

NEWSLETTER

Balochistan Agriculture College, Quetta.

Leading Stories

CONGRATULATIONS TO HIGH-UPS OF AGRICULTURE DEPARTMENT

It is with great pleasure to mention here that Hon'ble Mr. Zmarak Khan Achakzai and Worthy Mr. Khaleeq Nazar Kiani have taken over the charge of Minister for Agriculture & Cooperatives and Secretary Agriculture, Government of Balochistan respectively.

The College Administration and Faculty offer their most sincere *congratulations* upon assumption of their new responsibilities. We are delighted that their good selves will continue to work for the good of the people of the province.

We believe high ups will painstakingly climb the ranks with their dedication and commitment to their work.



Hon'ble Zmarak Khan Achakzai



Mr. Khaleeq Nazar Kiani

LAW DEPARTMENT VETTS DRAFT ACT OF THE BALOCHISTAN UNIVERSITY OF AGRICULTURE QUETTA

Government of Balochistan, Law and Parliamentary Affairs Department has vetted the Balochistan University of Agriculture Quetta Bill, 2018. These are the defining moments in the history of the province. The dream for center of excellence and full-fledged University of Agriculture has come true. The university will be a unique and specialized institution, with the goal of imparting researched based agricultural education to the young aspirants of this province, as well as ambitious students from all over Pakistan. It will provide high standards of expertise and experience in all fields of Agriculture.

The vetted draft was prepared under the supervision of Principal in close collaboration with universities of the country and in accordance with the standards set by Higher Education Commission of Pakistan. This is one of the outcomes of 100 days initiative of new elected government.

Special points of interest:

- Land Degradation in Balochistan: A Serious Threat to Environment and Food Security" was held on 8th September, 2018 at Press Club Quetta .
- Agriculture Innovation Program (AIP) for Pakistan.
- Significant contribution of BEEF.
- Research /Academic activities of various Departments of College.

Mission Statement

To impart quality education, knowledge & skills to the agriculture professionals for meeting the future developmental needs & challenges of diversified agriculture.

Editor-in-Chief

MUHAMMAD ASLAM NIAZI
Principal, BAC, Quetta.

Editor

AMJAD ALI
Professor, BAC, Quetta.

Managing Editor

SIKANDER SHAHZAD
Assistant Professor, BAC, Quetta.

Editorial Note



Enclosed is the Newsletter, 2018 of Balochistan Agriculture College (BAC), Quetta. It highlights some of the activities of the college during the past year. Our world is changing rapidly and BAC is increasingly challenged to nationalize its programs, faculty, and students. Every opportunity is being pursued to give more members of our faculty teaching and research experiences. The ultimate goal is achieved when these faculty use the information obtained to incorporate the national dimension into their course or into their research programs. In a similar fashion, BAC is diligently pursuing enhanced opportunities for its students. Without a doubt, increased national awareness and experience will improve the students' capacity to compete for future jobs.

Balochistan Agriculture College is making every effort to better serve our students and alumni. To achieve this objective, we need the voice of our alumni. As alumni of BAC, they are highly qualified to assist in improving the college and in making it one of the best educational institutions in the country. First, we need to hear from them and learn about their experiences at BAC. They are requested to give us their names and addresses. We will add them to our mailing list and make certain they receive future issues.

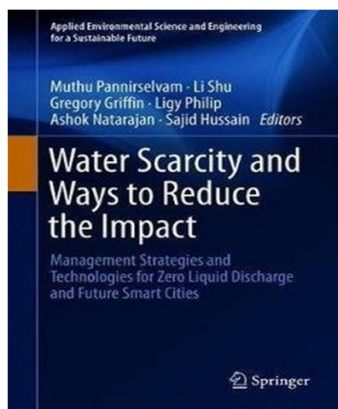
In order to have continued ties with our passed out graduates (Alumni) now serving in various capacity in different organization, we intend to tract them out and compile their complete profiles. The purpose is to reconnect them with their mother institute and to showcase & highlight recent and past successes of our alumni. We are expecting alumni of all the batches to contact us. Since many of them have been away from this place for many years, it will be wonderful to see old friends after long time and foster new ties as well.

In this regard, I request them to cooperate with us, reminisce memorable experience and share stories of success. Our beloved alumni are our valued ambassador and we would want their continued association with alma mater.

We hope you enjoy reading this years' "Newsletter". We appreciate your comments and look forward to hearing from you soon.

PROF. AMJAD ALI

Notable achievement by Mr. Muhammad Raza Siddiqui



The use of waste water as a source of key nutrients would significantly reduce the cost and energy requirement.



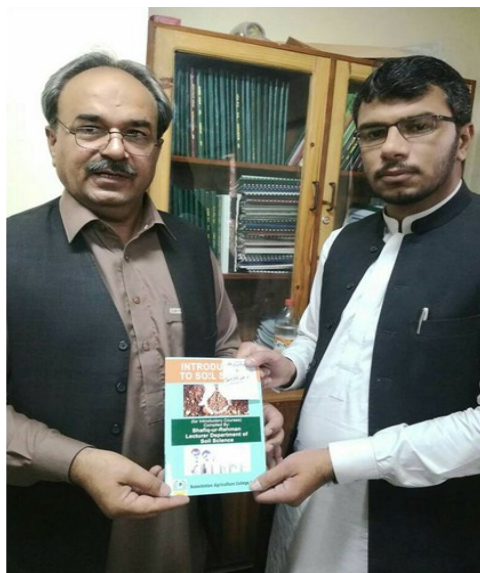
It is a matter great pleasure that Mr. Muhammad Raza Siddiqui managed to write his chapter "Microalgae as Bio-Converters of Wastewater into Biofuel and Food" in the book entitled Water Scarcity and Ways to Reduce the

Impact published by Springer, the world famous publisher. In his chapter he has discussed various platforms, where microalgae can solve long-lasting challenges like food, energy and water. Algae (grows in an aqueous environment-clean and waste water) provide opportunities to solve the aforementioned challenges. He elaborated that algae can generate substantial renewable biomass over a short period growing on marginal lands and using waste water as a source of key nutrients.

Mr. Raza concluded that the extensive usage of lands for the produc-

tion of food and biofuels have initiated an intensive search for the next generation of feed stocks on marginal lands. The use of wastewater as a source of key nutrients would significantly reduce the cost and energy requirement. Currently, algal-based products are produced on the industrial scales in Asian and European countries. With the ability to grow on wastewater, converting generated biomass into the pharmaceuticals, biofuels and food supplements microalgae represent a unique and green solution for three major challenges humanity is facing: shortages in food and energy and man-made pollutions.

Mr. Shafiq-ur-Rehman compiled a booklet on Introduction to Soil Science



Mr. Shafiq-ur-Rehman is presenting his newly compiled booklet entitled "Introduction to Soil Science".

Booklet provides attractive introduction of Soil Science with its terminology...

Mr. Shafiq-ur-Rehman Lecturer Department of Soil Science has compiled a booklet entitled "Introduction to Soil Science". The author has compiled it an excellent manner that it has become a unique of its own type. We must acknowledge the high valuable effort of the author. He is dedicated, committed and young scientist of our faculty.

