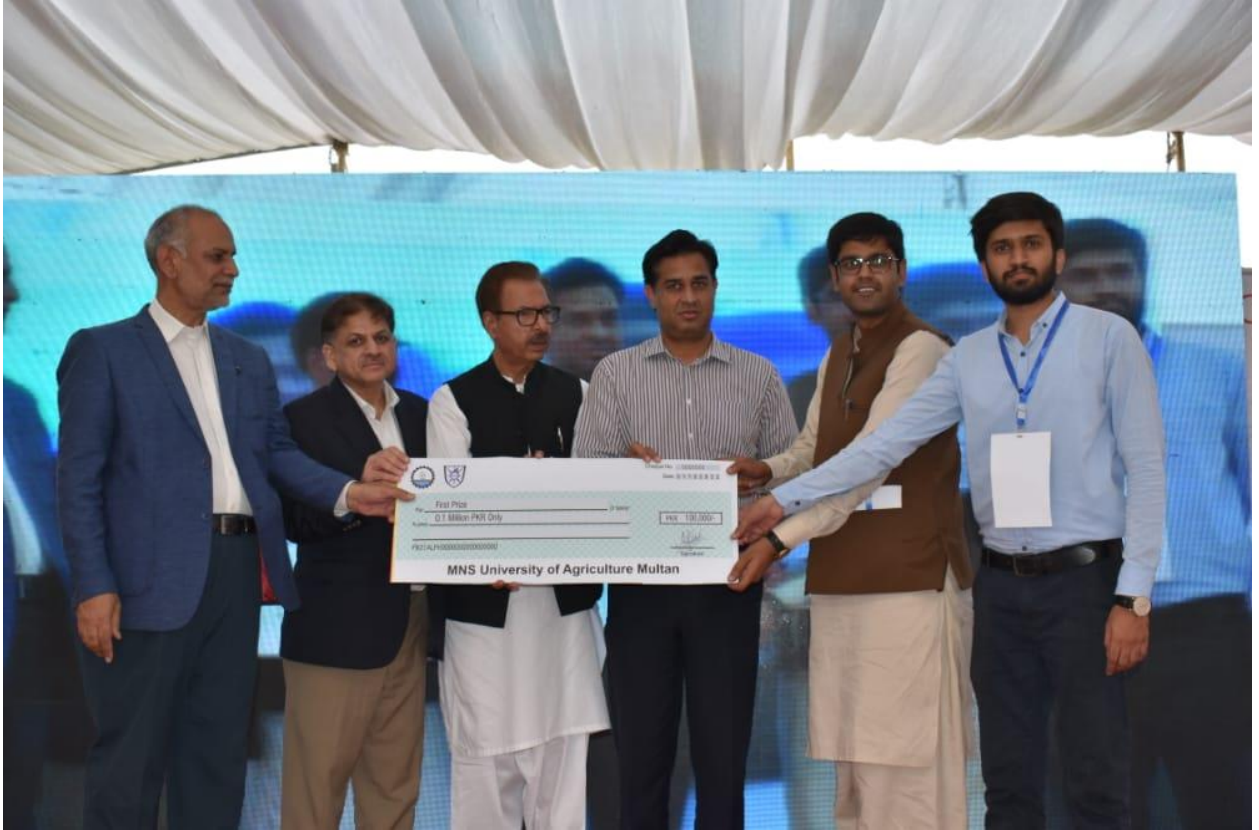












Cultural Night





Appendix-I
List of Ideas Applied and Selected

Sr. No.	Project Title/ Business Idea	Category	Institute	Team Leader	Team Members	Supervisor
1	Venova Burgers	Food Science	University of Central Punjab Lahore	Dr. M. Sajid Manzoor	Humna Mehmood	Dr. M. Sajid Manzoor
2	Al Qalab	Food Science	University of Central Punjab Lahore	Ali Murtaza Shah	Saliha Ishtiaq	Dr. Shoaib Younus
3	Edible Dust	Food Science	University of Central Punjab Lahore	Malik Muhammad Haroon Awan	-	Malik Muhammad Haroon Awan
4	Innovative Stev- Barley Biscuits	Food Science	University of Central Punjab Lahore	Hiba Naveed	Ahmad Faraz	Dr. Sanabil Yaqoob
5	Dates Pit Coffee	Food Science	University of Central Punjab Lahore	Ahmad Faraz	Hiba Naveed	Dr. Sanabil Yaqoob
6	Baked Oats	Food Science	University of Central Punjab Lahore	Fakharunisa	Irza Abid	Dr. Sanabil Yaqoob
7	WAMSEA ROSE BAR	Food Science	University of Central Punjab Lahore	Nawal Haroon	Wajecha Batool	Dr. Kanza Aziz Awan
8	Whey-Grapico drink	Food Science	University of Central Punjab Lahore	Khadeeja fiyaz	Rida Iqbal	Ukasha Arqam
9	Vermicelli Bites	Food Science	University of Central Punjab Lahore	Afshan Ismail	Falah Noor	Dr. Shoaib Younus
10	OATMEAL GALLETAS	Food Science	University of Central Punjab Lahore	Ali Ijlal Aleem	Mehvish Iftikhar	Ms. Samia Tahir
11	Crazy nuts smoothery	Food Science	University of Central Punjab Lahore	Ali Ijlal Aleem	Hina Arshad	Mr.Waleed Sultan
12	Piquant rolls	Food Science	University of Central Punjab Lahore	Zahra Akbar Yazdani	Shazia Imran	Itrat Fatima
13	VEGETOS	Food Science	University of Central Punjab Lahore	Areeba Irfan	Zakia Akram	Dr. M. Sajid Manzoor
14	Fortified fruit bar	Food Science	University of Central Punjab Lahore	Zakia Akram	Areeba Irfan	Dr. M. Sajid Manzoor
15	Dry fruiteria	Food Science	University of Central Punjab Lahore	Maryam Nadeem	Omaima Maryam	Dr. Ayessha Murtaza
16	Strawberry fizz cocktail	Food Science	University of Central Punjab Lahore	Ummehani	Muhammad Saad	Dr. Kanza Aziz Awan
17	Crazy Banana Fryday	Food Science	University of Central Punjab Lahore	Ammar Wasim	TalhaWasim	Mr.Waleed Sultan

