

Annual Report **years 2022 & 2023**

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VICE CHANCELLOR'S MESSAGE

On the eve of 24th Convocation of Pir Mehr Ali Shah Arid Agriculture University Rawalpindi, I congratulate the graduating students for achieving success in the form of their degrees. I convey my profound regards and greetings to the proud parents of young graduates on completion of the degrees and academic endeavors of their beloved sons and daughters.



We at Arid Agriculture University impart education that gives our students worthwhile experience. The pursuance of academic quest of our students is facilitated at all levels through provision of pleasant and congenial atmosphere at campus.

Dear graduates! I would urge you to please continue your hard-work with dedication and commitment in the practical ventures of your life to achieve the similar success and joyful movement like we are cherishing today. May Almighty Allah help you in converting issues and problems into opportunities and blessings for sustained economic and social development of Pakistan.

PROF. DR. QAMAR-UZ-ZAMAN

EXECUTIVE SUMMARY

During the year 2022 & 2023, Pir Mehr Ali Shah (PMAS) Arid Agriculture University Rawalpindi made substantial efforts to improve academic as well as research activities along with financial resources. Various teaching departments were upgraded/strengthened through the development of infrastructure, procurement of sophisticated scientific equipments and purchase of books etc. So far, the Research Projects worth Rs. 1009.829 million were sponsored by various funding agencies i.e. HEC, PSF, PARC, PARB, UAF, Pakistan Academy of Science and University own resources.

Faculty members attended National/International workshops/ seminars/ symposiums/ conferences to share/transfer knowledge in different scientific fields within the country and globally. The faculty members were encouraged to improve their qualifications and visit universities abroad to update their technical knowledge and transfer technical know-how from international universities/institutes. During the year, faculty members of different departments of the University obtained short-term trainings, doctoral/post-doctoral fellowships and executed research work in Germany, Sweden, China, Australia, South Korea, Malaysia and Azerbaijan. The strength of the students is increasing day by day by virtue of the academic record and excellence of the university. At present more than ten thousand students are quenching their thirst of education from this prestigious educational organization. More than five hundred students are doing their Doctorates in different disciplines of Agriculture, Forestry and Biological Sciences at this university.

The linkages between faculty, Industry and farming community were further promoted/strengthened to ensure the penetration and achievements of objectives of the university. Memorandums of Understandings (MoUs) with various national and International organizations were signed for academic and research sharing. The provision of better Research facilities the University faculty published more than eight hundred Research Papers in the reporting year in National and International reputed journals.

ABOUT THE UNIVERSITY

Pir Mehr Ali Shah Arid Agriculture University Rawalpindi (PMAS-AAUR) was established in 1994 as University of Arid Agriculture by upgrading the Barani Agriculture College on the recommendation of Barani Commission Punjab. The mandate of the university is to produce high quality Agricultural Scientists and to form an organized scientific infrastructure for teaching and research for the development of dry land region of the country in general and Pothwar in particular; thus minimizing the income gap between the rich and poor.

Since its inception, PMAS-AAUR has experienced remarkable growth and is offering undergraduate as well as postgraduate degree programs in variety of disciplines. The University includes a Faculty of Crop and Food Sciences, Faculty of Sciences, Faculty of Social Sciences, Faculty of Veterinary & Animal Sciences, Faculty of Agricultural Engineering & Technology, University Institute of Management Sciences (UIMS), University Institute of Information Technology (UIIT), Institute of Food & Nutritional Sciences, Institute of Geo-Information & Earth Observations, University Institute of Biochemistry & Biotechnology, Institute of Hydroponic Agriculture and Institute of Soil & Environmental Sciences. The University building contains an auditorium, multi-storied administrative and academic blocks, a state of the art library and a sports gymnasium.

Pursuit of excellence on the University campus is a function of competent and dedicated university faculty. PMAS-AAUR has therefore, made constant efforts at staff development with the result that nearly 70% of the faculty possesses Ph.D. degrees, while the others have M.Sc. (Hons) and M.Phil degrees.

Furthermore, PMAS-AAUR is committed to delivering an outstanding student experience; as well as to enjoy a reputation for excellence in teaching and learning alongside research. Students actively participate in extracurricular and co-curricular life on campus, which includes speech events, seminars and activities related to entrepreneurial skill development. Together with a research-informed curriculum, and extracurricular activities, PMAS-AAUR strives to provide a well-diversified environment to students so that they can effectively contribute towards development of the country.

ACADEMIC ACTIVITIES

FACULTIES/INSTITUTES

FACULTY OF AGRICULTURE
Department of Agronomy
Department of Horticulture
Department of Entomology
Department of Plant Pathology
Department of Plant Breeding & Genetics
Department of Agricultural Extension
Department of Forestry & Range Management
FACULTY OF SCIENCES
Department of Zoology, Wildlife & Fishries
Department of Botany
Department of Mathematics
Department of Statistics
Department of Chemistry
Department of Physics
FACULTY OF SOCIAL SCIENCES
Department of Sociology
Department of Anthropology
Department of Economics and Agricultural Economics
Division of Continuing Education, Home Economics and Women Development
Department of Humanities
FACULTY OF VETERINARY & ANIMAL SCIENCES
Department of Livestock Production & Management
Department of Poultry Science
Department of Veterinary Biomedical Sciences
Department of Parasitology & Microbiology
Department of Clinical Studies
Department of Veterinary Pathology
Department of Animal Breeding & Genetics
FACULTY OF AGRICULTURAL ENGINEERING & TECHNOLOGY
Department of Structures & Environment Engineering
Department of Farm Machinery & Precision Engineering
Department of Land & Water Conservation Engineering
Department of Energy Systems Engineering
UNIVERSITY INSTITUTE OF MANAGEMENT SCIENCES
UNIVERSITY INSTITUTE OF INFORMATION TECHNOLOGY
UNIVERSITY INSTITUTE OF BIOCHEMISTRY & BIOTECHNOLOGY
INSTITUTE OF FOOD & NUTRITIONAL SCIENCES
INSTITUTE OF HYDROPONIC AGRICULTURE
INSTITUTE OF SOIL & ENVIRONMENTAL SCIENCES
INSTITUTE OF GEO-INFORMATION & EARTH OBSERVATIONS

ACADEMIC PROGRAMS

UNDERGRADUATE PROGRAMS		
1. BSc (Hons) Agriculture	2. BS in Biochemistry	3. BS in Computer Science
4. BS in Economics	5. BS in Forestry	6. B.Ed
7. BBA (Bachelor of Business Administration)	8. BS in Information Technology	9. DVM (Doctor of Veterinary Medicine)
10. BSc (Hons) Agri. Engineering	11. B.Sc (Hons) Human Nutrition & Dietetics	12. BS (Microbiology)
13. BS Environmental Sciences	14. BS (Remote Sensing & GIS)	15. BS Commerce
16. BS Software Engineering		
POST GRADUATE PROGRAMS (M.Sc)		
1. Biochemistry	2. M.Ed	3. MBA (Agri. Business) 1-1/2 Years
4. Botany	5. Anthropology	6. MBA (Agri. Business) 3-1/2 Years
7. Zoology	8. Criminology	9. MDM
10. Biology	11. Sociology	12. MCS
13. Statistics	14. Economics	15. MIT
16. Mathematics	17. Wildlife Management	18. MBA (Agri. Business) 1-1/2 Years
19. Education	20. Environmental Sciences	
M.SC (HONS)		
1. Soil Science	2. Agronomy	3. Food Technology
4. Entomology	5. Horticulture	6. Plant Breeding & Genetics
7. Plant Pathology		
M.PHIL/MS		
1. Botany	2. Statistics	3. Forestry & Range Mgt.
4. Zoology	5. Education	6. Wildlife Management
7. Botany	8. Sociology	9. Environmental Sciences
10. Veterinary Microbiology	11. Remote Sensing & GIS	12. Veterinary Pathology
13. Veterinary Parasitology	14. Animal Breeding & Genetics	15. Computer Science
16. Animal Nutrition	17. Livestock Management	
PhD		
1. Soil Science	2. Botany	3. Environmental Sciences
4. Entomology	5. Zoology	6. Computer Science
7. Plant Pathology	8. Education	9. Food Technology
10. Plant Breeding & Genetics	11. Sociology	12. Remote Sensing & GIS
13. Agronomy	14. Botany	15. Computer Science
16. Horticulture	17. Forestry & Range Management	18. Wildlife Management
19. Veterinary Pathology		

ACADEMIC ACHIEVEMENTS

The university offers 79-degree programmes in various disciplines of Agriculture, Agricultural Engineering, Basic & Social Sciences, Veterinary, Forestry, Range Management, Wildlife, Business Administration, Computer Sciences & Information Technology and Education. The enrollment of the University was 10919 and 10842 in year 2022 & 2023 respectively. This University has turned out 795 Ph.D., 28617 M.Phil, M.Sc. (Hons.)/ MS/ M.Sc. and 29084 B.Sc. (Hons.)/ D.V.M/ BS/BBA/B.Ed in the reporting years.

PMAS-AAUR Secured 1st Position in the Country by UI Green Metric World Universities Ranking 2022

Pir Mehr Ali Shah Arid Agriculture University Rawalpindi has been ranked 1st in all over the Pakistan, 86th among 595 Asian Universities and 174 among all 1050 participating Universities of the world as per latest UI Green Metric World Universities ranking 2022. UI Green Metric University Sustainability Ranking is a world university ranking to assess and compare campus sustainability efforts. The criteria for the ranking of Universities includes campus setting and infrastructure, energy and climate change, waste, water, transportation and education. The Arid Varsity has been ranked as 174 among the top 1050 universities of the world with the total score of 7750 as per UI GreenMetric World Universities ranking.



The Times Higher Education Emerging Economies University Rankings 2022

Arid Varsity Ranked 11th in Punjab in Times Higher Education World University Rankings 2023 and ranked 1201+ among the world universities in the THE World Universities Impact Rankings. This reflects the significant impact of Quality Assurance for earning a place for Arid varsity on the global map of higher education. The Arid Varsity ranked 10th among all Pakistani Universities (1201+ among the world universities) as per latest Times Higher Education (THE) World Universities Ranking 2022.



NATIONAL/ INTERNATIONAL HONOURS AND AWARDS

- Dr. Nasir Mukhtar, Associate Professor, Department of Livestock Production & Management selected as Group Leader from years 2022-2026 in Asian Pacific Federation Working Group-1 “Small Scale Family Poultry Farming” –of World’s Poultry Science Association.
- Dr. Bushra Allah Rakha, Assistant Professor, Department of Zoology, Wildlife and Fisheries Won Prof. Dr. Shahnaz Akhtar Rana 5th Gold Medal in Wildlife at opening ceremony of Applied Zoological Society of Pakistan on December 18, 2023. Moreover, she has been Selected as Aspiring Leader in 2nd Cohort “Developing Women Leadership In Higher Education” under Visiting International Professional Program funded by Michigan State University USA and US Embassy Islamabad
- Prof. Dr. Azeem Khalid, Chairman, Department of Environmental Sciences declared among top 2% of global cited scientists as published by Stanford University (<https://data.mendeley.com/datasets/btchxktz>).



RESEARCH AND DEVELOPMENT

R&D – AN OVERVIEW

The University, being the prime institute for agricultural education and research has the obligation to provide trained manpower to all sectors of agriculture in Punjab Province. The Faculty and Researchers of this University have been conducting basic and applied research in the field of:



- ❖ *New Technologies to Overcome Water Shortage*
- ❖ *Production of Biofuels*
- ❖ *Formulation of New Food Products*
- ❖ *Promotion of High Yielding & Drought Resistance Wheat and Canola Cultivars*
- ❖ *Recycling of Organic Wastes of Sustainable Crop Productivity*
- ❖ *Production of Pathogen Free Horticultural Plant Nurseries*
- ❖ *Soil and Water Contamination Studies*
- ❖ *Biotechnology*
- ❖ *Product Development on Pilot Scale*

The university is focusing its efforts on need base research of arid agriculture in general and Pothwar region in particular. A number of research projects have been completed in the past and still many research projects are being run by the faculty. Conducting research is mandatory for all students of both graduate and undergraduate levels. The faculty and researchers at the University are availing different funding opportunities for their research projects. Some are listed below:

- ❖ *Higher Education Commission of Pakistan*
- ❖ *Pakistan Science Foundation*
- ❖ *Pakistan Agricultural Research Council (PARC)*
- ❖ *Punjab Agriculture Research Board (PARB)*
- ❖ *Endowment Fund Secretariate, University of Agriculture, Faisalabad.*
- ❖ *International Foundation for Science*
- ❖ *Korean Society of Ginseng*
- ❖ *National Engineering & Scientific Commission*

RESEARCH FOCUS

University faculty focused their research activities on the issues of farming community of Barani areas in general and Pothwar in particular. These included projects related to soil conservation, weed

management, drought tolerance studies in wheat through genetic engineering and environmental related issues. The following Research projects are operational during 2022:

RESEARCH PROJECTS FUNDING

The PMAS-AAUR faculty also undertook Research Projects in addition to teaching assignments. These projects were sponsored by different funding/donor agencies. The detailed summary of Research Projects is given below:

Sr. #	Name of Funding Agency	Research Projects Completed		Research Projects Ongoing	
		No. of Projects	Amount (Rs. in Million)	No. of Projects	Amount (Rs. in Million)
1	HEC	112	577.995	12	71.653
2	PSF	27	52.463	12	53.098
3	PARC	16	47.677	3	18.550
4	PARB	1	6.800	9	139.275
5	UAF	4	7.997	0	0.000
7	Other Funding Agencies	11	17.0	5	20.870
Total		171	709.932	41	303.446

List of ongoing research projects is given below:

- ❖ *Evaluation of local microbial strains and trace elements for enhancing BNF and production of lentil in Pothwar*
- ❖ *Development of Nutraceutical Products From Indigenous Source*
- ❖ *Validation of Novel Rhizobium for Mass Production of Pulses Biofertilizer*
- ❖ *Genetic studies of human male fertility in Pakistan*
- ❖ *Soybean Based Double Cropping System for Rainfed Areas of Pakistan*
- ❖ *Expression Profiling of Regulatory Factors in Various Phenotypic Classes of Tuberculosis Patients*
- ❖ *Genetic diversity and population structure of markhor in Pakistan*
- ❖ *Mutational and expressional profile of microRNA in thyroid cancer*
- ❖ *Genetic Determinants of Coronary Heart Disease Risk in Central and General Obesity*
- ❖ *Genome editing in plants through oligonucleotide targeted nucleotide exchange*
- ❖ *The study of epigenetic signatures and immune system programming in tuberculosis*
- ❖ *Effectiveness of different processing techniques for reduction of pesticides residues vegetables at house hold level*
- ❖ *Molecular characterization of antibiotics resistant Pasteurella multocida isolated from the buffalo and cattle calves for effective therapeutic approach in Punjab*
- ❖ *Nutritional assesment and phytochemical screeing of some selected wild fruits from balochistan, Pakistan*
- ❖ *Molecular Characterization of Apis Mellifera (L.) Hygienic Behaviour Against Varroa Mite in Pakistan (Phase 1)*
- ❖ *Developing Reproductive Technologies for Conserving Quail*
- ❖ *Morpho-molecular characterization and management powdery mildews of cucurbits*

- ❖ *Sustainable Urbanization and the Impact of Sprawling Communities in Pakistan*
- ❖ *Harnessing Untapped Potential of Oleaginous Bacteria for Development of Lipid Based Biorefineries Using Food Processing Waste*
- ❖ *Inhibition of TGFBR Signalling Pathway in Cancer Cells Using Selected Natural Compounds*
- ❖ *Exploring genetic diversity and association mapping to analyze root system architecture under well water and water limited conditions in maize*
- ❖ *Commercial Scale evaluation of different dehydration method on the quality and shelf life of strawberry (fragaria annanasa)*
- ❖ *Assesment of physiochemical and molecular diversity of peach (prunus persica) germplasm growing in Pakistan*
- ❖ *Carbon And Nitrogen Mineralization In Soil Treated With Different Organic Amendments And Their Impact On Soil Aggregate Stability And Soil Health*
- ❖ *Juvenile delinquency and the role of socio-economic factors: A study of selected juvenile offenders in Punjab, Pakistan*
- ❖ *Structural basis for HECT E3 ligase and SARS-COV-2 spike protein inhibition: Targeting HECT E3 ligase for COVID-19 therapeutics*
- ❖ *Electrocatalytic abatement of endocrine disrupting pollutants from wastewater and simultaneous electricity production using nano aerogels*
- ❖ *Screening and validation of natural herbal dewormer for livestock*
- ❖ *Dissecting pathomechanism of recurrent pregnancy loss through genomic investigation and in vivo disease modeling*
- ❖ *Development of indigenous renewable energy technologies for sustainable agriculture*
- ❖ *Application and delivery system of plant protein isolates*
- ❖ *Post harvest management and nutraceutical assessment of sweet oranges (citrus sinensis L. Osbeck) produced in Taxila khanpur valley*
- ❖ *Revamping probation services: assesing risks, needs and strenths of offenders on probation in Punjab, Pakistan*
- ❖ *Molecular Cloning and Heterologous Expression of Endopolygalacturonas Gene in E.coli as a Promising Application for Food Industry*
- ❖ *Preparation and evaluation of bovine serum and cheicken egg derived immunoglobulins for the treatment of staphylococcus aureus mastitis in cattle and buffalo*
- ❖ *Molecular quantification and breeding of heritage chickens (Asil) for better feed efficiency*
- ❖ *Mining for private /unique genes preserve in rapeseed brassica napus germ plasm regulating draught & salinity tolernace and special seed nutrition quality based on genome structural variation analysis of A core collection*
- ❖ *Traceable Beef Production: An Innovative Production System to Develop Consumer Trust on Food Safety through Traceability*
- ❖ *Screening of validation of natural herbal dewormer for livestock*
- ❖ *Nutraceutical characterization guava (psidium guajava L.) cultivars in response to different post-harvest interventions*

- ❖ *Development of nanobiofertilizer (nano-encapsulated PGPR) with silicon dioxide nano-particles for improvement of wheat yield*
- ❖ *Identification and development of functional molecular markers related to resistance against viral diseases in chill*
- ❖ *Precision dairy farming using RFID technology*
- ❖ *Adaptability and development of production technology of guar (Cyamopsis tetragonoloba (L.) Tauba) in rainfed Pothwar through simulation modeling*
- ❖ *Research for productivity enhancement of drought tolerant and shattering resistant cultivars of sesame in rainfed areas of Punjab Pakistan*
- ❖ *Validation of Rhizobium for Mass Production of Groundnut Biofertilizer*
- ❖ *Selection fingerprinting and combining ability assesment of candidate chilli accessions for OPV development*
- ❖ *Development of dust control mechanism for wheat thresher to minimize environmental pollution and control health hazards of farming community*
- ❖ *Modeling approach for assessing the impact of climate change on growth and yield of wheat and groundnut and possible adaptation/management strategies under rainfed condition.*
- ❖ *Evaluation and Introduction of Some Exotic Kiwi Cultivars*
- ❖ *Exploration, domestication and commercialization of bees (bumble bee and honey bee)*
- ❖ *Developing a sub-national dashboard for the urban food system*
- ❖ *Studies on effects of zinc, boron and iron nanoparticles on yield quality of olive oil*
- ❖ *Capacity building and transformation of food system with special focus on gender*
- ❖ *Anti inflammatory activities of korean red ginseng extract and asgand nagori (withania somnifera)-A comparative study*
- ❖ *defining the role of red korean ginseng extracts on mental stress and fatigue under sleep deprived model on the productive, physiological, biochemical and carcass quality in new zealand rabbits*
- ❖ *Development of sperm cryopreservation protocols for Cirrhinus mrigala and labeo rohita*
- ❖ *Genetics studies of inherited neurodevelopment disorder in Pakistan Families*
- ❖ *Nutrition upcycling of agriculture and food wastes for multispecies protein feedstuff production: A circular economy concept and insect meal product development*
- ❖ *Pilot Scale production of cow-side and bench-top immune-magnetic diagnostic tool for bovine mastitis*
- ❖ *Exploring potential of nanoparticles for improved shattering resistance, growth and yield of canola*
- ❖ *Introduction of premium yielding Day Neutral Strawberry (Fragaria x ananassa) with extended fruiting period and improved shelf life*
- ❖ *Evaluation and introduction of apricot and pear low chill cultivars for potohar plateau*
- ❖ *Postharvest quality management and dehydration process, optimization for grapes and fig*
- ❖ *Anti microbial activity of korean red ginseng extract against bovine mastitis causing pathogens*
- ❖ *Hair growth potential of res korean ginseng with LD-methionine and analysing the histological and microrna profiles changes in angora rabbit skin development and muscle gain*

PUBLICATIONS

The faculty published more than eight hundred research publications in reporting year in National and International reputed journals. (Details are given at Annexure 1.1 and 1.2)

CONFERENCES, SEMINARS AND WORKSHOPS, ETC.

Holding of Seminars, Workshops and Conferences is regular feature of the university where experts from various fields are invited to share their experiences with faculty, students & researchers on current issues of international and national importance. Such an activity is important for research and academic development of an institution as it provides guidelines for policy development at national level. During the reporting year, different departments of the University organized more than hundred International and National Workshops/ Seminars/Conferences and Webinars. The University faculty also participated and contributed research papers in more than two hundred National Workshops/Seminars/Conferences (Details are given at Annexure-II).



University News Letter

In order to have a close contact with community and activities at University “News Letter” is being published on quarterly basis. This is widely circulated among the students, faculty and all other sister organizations.

RESEARCH COLLABORATIONS

The University has initiated collaborative projects with the following R&D organizations for the purpose of research:

- ☞ Himalayan Wildlife Foundation (HWF), Islamabad
- ☞ Punjab Wildlife & Parks Department, Lahore
- ☞ Directorate of Wildlife & Fisheries, AJ&K, Muzaffarabad



- ☞ University of Agriculture, Faisalabad
- ☞ National Engineering & Scientific Commission
- ☞ Ministry of Climate Change
- ☞ National Institute of Health (NIH)
- ☞ Korean Society of Gingseng

OPERATIONS OF OFFICE OF RESEARCH, INNOVATION AND COMMERCIALIZATION (ORIC)

The Office of Research, Innovation & Commercialization (ORIC) a central staff office reporting to the Vice Chancellor, is charged with administrative responsibility for all University research and related activities involving extramural sponsorship. In fulfilling its duties, the Office of Research serves as both a center of advocacy for research and related activities, and facilitator of the research environment. The functional areas supported by Office of Research staff include information services,



project and proposal development assistance, and grants and contracts administration for pre-award and selected post-award tasks. All proposals submitted by University personnel must be transmitted to and reviewed by Office of Research staff to assure adherence to internal and external policies and procedures. The Director of the Office serves as the designated University Officer for all related matters. The Office of Research, Innovation & Commercialization seeks to enhance the environment for all research and scholarships by:

- ❖ Supporting the university's strategic research directions and policies
- ❖ Increasing and diversifying external research funding
- ❖ Improving recruitment and retention of top faculty
- ❖ Improving integration of research and education at all levels of the university
- ❖ Improving translation of research into the public benefit
- ❖ Strengthening university-industry relationships
- ❖ Promoting entrepreneurship, technology-transfer and commercialization activities that energize and support the local and national economy
- ❖ Promoting and enhancing crosscutting and multi-disciplinary research initiatives

RESEARCH ENDOWMENT FUND PROGRAM

Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi has setup Research Endowment Fund in order to promote Research, Develop & Disseminate new technologies and capacity building through trainings in the field of agriculture and allied sciences. The University Syndicate in its 30th meeting held on 29th May 2004, approved the rules for Research Endowment Funds of the University of Arid Agriculture, Rawalpindi. ORIC organized the ceremony to let know the faculty



members about the University Research Endowment Fund Program. Director ORIC, Prof. Dr. Khalid Saifullah Khan welcomed the faculty members and thanked the Vice-Chancellor to approve the funds for this program.

Different initiatives/programs have been designed under the umbrella of Research Endowment Fund in 4th meeting of Board of Directors held on June 27, 2022 to accelerate the research activities in the university. Prof. Dr. Qamar Uz Zaman Vice Chancellor PMAS AAUR. Prof. Dr. Nadeem Akhtar Abbasi, Pro-Vice Chancellor, PMAS AAUR. Prof. Dr. Khalid Mehmood Khan, Ex-Vice Chancellor, PMAS AAUR, Mr. Aqeel Sultan, Registrar, Syeda Iram Umer, Director, Treasurer Office and all the Deans, Directors, Additional Directors ORIC and Assistant Director ORIC were the members of meeting.



Objectives:

- Promotion of Research
- Developing New Technologies
- Dissemination of Technologies
- Training required for the development of Agriculture in the country

Research Endowment Fund Initiatives:

Following initiatives has been design under the umbrella of Research Endowment Funds:-

- Research/Performance Awards
- Funding for Workshops/Symposia/Seminars
- Publication Incentives
- Book Writing Incentives
- Research Grant for PhD Students

- Funding for Travel grant
- Funding for Outreach Activities
- Reimbursement of Patent Filing

A. Publication Incentives 2022-23

The following faculty members have awarded research publication incentive in the year 2022-23.

Sr.#	Name of Faculty Member	Amount Rs.
1.	Dr. Abdul Manaf	50,000
2.	Dr. Zohair Hasnain	20,000
3.	M. Tahir Akram	10,000
4.	Muhammad Azam Khan	50,000
5.	Dr. Asim Gulzar	40,000
6.	Dr. Muhammad Irfan	50,000
7.	Dr. Ruqia Mehmood Baig	40,000
8.	Dr Yamin Bibi	50,000
9.	Dr. Saira Asif	50,000
10.	Dr. Noshin Ilyas	50,000
11.	Dr. Saadia Masood	50,000
12.	Dr. Saima Mustafa	20,000
13.	Dr. Gulnaz Hameed	40,000
14.	Dr. Bushra Allah Rakha	50,000
15.	Prof. Dr. Khalid Saifullah Khan	50,000
16.	Dr. Tariq Mahmood	40,000
17.	Dr. Azeem Khalid	50,000
18.	Dr. M. Moaen-ud-Din	20,000
19.	Dr. Zahid Naseer	50,000
20.	Dr Rai M. Amir	40,000
22.	Dr. Muhammad Azam	20,000
23.	Rana Shahzad Noor	50,000
24.	Dr. Fiaz Hussain	50,000
26.	Dr. Saif Ur Rehman	20,000
27.	Muhammad Javaid Asad	20,000

28.	Dr. M. Rais	20,000
29.	Dr. Naveed Iqbal Raja	50,000
30	Dr. Asif Ahmad	40,000

B. Funding for Workshop/Seminar/Symposia 2022-23

The following faculty members have awarded funding for workshop/ seminar/ symposia in the year 2022-23.