This publication is in response to a number of appreciative remarks and useful suggestions made by the students. Some recent development in the description and characteristics of soils, soil taxonomy, land degradation and watershed management have been included.

This publication delivers an entertaining account and perspective on basic concepts of soil science. Illustrations are added to help the students appearing in competitive examinations.

The author describes the subject of the publication and provides an accurate summary of its contents.

The main aim of this publication is to provide attractive introduction along with terminology of soil science. The author has compiled it in an excellent manner that it has become a unique of its own type. It is a dependable attempt towards the understanding of Soil Science. The author has achieved its objective. Hopefully this

publication would be valuable and helpful for the individuals to improve and extend their knowledge.

Condolence

Principal and academic staff of Balochistan Agriculture College, Quetta express their heartfelt condolences at the sad demise of **Mr. Naseer Alam**, Secretary National Agricultural Education Accreditation Council (NAEAC), who left for his heavenly abode. His distinguished career spanned over four decades in positions of eminence. His services in the field of Agricultural Education and zest to serve his country guided him to serve his homeland. May Allah rest his soul in peace and give his family and friends the courage to bear this irreparable loss.

All the staff of the college also condole the sad demise of mother of Prof. Muhammad Aslam Khan Niazi, Principal. We pray to Almighty Allah to grant the bereaved family the fortitude bear this irreparable loss. Allah rest her soul in peace.

Executive Council Meeting of SUN Academia Research Network Pakistan

Prof. Amjad Ali, Director Advanced Studies & Research has participated in Executive Council Meeting of SUN Academia Research Network Pakistan from January 30-31, 2018 at Hotel Margalla, Islamabad. He is a member of Executive Council of SUNAR, Pak for the last 3 years. SUNAR, Pak is an indigenous efforts of Government of Pakistan under the ministry of Planning Development and Reform (PDR) with support from Nutri-

tional International to promote nutrition education and research by organizing academicians and researchers on single platform.

SUNAR, Pak was established on May 30, 2016 after an extensive consultative process. Currently 46 Academic Institutions / Universities involved in nutrition teaching and research are members of the network. Balochistan Agriculture College is one of them.



Group photo of members Executive Council SURAR, PAK

GOB Approves Publication of Balochistan Journal of Agriculture and Allied Sciences

It is proudly announced that the Government of Balochistan has approved publication of Balochistan Journal of Agriculture and Allied Sciences to be published by Balochistan Agriculture College, Quetta. As a matter of fact research journal will serve as a mean of disseminating knowledge. One of the central roles of research journal is to provide a venue for the publication of research findings related to local or national topics, which

are likely to have a direct impact on the societies concerned. Furthermore in next coming scenario of up-gradation of Balochistan Agriculture College, Quetta to Agriculture University, the publication of the journal is even of great importance for the coverage of its research findings. The journal will provide new platform for publication and further advancement in the agriculture and applied sciences. Besides, for the accreditation of

any new academic institute or university journal publication is one of the prerequisites by the Higher Education Commission. To give international exposure and to increase the research quality and readability, local and foreign editorial team members have been selected.

Patron in Chief: Secretary, Government of Balochistan, Agriculture & Cooperatives Department, Quetta.

Patron: Mohammad Aslam Khan Niazi, Principal, Balochistan Agriculture College, Quetta.

Chief Editor: Prof. Amjad Ali, Director Advanced Studies and Research Board, Balochistan Agriculture College Quetta.

Managing Editor: Dr. Ejaz Ashraf, Head of the Department, Agricultural Extension, College of Agriculture, University of Sargodha, Punjab.

NEW CHAIRMAN NAEAC TAKES OVER THE CHARGE OF THE POST

Prof. Dr. Ishtiaq A Rajwana has taken over the charge of the post of Chairman, National Agriculture Education Accreditation Council (NAEAC). We wish to congratulate him on his appointment as Chairman and take this

opportunity to look forward in working closely and strengthen the cooperation between the college and Accreditation Council. We would like to offer him our most sincere congratulations upon his assumption of new responsibilities. We at the pledge

our further support and look forward to productive cooperation. We hope that under his dynamic personality the Accreditation Council will promote agriculture education in the country.



Prof. Dr. Ishtiaq A. Rajwana

6TH INTERNATIONAL CONFERENCE OF PAKISTAN PHYTOPATHOLOGICAL SOCIETY ON PLANT HEALTH FOR SUSTAINABLE AGRICULTURE

The staff of Balochistan Agriculture College, Quetta were invited on 6th International Conference of Pakistan Phytopathological Society at Bahaudin Zakarya University Multan on November 20-22 2017.

Mr. Ahmed Khan, Head Department of Plant Pathology was nominated as national speaker and representative of Balochistan province. Syed Zulfiqar Ali, Assistant Professor presented his research findings titled "Prevalence of Fungal Pathogens of Sorghum under Subtropical Rain Fed Environment."

Mr. Waris Faqir, Assistant Professor and Mr. Muhammad Basharat, Lecturer presented the banners and panaflex of their research work on "Post-Harvest Management of *Penicillium expansum* causing Blue Mold of Onion."



Special Seminar

A special seminar on “Land degradation in Balochistan: A serious Threat to Environment and Food Security” was held on 8th September, 2018 at Press Club Quetta. The Seminar was jointly organized by the Soil Science Society of Pakistan and Balochistan Agriculture College, Quetta. The main themes of the seminar were to discuss issues that promoting land degradation in Balochistan, combating options, strategies for policy makers, alternative best management practices and to explore new dimensions of research which would combat land degradation,

mitigate changing climate, reduce input costs and provide better yield. A massive number of participants attended this event that includes researchers, administrators, academia, extension workers, NGOs and farmers.

In the inaugural session Mr. Imran Khan, Additional Secretary, Agriculture and Cooperatives Department Balochistan was the chief guest. Mr. Nasser Ahmed Shahwani, MPA, Balochistan, Prof. Muhammad Aslam Khan Niazi, Principal, Balochistan Agriculture College,

Quetta, Dr. Sabir Gul Khattak, Vice President, Soil Science Society of Pakistan and Abdul Rehman Bazi, General Secretary, Zamindar Action Committee Balochistan, chaired the sessions. Dr. Muhammad Sharif Buzdar, Assistant Professor/ VP SSSP, Department of Soil Science, BAC, Quetta, highlighted the major issues that are causing land degradation in Balochistan. They include soil erosion, deforestation, overgrazing, salinization, prolonged drought and climate change. He also mentioned combating options, research gaps and strategies for

Land Degradation in Balochistan: A Serious Threat to Environment and Food Security” was held on 8th September, 2018 at Press Club Quetta



In technical session-I Dr. Khair Muhammad Kakar, Provincial Head, Sustainable Land Management Program (SLMP) of UNDP, emphasized for sustainable use of land resources to combat this burning issue. Mr. Muhammad Yayhya Khan Musakhail, Provincial Head, WWF, presented about the impacts of land degradation and changing climate on the biodiversity of Balochistan. Dr. Muhammad Irshad, Senior Executive Marketing, FFC, discussed nutrients deficiencies and stressed the farmers to balance use of fertilizers. Dr. Said Qasim, University of Balochistan, Quetta, presented about land degradation in Balochistan, problems and prospects.