18	Peach Bunch	Food Science	University of Central Punjab Lahore	Fahad Jamil	UneeB Zia	Dr. Kanza Aziz Awan
19	Immuno Drops	Food Science	Nur International university, Lahore	Adeenah Imran	Khansa	Dr. Zainab Akbar
20	CARDIOBARS	Food Science	Nur International university, Lahore	Memona Nadeem	Fatima Ali	Dr. Zainab Akbar
21	CardioBars for CVD patients	Food Science	Nur International university, Lahore	Areeba Zulfiqar	Memona Nadeem	Dr. Zainab Akbar
22	Extraction of gelatin from Fish Waste	Food Science	University of Agriculture Faisalabad	Moazzam Khan	Hassan	Dr Amna Sahar
23	Sweet Flavourent	Food Science	University of Agriculture Faisalabad	Muhammad Zaman	Laiba Awan	Muhammad Zaman
24	Aloe Vera Candy	Food Science	University of Agriculture Faisalabad	Muhammad Aleem	Mudassar Afzal	Muhammad Aleem
25	Extruded snacks enriched with protein and carbohydrates: A remedy to malnutrition	Food Science	University of Agriculture Faisalabad	Muhammad Waseem	Lariab Haider Naqvi	Dr. Yaqoob Majeed
26	Freshness and Quality index of Foods: AI Based Technology	Food Science	University of Agriculture Faisalabad	Muhammad Waseem	Muhammad Muzzammil Sajjad	Dr. Yaqoob Majeed
27	Utilization of commercially available red bell peppers in traditional tomato sauce for the formulation of functional sauce enriched with healthy fats	Food Science	University of Management and Technology, Lahore	Aqsa Akhtar	Syed Mishal Rashid	Aqsa Akhtar
28	Development of Protein and Micronutrient Enriched Lentil Chips as Gluten-free Healthy Snacks	Food Science	University of Management and Technology, Lahore	Anum Ishaq	Tayyaba Akhtar	Anum Ishaq
29	Development of Novel Instant Bechamel Sauce	Food Science	University of Management and Technology, Lahore	Anum Ishaq	Ayesha Riaz	Anum Ishaq
30	Preparation of folic acid rich sauce	Food Science	University of Management and Technology, Lahore	Sadia Aslam	Zainab Nadeem Rai	Dr. Sadia Aslam
31	DEVELOPMENT OF VALUE-ADDED AND NUTRITIONALLY	Food Science	University of Management and Technology, Lahore	Wahab Nazir	Ms. Mubashir Munir	Wahab Nazir