SN	Title of Workshop/Seminar/ Symposia	Amount
1.	Hand on Training Workshop on Advanced Surgical Techniques and Electro-acupuncture in Pets	249,000
2.	Training Workshop on Queen Rearing and Modern Beekeeping	249,000
3.	International Conference on Urban Horticulture Local Prospects and Global Scenario	249,000
4.	International training workshop on Agroforestry	125 ,000
5.	Impact of Climate Change on Vector Borne Disease	125 ,000
6.	Two Days holistic Workshop on Business Intelligence and Data Analysis	245,000
7.	Innovation and Entrepreneurship: the Value Creation	240,000
8.	Mitigation Industry Academia Gap through hands on Training Session on State of ART IT Tools	249,000
9.	Qualitative Comparative Analysis: An Introduction to Research Design and Application	210,000
10.	1 st International Workshop on Applications of Artificial Intelligence and IOT	249,000
11.	1 st International Hybrid Seminar on Bioinformatics and Computational Biochemistry in Post Genomic Era	200,000
12.	Hand on Training on Avian Necropsy and Emerging Diseases Challenge in Poultry and Game Birds	240,000
13.	Hand on Training on Diagnostic Ultrasonography	159,000
14.	Training Workshop on Capacity Building for Integrated Agriculture	250,000
15.	1 st International Conference on Philosophy of Social Sciences (ICPSS) 2022 ‘Bringing Philosophy Back in the Academic Track’	275,000
16.	Seminar on Insect Sciences for Business Development	135,000

C. Travel Grant for Faculty Members for National/ International Travel Grant

The following faculty members have awarded funding for Travel Grant (National/International) in the reporting years.

S.N	Name & Department	Title of Paper	Venue	Amount (Rs.)
1.	Dr. Tariq Mahmood, Wildlife Deptt.	Distribution Dietary menu and Phylogeny of Gray Wolf (Canis Lupus) from North Pakistan	Minneapolis Minnesota, USA	500,000
2.	Dr. Shoib Rashid Saleem, Agricultural Engineering	Delineating management zones for site specific fertilizer application in potato fields	Charlottetown, PEI, Canada	604,000

D. Funding for Outreach Program 2022-23

The following faculty members have awarded funding for Outreach Program:

S. N.	Name	Outreach Program	Amount Rs.
1.	Dr. Abdul Ahad Qureshi, Horticulture	Demonstration Plots for Rabi Season (2022-23)	100,000/-
2.	Dr. Muhammad Ansar, Agronomy	Demonstration Plots for Rabi Season (2022-23)	100,000/-
3.	Dr. Zahid Akram PBG	Demonstration Plots for Rabi Season (2022-23)	100,000/-
4.	Dr. Ghulam Shabbir, PBG	Demonstration Plots for Rabi Season (2022-23)	100,000/-
5.	Prof. Dr. Tariq Mukhtar, Plant Pathology	Demonstration Plots for Rabi Season (2022-23)	100,000/-
6.	Dr. Shoaib Rashid Saleem, Agricultural Engineering	Demonstration of Precision Agriculture Technologies to Industry and Farmers Community at Faisalabad and Multan	490,000/-

E. Research Grant for Ph.D Studentship 2022-23

The following faculty members have awarded Research Grant for PhD studentship in the year 2022-23

S. No	Name of Student	Name of Supervisor	Amount Rs.
1.	Abida Mariam	Prof. Dr. Anwar, IF&NS	200,000
2.	Aamir Khan	Dr. M. Akmal, Soil Science	200,000
3.	Samreena Ramzna	Dr. Abid Ghafoor Chaudhry, Anthropology	200,000
4.	Muhammad Farooq	Dr. Tariq Mahmood, Wildlife	200,000
5.	Muhammad Shahzad	Dr. Muhammad Tariq, Entomology	200,000
6.	Tanveer Ahmed	Dr. Saif-ur-Rehman, DVM	200,000
7.	Nilofar Mustafa	Dr. Naveed Iqbal Raja, Botany	200,000
8.	Sajjad Haider Zaidi	Dr. Lubna Ansari, Forestry	200,000

QUALITY ENHANCEMENT CELL

QUALITY ENHANCEMENT CELL

Arid Varsity established Quality Enhancement Cell (QEC) in 2007 aimed to assess, monitor and assure quality of educational program and research to converge towards international compatibility using the following tools/practices:-



- Review quality standards in teaching, learning and research
- Promote public confidence in academics and research outputs of the University
- Develop quality assurance processes and methods of evaluation to affirm that the quality of provision and the standards of awards are being maintained
- Develop procedures for monitoring, evaluation, departmental review of different degree programs, students' and employer's feedback about quality of education etc.

Vision

“To develop the Pir Mehr Ali Shah Arid Agriculture University into a Centre of Excellence by providing an outstanding educational environment with emphasis on arid/ rainfed agriculture and related professions”

Mission

- To achieve excellence in teaching and research through continuous quality enhancement by monitoring and reviewing the progress
- To form a well-organized scientific infrastructure for teaching and high-tech research for the development of dry land regions of the country
- To produce graduates with adequate training for high professional achievements to enhance the scientific vision for the Barani areas

Quality assurance demands not only a standardized mechanism of checks and balances but it also requires an all-embracing training to understand the demands of upcoming challenges in the fields of education and research. The Directorate of Quality Enhancement has played a vital role in creating quality culture at the Arid Varsity. It has got implemented the quality criteria/standards designed by the Higher Education Commission of Pakistan for the quality enhancement/assurance for the HEIs. The DQE has automated feedback system for the evaluation of faculty and courses at the end of every

semester. Significant improvements in the curriculum and the quality of teaching and research have been made through Self-Assessment Program in place. The weaknesses are identified and corrective actions are taken at program and department level. Awareness about the quality in education and research has also been created among the faculty and staff through training sessions. A strict monitoring of synopsis and thesis defense and implementation of anti-plagiarism policy has improved the quality of post-graduate research significantly.

Overall, the Arid Varsity has started to make rapid progress in the academic, industry linkages, International collaborations and research profile due to aggressive reforms and new initiatives being taken under the leadership of Vice Chancellor, (PMAS-AAUR) Prof. Dr Qamar-uz-Zaman, which will take this institution further higher in the upcoming global ranking of the universities.

Achievements

Directorate of Quality Enhancement is striving hard to enhance the quality of education and research. After its establishment, the DQE has made efforts for the quality enhancement of this University. A summary of salient activities/reforms is as under during the year 2022:-

A. Arid Varsity Ranked 11th in Punjab in Times Higher Education World University Rankings 2023



PHEC hosted a ceremony titled “Climbing Up the Ladder: Acknowledging Ranking Achievements of universities in Punjab. As many as fifteen (15) universities, both public and private, in Punjab have shined among the 1,200 best performing universities in the world in the Times Higher Education World University Rankings 2023. Pir Mehr Ali Shah Arid Agriculture University Rawalpindi (PMAS-AAUR) is ranked 11th in Punjab in this ranking.



In order to acknowledge the efforts, hard work, and commitment of the best-performing universities, the Punjab Higher Education Commission (PHEC) arranged an Award Ceremony at Arfa Software Technology Park, Lahore. The ceremony was attended by Mr. Ahmad Raza Sarwar, Secretary, Higher Education Commission (HED), Govt. of Punjab (as a chief guest), and Mian Imran Masood, Chairman, Chief Minister's Taskforce for Education. Former provincial education minister Prof. Dr. Nizamuddin, former Chairperson PHEC, Prof. Dr. Shahid Munir, Chairperson PHEC, Dr. Mansoor Ahmad Baluch, Chief Operating Officer PHEC, vice chancellors/rectors, registrars, deans, directors of ORICs, directors of QECs, and senior officers of PHEC attended the ceremony.

Moreover, Pir Mehr Ali Shah Arid Agriculture University Rawalpindi (PMAS-AAUR) is also ranked among 601-800 in *Life Sciences* and 501-600 in *Physical Sciences* in Ranking by Subject.

B. Self-Assessment Reports

Twenty four (24) Self-Assessment Reports, thirteen (13) Assessment Team Reports and thirteen (13) Implementation Plans were approved during the year 2022.

C. Assessment Team Visit at GIMS

Mr Imran Altaf, Deputy Registrar-DQE along with Ms Rida Akhlaq, Assistant Registrar-DQE and Ms Sadaf Bashir, Assistant Registrar-DQE visited the Affiliated Institute, GIMS on 22nd – 23rd December, for the Assessment Team visit to ensure that the practices of this procedure were held in line with the guidelines and criteria set by HEC.

D. Institutional Performance Self-Evaluation (IPSE)

The Directorate of Quality Enhancement, PMAS-AAUR organized the Institutional Performance Self-Evaluation on 8th – 9th June, 2022 having Dr Atif Bilal, Associate Professor (Management Sciences) / Student Advisor, SZABIST Islamabad as an external member. The purpose of the activity was to review all the standards ensuring compliance with the HEC's minimum criteria/guidelines set for this purpose.

E. Self-Review of MS/MPhil/Equivalent & PhD Degree Programs (PGPR)

The Directorate of Quality Enhancement, PMAS-AAUR organized the Review of MS/MPhil/Equivalent & PhD Degree Program on 21st – 22nd June, 2022. Mr Azeem Mukhtar, Director QEC, COMSATS University Islamabad participated and contributed to the review meeting. The purpose of the visit was to review MS/MPhil/Equivalent & PhD Programs to ensuring compliance with the HEC's minimum criteria/guidelines set for these Programs.

F. Similarity Index Reports

Ninety one (91) SI Reports were generated by DQE using Anti-Plagiarism software (Turnitin) before sending them to foreign evaluators during 2022.

G. Research Laboratory Note Books

To improve the Quality research culture in the University, it has been made compulsory for all the Post Graduate Research students to prepare and maintain Research Laboratory note books. The number of registered laboratory books is 548 in the Year of 2022.

H. Participations/Contributions

- i. Professor Dr. Riaz Ahmad, Director Quality Control and Mr Imran Altaf, Deputy Registrar-DQE participated in Progress Review Meeting & Training of QECs at Air University Islamabad on 3rd – 5th January, 2022.
- ii. Directorate of Quality Enhancement has successfully organized a seminar on “Importance of Conducting Surveys for Effective Self-Assessment Report” on the 3rd of June, 2022. The

Progress Review Meeting & Training of QECs at Air University, Islamabad January 3-5, 2022



resource person was Mr Farrukh Idrees, Director QEC, National Defense University, Islamabad.

- iii. Another seminar was organized by DQE titled “Teacher Role in Improving Quality of Education in Modern World” on the 7th of June, 2022. Dr Nasir Mehmood, Professor/Dean Faculty of Education, Allama Iqbal Open University Islamabad participated as a guest speaker.
- iv. Prof. Dr MAzhar Qayyum, Director Quality Control and Mr Imran Altaf, Deputy Registrar-DQE attended the Ceremony – “Climbing up the Ladder: Acknowledging Ranking Achievements of Universities in Punjab” on November 2, 2022 organized by PHEC.
- v. Mr Imran Altaf, Deputy Registrar-DQE participated in Two Days International Conference on “Sustainable Development Goals to Improve the Quality of Education and Research” ICSDG-2022 on November 29-30, 2022 at KFUEIT.

- vi. Mr Imran Altaf, Deputy Registrar-DQE participated in 1st International Conference on Philosophy of Social Sciences (ICPSS) organized by Faculty of Social Sciences, PMAS-AAUR on 21st – 22nd December, 2022.
- vii. Ms Rida Akhlaq, Assistant Registrar-DQE and Ms Sadaf Bashir, Assistant Registrar-DQE participated in hybrid session titled "Igniting Sustainable Revolution: Inclusive and Equitable Quality Education in Pakistan" organized by IR/QEC, SZABIST on 28th Dec, 2022.
- viii.DQE also participated in Theses and Synopsis Defense of PhD students.

I. Visit of Accreditation Councils

DQE organized successful visit of National Agriculture Education Accreditation Council (NAEAC) on 24th – 25th Oct, 2022 for the monitoring and evaluation of certain departments during the year 2022. In total, eighteen (18) degree programs have been accredited from respective councils while accreditation of five (05) degree programs is in process.

J. Monitoring of Mid-Term and Final-Term Exams

DQE has successfully monitored mid-term and final-term exams for the semester Spring-2022 and Fall-2022.