In technical session-II Dr. Arif Shah Kakar, Director, Soil Fertility Balochistan, presented challenges of soil fertility management in Balochistan. Dr. Nelofer Jamil, Assistant, Professor, Department of Environmental Sciences, SBK Women University Quetta, presented agriculture in the light of water and carbon footprint. Capt (R) Muhammad Tariq, DG, Environmental Protection Agency (EPA) Balochistan, Ex-DC, Quetta, shared his experiences, current environmental problems facing by Balochistan and their remediation with the leading examples of Australia and Israel.

At the end of the event Dr. Muhammad Iqbal,

Manager, SUPARCO, presented the concluding remarks to participants. He appreciated the efforts of researchers and organizers of this event. Furthermore, he recommends that scientists should introduce new innovative techniques for sustainable use of land and water, move toward precision agriculture, reduce soil disturbance, increase organic matter contents in soil, promote balance use of fertilizers, rehabilitate degraded land, conserve soil biodiversity and treat sewage water. He stressed that policy makers should introduce and implement land and water use policy, put into practice the recommendations of scientists for maintaining healthy and productive land.



Students' Exposure Visit

Students of B.Sc. (Hons.) Agriculture of various semesters have performed field / exposure visits to different locations of the province. The objective of these field visits is to get acquainted our students with farm activities and to let them expose various aspects of farming in real-like situations.

The students of 2nd semester visited Hazargangi Chiltan National Park under supervision of Mr. Raheel Babar, Associate Professor / Head, Department of Forest, Range and Wild Life Management. The students visited the museum of the park and observed the stuffed animals and birds. They performed practical about calculation of carrying capacity of the range area. They witnessed the identification of different palatable and unpalatable grass species, shrubs and trees of the range. They learnt about the natural habitat of the animals and birds.

The students of 6th semester of Horticulture Department visited Ziarat, Kawas and

Zandera led by Mr. Safeer Ahmed, Lecturer in order to perform practical of their subject Post Harvest Horticulture. Students were given demonstration about the use of Penetrometer, Refractometer, Starch Iodine Test, Harvesting Bag, and Corrugated Carton.

The students also got an opportunity to visit Cold Store at Qasim Bagh Baleli under supervision of Mr. Safeer Ahmed, Lecturer. They visited the cold store inside and observed its functions of different portions. They were given demonstration of Blast Chiller, Ethylene Absorber, Humidifier, Temperature Probe and Corrugated Carton.



Ph.D. Scholars Joined Back College

After completion of Ph.D. from University of Poonch, Rawalakot, Azad Kashmir, Mr. Muhammad Amin, Assistant Professor, Department of Entomology and Mr. Ghulam Rasool Lashari, Assistant Professor, Department of Plant Breeding and Genetics from PMAS Arid Agriculture University, Rawalpindi joined back Balochistan Agriculture College. Hopefully both Ph.D. Scholars will deliver an essential role in promotion of quality education.



**Mr. Muhammad
Amin**



**Mr. Ghulam Rasool
Lashari**

Purchase of lab equipment

The college has purchased lab equipment amounting to Rs. 10 Million for its 8 laboratories. These offer students the opportunity of learning practical skills through hands on experiences. In fact, the equipment will help them to enhance their learning and thinking skills. To give the students greater opportunities for learning, the college has equipped the laboratories with latest scientific lab instruments.

Collaboration with FAO

A delegation of Food and Agriculture Organization (FAO) of the United Nations visited the college. The delegation was headed by Mr. Rieks Bosch. They held a meeting with academic staff of the college. The aim of the visit was to establish contacts with Balochistan Agriculture College for collaboration and identification of areas of mutual interest. The staff agreed with all of the areas of common interest and felt very fortunate to

be able to work with FAO, Balochistan. The college intended to establish a program for academic collaboration in the areas of mutual interest. The goal of this collaboration is to foster collaboration, provide opportunity for global experience, and to facilitate advancement of knowledge, best efforts and frequent interactions. The collaboration will bring mutual benefits among students, faculty and researchers.

Mr. Lutfullah Khoso Gets Promotion As Vice Principal



The college has got permanent Vice Principal after a long time. The post was remained vacant since 2009 due to the posting of Dr. Tahir Aqil as Registrar, University of Gujrat. Mr. Lutfullah Khoso, Associate Professor, Department of Plant Pathology has been promoted as Vice Principal Balochistan Agriculture College, Quetta. The faculty and staff of the college congratulate him on his promotion. Hopefully he will deliver his best and utilize all of his capabilities to fulfill his new responsibilities.

Mr. Khoso is among the senior most Associate Professors of the college having more than 25 years of service on his credit. He has substantial experience of administration side. He is well praised by the faculty as well as students due to his courteous nature of attitude.

Ph.D. at Henan University, China

Mr. Salman Aziz, Lecturer, Department of Entomology has left Pakistan for China for Ph.D. studies in Henan University of Technology. Four years study leave has been sanctioned in his favor by Government of Balochistan w.e.f. 15-10-2018 to 14-10-2022. Henan University of Technology, China is one of the leading universities in the world, recognized for its excellent standard of higher education. Mr. Salman's area of specialization is entomology. The Department of Entomology will be benefited from his expertise after completion of his Ph.D. Indeed, a highly skilled work force comprising of devoted and mission oriented faculty is considered one of the vital building blocks of any institution.



Promotions

On the recommendation of Balochistan Public Service Commission Mr. Abdul Musawer Khan has been appointed as Planning and Progress Officer (B-17).

On the recommendations of the Provincial Selection Board Syed Zulfiqar Ali, Lecturer (B-17) has been promoted to the rank of Assistant Professor (B-18) Department of Plant Pathology (Division of Crop Protection). He has been assigned an additional duty of Additional Controller of Examinations Balochistan Agriculture College, Quetta.

After availing 2 years leave as Assistant Director, Department of Food, Mr. Muhammad Saleem has rejoined his parent department and is posted as Assistant Professor (B-18) Balochistan Agriculture College, Quetta.

Participation in Joint Session of IPARCC and Vice Chancellor Forum / Inception Workshop of Research

Prof. Muhammad Aslam Khan Niazi, Principal Balochistan Agriculture College, Quetta has participated in Joint Session of Inter Provincial Agricultural Research Coordination Committee (IPARCC) and Vice Chancellor Forum on 26-06-2018 at Pakistan Agricultural Research Council, Islamabad. The Forum discussed various issues of mutual interest and ratified the minutes of the 8th Meeting of IPARCC and 2nd Meeting of VC Forum. The Forum also reviewed the implementation status of 8th Meeting.

He also attended the Inception Workshop of Research / Feasibility Study for Cluster Development Based Agriculture Transformation Plan – V2025 organized by Government of Pakistan, Planning Commission, Islamabad. He is the member of the Advisory Committee of Plan – V2025. This project is long-run endeavor and comprises of six stages. Main objective of this project is to organize the production, marketing and processing sectors through cluster development approach such that the nation may expand its processing and export base of agriculture commodities.