	ENHANCED ROSE PETAL SAUCE					
32	Development of Mushroom and Chia Seed-enriched Functional Cookies from Oat and Buckwheat Flours for Lactating Mothers	Food Science	University of Management and Technology, Lahore	Hafiz Ubaid ur Rahman	Kainat Hassan	Hafiz Ubaid ur Rahman
33	Formulation of Micronutrient-enriched Beef Liver Creamy Pasta Sauce	Food Science	University of Management and Technology, Lahore	Abdul Rehman Jami	Iqra Nasim	Hafiz Ubaid ur Rahman
34	Golden Drink - An immune booster Nano encapsulated curcumin drink	Food Science	University of Management and Technology, Lahore	Rashid Iqbal	Ghulam Fizza	Dr. Nauman Khalid
35	Formulation of Banana-Infused Oat Flour Muffins	Food Science	University of Management and Technology, Lahore	Nauman Khalid	Muhammad Faran Asif, Nazir	Dr. Nauman Khalid
36	Development of Citrus Enriched Cookies	Food Science	University of Management and Technology, Lahore	Sadia Aslam	Muhammad Rizwan	Dr. Sadia Aslam
37	Leinsamen Sauce (Multi Seed Sauce)	Food Science	University of Management and Technology, Lahore	Waqas Asghar	Muhammad Muwahid Amjad	Waqas Asghar
38	Development of Antioxidant-rich Ready-to-Eat (RTE) Energy Bites	Food Science	University of Management and Technology, Lahore	Waqas Asghar	Azka Sajid	Waqas Asghar
39	Thwart Mutans Herbal Mouthwash	Food Science	The Women University Multan	Anila Liaqat	Uzma Bilal	Dr. Shazia Perveen
40	From Food For Food	Food Science	The Women University Multan	Iram Asim	Hubza Ruatt Khan	Dr. Humaira Yasmeen
41	Evaluation of anti-clotting and thrombolytic potential of aqueous extract of Jasminum sambac	Food Science	Muhammad Institute of Medical and Allied Sciences, Multan	Gul-E-Mizgan	Qurat-Ul-Ain	Miss Saba Kousar
42	Utilization of water chestnuts in the production of cake	Food Science	Muhammad Nawaz Shareef University of Agriculture Multan	Qurat ul ain	Muhammad Kaleem	Qurat Ul ain
43	Development of olive oil enriched mayonnaise	Food Science	Muhammad Nawaz Shareef University of Agriculture Multan	Aliza Batool	Zahid Rafiq	Prof. Dr. Umar Farooq
44	OPTIMIZATION OF PERISHABLE FRUIT'S SHELF-LIFE THROUGH IoT	Food Science	Muhammad Nawaz Shareef University of Agriculture Multan	Syed Wajahat Mashkooor	Hafiz Muhammad Ajmal Naseer	Dr. Ayesha Hakim

45	Value Addition of storage tomatoes using AI	Food Science	Muhammad Nawaz Shareef University of Agriculture Multan	Mubeen Rauf	Syed Wajahat	Ms. Javeria Jabeen
46	Food Technology	Food Science	Government College Of Technology, Old Harapa Road, Sahiwal	Hasnat Ali	Muhammad Usman Hamid	Muhammad Usman Hamid
47	PAK-EcoMode	Food Science	Jinnah University for Women	Maliha Firdous	Saima Riaz	Ms. Aasma hashmi
48	CHOCOFLAX (Development Of Chocolate From Flax Seed And Coconut With Caramel)	Food Science	Jinnah University for Women	Syeda Nindya Tanver	Fatima Nishat	Dr Muhammad Arsalan
49	Replacement of whole wheat grain pasta from wholesome and nutritious beans pasta	Food Science	Jinnah University for Women	Meshal Anwer	Nihan Atif	Nida Kashif
50	Formation and characterization of low glycemic index bitter gourd candy for diabetic patients.	Food Science	Jinnah University for Women	Rimsha Zahid	Mutahira Wakeel Khan	Dr Muhammad Arsalan
51	Lavender Jam	Food Science	Jinnah University for Women	Kiran Adnan	Kainat Rauf	Ms Munzira
52	Development of mineral rich cupcakes with the incorporation of water chestnut flour.	Food Science	Jinnah University for Women	Asra Faizan	Ariba Usmani	Dr Muhammad Arsalan
53	Making nutraceutical milk supplement by utilization of Safed musli, water chestnuts and tragacanth gum for eliminate joint pain.	Food Science	Jinnah University for Women	Tooba Maqsood	Sadia Asghar, Sheema Erum	Ms Kanza Jamil
54	Utilizing ashwagandha extract for the development of nutraceutical tablets manifesting anti-anxiety effect paired with herbal seeds extract aiding in cognitive disorders.	Food Science	Jinnah University for Women	Faryal	Aimman Waqar	Aiman Yaseen Butt
55	Formation of non medicated anti-tussive and anti-influenzal lozenges for reducing covid related symptoms.	Food Science	Jinnah University for Women	Hafsa Anjum	Hania Aziz	Aiman Yaseen Butt
56	Development of milk toffee with the incorporation of Matricaria chamomilla (chamomile) to relief	Food Science	Jinnah University for Women	Afifa Shakel	-	Ms Aqsa Ajaz