K. Memberships of Associations/Networks obtained by Directorate of Quality Enhancement

- Asia Pacific Quality Network (APQN)
- TUFTS University/ Talloires Network UK
- Association of Quality Assurance Agencies of the Islamic World (IQA)

FACULTY DEVELOPMENT

Faculty Development is a continuous phenomenon in order to achieve academic excellence. Therefore, to improve academic programs, the addition of new faculty is a regular feature at the University. The management of the University has great coherence, liaison and coordination with faculty in enhancing quality educational & research opportunities. Resultantly, PMAS-AAUR is producing useful & trained human resource in specialized sectors of Agriculture, Sciences, Information Technology, Management Sciences and Allied Disciplines. The details of regular faculty members in different faculties are as under:-

Sr. #	Name of Faculty / Institute	Lecturer	Assistant Professor	Associate Professor	Professor	Total
1	Faculty of Crop And Food Sciences	05	26	17	07	55
2	Faculty of Sciences	04	16	09	04	33
3	Faculty of Social Sciences	18	11	05	05	39
4	Faculty of Veterinary & Animal Sciences	14	12	10	04	40
5	Faculty of Agricultural Engineering & Technology	05	07	02	01	15
6	University Institute of Information Technology	13	15	0	01	29
7	University Institute of Management Sciences	13	10	02	0	25
8	University Institute of Biochemistry & Biotechnology	02	04	03	03	12
9	Institute of Food Technology/Human Nutrition & Dietetics/Food Safety	03	02	03	02	10
10	Institute of Geo-Information & Earth Observation	02	02	0	0	04
11	Institute of Soil & Environmental Sciences	02	05	05	03	15
Total		81	110	56	30	277

The University has been encouraging and supporting its faculty and researchers to opt for different professional development training programmes both at national and international level. These programmes include short-term trainings and other joint research and development activities with universities and institutions. The faculty and researchers have also been facilitated for presenting their research and publications at national and international fora. The faculty members were encouraged to improve their qualifications and visit universities abroad to update their technical knowledge and transfer technical know how back home from international universities/institutes. During the year, following faculty members/PhD students obtained doctoral/post-doctoral fellowships and short-term trainings in abroad:

DOCTORATES/POST DOCTORATES/SHORT TERM TRAINING 2022-23

Name of Faculty Member	Name of Department	Name of Course/Training	Period	Name of Country
Dr. Saira Asif	Botany	Post Doc Fellowship	02.01.2021 to 27.04.2022	Czech Republic
Mr. Shafqat Ali	Sub-Campus Khushab	Ph.D	01.06.2021 to 31.05.2022	Pakistan
Mr. Shuja Ilyas	UIMS	Ph.D	15.02.2021 to 14.02.2022	Pakistan
Mr. Mujeeb-ur-Rehman Sohoo	Veterinary Biomedical Sciences	Ph.D	19.01.2021 to 18.01.2022	Pakistan
Mr. Naeem Abbas Malik	IGEO	Ph.D	01.08.2021 to 31.07.2022	United States of America
Ms. Mahwish Zeeshan	Anthropology	Ph.D	01.07.2021 to 30.06.2022	United States of America
Ms. Sumaira Hassan	Veterinary Biomedical Sciences	Ph.D	28.03.2021 to 27.03.2022	Pakistan
Ms. Faria Ibad Mirza	Sociology	Ph.D	01.06.2021 to 31.05.2022	Pakistan
Ms. Ainee Zafar	Zoology	Ph.D	30.06.2021 to 29.06.2022	Pakistan
Hafiz Muhammad Hafeez	UIMS	Ph.D	15.08.2021 to 16.08.2022	Malaysia
Syed Mudassir Raza	F&ET	Ph.D	29.08.2021 to 28.08.2022	China

Hafiz Muhammad Shakeel	Clinical Studies	Ph.D	23.08.2021 to 22.08.2022	Republic of Korea (South Korea)
Mr. Munibullah	Clinical Studies	Ph.D	20.08.2021 to 19.08.2022	China
Mr. Ghulam Shabbir Khan	Sub-Campus Khushab	Ph.D	26.08.2021 to 25.08.2022	Pakistan
Mr. Muhammad Imran Khan	Lecturer Livestock	Ph.D	15.11.2021 to 14.11.2022	Germany
Mr. Muhammad Shoaib	Parasitology & Microbiology	Ph.D	29.09.2021 to 28.09.2022	Azerbaijan
Mr. Muhammad Akhlaq	Structural & Environmental Engineering	Ph.D	03.09.2021 to 02.09.2022	China
Ms. Sidra Shahzadi	UIMS	Ph.D	16.10.2021 to 15.10.2022	Malaysia
Ms. Sumera Saleem	Economics	Ph.D	03.09.2021 to 02.09.2022	China
Ms. Beenish Shakir	Mathematics & Statistics	Ph.D	01.11.2021 to 31.10.2022	Pakistan
Ms. Sumaira Hassan	Veterinary Biomedical Sciences	Ph.D	28.03.2022 to 27.03.2023	Pakistan
Ms. Ammara Shakeel	Lecturer, Epidemiology & Public Health	Ph.D	28.04.2022 to 27.04.2023	Malaysia
Ms. Noor ul Hudda	Lecturer, Epidemiology & Public Health	Ph.D	04.05.2022 to 03.05.2023	Belgium
Mr. Shafqat Ali	Sub-Campus Khushab	Ph.D	01.06.2022 to 31.05.2023	Pakistan
Mr. Ammar Asghar	UIMS	Ph.D	01.09.2022 to 31.08.2023	Pakistan
Mr. Naeem Abbas Malik	IGEO	Ph.D	01.08.2022 to 31.07.2023	United States of America
Ms. Mahwish Zeeshan	Anthropology	Ph.D	01.07.2022 to 30.06.2023	United States of America
Hafiz Muhammad Shakeel	Clinical Studies	Ph.D	23.08.2022 to 22.08.2023	Republic of Korea (South Korea)

Hafiz Muhammad Hafeez	UIMS	Ph.D	15.08.2022 to 16.08.2023	Malaysia
Ms. Rabia Jawed	Lecturer Anthropology	Ph.D	12.09.2022 to 11.09.2023	Pakistan
Mr. Muhammad Akhlaq	Structural & Environmental Engineering	Ph.D	03.09.2022 to 02.09.2023	China
Ms. Sidra Akhtar	Lecturer Management Sciences (HRM)	Ph.D	01.08.2022 to 31.07.2023	Pakistan
Ms. Sumera Saleem	Economics	Ph.D	03.09.2021 to 02.09.2022	China
Mr. Ghulam Shabbir Khan	Sub-Campus Khushab	Ph.D	26.08.2022 to 25.08.2023	Pakistan
Ms. Ainee Zafar	Zoology	Ph.D	30.06.2022 to 29.06.2023	Pakistan
Syed Mudassir Raza	F&ET	Ph.D	29.08.2022 to 28.08.2023	China
Mr. Muhammad Imran Khan	Livestock Production Management	Ph.D	15.11.2022 to 14.11.2023	Germany
Mr. Waqar-ul-Hassan Tareen	Agri. Extension	Ph.D	10.12.2022 to 09.12.2023	Germany
Mr. Munibullah	Clinical Studies	Ph.D	20.08.2022 to 19.08.2023	China
Ms. Beenish Shakir	Mathematics & Statistics	Ph.D	01.11.2022 to 31.10.2023	Pakistan
Dr. Sadia Saeed	UIBB	Post Doc Fellowship	14.01.2022 to 13.01.2023	Norway
Ms. Sidra Shahzadi	UIMS	Ph.D	16.10.2022 to 15.10.2023	Malaysia
Mr. Muhammad Adnan Riaz	Education	Workshop on Public Private Partnership for Officers	19.12.2022 to 21.12.2022	Pakistan

ACCESS

BASIC ENROLLMENT 2022-2023

The detail of Student's enrollment is as under:

Sr. No	Name of Degree	2019	2020	2021	2022	2023
1.	Undergraduates	8561	8611	9075	9334	9346
2.	Post Graduates	2243	1725	1406	1339	1242
3.	Doctoral	308	232	236	246	254
TOTAL		11112	10568	10717	10919	10842

GENDER-WISE DETAIL 2022

Sr. No.	Program	Male	Female	Total
1.	Bachelors	5568	3766	9334
2.	Masters	38	61	99
3.	M.Phil/MS (Hons)/MS	589	651	1240
4.	Ph.D	133	113	246
TOTAL		6328	4591	10919

GENDER-WISE DETAIL 2023

Sr. No.	Program	Male	Female	Total
1.	Bachelors	5284	4062	9346
2.	Masters/ M.Phil/MS (Hons)/MS	575	667	1242
3.	Ph.D	132	122	254
TOTAL		5991	4851	10842

EMPLOYABILITY

Directorate of FA&UA entrusted the responsibility to provide an interactive platform to closely link Alumni with their Alma Mater and fellow graduates. In order to achieve this goal, this directorate has started compilation of Alumni Database since 2006. Directorate of FA&UA regularly shares jobs (published in print & electronic media) and scholarship information with University Alumni and Final Semester Students.

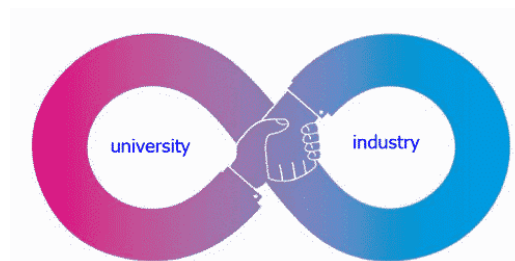
FACULTY-STUDENT RATIO

The faculty-students ratio is Approximately 1: 30.

UNIVERSITY BUILDING ECONOMIES

UNIVERSITY-INDUSTRY LINKAGE

The University is in the process of developing linkage with the industrial / farming community. It has developed linkage with following organizations at National and International level:-



1. Barani Area Research Institute, Chakwal.
2. Fauji Fertilizer Company, Multan.
3. Alfalah Bank, Rawalpindi
4. Agency for Barani Area Development, Rawalpindi.
5. Pakistan Council for Scientific & Industrial Research, Lahore.
6. Ali Akbar Group of Pesticides.
7. Syngenta Pakistan Pvt. Ltd.
8. FMC Pvt. Ltd.
9. Nestle Milk Pack Pakistan.
10. Nuclear Institute for Biotechnology & Genetic Engineering Faislabad.
11. Arqam Foods.
12. Fuji Cereals.
13. Shezan Pak. Ltd. Hattar, Rawalpindi.
14. Vita Bread & Dawn Bread, Rawalpindi,
15. Haleeb, Pepsi Cola (Pvt) Ltd.
16. National Bank of Pakistan
17. Govt. College Women University Sialkot
18. Harmony Group of Companies
19. Unique Value Pvt. Ltd
20. Sawie Systems, Lahore
21. The University of Agriculture, Dera Ismail khan
22. Chand Bagh Schoool,Muridke
23. Sybrid (Private) Limited- A Lakson Group Company, Pakistan
24. Ibn-e-Siena Institute of life sciences, Sheikhpura
25. University of Agriculture, Faislabad
26. Directorate of Malaria Control (DDOMC)Islamabad
27. Pakistan Council of Scientific & Industrial Research (PCSIR)
28. Ayub Agriculture Research Institute (AARI)

INSTITUTIONAL LINKAGES

- ☞ Four Brothers Group of Companies Lahore
- ☞ Capital Development Authority Islamabad
- ☞ The Rawalpindi Chamber of Commerce & Industry
- ☞ State Life Insurance Corporation of Pakistan
- ☞ Agribusiness Support Fund
- ☞ Sustainable Used Specialist Group-Central Asia (SUSG-CASIA) Quetta
- ☞ DELL Pakistan
- ☞ Water and Power Development Authority (Wapda)
- ☞ Dairy and Rural Development Foundation
- ☞ CAB International (CABI) Central and West Asia, Rawalpindi
- ☞ Barani Agricultural Research Institute (BARI) Chakwal
- ☞ Indus Consortium Islamabad
- ☞ MKS (Magnus Kahl Seeds) Australia
- ☞ Rawalpindi Waste Management Company (RWMC)
- ☞ Lantix Technology (Private) Limited Pakistan
- ☞ M/S Tamshoon Gold- Pakistan
- ☞ Star Farm Pakistan Private Limited
- ☞ Foster Learning Pakistan
- ☞ NCLBG&G and SCBS
- ☞ Allied Bank Ltd.
- ☞ Alpha genomics pvt. Ltd.
- ☞ Eguard
- ☞ NHD blood and transport
- ☞ Halal assessment & certification institute pvt. Ltd.
- ☞ North china electric power Univeristy Beijing P.R china
- ☞ Shihezi university xinjiang china
- ☞ ARL UN-ESCAP & Govt. of Pakistan
- ☞ Cosmopolitan institute of tourism hospitality and media science
- ☞ Deakin university victoria Australia
- ☞ Guangdong University of petrochemical technology Maoming, China.
- ☞ The Federal Seed Certification and Registration Department, Islamabad
- ☞ National Cleaner Production Center Rawalpindi
- ☞ School of Plant and Environmental Sciences (SPES), 328 Smyth Hall, Virginia Polytechnic and State University, Blacksburg, Va-24061, USA
- ☞ The Thunen Institute, Germany, Pakistan Organic Association
- ☞ Wolfiz Solutions Pvt. Ltd.
- ☞ M/s. ONNURI Unmanned Aerial Education Center (ONNURI)
- ☞ BAAB-UL-ILM Private Limited, Lahore, Pakistan
- ☞ The Aerospace Information Research Institute