TRAINING

“OFF SEASON TUNNEL FARMING UNDER THE PROJECT CAPACITY BUILDING OF AGRICULTURE SCIENTISTS IN COLLABORATION WITH GOVERNMENT OF BALOCHISTAN”

Syed Zulfiqar Ali, Assistant Professor, Department of Plant Pathology has attended the Training on “Off season Tunnel Farming under the Project Capacity Building of Agriculture Scientists in Collaboration with Government of Balochistan” at University of Agriculture, Faisalabad, from 19-22nd March, 2018. The event was facilitated by the office of Research Innovation & Commercialization (ORIC). The schedule of the training included lectures and field visits.



INTERNSHIP

The students of B.Sc. (Hons.) Agriculture 8th semester of various disciplines have undertaken their 6 weeks internship program. They have been placed in various provincial and national organizations which include:

1. Balochistan Agriculture Research Development Center (BARDC), Quetta.
2. National Agriculture Research Center, Islamabad.
3. Agriculture Engineering Department, Quetta.
4. Agriculture Research Institute, Quetta.
5. Agriculture Extension Department, Balochistan, Quetta.
6. PMAS Arid Agriculture University, Rawalpindi.
7. Bahaud din Zakariya University, Multan.
8. University of Punjab, Lahore.
9. University of Karachi, Karachi.

The students will be get acquainted with the skills related to various spheres of agriculture. On their return they will present an internship report followed by presentation.

ADMISSIONS 2018-19

Balochistan Agriculture College, Quetta has announced admissions for M.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Agriculture 1st Semester for the academic year 2018-19. The following specializations have been offered for M.Sc. (Hons.) Agriculture Degree Program:

Agronomy	Agricultural Extension	Entomology
Soil Science	Plant Breeding and Genetics	
Horticulture	Plant Pathology	

Candidates will have to appear in entry test conducted by Testing Service for both M.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Agriculture Degree Programs.

BAC GRADUATES ARE WELL PLACED BY BPSC

It is an honor for us that the graduates of Balochistan Agriculture College, Quetta are being appointed to various posts by Balochistan Public Service Commission. Since the inception of the college in 1987, the Commission has appointed maximum number of graduates in various wings of Agriculture Department. Majority of the graduates have been well placed in various government and non-government organizations as well. Today our graduates are serving the province and the country in diverse agriculture related areas in different capacities.

Appointments

On the recommendations of Balochistan Public Service Commission the following Lecturers (B-17) have been appointed in Balochistan Agriculture College, Quetta in the subjects mentioned against their names:

S. no	Name	Subject
1	Mr. Abdul Jabbar	English
2	Mr. Ameenullah	Agriculture Economics
3	Mr. Basheer Ahmed	Plant Pathology
4	Mr. Ehsanullah Khadim	Computer Sciences
5	Ms. Mehwish Shoaib	Mathematics
6	Mr. Manzoor Ahmed	Agriculture Extension
7	Syed Taimoor Shah	Agriculture Extension
8	Ms. Feroza Haider	Botany
9	Mr. Kamran Hashim	PBG
10	Mr. Muhmmad Ilyas	Statistics



Field visits to ARI and BARDC by 8th Semester Students

The students of 8th semester, Department of Agronomy performed field visits to Agriculture Research Institute (ARI) and Balochistan Agricultural Research Development Center (BARDC) under supervision of Mr. Muhammad Raza Siddiqui, Associate Professor. Five field visits were scheduled to demonstrate a biotic and biotic stresses symptoms on crops grown by farmers. These field visits were the part of practical of Crop Management under Stressful Environments.



Students' Visit to Harnai

The students of B.Sc. (Hons.) Agriculture, Department of Agronomy visited Harnai accompanied by Mr. Muhammad Nauman Irshad, Assistant Professor. The intended purpose of the visit was to collect weeds and to learn different techniques for eliminating them. Students observed the fields cultivated with garlic, pea, clover and fruits. They also visited the fields of sugar cane.



Faculty Presented Research Papers in International Horticulture Conference

Dr. Syed Sadiq Agha, Associate Professor Balochistan Agriculture College Quetta attended International Horticulture Conference held from 25-27 April, 2018 at PMAS Arid Agriculture University Rawalpindi, Pakistan. The eminent scientists from various countries participated and presented their research papers. Dr. Sadiq presented two

research papers entitled “Advances in Quality and Shelf life of Fresh Grapes with Edible Coatings” and “Post-harvest management of fruits-approaching towards food security”. Both research papers were the part of his research project sponsored by PARC Islamabad under Agriculture Linkages Program.



Advances in Quality and Shelf life of Fresh Grapes with Edible Coatings” and “Post-harvest management of fruits-approaching towards food security



Distinction Achieved By Mr. Arsalan Raza

Mr. Arsalan Raza serving as Computer Operator (BPS-16) in the Examination Branch, Balochistan Agriculture College, was awarded with Badge of Honor (GOLD MEDAL) for Securing 1st Position in MBA (18 years of Education) from Balochistan University of Infor-

mation Technology, Engineering and Management Sciences (BUIITEMS).

He received the honor from Ex. Governor Balochistan Mr. Muhammad Khan Achakzai and Vice Chancellor of BUIITEMS Engr. Farooq Bazai.



Department of Agronomy Conducts Research Based Agricultural Education

In the Department of Agronomy, great emphasis is placed on the development of practical scientific skills. It provides high standards of expertise and experience. It offers an extensive research based environment to the young aspirants of this province under the guidance of very progressive, talented and devoted faculty members led by Prof. Abdul Razzaq Reki, Chairman Department of

Agronomy. His academic contribution and devotion has made Department committed to offer state of the art academic programs as well as created conducive environment leading to research and development.

Presently under his supervision a research project is being carried out to check the growth performance of different low delta crops by seeding in vitro. The intended aim of

the project is to analyze the effect of different growth hormones (organic and inorganic) on olive, pistachio and walnut. Initial results of the project are encouraging and simultaneously responding to the environmental standards. It is expected that the outcome of the project will cope-up with far-reaching challenges faced by agriculture of the province.



Students of Agricultural Extension Department Participate in Agriculture Exhibition at Sibi

Government of Balochistan arranged event of agriculture exhibition at Sibi to enhance profitable agriculture and agribusiness through appropriate and innovative technology. A large number of stakeholders including agro-chemical companies, seed companies, farm machinery companies, education department, livestock products companies, research institutions, NGOs, CBOs, and other government departments participated in the exhibition. The students of Agricultural Extension Department

under the supervision of Mr. Shahinshah Khan, Assistant Professor were also participated in the event. They learned new solutions and best practice strategies of agriculture development. The exhibition was very organized and the facilitator provided good information on the subject matter at hand, making the information extremely valuable. The Exhibit Hall provided a friendly, informative place to meet with vendors and view their products and services.



Research activities in Plant Breeding & Genetics Department

The students of Plant Breeding & Genetics Department have hands on experience in pursuit of their learning. They are learning by doing practical aspects of their subject. The Department is taking every possible step to get acquainted them with practical transformation of their learning.