	from GAD (Generalized Anxiety Disorder)					
57	Laveneach lemon instant drink.	Food Science	Jinnah University for Women	Nimra Arshad	Qandeel Ansar	Ms. Nida Iqbal
58	Preparation of goose berry jam with incorporation of flax seed for prevention of hair fall and boosting immune system	Food Science	Jinnah University for Women	Qudsia Baig	Rimsha	Mehak Ahsan
59	Study of Nutritional Profile of Muffins enriched with Calcium by using powders from different sources.	Food Science	Jinnah University for Women	Maheen Naz	Sumbul Humayoon	Rafia Masood
60	Development of innovative neutraceutical naan khatai with inclusion of tulsi seeds and strawberry for improving mental health	Food Science	Jinnah University for Women	Areeba Aslam	Fatima Zafar	Aiman Yaseen Butt
61	Formation of cucumis sativus and limonene candy, center filled with tamarind and mint to cure anxiety and depression	Food Science	Jinnah University for Women	Aarefa Yousuf	Javeria Amanullah	Ms. Khadija
62	Calcium Rich Oat-milk Cookies (Incorporation of eggshells and oat-milk)	Food Science	Jinnah University for Women	Amna Mahmood	Amna Jawaid	Saniya Tayyab
63	Formulation of Lavash Crackers by incorporation of spinach leaves powder and rosemary to target mental illness.	Food Science	Jinnah University for Women	Yusra Kirmani	Bisma Rashid	Ms Kanza Jamil
64	FORMULATION OF PANCAKE MIX BY INCORPORATION OF BOTTLE GOURD POWDER	Food Science	Jinnah University for Women	Alifyah Aun Ali	Alifyah Aun Ali	Ms Kanza Jamil
65	Utilization of fish skin and fish bones along with aloe Vera gel in the formation of quice for Alzheimer and depression	Food Science	Jinnah University for Women	Sheema Erum	Syeda Khuban Khawaja, Ttooba Maqsood	Ms. Anum
66	Cycle-Pay: A revamping project for better health	Food Science	Jinnah Sindh Medical University, Karachi	Dr. Hina Rehamn	Hisham Mustafa	Dr. Hina Rehamn
67	Sweet dream (Spray for depression)	Food Science	Salim Habib University, Karachi	Riffat Maryam Ansari	Filza Arzoo	Dr. Jamshed Arsalan,

68	Automatic Ambulant	Food Science	Salim Habib University, Karachi	Syeda Fakhra Jalal	Talha Khan	Gul Munir Deedar
69	Monolaurin additive with short chain fatty acid: A novel preventive and therapeutic approach against Colibacillosis and Salmonellosis in commercial broiler	Agri. Business and Veterinary Sciences	University of Agriculture Faisalabad	Alishbah Roobi	Saima Ali	Dr. Muhammad Naem Faisal
70	Anticoccidial efficacy of phytogetic substances in commercial broiler through the removal of ionophores	Agri. Business and Veterinary Sciences	University of Agriculture Faisalabad	Usman Haider	Najeeb Ullah Khan	Dr. Muhammad Naem Faisal
71	Anti-bacterial efficacy of essential oils additive short chain fatty acids (SCFAs) in broiler through quorum sensing inhibition	Agri. Business and Veterinary Sciences	University of Agriculture Faisalabad	Lubna Majeed	Jawad Aslam	Dr. Muhammad Naem Faisal
72	Investigating the Pro-Apoptotic Activity of Anthocyanin Rich Black Currant (Vitis Vinifera) in ROS-Mediated Mitochondrial Degradation Animal Model	Agri. Business and Veterinary Sciences	University of Agriculture Faisalabad	Momna Mehmood	Nabeel Ahmad	Dr. Bilal Aslam
73	Services and awareness	Agri. Business and Veterinary Sciences	University of Agriculture Faisalabad	Ali Haider	Sidra tul Muntaha	Dr. Waseem Ahmad
74	Consultancy Services	Agri. Business and Veterinary Sciences	University of Agriculture Faisalabad	Sohail Khalid	Afaq Ali	Dr. Waseem Ahmad
75	Early Detection of Diseases in cows using IoT and Sensors	Agri. Business and Veterinary Sciences	Muhammad Nawaz Shareef University of Agriculture Multan	Ahmer Hafeez	Dr. Abdul Razzaq	Dr. Abdul Razzaq
76	Industrial Symbiosis using Blockchain	Agri. Business and Veterinary Sciences	Muhammad Nawaz Shareef University of Agriculture Multan	Sundus Shafiqie	Syed Wajahat	Dr. Ayesha Hakim
77	Stress Saviours	Agri. Business and Veterinary Sciences	Bahauddin Zakariya University Multan	Syed Muhammad Musa Raza Bukhari	Bareera Tahir	Syed Ali Aqa Gardezi
78	Effect on bodyweight and physiochemical indices of growing rabbits fed on diet supplemented with Rumex vesicarius leaf meal	Agri. Business and Veterinary Sciences	Muhammad Institute of Medical and Allied Sciences, Multan	Perwasha	Qurat-Ul-Ain	Dr. Imran Ahmad Khan