- ☞ Kohsar University murree and Mr. Bee Honey Farms Rawalpindi
- ☞ University of Regina, Canada
- ☞ Huazhong Agricultural University, China
- ☞ NorthEast Forestry University, Harbin, P.R. China

FOREIGN LINKAGES

The University has developed external linkages with the reputed R&D organization all over the world in order to strengthen his students and faculty. These are as follows:



- ☞ University of Florida USA
- ☞ International Center for Agriculture Research in the Dry Areas (ICARDA) Syria
- ☞ Institute of Agro Environmental and Forest Biology & National Research Council Italy
- ☞ Ohio State University USA
- ☞ Curtin University of Technology, Western Australia
- ☞ Nova Scotia Agriculture College, Canada
- ☞ Hebei Agriculture University (HAU) China
- ☞ The University of Bedfordshire U.K.
- ☞ Massey University New Zealand
- ☞ Northwest A&F University China
- ☞ Department of Environmental Engineering, Bioenergy Technical University of Denmark
- ☞ Management Committee of Baise National Agricultural Science and Technology Zone of Guangxi, P.R. China
- ☞ Biogas Institution of the Ministry of Agriculture (BIOMA) P.R. China
- ☞ Kyungpook National University
- ☞ Chinese Academy of Agricultural Mechanization Sciences (CAAMS)
- ☞ Selcuk University Turkey
- ☞ Kastamonu University Turkey
- ☞ University of Tuscia, Italy
- ☞ Mammalian Ecology and Conservation Unit, University of California, Davis, USA
- ☞ Anyang Quanfeng Biological Technology Co. Ltd China
- ☞ Mugla Sitki Kocman University Mugla, Turkey
- ☞ Joint Laboratory on Livestock and Forage Genetics Resources Beijing China
- ☞ Institute of Soil and Water Conservation, Chinese Academy of Sciences and Ministry of Water resources, China
- ☞ Adiyaman University Turkey
- ☞ Shihezi University, Xinjiang, China.
- ☞ Shandong Vocational Animal Science and Veterinary College, China
- ☞ USAK University, Turkey
- ☞ Institute of Tropical Bioscience and Biotechnology of CATAS, CHINA
- ☞ The Global Alliance for Improved Nutrition (Gain), Switzerland
- ☞ University of GAMBIA
- ☞ International Exchange Center, Hunan Agriculture Group, China
- ☞ Poverty Reduction Initiatives and Capacity Enhancement organization (PRICE), Canada

New Initiatives of the University

PMAS-Arid Agriculture University Rawalpindi is striving hard to provide a diversified academic environment for Pothwar youth looking towards joining hands with modern world for exportable surplus. University administration is endeavouring to bring about a tangible change with a view to equip the graduates for self-employment thereby making a positive contribution in national development in addition to providing livelihood for themselves and the poor farming community of the region. The university has embarked upon new initiatives and projects tapping need oriented vision for the Pothwar.

i. Establishment of Q-Zaman Incubation Centre

Q-Zaman Business Incubation Centre was established in 2022 at PMAS Arid Agriculture University, Rawalpindi with the collaboration of Regional Plan 09 of Punjab Information Technology Board, Lahore. So far, 40 students startups were successfully graduated.

ii. Inauguration of newly Established Undergraduate Academic Block

The Vice-Chancellor PMAS-Arid Agriculture University, Rawalpindi Prof. Dr. Qamar-uz-Zaman inaugurated the newly established Undergraduate Block along with the Members Syndicate, deans, directors, registrar, and other faculty members. At the event, Prof. Dr. Qamar-uz-Zaman said that as the number of admissions is increasing with every passing year so it was a dire need for the university to have a new block. He said that the International level equipment and facilities in the block will improve the quality of education and help students in their studies, research and also link with international literature and standards.



iii. Establishment of University Green Office

The University Syndicate in its 80th meeting held on 30.06.2018, approved to establish the University Green Office at PMAS-Arid Agriculture University Rawalpindi. The University Green Office was established under the auspices of Directorate of Planning &



Development to boost up the sustainability practices in the Campus. The Green Office of PMAS-AAUR is the platform for students/ employees of the University where sustainable ideas are shaped, plans are put together and projects are launched, all with the objective to make the university more sustainable. This office will also raise awareness among students and staff about the sustainable achievements and ambitions of the PMAS-AAUR.

iv. Establishment of Green Office Nursery

Two Plant Nurseries under University Green Office have been established at the Main Campus of the University. Under these nurseries, different types of saplings are provided free of cost to the students of the University and local community for planting more trees in order to make Pakistan Green.



Patents/ Variety Development

The following faculty members of this University have filed the patents in year 2022-23:

S. No	Name	Title
1.	Dr. M. Rais	Ecology and conservation of amphibians and reptiles
2.	Dr. Tahir Iqbal	“Seed Depth Measurement Assembly”
3.	Dr. Qaisar Hussain	Multifaceted lignite based slow release nitrogen fertilizer
4.	Dr. Naveed Iqbal Raja	Silver Nanoparticles formulation for controlling aflatoxin level in rice grain
5.	Dr. Gulshan Irshad	Antimicrobial Packaging Aromatic Sachets Encapsulated with Plant essential Oil Tablets against Post-harvest Decay Control of Perishable Fruits”
6.	Muhammnad Ishaq	Formulation for Extended Nitrogen Release from Acacia Biochar Coated Urea” and “A Novel Formulation of Lignite Coated Urea for Slow Release of Nitrogen
7.	Prof Dr. Muhammad Azam Khan	Spinach Variety Registration
8.	Muhammad Ishaq	Trade Mark Registry of Arid Logo
9.	Muhammad Ishaq	Multi-Purpose Wedding Tool
10.	Muhammad Ishaq	Wedding tools for Ridges
11.	Muhammad Ishaq	Composite Bank Light
12.	Dr. Zia Ur Rehman Mishwani	Greener Bimetallics
13.	Dr. Lubna Ansari	The Procedure for Application of Bacillus and Achromobacter species (PGPR) for Enhancement of Tree Seed Germination and Growth

INTERNSHIP AND PLACEMENT OFFICE

Vertical and horizontal expansion of academic programs, subsequent increased gross enrollment and tangible improvement in academic and research standards necessitated a dedicated entity in the form of University Placement Bureau (UPB, Estd. 2006) to facilitate the students/graduates in attainment of scholarships, internships and jobs. In



2009, Higher Education Commission of Pakistan also took this three pronged policy in hand and desired public and private universities to establish their resource and consultation centers for graduates' welfare and university advancement. Thus, UPB was renamed as Students Resource Centre (SRC) in 2009, to pave the linkage between the graduates, prospective employers and scholarship benefactor agencies. Prompt dissemination of information regarding jobs, scholarships, skill enhancement training facilities, workshops, seminars, events/activities at the campus etc. to the registered graduates through electronic mail; were the regular feature of Students Resource Centre. The University has revamped this chapter and transformed in to Directorate of Financial Assistance & University Advancement in 2014.

Directorate of Financial Assistance and University Advancement is a focal point for all types of internal and external scholarships availed by the students of University. The centre strives to ensure the transparency in award of scholarships right from collection of applications to disbursement of funds. Directorate of Financial Assistance and University Advancement also facilitates various entities offering scholarships independently in verification and performance appraisal of their scholars at University.

Directorate of Financial Assistance & University Advancement regularly share jobs (published in print & electronic media) with University Alumni and Final Semester's Students. The communication regarding career counseling and training workshops have been carried out through University Website, Notice Boards, electronic Mail and Job Portal.

Career Counseling

Career counseling is an important and have vital role in student's professional life. Directorate is providing information regarding Scholarships, Job opportunities and organize seminars for improving Interview



Skills of students.

Establishment of Youth Development Center (YDC/KJM) has been initiated for student professional guidance. This YDC will perform duties under the umbrella of Directorate of Financial Assistance & University Advancement. Students will be engaged in academics as well as co-curricular activities like sports, debate clubs, and societies etc.



Alumni Relationship:-

Directorate of Financial Assistance & University Advancement is entrusted the responsibility to provide an interactive platform to closely link Alumni with their Alma Mater and fellow graduates. In order to achieve this goal, this directorate has started compilation of Alumni Database since 2006. Currently, database consists of over 28,536 registered graduates of different faculties and institutes.



ACTIVITIES OF DIRECTORATE OF FINANCIAL ASSISTANCE & UNIVERSITY ADVANCEMENT

Meetings of Institutional Scholarship Award Committee (ISAC):-

Directorate of Financial Assistance & University Advancement has conducted the following Institutional Scholarship Award Committees (ISAC) meetings for selection of applicants from 2022:

Sr.N	Details	Month
i.	Pre-ISAC of Ehsaas Undergraduate Scholarship Program Phase-III	January-2022
ii.	Meeting of Institutional Scholarship Award Committee (ISAC) for Ehsaas Undergraduate Scholarship Program Phase-III	June-2022
iii.	Meeting of Institutional Scholarship Award Committee (ISAC) for Punjab Educational Endowment Fund (PEEF) Master level	March-2022
iv.	Meeting of Institutional Scholarship Award Committee (ISAC) for Pakistan Bait-ul-Mal Educational Assistance	Dec-2022

Different Scholarships offered by Directorate of FA&UA are as follows:-

Sr #	Name of Scholarship	Scholarship Eligibility Criteria
i.	Benazir Undergraduate Scholarship	Offered for Undergraduate needy students
ii.	PEEF (Punjab Educational Endowment Fund)	Offered for Undergraduate/Postgraduate students having Punjab domicile
iii.	Vice Chancellor Talent Scholarship	Offered at subject/discipline level in each semester
iv.	Pakistan Bait-ul-Mal Scholarship Program	Offered for the deserving students of University
v.	HEC Need Based Scholarship	Offered for all Degree Programs
vi.	Gurmani Foundation Scholarship	Offered for students of Southern Punjab
vii.	USAID funded MERIT & Needs Based Scholarship	Offered for Merit cum Need Based students of Undergraduate/Postgraduate
viii.	Dr. Sadiq Foundation Scholarship	Offered for Veterinary students
ix.	Kamran Educational Foundation Scholarship	Offered for Needy students of Undergraduate/Postgraduate
x.	National Educational Scholarship for Talent (NEST)	Offered for needy Postgraduate students of Remote Areas
xi.	Diya Pakistan Scholarship	Offered for needy students
xii.	Pakistan Scottish Scholarship Scheme	Offered only for female students
xiii.	Award of Scholarships for Students from Gwadar	Offered for the Undergraduate students belonging to Gwadar
xiv.	Prime Minister's Tuition Fee Scholarship	Offered for Ph.D. students from less Developed Areas
xv.	OIC & Common Wealth Scholarship	Offered for Foreign students
xvi.	Higher Education Scholarship for Students of Baluchistan & FATA	Offered for students belonging to Baluchistan & FATA
xvii.	National Bank of Pakistan Loan Scheme	Offered for needy students
xviii.	Alfalah Scholarship Program	Offered for needy students

Activities Related To Scholarship Programs 2022:-

S. N	Interactive Sessions and Scholarship Card Distribution Ceremonies for Talented Students of PMAS-AAUR	Month
i.	Launch of Prime Minister's Kamyab jawan Program for Women Empowerment "Kamyab Khatoon on Commemoration of International Women's Day"	March-2022
ii.	Scholarship Certificate, Cheque and cards Distribution Ceremony	April-2022
iii.	Scholarship Certificate, Cheque and cards Distribution Ceremony	June-2022
iv.	Launch of Youth Development Initiatives	October-2022
v.	Small Business startup and management workshop for scholars under USAID- Funded Merit & Needs based Scholarship Program (Phase-III)	November-2022

UNIVERSITY GREEN OFFICE

The University Syndicate in its 80th meeting held on 30.06.2018, approved to establish the University Green Office at PMAS-Arid Agriculture University Rawalpindi. The University Green Office was established under the auspices of Directorate of Planning & Development to boost up the sustainability practices in the Campus.

The Green Office of PMAS-AAUR is the platform for students and employees of the University where sustainable ideas are shaped, plans are put together and projects are launched, all with the objective to make the university more sustainable. This office raises awareness among students and staff about the sustainable achievements and ambitions of the PMAS-AAUR.

Major Objectives are as under:

- ✦ Reduce the consumption of natural resources in offices of University.
- ✦ Planning and partnerships to achieve environmental goals. Strategic Planning and proper implementation of the university's master plan in issues such as traffic management, energy and green buildings.
- ✦ Policy making for energy efficiency and use of clean and environmentally friendly technologies.
- ✦ Solid Waste Management with an emphasis on source sorting and reduction of waste production by declaring the campus "Zero solid waste campus".
- ✦ Monitoring the activities of the various units of the University in order to follow principles of Green Management.
- ✦ Aligning environmental activities in different areas in order to prevent parallel tasks.
- ✦ Taking incentive policies for the participants in the Green Management of the University.
- ✦ Promoting the principles of environmental education at the university level and society.
- ✦ Engagement and participation in environmental policy and planning in twin cities of Rawalpindi & Islamabad.
- ✦ Encouraging and support of environmental NGOs (NGO) and environmental organizations in the University.