The Department has been offering practical based courses and research methodologies related to crop improvement, cytology, cytogenetics, quantitative genetics, molecular genetics and tissue culture leading to B.Sc. (Hons.) and M.Sc. (Hons.) Degrees. The Department has highly qualified and experienced faculty, well equipped laboratories and experimental space for undertaking research projects.



13th Meeting of National Agriculture Education Accreditation Council (NAEAC)

Prof. Muhammad Aslam Khan Niazi, Principal attended the 13th Meeting of National Agriculture Education Accreditation Council (NAEAC) of Higher Education Commission on January 15, 2018 in Islamabad. He is member of the Council and represent Balochistan Province. The main objectives of the meeting were to approve accreditation ratings of Agriculture Degree Programs evaluated during 2016-17, to propose annual work plan and proposed budget allocations FY 2017-18 and to revise the accreditation fee structure.



Successful completion of the project “Post-harvest Management in Deciduous Fruits of Balochistan”

Balochistan is known as the fruit basket of Pakistan. Among others, apple and grapes are the most popular fruits grown on an area of 91945 hectare with the total production of 522729 tons and 15195 hectares area with production of 65005 tons respectively. But due to the deficiency of technical know-how, inadequate innovative research work,

poor post-harvest management practices, lack of essential facilities and uneven marketing, a sizeable quantity (30-40%) of these fruits is lost every year. The two years research project entitled “**Post-harvest management in deciduous fruits of Balochistan**” was executed by Balochistan Agriculture College Quetta in collaboration with

Pakistan Agricultural Research Council (PARC) Islamabad under its Agriculture Linkages Programme. The project was supervised by **Dr. Syed A Sadiq Agha** Associate Professor, Balochistan Agriculture College Quetta. Under the project, more than 500 grapes and apple growers have been trained regarding innovative post-harvest management practices and cold chain & value chain of deciduous fruits. Besides, auspicious findings have been obtained with application of various edible coatings on apple and grape fruits after harvesting. The effects of Shellac wax resulted significant improvement in shelf life and quality traits of both apple and grape fruits.



Meeting of Board of Advanced Studies & Research



A meeting of Board of Advanced Studies & Research (BASR) Balochistan Agriculture College, Quetta was held on 26-11-2018 under the Chairmanship of Prof. Amjad Ali, Director BASR. Senior members of the Board, Prof. Qamar Raza and Prof. Hafeezullah Khan attended the meeting. The Board reviewed the academic and research progress of post-graduate study program. Assessment of constraints and opportunities for

quality improvement was thoroughly deliberated in the meeting. The Board consented their satisfaction over performance of the faculty who are engaged in tackling the day-to-day discoveries and challenges in the diversified field of agriculture with their remarkable teaching and research record. The Board approved various synopses and theses submitted by different departments of the college.

Students Visit to Arid Zone Research Institute (AZRI)

The students of 6th semester of Agronomy Department visited Arid Zone Research Institute, Quetta on November 1, 2018 in fulfillment of the practical work of their subject Medicinal & Special Crops. The students were supervised by Dr. Zafarullah Malghani, Assistant Professor, Department of Agronomy. Mr. Abdul Hanan, the Director General of AZRI

welcome the faculty and students. The DG led them to the field and showed crops of celery, ergon, saffron, lemon balm, chamomile, thyme, tarragon, marjoram, oregano, comfrey, hyssop and rosemary. The students also visited the processing unit of saffron. The Department of Agronomy aims at providing

quality academic training to its students in crop production, crop physiology, seed technology and arid zone agronomy. Dr. Zafarullah Malghani managed to conduct problem oriented research and provided educational and research linkages for uplifting the academic activities of the department.

UBL booth with ATM facility established at BAC

It is a matter of great pleasure that United Bank Limited (UBL) has recently established its booth with ATM facility in premises of the college. The facility will benefit hundreds of students and residents of college colony. It will address their long distance issues of bill payments and cash drawl. Now, they can use ATM facility 24 hours and deposit their fees and utility bills within the college boundary. Besides, the nearby dwellers will also enjoy the facility at their door steps. Students and residence of the college colony acknowledged efforts of the Principal for providing banking facility in the college.



Theses Defense Presentations

After completion of academic calendar theses defense presentations were conducted on 30-6-2018. The students of M.Sc. (Hons.) Agriculture Session 2014-15, 2015-16 and 2016-17 defended their research work successfully. The presentations were pertained to the Departments of Agricultural Extension, Food Technology and Entomology. The Principal, Director Advanced Studies & Research, Registrar, Controller of Examinations, Director Quality Enhancement Cell and HODs witnessed the event.



Research Oriented Exposure Visits to Pishin and Khuzdar

In fulfillment of practical work, the students of 6th and 8th semesters of Agricultural Extension Department visited Pishin and Khuzdar. Each student developed an instructional plan regarding, program evaluation, and collected data through questionnaire. The students involved in macro teaching / field situation concerning agricultural extension field work. They attended formal meetings in Pishin and Khuzdar with farmers in field and discussed wheat crops sowing methods.



Stakeholders Consultative Workshop on Agricultural Innovations-Phase-II

Agricultural Research Balochistan in partnership with PARC and CIMMYT-Pakistan has organized one day "Stakeholders Consultative Workshop for Priorities Setting (Opportunities, Needs and Potential) for Agricultural Innovations – Phase-II on December 6th, 2018 at Agricultural Research Institute (ARI), Quetta. The session was chaired by Engr. Zamrak Khan Achakzai, Minister for Agriculture & Cooperatives Government of Balochistan. Mr. Khaleeq Nazar Kayani, Secretary, Agriculture & Cooperatives, Government of Balochistan described the importance of Agriculture & Cooperatives in Balochistan, Dr. Yusuf Zafar, Chairman, Pakistan Agriculture Research Council elaborated PARC presence in Balochistan & expectations. HODs from Balochistan Agriculture College, Quetta participated in the workshop.








Agricultural Innovation Program (AIP) for Pakistan

Stakeholders Consultative Workshop for Priorities Setting Opportunities, Needs and Potential Agricultural Innovations - Phase-II

Thursday, 6th December, 2018
Venue: ARI, Sariaab Quetta

Organized by:
PARC and CIMMYT in partnership with Agricultural Research, Balochistan






Balochistan Agriculture College, Quetta Celebrated the World Soil Day

Department of Soil Science, Balochistan Agriculture College, Quetta, organized a seminar on the world soil day, 5th December, 2018, in the theme “Be the solution to soil pollution”. The objective of the event was to promote and raise awareness about the importance of soil, related problems and research gap especially focus on soil pollution. Massive number of faculty members and students attended the event.