79	Evaluation of therapeutic potential of curcumin with and without strengthening exercises in improving rheumatoid arthritis	Agri. Business and Veterinary Sciences	Muhammad Institute of Medical and Allied Sciences, Multan	Maliha Khalid Khan	Iqra Aslam	Dr. Imran Ahmad Khan
80	Recycle clothing app	Agri. Business and Veterinary Sciences	The Women University Multan	Dr.Abida Aziz	Rabia Aslam	Dr. Abida Aziz
81	Plant Terrarium	Agri. Business and Veterinary Sciences	The Women University Multan	Dr.Abida Aziz	Faiqa Tehseen	Dr. Abida Aziz
82	Handmade skincare products manufacturing to fight skin and hair ailments	Agri. Business and Veterinary Sciences	Islamia University Bahawalpur	Ghous Nazneen	Fahad	Dr. Asif
83	Organic Neem Pesticide	Agriculture Sciences	Dow University of Health Sciences, Karachi	Namira Irfan	Muhammad Tauseeq Haider Naqvi	Aliya Shujat
84	Biofertilizer with Azospirillum Brasilense as a Plant-Growth Promoting Bacteria for Agriculture Sustainability	Agriculture Sciences	Dow University of Health Sciences, Karachi	OMAIMA BOKHARI	Sehrish Butt	Sehrish Butt
85	Bio-degradable plastic	Agriculture Sciences	Dow University of Health Sciences, Karachi	Ahsan Khalid	Namira Irfan	Sehrish Butt
86	Eco friendly smart organic paper soap	Agriculture Sciences	Balochistan University of Information Technology, Engineering and Management Sciences (BUIEMS), Quetta, Pakistan.	Dr. Mujataba Ellahi	Syed Nasrudin	Dr. Mujtaba Ellahi Arain
87	Combining superior agronomic traits with heat tolerance in hemp to increase production potential in warm humid Gangetic Plains of Pakistan	Agriculture Sciences	University of Agriculture, Faisalabad	Sadia Qadir	Nimra Firdous	Zaheer Ahmad
88	Agriculture nanobionics: fabrication of pristine nanoparticles doped on	Agriculture Sciences	University of Health Sciences, Lahore	Ahsan Riaz	Salah Ud Din	Dr. Anam Munawar

	MoS2 nanosheets act as both nanopesticide and nanofertilizer					
89	Deep-SNP for marker validation in cotton	Agriculture Sciences	Muhammad Nawaz Shareef University of Agriculture, Multan	Mahak Rafiq	Varisha Umer	Dr. Ayesha Hakim
90	Thermo-tolerant cellulose degrading bacteria for decomposition of rice and wheat crop residue	Agriculture Sciences	Muhammad Nawaz Shareef University of Agriculture, Multan	Marina Qayyum	Muhammad Junaid Asim	Dr. Muhammad Baqir Hussain
91	Development of organic wastes- and biochar-based biofilters for safe use of wastewater	Agriculture Sciences	Muhammad Nawaz Shareef University of Agriculture, Multan	Haseena Bibi	Dr. Umair Riaz	Muhammad Usman Jamshaid
92	Formulation and evaluation of the anti-inflammatory effect of topical gel of Mangifera indica with and without phonophoresis	Agriculture Sciences	Muhammad Institute of Medical and Allied Sciences, Multan, Pakistan	Qurat-Ul-Ain	Mudasar Irfan	Imran Ahmad Khan
93	Development of Plant-based Meat Analogs	Agriculture Sciences	University of Management and Technology, Lahore	Nauman Khalid	Ali Arif	Nauman Khalid
94	Organic Crocks	Engineering and Information Technology	Bahauddin Zakariya University Multan	Saboo ul Ain	Soha Ghaffar	Prof. Dr. Muhammad Najam-ul-Haq
95	Regnant Biorefinery	Engineering and Information Technology	Bahauddin Zakariya University Multan	Ammara Riaz	Abdullah Saleem	Prof. Dr. Muhammad Najam-ul-Haq
96	1.50-kilowatt Triple Repulsion BLDC MVP Motor	Engineering and Information Technology	Bahauddin Zakariya University Multan	Umer Farooq	-	Umer Farooq
97	Hatchery Incubator	Agri. Engineering	Muhammad Nawaz Shareef University of Agriculture, Multan	Hafiz Muhammad Inam Shafique	Mamoon Saleem	Dr Sarfraz Hashim
98	Carbon Monoxide Detector	Agri. Engineering	Muhammad Nawaz Shareef University of Agriculture, Multan	Ahmad Saeed	Abdul Razzaq	Dr. Nadeem Iqbal
99	Machine vision approach for early detection of rice leaf blast disease using transfer learning	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Syed Rehan Shah	Sehar Nadeem	Dr. Salman Qadri