ACTIVITIES OF UNIVERSITY GREEN OFFICE

1. Tree Plantation Campaigns

The environmental pollution and temperature is increasing every day due to highest deforestation rate in the country. Trees can serve as green shelter during extreme climate conditions thus making earth cooler for animal and human life. It provides cleaner air to breath. Plants to earth are like lungs to the human body. Tree plantation campaigns were launched by University Green Office in 2022 at PMAS-Arid Agriculture University Rawalpindi. In these Campaigns, Deans, Directors, Faculty Members and Students were participated for the purpose of planting the tree.



2. Free Plant Distribution by Green Office Nursery

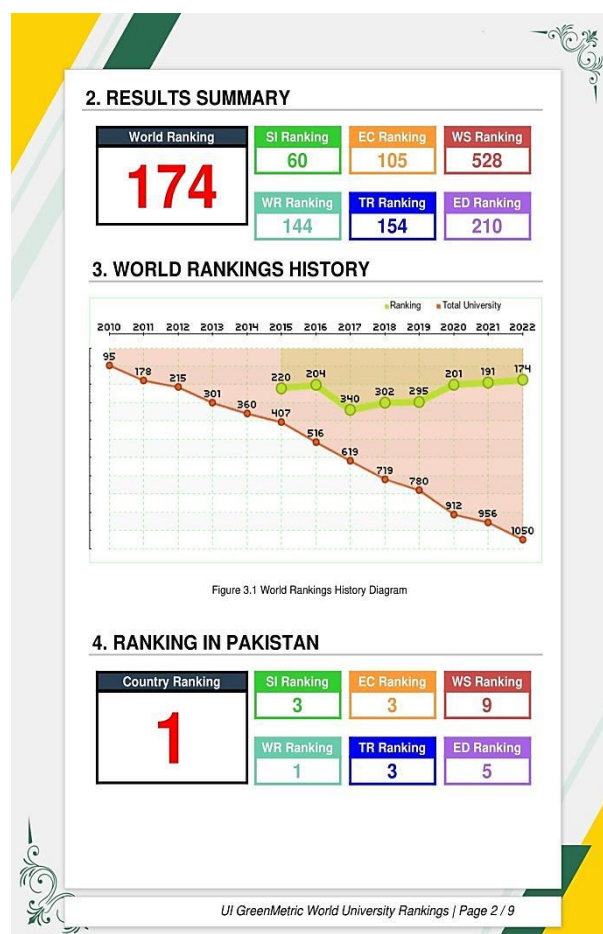
A piece of land has been provided by the University in 2018 wherein, a Green Office Nursery was established under University Green Office. During the year 2022, almost 20,000 plants were distributed free of cost to the students, faculty and local community to strengthen the Prime Minister's Campaign "Plant for Pakistan."

3. Participation in UI GreenMetrics World Universities Ranking

The UI GreenMetric World University Ranking is an initiative of University of Indonesia which is being launched in 2010. The aim of this ranking is to provide the result of online survey regarding the current condition and policies related to Green Campus and Sustainability in the Universities all over the world. It is expected that by drawing the attention of university leaders and stake holders, more attention will be given to Education & Research, Infrastructure Development, Energy & Climate, Waste Management/Treatment, Water Conservation/Recycling and Green Transportation. It is believed that the ranking is useful to the university leaders in their efforts to put in place eco-friendly policies and manage behavioral change among the academic community at their respective institutions.



Thousands of universities around the world are invited to take part in the International Ranking. These universities include many which already have a presence in other World Universities Rankings, such as THES-QS, Webometrics, and Shanghai Jiao Tong ranking. Universities that wish to participate are asked to provide numeric data on a number of criteria that can give a picture of their commitment to the greening of their campus and putting in place environmentally friendly policies that support sustainability. The criteria include such baseline information as the size of the university, spatially and in terms of population, the campus location and the amount of green space; and also information on energy use, transport, water use and recycling and waste treatment. In addition, it will ask about efforts being made by the institution towards establishing green policies and management.



Pir Mehr Ali Shah Arid Agriculture University Rawalpindi has been ranked 1st in all over the Pakistan, 86th in Asian Universities and 174 among all 1050 participating Universities of the world as per latest UI Green Metric World Universities ranking 2022. UI Green Metric University Sustainability Ranking is a world university ranking to assess and compare campus sustainability efforts. The criteria for the ranking of Universities includes campus setting and infrastructure, energy and climate change, waste, water, transportation and education. The Arid Varsity has been ranked as 201 among the top 912 universities of the world with the total score of 7750 as per UI GreenMetric World Universities ranking.

4. Green Youth Movement Club

The Green Youth Movement Club was established at the University in 2021 on the directions of Higher Education Commission of Pakistan with an objective to create awareness among the students of the University about all green initiatives to be conducted for making the country clean & green. Various activities



under this project has been conducted successfully and reported to the Higher Education Commission of Pakistan. The objectives of the Club set by Higher Education Commission of Pakistan are:

- Sensitize and organize youth for promotion of environmental conservation and eco-friendly behavior among masses.
- Technically and financially invest in the demographic bulge of Pakistan-youth, and promote research and eco-innovation to spearhead environmental conservation and climate adaptation and mitigation.
- To mentor and promote young eco-inventors at national, regional and international level.
- Harness global breakthroughs on eco-innovations for Pakistan.
- Help universities become living labs for green innovation and practices for example waste management, water conservation etc.



Ms. Abeeha Rana, Captain, Green Youth Movement Club, PMAS-AAUR attended the 1st International Student Leaders Meeting Universitas Diponegoro, Semarang, Indonesia on 21-24th November 2022.

STRENGTHENING PHYSICAL INFRASTRUCTURE

DEVELOPMENT PROJECTS (LABORATORIES, LIBRARIES, ETC.)

Developmental projects play very important role in uplifting and growth of an institution. The University is continuously taking initiatives for improvement the current status through different development projects. Twenty four development projects have

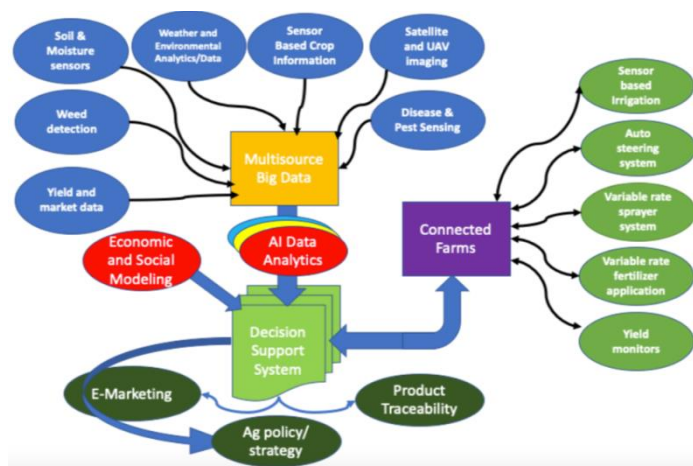
already been completed. Currently the University is implementing four such projects (Rs. 3506.438 million) while new proposals were also submitted to HEC and Punjab Government in next year.

The University carried out various plans, formulated strategies & putting in strenuous efforts to enhance the financial resources from avenues outside PMAS-AAUR. Funds were also fetched from the Higher Education Commission of Pakistan under different schemes for establishing/strengthening new departments at PMAS-AAUR. These efforts will create more research facilities for the students and the faculty members.

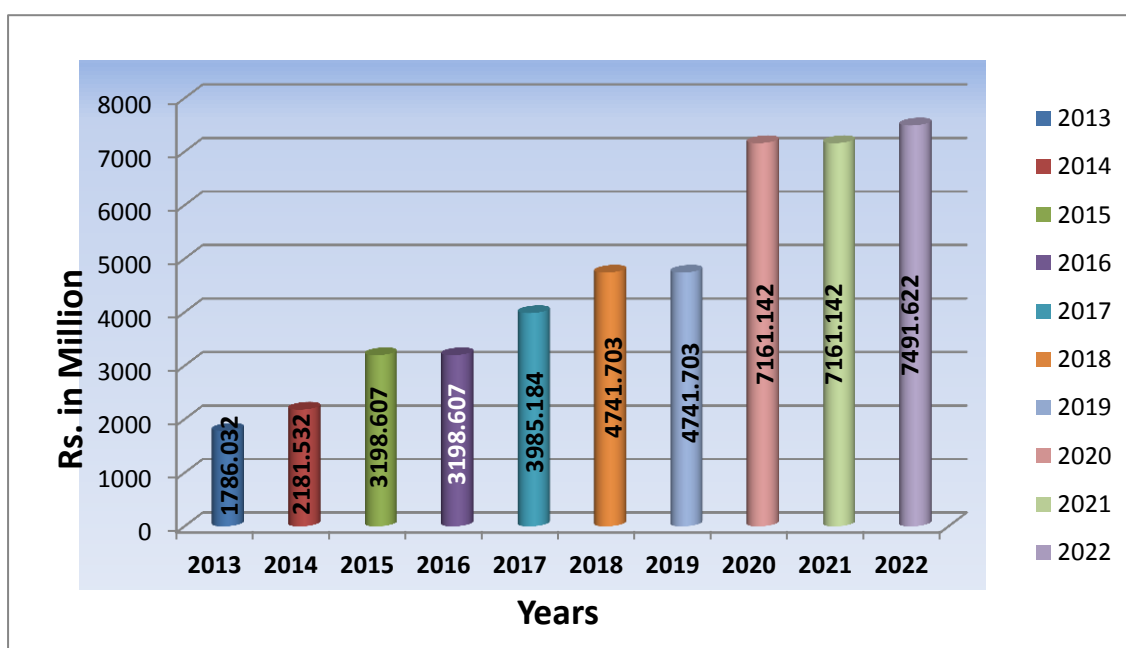
The funds amounting to Rs. 1439.775 million have been fetched from Higher Education Commission for the project titled “Establishment of National Center of Industrial Biotechnology for Pilot Manufacturing of Bioproducts Using Synthetic Biology and Metabolic Engineering Technologies”.



Another mega project titled “Pilot Project for Data Driven Smart Decision Platform for Increased Agriculture Productivity” amounting to Rs. 979.664 million approved by Higher Education Commission is operational during the current year. The project is framed to introduce smart technologies at selected farms. This project plans to implement smart technologies in two private and/ or state farms in different agro-ecological zones, one near Chakwal (Potohar, Northern Punjab) and the other in Multan (Southern Punjab). In the pilot project, technologies such as Internet of Things (IoTs), sensor-based implements and devices, data analytics, artificial intelligence, machine learning and cloud computing will be employed for various kinds of work.



GROWTH IN DEVELOPMENT FUNDING



Development Projects : i) COMPLETED

Name of the Project	Total Cost Rs. In Million
Development of Academic Facilities at UAAR	49.740
Establishment of Centre for Information Technology	27.961
Strengthening of Higher Education Facilities at UAAR	39.645
Establishment of Centralized Instrumentation Centre	37.108
Establishment of Department of Range Management & Forestry	35.972
Establishment of Fiber Optic Backbone & Campus Wide Local Area Network	25.300
Production of Pathogen Free Horticultural Plants	35.884
Construction of Hostel for Visiting Faculty	24.438
Construction of Hostel for Students	36.436
Strengthening of Department of Soil Science & SWC	33.580
Strengthening of Centre for Information Technology	34.346
Strengthening of Department of PBG	31.783
Strengthening of Sports Facilities at UAAR	38.885
Strengthening of Department of Entomology	34.783
Establishment of R&D Facility in Hydroponic	52.546
Strengthening of Department of Wildlife Management	36.141
Strengthening/ Up gradation of Library Facilities at PMAS-AAUR	41.021
Establishment of University Institute of Biochemistry & Biotechnology	358.619
Establishment of Faculty of Veterinary & Animal Sciences	468.620
Development On Farm Students Research Facilities	343.224
The Establishment of Pak-Korea Capacity Building Center for Agriculture & Livestock Technology at PMAS-AAUR	395.500
Establishment of Sub Campus of PMAS-Arid Agriculture University at Attock	188.260
Testing Indigenous Hydroponic Greenhouses for Vegetable Growing at Various Locations in Punjab	77.571
Strengthening of Agricultural Engineering & Women Development Programs at PMAS-AAUR	751.244
Establishment of Sub Campus of PMAS-Arid Agriculture University at Attock (Phase-II)	786.577
Provision of Missing Facilities/Infrastructure at Sub Campus of PMAS-Arid Agriculture University at Attock	330.480
Total (Rs. in Million)	4315.664

ii) ONGOING

Development Projects (On-Going)	Cost (million Rs.)
Establishment of National Center for Livestock Breeding, Genetics & Genomics at PMAS-AAUR	756.519
Establishment of National Center of Industrial Biotechnology for Pilot Manufacturing of Bioproducts Using Synthetic Biology and Metabolic Engineering Technologies	1439.775
Pilot Project for Data Driven Smart Decision Platform for Increased Agriculture Productivity	979.664
Total (Rs. in Million)	3175.958