At the opening ceremony, Dr. Muhammad Sharif Buzdar, Head, Department of Soil Science, highlighted the causes that promoting soil pollution. These include the indiscriminate use of chemical fertilizers, sewage and sldges, soil erosion, saline water, mis-

management of industrial and domestic wastes, unscientific disposal of nuclear waste. He also indicated that soil is like a living material having several organisms which take part important role for the degradation of toxic materials and greatly contribute to crop production. Highly polluting the soil with chemicals results in transfer of toxic materials in the product ultimately consumed by humans which cause health hazards. On the occasion he emphasized that by adopting best management practices (BMPs) the soil quality could be improved and that reflect positive contribution toward increasing beneficial organisms. At the end he took promise from all the participants to avoid mixing of un degradable materials into soil.

Prof. Abdul Razaq Reki, Head, department of Agronomy, greatly appreciated and admired the efforts of Department of Soil Science, its faculty and students in this regard. He shared with the participants, the latest developments taking place in the developed countries for sustainable management of soils to grow healthy foods by treatment of waste materials.

Dr. Mustjab Ahmed, Dr. Syed Abdul Sadiq Agha and Mr. Raza Siddiqui discussed the importance of soil, currently faced challenges and emphasized the judicious use of inorganic materials. They further suggested the researchers to analyze the soil of entire province for its properties, which could

better reflect for its needs and required practices.

Prof. Amjad Ali, Director, Advanced Studies and Research Board, Balochistan Agriculture College, Quetta presented concluding remarks of the event. He highlighted the importance of soil as a crucial component of the natural system and as a vital contributor to the human commonwealth through its contribution to food and water. He stressed on increasing the public awareness of soil and its contribution to humanity and the environment. The event was ended with the Franklin famous quote “The nation that destroys its soil, destroy itself”.



Farewell Party

Students of 6th semester of Agronomy Department arranged the farewell party in honor of 8th semester students who have completed their course work and ready to undertake internship program. All HODs attended the farewell party. The farewell party, based on the theme, "Prosperous Future" was organized in the conference room of the college on

December 5, 2018. The juniors welcome their seniors and entertained them with well wishes followed by lunch. This was followed by a short ppt. presentation of their best moments in college life and as a token of appreciation for the faculty. The moment was nostalgic as the outgoing batch captured group photo with their teachers.

Prof. Abdul Razzaq Reki, Chairman Department of Agronomy graced the occasion as Chief Guest. In concluding address he extended his well wishes to the outgoing students. Prof. Amjad Ali, Director Advanced Studies & Research also addressed the students.



Signature Day

After completion of final examination of their course work, the students of 8th semester of the college celebrated Signature Day. This was a moment of joy and happiness. They made the day memorable having signatures of teachers on their shirts. The signature will remind them their stay in the college. They have completed their four years in the college and are ready to proceed for internship trainings which are arranged in various renowned agricultural universities and organizations of the country.



A Journey to Success

We proudly introduce a journey to success of one of our alumnus who has been graduated from Balochistan Agriculture College, Quetta and now serving as Assistant Professor at University of Agriculture, Faisalabad.

Romana Anjum, a student from a small town of Punjab got a scholarship from Civil Secretariat of Punjab in 2004 to get her B.Sc. (Hons.) Agriculture degree from the other three Provinces of her wish list. She selected Balochistan Province. She got her degree successfully with excellent distinction (4/4 CGPA) and pride in 2008 from Balochistan Agriculture College Quetta. Afterwards, she got her M.Sc. (Hons.) Agriculture (Plant Pathology) degree in 2010 successfully with high grades (3.97/4 CGPA) from University

of Agriculture Faisalabad. She got a job as a Research Associate (BPS-18 3 years Contract) in her own Department of Plant Pathology, University of Agriculture Faisalabad in 2010. She joined her job and continued Ph.D. degree. After that period, she got selected as a Lecturer (BPS-18 on permanent basis) in the same department in 2013. Meanwhile, she also got a foreign HEC scholarship and visited University of Florida, USA in 2013. She came back to Pakistan in 2015 and got her Ph.D. degree. She co-jointly selected as an Assistant Professor (Scale 19) in the Centre for Advanced Studies in Agriculture & Food Security and Department of Plant Pathology, University of Agriculture Faisalabad in 2016. Now Dr. Romana Anjum, a Molecular My-

Key to Success

“Work hard, Allah will return it back”

cologist & Tree Pathologist, Assistant Professor in the world renowned highly top ranked institute “University of Agriculture Faisalabad” serving her nation proudly.

PBG Department's students visited Harnai to observe Sugarcane crop

The students of 6th semester of Plant Breeding & Genetics Department visited Harnai on 15-12-2018 to observe sugarcane crop. They were supervised and accompanied by Mr. Khalil Asghar Lecturer, Mr. Usman Asif and Mr. Dilawar Khan, visiting faculty. The tour was conducted to fulfill the criteria for their practical work of the subject Breeding Sugarcane Crop. Students were given demonstration on sugarcane crop. Sowing methodology of the crop was practically performed. Morphological characters of sugarcane crop were observed in the field. Students were also briefed by farmers of the area.



BEEF: GOVERNMENT OF BALOCHISTAN'S REVOLUTIONARY SCHOLARSHIP PROGRAM FOR TALENTED AND DESERVING STUDENTS



It is important to highlight here that Balochistan Education Endowment Fund (BEEF) provides scholarships to the talented students particularly of Balochistan and Pakistan in general on merit with the slogan of **SAY-YES-TO-MERIT**.

Balochistan Education Endowment Fund is an initiative of Government of Balochistan conceptualized and formulized in 2013 however, registered with Securities and Exchange Commission of Pakistan (SECP) in 2014 under section 42 (Not for Profit Limited by Guarantee) of Companies Ordinance, 1984.

However, BEEF started its on-ground operation in 2015 by ensuring maximum transparency and to boost up the performance of the organization.

Finances

As the BEEF as a Public Sector Company is being run under the aegis and administrative control of Finance Department, Government of Balochistan (GoB) released funds 8 billion PKR to BEEF so far as initially, GoB provided 5 billion PKR as a seed money invested in Treasury Bill during 2015-16. Later on during 2016-17 released 1 billion PKR and released 2 billion PKR in 2017-18 as allocated in PSDP respectively.

Purpose

The purpose of Balochistan Education Endowment Fund (BEEF) is creation of a talented pool of youth of Balochistan including the less privileged section of society; contributing towards economic and social development to realize the dream of a moderate, progressive and prosperous Pakistan by providing Merit and Need based Scholarships to talented and needy students/EVIs (Extremely Vulnerable Individuals) for pursuing quality education from the investment proceeds of the "Endowment Fund" granted by Government of Balochistan.

VISSION

Creation of a Pool of Talented Youth of Balochistan including the less privileged section of society; contributing towards Economic and Social Development to realize the dream of moderate, progressive, and prosperous Pakistan.

MISSION

The mission of the Company is to build a critical mass of human capital participating in nation building; through provision of equitable opportunities to academically brilliant boys and girls in Balochistan.