100	Fruit Orchard Spraying Vehicle	Engineering and Information Technology	National Center of Robotics & Automation (NCRA)	Sarmad Farooq	Muhammad Talha Rafique	Dr. Nasir Rashid
101	Aerial Spraying Drone and Weed Detection	Engineering and Information Technology	National Center of Robotics & Automation (NCRA)	Sarmad Farooq	Adil Khan	Dr. Tahir Habib Nawaz
102	Fruit Matics	Engineering and Information Technology	National Center of Robotics & Automation (NCRA)	Sarmad Farooq	Adil Khan	Dr. Tahir Habib Nawaz
103	TENG as a power source	Engineering and Information Technology	Muhammad Nawaz Sharif University of Engineering and Technology	Muhammad Mehrtab Fida	Zain Javed	Engineer Humza khan
104	CNC Writer	Engineering and Information Technology	GCT Rahim Yar Khan (Mechanical)	Umer Qamar	Engr. Muhammad Rashid	Engr. Muhammad Rashid
105	Machine Learning Based Robotic Arm	Engineering and Information Technology	Government College Of Technology, (Male) Bahawalpur	Mudassir Bin Amin Bilal Ahmad	H. M. Usama Rehman, Muhammad Mahad	Engr. Rao Atif
106	Grass cutter machine	Engineering and Information Technology	Government College Of Technology, (Male) Bahawalpur	Muhammad Annas	Muhammad Zahid	Shahid Saeed
107	CNC Milling Machine	Engineering and Information Technology	Government College Of Technology, Layyah	Shafqat Amjad	Muhammad Sammar	Muhammad Pervaiz
108	Tiller Machine	Engineering and Information Technology	Government College Of Technology, Multan	Ali Naqi	Muhammad Yousuf Saifullah	Ameer Hamza
109	Electronic Probe Center Gauge	Engineering and Information Technology	Government College Of Technology, Multan	Muhammad Haseeb	Mwadat Ali	Ameer Hamza

110	Intelligent Assistant	Engineering and Information Technology	Newports Institute	Ms. Rabia Ali Khan	Ahsan Fakhar	Dr. Shafiq-ur-Rehman Massan
111	Eco Friendly thin PDLC films Technology	Engineering and Information Technology	Balochistan University of Information Technology, Engineering and Management Sciences (BUIITEMS), Quetta, Pakistan	Dr. Mujtaba Ellahi Arain	Ajab Khan	Dr. Mujtaba Ellahi Arain
112	High resolution flexible time-temperature indicator (FTTI) for food quality control.	Engineering and Information Technology	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi, Swabi, KPK	Mubashar Ali	Hamza Abbas	Dr. Ali Turab Jafry
113	Smart Solar Power Bench	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Muhammad Zahid Rasheed	Muhammad Rafi Mehmood	Ms. Javeria Jabeen
114	Smart Health Care And Hospital Management System	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Mudasar Aslam	Saad Saleem	Dr. Nadeem Iqbal
115	Investigating the role of cotton trichomes in pest management using computer vision	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Memona Manzoor	Mahak Rafiq	Dr. Ayesha Hakim
116	Realtime Earthquake Detection Smart Bed	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Muhammad Faisal Ameen	Muhammad Faisal Ameen	Ms. Javeria Jabeen
117	Streamingo (video conference application)	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Hamza Qureshi	Sana Javaid	Dr. Nadeem Iqbal