STRENGTHENING TECHNOLOGICAL INFRASTRUCTURE

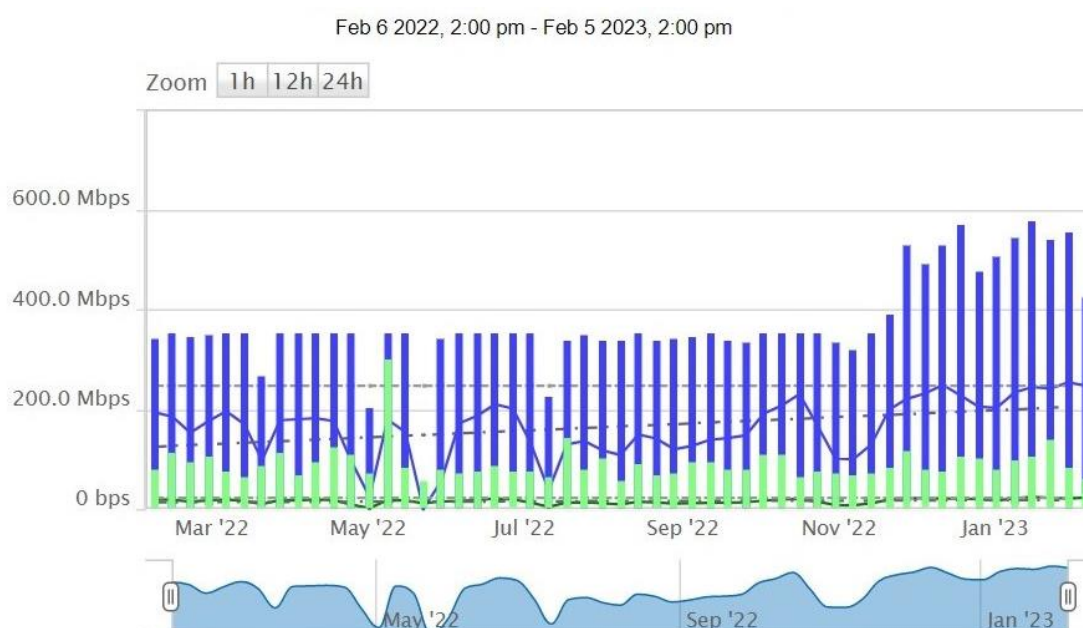
Digital Library

Digital Library 24/7 has easy access in our Network internet protocols (IPs), Usage data of digital library has managed by Pakistan Educational Research Network HEC.

PERN Connectivity

Number of 2000 network nodes extended Internet bandwidth speed enhanced from PERN at main university 350MB and further 20MB reserved for university research farm Koont. Graph of usage the internet last year. HEC PERN upgraded with newly router and replaced existing model of Huawei NE20E.

Network Availability in PMAS-AAUR Graph



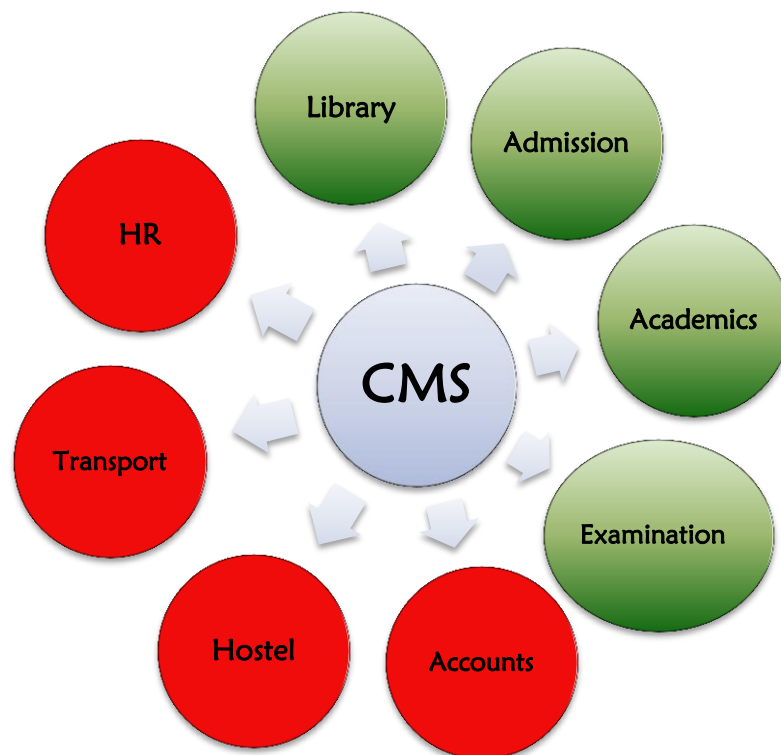
Video Conferencing System

Video conferencing equipments and software installed at conference room University Institute of Information Technology (UIIT). It's set up consist of HD video cam, premium audio system, recording facility, presentations equipments and sound proofed room with live IP address that is connected with 24/7 online support meeting capabilities and competent compelling team.

Campus Management Solution (CMS)

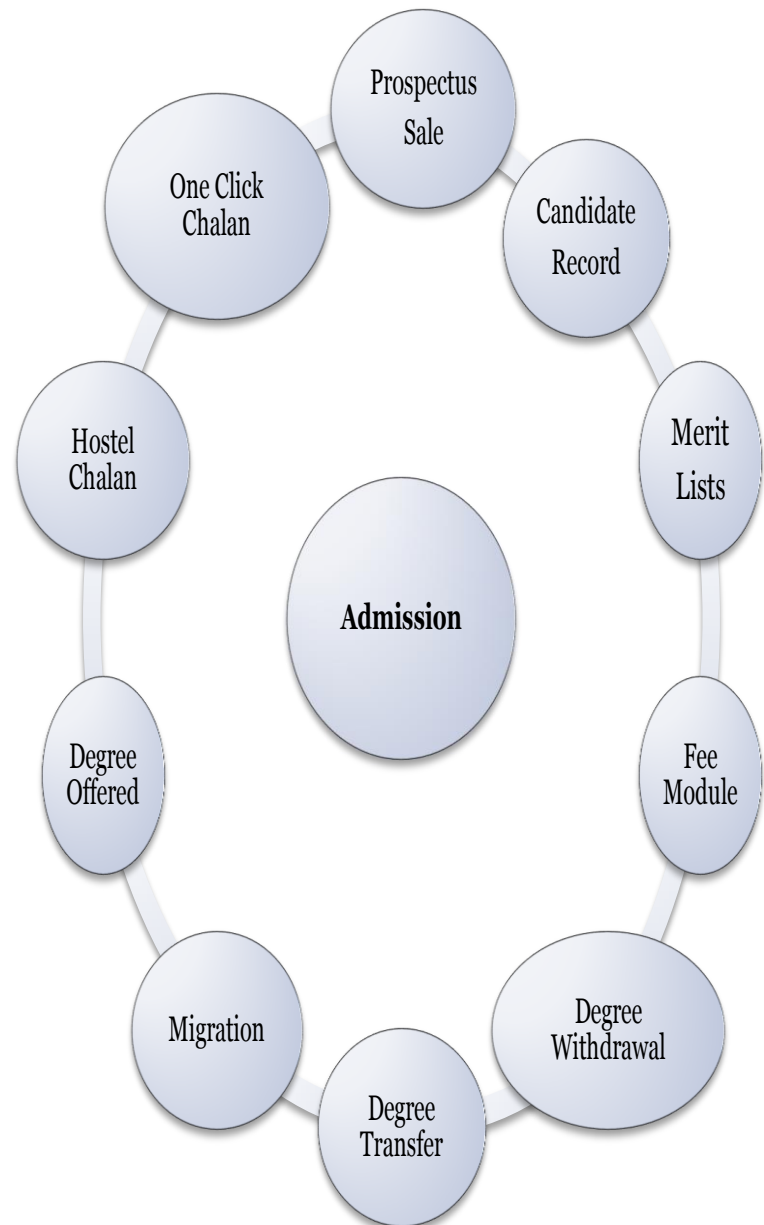
- ☞ Campus Management Solution is the most effective tool that has automated the management functionality of this university by streamlining some of the processes involved.
- ☞ It has reduced the manual handling of processes and thus helps in effective and accurate outcomes.
- ☞ CMS also helps in maintaining transparency in admissions and accounts processes and reduces administrative overhead by providing powerful services.
- ☞ It helps in effective decision making of authorities by generating reports from different aspects.

CMS-A Glance



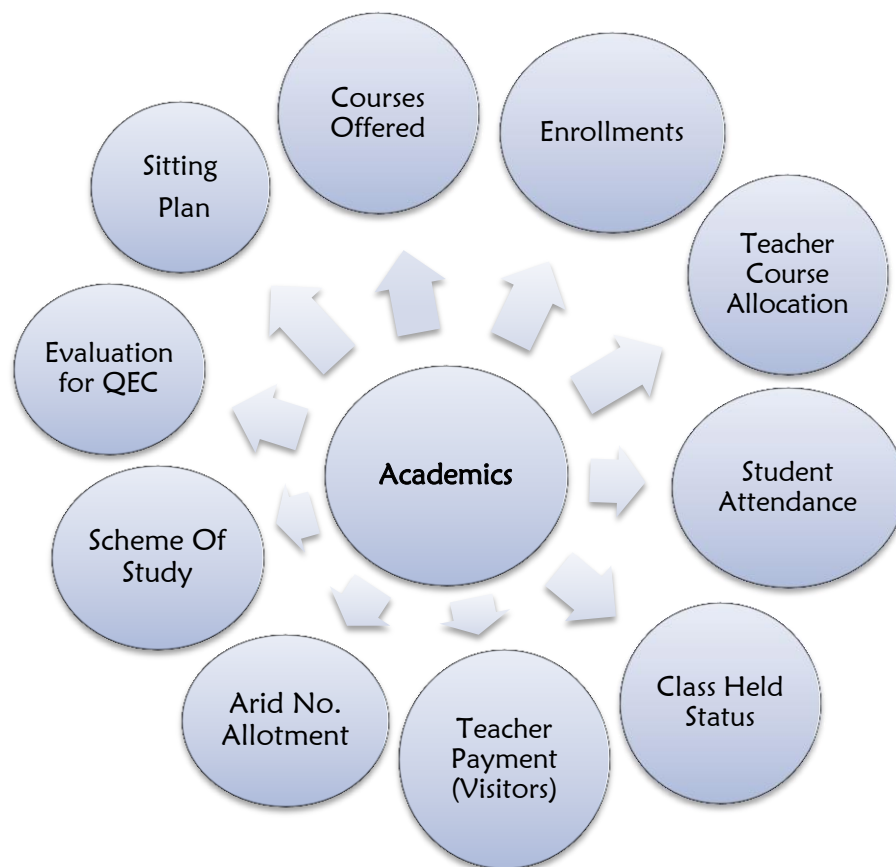
Admission-a glance

- Prospectus Sale Report
- Date wise Candidate entry report
- Tracking Of Merit(Waiting Merit List)
- Total vs Vacant Seats Information Report
- Fee Vouchers Generated through system
- Banks Uses Fee Module
- Fee Reports in different formats
- Bank Departments and Treasure Office Reconcile fee Data
- Different Fee Structures
- Fee Installments
- Quota System
- Admission Scroll



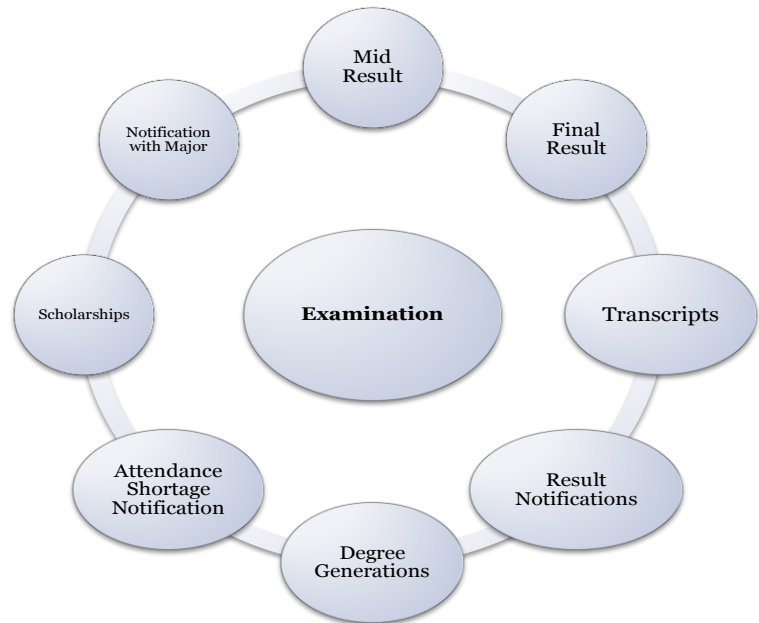
Academics-A Glance

- ☞ Student's University Card
- ☞ GS-10/ Gs-12 Reports in different formats
- ☞ Attendance/Enrollment Status online at university network
- ☞ Teacher Evaluation Reports (Graphical)for QEC
- ☞ Section Assignments
- ☞ Students Attendance Sheets
- ☞ Attendance shortage Attendance Feeding status
- ☞ Student Profile