OBJECTIVES

BEEF has been established to:

- *Be the single channel/authority for management of result oriented and fruitful provincial scholarships schemes/programs.*
- *Provide Scholarships in a transparent manner for talented and less privileged students to bring them at par with the more fortunate ones.*
- *Creation of a critical mass of talented youth for the development of society.*
- *Identification and support to extremely marginalized students through special quotas.*

EXPECTED IMPACT

BEEF initiative will directly and/or indirectly impact on

1. Increasing /improving the Literacy rate of the Province.
2. Increasing /improving the enrollment retention and reducing the dropout rate of students enrolling in public institutions or private institutions which are affiliated with national, federal/provincial/district secondary/higher secondary/technical boards or HEC recognized universities.
3. Creation of Future Talented Human Resource directly benefiting the Province and the Country.
4. Improvement of Socio-Economic and Poverty Condition of the Province and Masses living in it.

BEEF's Scholarship Awarding Ceremony, 2017-18

BEEF's Scholarship Awarding Ceremony for the students of Balochistan Agriculture College, Quetta was held on Tuesday 18th December, 2018 in the Auditorium of the college. This joyous occasion was a time for the donor, scholarship recipients, faculty/staff, family, and friends to come together to recognize the meritorious achievements of the students and thanks to Government of Balochistan in general and BEEF contributing Education promotion particular for financial assistance and Government of Balochistan for their support of philanthropic cause. Dr. Rasheed Masod Khan, CEO BEEF was the Chief Guest of the event. 73 students of the college were awarded scholarships worth amount Rs. 4.380 million under BEEF scholarship policy 2017-18. Prof. Muhammad Aslam Khan Niazi, Principal, Balochistan Agriculture College, Quetta presented souvenirs to Dr. Rasheed Masood Khan, CEO BEEF, Mr. Muhammad Sohail, Company Secretary BEEF, Mr. Mustafa Shaukat, Head of M&E, Ms. Shamshad Kausar, Program Manager Scholarships, BEEF and Mr. Farooq Mandokhel, Lead, Professional Education Scheme, BEEF in recognition of their valuable contribution for the promotion of education in the province. On the other hand, the Chief Executive Officer, Balochistan Education Endowment Fund presented BEEF souvenirs to Prof. Muhammad Aslam Khan Niazi, Principal, Prof. Lutfullah Khoso, Vice Principal, Prof. Amjad Ali, Director Advanced Studies & Research, Mr. Rehmat Ali, Registrar and Syed Zulfiqar Ali, Additional Controller Examinations for their valuable services. After conclusion of the event, Principal BAC had a round of BEEF team to newly constructed building of Balochistan Agriculture University. CEO BEEF thanked management of BAC for their excellent event management and coordination.



ALP PROJECT WELL UNDERTAKEN BY DEPARTMENT OF PLANT PATHOLOGY

A Project on “Efficiency of various botanicals on post-harvest onion and apple against blue mold disease” was initiated under the umbrella of ALP (Agriculture Linkage Program) by the Department of Plant Pathology. The Project allocated cost is about 4.053 Million Rupees with duration of 2 years. The project covers research based visits in various districts of Balochistan. The visits are aimed at awareness of the farmers for post-harvest storage of the fruits and vegetables especially onion and apple.

This project started its work from April 1st 2018. The team including Mr. Muhammad Waris, Assistant Professor Plant Pathology / Principal Investigator, Mr. Muhammad Basharat Lecturer, Plant Pathology / Co-Principal Investigator, Mr. Muhammad Ather, Visiting Lecturer Plant Pathology / Research Fellow carried out First Phase for Onion samples to various districts such as Jaffarabad, Naseerabad, Loralai and Quetta. In the Second Phase of the project Apple samples were collected from various project districts such as Killa Saifullah, Ziarat and Quetta.

In vitro experiments were conducted on the collected bulks of samples of onion in the Plant Pathology Laboratory, Balochistan Agriculture College, Quetta. The stored onions contained Blue Mold and the concerned districts were informed of the storage disease and were guided about better storage strategies and getting better market so that to reduce post-harvest losses. In vitro experiments on the Apple for isolation of Blue mold and its management is in progress in the Laboratory. Almost 300 and more farmers/growers have been imparted training by Field Man

cum Agronomist Mr. Muhammad Mohsin at district Jaffarabad and Naseerabad. On farm trainings have also been conducted in both the districts.

A one day innovative workshop was organized at Balochistan Agriculture College, Quetta on 13th November 2018 to aware the college faculty members and students about project activities.

Furthermore, a visit was planned to Ziarat on 20th October 2018 for sample collection from effected junipers near Ziarat zero point mountain. The objectives of the visit contained isolation of the pathogens from the juniper trees & ground areas near forest canopies and skill development of plant pathology students.



Annual Study Tour

The students of B.Sc. (Hons.) Agriculture 8th semester of all departments performed their annual study tour. They were accompanied by Mr. Mir Ahmed, Associate Professor and Syed Gul Shah, Associate Professor. They went all four provinces and AJK. They visited renowned agricultural organizations and universities of the country which include National Agriculture Research Center, Pakistan Agriculture Research Council, University of Agriculture Faisalabad, PMAS Arid Agriculture University Rawalpindi, University of Agriculture Peshawar, University of Punjab Lahore and Sindh Agriculture University Tandojam. They also got an opportunity to visit historic and well famous spots of the country.

The study tour offered them great possibilities to increase their knowledge and understanding, and explored new terrains, people, and culture. It helped students to learn through visual experience.



SCHEDULE FOR FINAL EXAMINATION ANNOUNCED

With prior approval of University of Balochistan, the college has announced schedule for final examination of 2nd, 4th, and 6th semesters of B.Sc. (Hons.) Agriculture and 2nd semester of M.Sc. (Hons.) Agriculture Fall, 2018. The schedule for repeaters of 8th semester of B.Sc. (Hons.) Agriculture has also been announced. The date for commencement of B.Sc. (Hons.) Agriculture Examination is 31st December, 2018. Whereas the final examination of M.Sc. (Hons.) Agriculture will commence from 24th January, 2019.

December, 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					



Mr. Nasir Majeed re-joined as Project Director

Government of Balochistan, Agriculture & Cooperatives Department has appointed Mr. Nasir Majeed (B.E. Civil) Irrigation Department as Project Director of “Up-gradation of Balochistan Agriculture College, Quetta into Agriculture University Balochis-

tan at Quetta.” He has taken over charge of the post with effect from 19th December, 2018. Mr. Nasir Majeed has served 3 years on the same post prior to the current appointment. For a small interval of time he remained off from the post.

Mr. Nasir Majeed is a competent and intelligent officer. During his previous tenor he performed work of exceptionally high quality. It is hoped that the pace of development work will be fasten under his Project Dictatorship.

Oath Taking Ceremony of BACASWS

Balochistan Agriculture College Academic Staff Welfare Society’s (BACASWS) oath taking ceremony was held on 29-12-2018 at Balochistan Agriculture College, Quetta. Hon’ble Minister of Agriculture, Mr. Zamrak Khan Achakzai took oath from newly elected Society. The ceremony was started with the recitation of Holy Quran by Mr. Ahmed Khan, Associate Professor. Director General Agriculture Research, Dr. Muhammad Javed Tareen, Project Director Up-gradation of Balochistan Agriculture College to Agriculture University, Mr. Nasir Majeed, senior staff of Agriculture Extension & Research Department, all HODs and academic staff of the college attended the oath taking ceremony.