118	Stegrade	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Muhammad Nazim	Bakhtawar Abbas	Dr. Umer Chaudhary
119	Diabetes Mellitus control by E-health through Noninvasive device	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Attique ur Rehman	Shajjia Mazhar	Dr. Aamir Hussian
120	Smart Streetlight Monitoring System	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Arooj Sarfraz	Raja Shahzaib Ahmed	Dr. Aamir Hussian
121	ABCD-AR (Augmented Reality) Learning Game for pre-school kids	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Fatima Aslam	Meraj Aslam	Dr. Abdul Razzaq
122	Empowering The Extension Services with Artificial Intelligence for Cotton Crop in Multan.	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Varisha Umar	Fatima Aslam	Dr. Abdul Razzaq
123	Investigation Den	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Zahra Batool	Zubair Ahmad	Dr. Umer Chaudhary
124	Varietal discrimination of cotton seeds using digital image analysis	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Sania Luqman	Sehar Nadeem	Dr. Salman Qadri
125	Agriculture Water Indication System	Engineering and Information Technology	GCT (Women) Bahawalpur (CIT)	Neha Tahir	Nasir Mahmood	Nasir Mahmood
126	Automated IOT Based Accident location Detection & Rescue System	Engineering and Information Technology	GCT Bahawalpur (CIT)	Abdul Wahab	Husnain Ahmed, Muhammad Hamza	Engr. Hafiz Taimoor Ul Hassan
127	Arduino Based Object Detection System (RADAR)	Engineering and Information Technology	GCT Multan (Electronics)	Muhammad Zuanir Ashrif	Jaffar Ali, Rao Muhammad Athar	Engr. Attaullah

128	Economic valuation of market based services	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Shoaib	Hamza	Shoaib Nasir
129	Sugarcane disease detection using digital image processing	Engineering and Information Technology	Shah Abdul Latif University Khairpur	Sagar Rai	-	Dr Samina Rajper
130	Use of world most Pungent Bhut Jolokia chili in making insecticides for organic farming	Agricultural Science	Government College University Faisalabad	Bilal Hussain	Muhammad Usman	Syed Asif Ali Naqvi
131	Urban Pest Control Agency	Agricultural Sciences	Muhammad Nawaz Shareef University of Agriculture, Multan	Samiullah	Altaf Hussain	Dr. Nadeem Iqbal
132	Remote Computer Mouse Control	Engineering and Information Technology	Government College Women University Faisalabad (GCWUF)	Suneeza Hamid	Fatima Khatoon	Suneeza Hamid
133	E-Physiotherapist	Engineering and Information Technology	Sir Syed University of Engineering and Technology	Wahaj Rashid Khan	Hammad Javed	Haris Ahmed
134	Electronic vanity	Engineering and Information Technology	Government College Women University Faisalabad (GCWUF)	Suneeza Hamid	Arooba Abid	Suneeza Hamid
135	Breath-Ease "An ambuvent for covid 19 patients with pleth-capnography & remote wireless monitoring"	Engineering and Information Technology	Institute of biomedical engineering & technology, LUMHS Jamshoro	Warisha Shoaib	Chandrika	Engr Adeel Mehdi
136	Development of Camel milk (CAM) Ice cream	Food Science Technology	Lasbela University of Agriculture, Water and Marine Sciences, Uthal, Pakistan	Illahi Bakhsh Marghazani	Shadab Shaukat	Dr. Illahi Bakhsh Marghazani
137	Uni dehydrated products	Food Science Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Zahid Rafique	Syed Muhammad Naqi Abbas	Prof Dr. Umar Farooq

138	Multi Grain Flour	Food Science Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Muhammd Bilal	Azam Ghori	Dr. Shabbir Ahmad
139	Electricity Production from biogas	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Shoaib Abdullah Dar	Hammad Raza	Shoaib Abdullah Dar
140	Quantitative analysis of irrigation water quality parameters using sensors based dataset	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Sehar Nadeem	Sania Luqman	Dr. Salman Qadri
141	Bio-methane Fuel Production from Agri. and Animal Waste: Green, Renewable, & Circular Economy Energy	Engineering and Information Technology	Muhammad Nawaz Shareef University of Agriculture, Multan	Muhammad Maaz	Muhammad Umer Aslam	Dr. Sarfaraz Hashim