Minister of Agriculture, Mr. Zamrak Khan Achakzai congratulated newly elected cabinet of Academic Staff Welfare Society. He assured that elected society would do every step possible for the welfare of academic staff of Balochistan Agriculture College, Quetta. He promised his full support for the promotion of academic & research activities of the college. He advised the students to devote their all capabilities on their education. He said there will be no compromise on merit.

Prof. Amjad Ali, Director Advanced Studies & Research welcome participants of the ceremony. In his welcoming speech Prof. Amjad Ali highlighted the current status of the draft of upgraded Agriculture University and elaborated some notable contributions of the college for imparting quality education in the province.

Prof. Abdul Razzaq Reki, Chairmen Department of Agronomy / President Academic Staff Welfare Society presented Charter of Demands to the Hon’ble Minister of Agriculture. In his speech, Prof. Abdul Razzaq Reki elaborated the major issues and problems faced by agriculture and farming community of the province. He recommended measures for some of the major problems. Chief Guest Hon’ble Minister of Agriculture appreciated the concerns of Prof. Abdul Razzaq Reki and his slogan **“Save Water for Green Balochistan”**.

Dr. Muhammad Javed Tareen, Director General Agriculture Research described the importance of close linkage between research and academia. He offered his full support and collaboration for the promotion of academic activities of the college.

Mr. Nasir Majeed, Project Director “Up-gradation of Balochistan Agriculture College to Agriculture University” briefed about the progress of construction work of Agriculture University. He high-spotted some of the salient features of civil work of the project.

Prof. Abdul Razzaq Reki, President Academic Staff Welfare Society presented souvenir to Hon’ble Minister in acknowledgement of his remarkable contribution for the promotion of agriculture in the province.

At the end Hon’ble Minister visited the campus and inspected the construction work of the university.





CTSP conducted pre-entry test for admission in Balochistan Agriculture College, Quetta.

Career Testing Services Pakistan (CTSP) has conducted pre-entry / admission test for admission in M.Sc.(Hons.) and B.Sc. (Hons.) Agriculture Degree programs of Balochistan Agriculture College, Quetta for the academic year 2019-22 on 26-01-2019 at Government Post Graduate Girls College, Quetta Cantt. More than 800 candidates appeared in the test. The pre-entry test was commenced in a transparent and peaceful manner. Interviews are scheduled from 06-02-2019 to 12-02-2019 for candidates of B.Sc.(Hons.) Agriculture and 16-02-2019 for candidates of M.Sc.(Hons.) Agriculture.



Training on Value Addition in Horticultural Crops held from 10-13th December, 2018 at University of Agriculture Faisalabad.

Under the project entitled “Capacity Building of Agriculture Scientists” the Government of Balochistan Agriculture & Cooperative Department nominated fifteen Agriculture scientists from Agriculture College, Extension & Research wing for training on **Value Addition in Horticultural Crops** scheduled from 10-13th December, 2018 at University of Agriculture, Faisalabad. Dr. Syed Sadiq Agha, Associate Professor and Mr. Nadir Baloch, Assistant Professor Balochistan Agriculture College Quetta attended the training.

The four days training was formally inaugurated on 10th December, 2018 at 9.00 a.m. in the Office of Research, Innovation and Commercialization (ORIC) University of Agriculture Faisalabad. The Director ORIC Prof. Dr.

Zahir Ahmad warmly welcome the participants of the training. The participants were imparted training on various aspects of Value Addition of Horticultural Crops. The main themes were Fruit ripening & quality relationship, Pre and post-harvest management of horticultural crops, Processing of Fruits and vegetables, drying techniques of horticultural crops, drying techniques of tropical and temperate fruits, post-harvest management of papaya fruit, and value addition & food safety of Horticultural crops. Beside Lectures, the participants were also made visits to various farms and laboratories such as Pomology Lab, Tissue culture Lab, Mushroom Lab, Citrus sanitation project, fruit orchard, citrus farm, papaya farm, mango and date farms, fruit &

vegetable Lab, Canning Lab, and food safety lab. The participants also visited Ayoub Agriculture Research Center, Faisalabad, wherein, they were demonstrated various equipment such as controlled atmosphere storage, dehydration plants, juice making units, penetrometer, refractometer etc. The participants held in depth discussion session with the eminent Professors of the University for Collaborative Research with Agriculture College Quetta in the field of Agriculture specially value addition and post-harvest management in horticultural crops. They assured that both the institutes will be having joint venture in research projects consequently improving agriculture sector in the country.



M.Sc.(Hons.) Students Under ALP Project



Mr. Muhammad Saleem Mr. Muhammad Akram

The following two students/faculty completed their M.Sc. (Hons.) in Food Technology under the PARC funded project “POST HARVEST MANAGEMENT IN DECIDUOUS FRUITS OF BALOCHISTAN”

MUHAMMAD SALEEM

Assistant Professor, Food Technology
Balochistan Agriculture College Quetta.

Thesis Title: POST HARVEST EFFECTS OF EDIBLE COATINGS ON THE QUALITY AND SHELF LIFE OF APPLE (GOLDEN DELICIOUS)

MUHAMMAD AKRAM KHAN

Lecturer, Food Technology
Balochistan Agriculture College Quetta

Thesis Title: EFFECTS OF DIFFERENT EDIBLE COATINGS ON PHYSICO-CHEMICAL PROPERTIES OF APPLE (RED DELICIOUS)

Position holders of M.Sc. (Hons.) Agriculture, 2 YEARS, 2016-17

Roll No.	Name	Marks Obtained	CGPA	Specialization	Position
16-bac-807/FT	Muhammad Saleem S/o Ghulam Muhammad	540/600	3.89	Food Technology	1st
16-bac-801/Ent	Zafar Ullah S/o Qudratullah	500/600	3.71	Entomology	2nd
16-bac-806/FT	Muhammad Akram Khan S/o Agha Jan	515/600	3.70	Food Technology	3rd

Position holders of B.Sc. (Hons.) Agriculture, 2013-17

Roll No	Name	Marks Obtained	CGPA	Specialization	Position
13-bac-8199	Zafran Khan S/o Ghaffar Khan	2256/2740	3.81	Plant Breeding and Genetics	1 st
13-bac-8141	Syed S/o Soban	2306/2760	3.80	Agricultural Economics	2 nd
13-bac-8155	Usama Nawaz S/o Mohammad Nawaz	2209/2760	3.70	Agricultural Economics	3 rd

Construction work of the project “Up-gradation of Balochistan Agriculture College, Quetta to Agriculture University” is being well undertaken

The construction work of the project “Up-gradation of Balochistan Agriculture College, Quetta to Agriculture University” is in full swing. The pace of development is on high standard and is being well undertaken. More than 50% infrastructure of the university has been completed. The quality of construction work is remarkable and state of the art. Most of the construction work of Administration and Academic blocks has been completed with high quality set standards. The Agriculture University will be a model university to deal with the most demanding technologies and research oriented studies as per needs of the sector with flavor of changing national and international market demands.



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www.bac.edu.pk 0303-9201361