**Appendix-II
Winner Details**

DICE AFS 2022 Positions

Position	Project Title	University	Prize	Supervisor/ Focal Person Details
1 st Position	Aerial Spraying Drone and Weed Detection	NCRA, NUST	PKR 100,000	M. Tahir Habib Nawaz, 03335674843 tahir.habib.nawaz@gmail.com
2 nd Position	Eco Friendly thin PDLC films Technology	BUIITEMS, Quetta	PKR 60,000	Dr. Mujtaba Ellahi Arain, 03332991136 mujtaba.ellahi@gmail.com
3 rd Position	Agriculture Water Indication System	GCT, (Women) Bahawalpur	PKR 40,000	Nasir Mahmood, 0308-2418483

Special Prize (PKR 10,000/- each)

Sr. No.	Project Title	University	Supervisor/ Focal Person Details
1	Diabetes Mellitus control by E- health through Noninvasive device	MNSUAM	Dr. Aamir Hussian, +92 300 7317873 aamir.hussain@mnsuam.edu.pk
2	Eco friendly smart organic paper soap	BUIITEMS	Dr. Mujtaba Ellahi Arain, 03332991136 mujtaba.ellahi@gmail.com
3	Bio-methane Fuel Production from Agri. and Animal Waste: Green, Renewable, & Circular Economy Energy	MNSUAM	Dr. Sarfraz Hashim, 03014060357 sarfraz.hashim@mnsuam.edu.pk
4	Bio-degradable plastic	Dow University of Health Sciences, Karachi	Sehrish Butt, 03333728841 sehrish.butt@duhs.edu.pk

5	Combining superior agronomic traits with heat tolerance in hemp to increase production potential in warm humid Gangetic Plains of Pakistan	UAF	Zaheer Ahmad, 03005127165 zaheer.ahmad@uaf.edu.pk
6	High resolution flexible time-temperature indicator (FTTI) for food quality control.	GIKI	Dr. Ali Turab Jafry, 03354494341 ali.turab@giki.edu.pk
7	Formulation of Lavash Crackers by incorporation of spinach leaves powder and rosemary to target mental illness.	JUW	Kanza Jamil, 03202503632 kanza.jamil1@gmail.com
8	Innovative Stev- Barley Biscuits	UCP Lahore	Dr. Sanabil Yaqoob, 03100279308 sanabil.yaqoob@ucp.edu.pk
9	Golden Drink - An immune booster Nano encapsulated curcumin drink	UMT	Dr. Nauman Khalid, 03335278329 nauman.khalid@umt.edu.pk Mr. Rashid Iqbal, 03217936355
10	Stress Saviors	BZU	Syed Musa Raza Bukhari, 03475246414 stresssaviors@gmail.com

Appendix-III

Panellist Details

Sr. No.	Name	Designation and Organization
1	Dr. Saeed Akhtar	Director & Prof. in Institute of Food Scinence Technolgy, BZU Multan
2	Mr. Saif-Ur-Rehman	CEO Family Foods
3	Mr. Muhammad Fawad Ahmad Khan Kaluchi	Manager Business Development Services, SMEDA
4	Dr. Aneela Hameed	Associate Professor,in Institute of Food Scinence Technolgy, BZU Multan
5	Dr. Shabir Ahmad	Assistant Professor, Dept of FST MNSUAM
6	Dr. Muhammad Riaz	Associate Professor, BZU
7	Mr. Naveed Hashmi	CEO, Hafeez Ghee
8	Ms. Filza Mumtaz	Founder/ CEO WEEN/ Shah Pvt. Ltd.
9	Dr. Muhammad Sanabil	Assistant Professor, UCP Lahore
10	Dr. Shamas Murtaza	Lecturer MNSUAM
11	Mr. Arshad Jamil	New Jersy USA
12	Mr. Syed Ali Aqa Gardezi	Incubation Manager Reginal Plan 9, Multan
13	Dr. Afshan Shafi	Assistant Professor, MNSUAM)
14	Ms.Benish Sarfaraz	Manager BIAEC, MNSUAM)
15	Prof. Dr. Asif Yaseen	Prof. BZU Multan
16	Mr. Ali Mohsin Gardezi	CEO, Fidak Farms Pvt. Ltd.
17	Dr. Muhammad Asaf Khan	Associate Professor, MNSUAM
18	Ms. Ms. Hira Javaid	Co-Founder Foster Learning, Lahore
19	Mr. Ali Iqbal	CEO Sybrid Ltd.

20	Dr. Nadeem Iqbal	Assistant Professor, Dept CS MNSUAM
21	Dr. Sami Ullah	Assistant Prof. in Dept.of Agri.Business, MNSUAM
22	Dr. Amir Bakhtavar	Assistant Professor, MNSUAM
23	Dr. M. Shoaib	Associate Professor, BZU
24	Dr. Umair Sultan	Assistant Prof. in Dept. of Agriculture Engg.