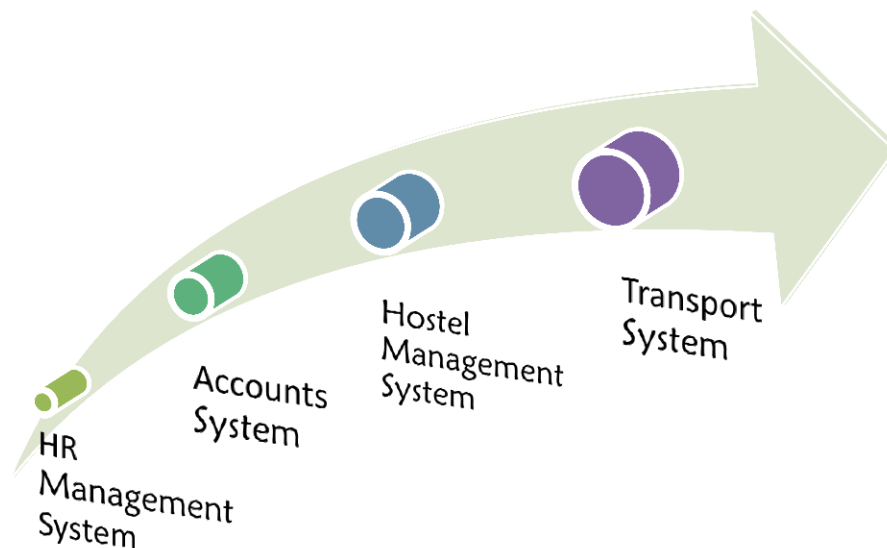


Examination-a glance

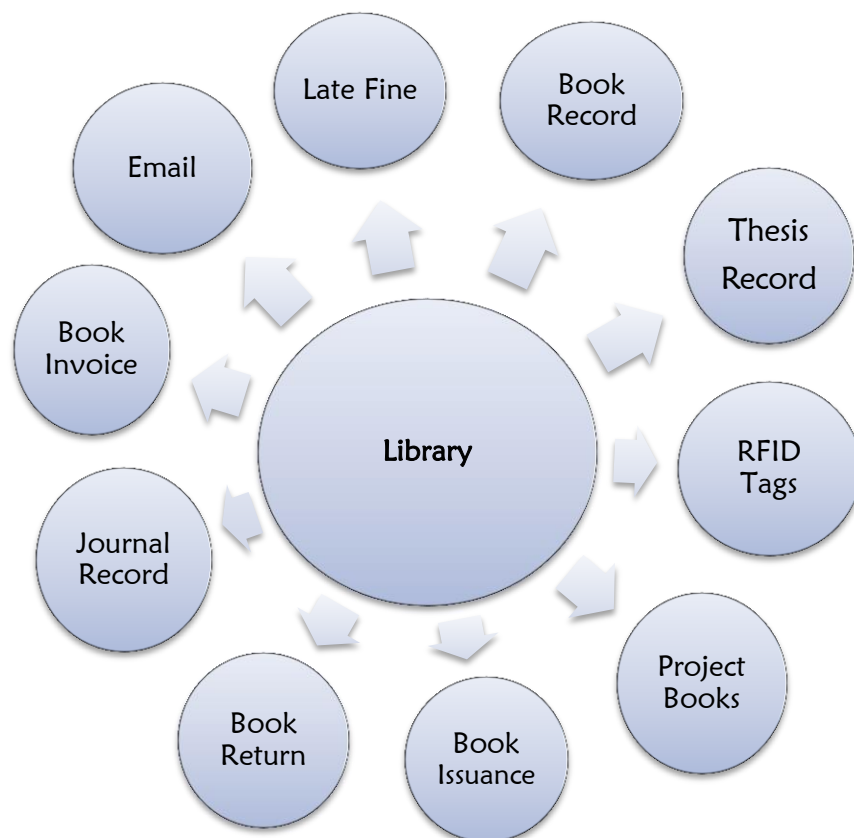
- Calculation of GPA, CGPA, Quality Points, Grades & All others Report Cards required to Controller Office and any other departments.
- Exam Attendance Sheet
- Award List
 - Mid Result
 - Final Result
- Transcripts
- Medal Lists
- Semester Result Notifications
- Final Result Notifications
- Provisional Certificate
- Intermediate Transcript with Picture
- Degrees Printing
- Graduate Directory



Future Enhancement



Library-a glance



Web Portal

The University's important announcements and notifications regarding faculty and students are displayed on the main page of the website. These include announcements regarding exams, admissions, jobs, scholarships, holidays, seminars, and other departmental events. It is displayed as a popup, ticker, sliding banner or as a link on the main page of the website.

- SMS based Information System
- Online Admissions Portal
- Online Job Portal
- Scholarships
- Online Seminar Registration
- Online Convocation Portal
- Tender Portal
- Online Internet Survey
- Online Fee Challan
- Campus News
- News Letters
- Media Coverage (Electronics/Prints)

Access to IT

- University internet nodes 6 thousand to 8 thousand increased so bandwidth enhanced 270MB to 350MB from HEC PERN.
- Number of **2500** users created for MS Team for online usages.
- Establish Big Data Center for Agricultural Repository/Resource Centre at PMAS-AAUR.
- Connectivity with Optical Fiber cable to Women Division building from Agri Engineering server room and ORIC office network installations.
- Zoom video conferencing system, provision meeting link and conducting meeting webinars as well as keeps record of all meetings (Number of Seminars **55**, Workshops **22**, Online meetings 46 and other faculty conferences).
- VOIP Phones Extensions Facility (extended more 90's for faculty and staff offices).
- Faculty, staff and students emails administration at UAAR domain (extended number of 4644 emails of students and faculty members).
- Digital representations of university to the visitors, faculty seminars and workshops at Auditorium, Committee Room and Seminar Hall.
- Facilitate the students Microsoft products installation and usage.

Computer Lab

Connectivity Computer Labs from Agri Engineering to Data Center with 75 Computers, Number of 150 computer systems updated at UIIT.

Digital Library

- Shifted basic feature to premium features in existing Digital Library resources.
- Covid-19, this office had awareness campaign through emails to researchers using digital library resources at their home with the help of HEC instructions.

Wi-Fi.

- Wireless Wi-Fi facility provided at Admin Block, UIMS Director and Faculty offices, Agriculture Block Dean FC&FS, Block C Director Academics offices, New academic Block (Dean Sciences), KOICA Building, Agri Engineering all Floors, Foreign Faculty Hostel, Purchase Office.
- Jinnah Hostel Extension, Ayesha Hostel Wi-fi facilitates.
Faculty of Veterinary and Animal Sciences Ground Floor Wi-Fi facility.

Automation

University Management Solution is the most effective tool that has automated the management functionality of this university by streamlining most of the processes involved. It has reduced the manual handling of processes and thus helps in effective and accurate outcomes.

Automation of major academics helps in maintaining transparency in admissions and accounts processes and reduces administrative overhead by providing powerful services. It helps in

effective decision making of authorities by generating reports from different aspects.

- Student Portal
- Online portal for Directorate of Advanced Studies (DAS)
- Online Fee Challan
- Online Evaluation Performa (1 & 10) for QEC SAR Reports
- Scheme of study
- Class held information
- Teacher payment report
- Module for self-student enrolment
- Diploma notifications
- Paper submission report
- Automation of Directorate of Student Affairs (DSA)
- Portal for Disciplinary Committee Meeting
- Notifications Portal
- Online Request Portal

VPN

Virtual Private Network Connections (VPN) connected with joint venture Institutes, Visiting Faculty provided VPN for online classes and LMS usages.

Smart Classroom

Smart Classroom enhanced the learning environment that the way of teaching and learning digitally. The university Agriculture Seminar Room, Agri Extension student lab, Auditorium Hall and Committee Rooms are representing as smart classroom that is integrated with the digital displays, wi-fi facility, assistive listening devices, recording and other audio/visual components that make lectures easier

e-Books

Digital Books: Springer books Jaab Journal

Online Education and Courses

Learning Management System (UAAR Classroom)

- Faculty Module
- Student Module
- Administration Module
- Portal Notifications
- Teacher Evaluation Performa
- Coursework
- Assignments
- Examinations



Video Lectures Room.

Digital video recording studio is being established at the university for preparing videos, documentaries regarding various activities taking place at the Campus in the field of research, University Outreach program for Farming Community, academic, curricular, co-curricular activities and other ongoing research projects funded by HEC and other funding agencies.

Q.Zaman E-Library

The e-library is modern information Resource Center that aims to deliver the most effective print, digital, online database, catalogs, and reference services to support the learning, teaching and research activities. It targets on the updated information to fulfill the needs and requirements of our students, departments, and faculty.

- Online Public Access Catalog
- Online Databases
- HEC Open Access Resources
- Digital Libraries
- News Room
- News Letters
- Online Dictionaries



UNIVERSITY BUILDING COMMUNITIES

UNIVERSITY-COMMUNITY INTERACTION

PMAS-AAUR is one of the leading higher education institutions in Pakistan. It plays a major role in grooming future leaders who can make a positive difference to the world around them. University has been involved with numerous community support programs. It has been working with different NGOs, government, semi-government/ non-profit organizations.

UNIVERSITY'S ROLE IN BUILDING COMMUNITY

The University has a significant social impact on the region. This impact extends beyond the staff and students to the broader community in general. University offers a wide range of cultural and recreational programs, contribute to the provision of health and community services, provide services to local government and provide assistance to community groups.

In addition to providing research, cultural and social fields, university provides valuable infrastructure for the community including venues for public events, libraries, sporting facilities and research laboratories.



The scholarly activities of a university serve to enhance the reputation of the local region both nationally and internationally. This may result in an increased attractiveness of the region to industries and investment. The University also offers regional communities a better chance to retain their talented youth population.

SPORTS

The Directorate of Sports is working hard for the promotion of sports and healthy activities at PMAS-Arid Agriculture University. The beautiful and prestigious Khalid M. Khan Gymnasium was completed in the university premises in 2010. The following Intervarsity Sports Championship was organized by Directorate of Sports:



Directorate of Soprts organized the following Activities/ Events during the Year 2022:

1. INTER UNIVERSITY SPORTS COMPETITIONS DURING 2022-23

- HEC Inter University Table Tennis Championship 2022-23 held at HITEC University Taxila (Oct. 27-29, 2022).
- HEC Inter University Badminton (Men) Championship 2022-23 held at UET, Taxila (Nov. 11-14, 2022).
- All Pakistan HEC Inter University Athletics (Women) Championship 2022-23 held at LCWU, Lahore (Nov. 15-18, 2022).
- All Pakistan HEC Inter University Athletics (Men) Championship 2022-23 organized by COMSATS, Islamabad (at Punjab Stadium Lahore) (Nov. 15-18, 2022).
- All Pakistan HEC Inter University Cycling (women) Championship 2022-23 organized by University of Lahore, (Dec, 08-10, 2022).
- All Pakistan HEC Inter University Wrestling (Men) Championship 2022-23 organized by UVAS, Lahore. (Dec, 14-16, 2022).
- HEC Inter University Volleyball (Men) Championship 2022-23 organized by University of UET, Taxila. (Dec, 15-17, 2022).
- HEC Inter University Football (Men) Championship 2022-23 organized by NUML, Islamabad. (Dec, 21-24, 2022).
- HEC Inter University Hockey (Men) Championship 2022-23 organized by IIUI, Islamabad (Dec, 25-27, 2022).
- HEC Inter University Basketball Championship 2020-21 organized by NUML Islamabad (Jan, 02-04, 2023).
- All Pakistan HEC Inter University Judo (men) Championship 2022-23 organized by UCP, Lahore (Dec, 09-11, 2023).
- All Pakistan HEC Inter University Basketball (Women) Championship 2022-23 organized

- HEC Inter University Cricket (Men) Championship 2022-23 held at COMSATS University Islamabad. (February 24-27, 2023).

2. INTER FACULTY SPORTS COMPETITIONS

The Directorate of Sports has organized the different Interfaculty Sports Competitions during 2022-23:

- Inter Hostel Girls Sports Competitions (December 14, 2023).
- Interfaculty Cricket (Boys) Championship (January 16, 2023).
- T-10 Cricket Match Faculty Staff Vs Admin Staff (January 18, 2023).

3. POTOHAR FESTIVAL 2022-23

The University female student's teams have participated in this festival. The University student Khoula Omer Khan BBA 1st Semester won Five Gold Medals in Athletics event. (26-28 December 2022).

4. PRIME MINISTER KAMYAB JAWAN TALENT HUNTS PROGRAMME.

The University Students (Male/Female) Players have participated Prime Minister Youth Programmer Talent Hunt in Hockey and Volleyball for Rawalpindi Region team damning December 2022.



UNIVERSITY BUILDING LEADERSHIP

STUDENT LEADERSHIP (UNIVERSITY DRAMAS, EXHIBITIONS, EXPOS, COMPLETIONS, DEBATES AT NATIONAL AND INTERNATIONAL LEVELS)

1. Introduced and Initiated “Class Tutorial System” at University level
2. Established Terms of References (TORs) for Tutors and Tutorial Groups.
3. Prepared and Published University student annual magazine “Naveed-e-Baran 2021-22 (Silver Jubilee Edition) after 10 years.
4. Initiated “Book Reading hour” on every Thursday.
5. First All Pakistan Bilingual Declamation Contest with theme “Bayan-e-Pakistan” on March 10, 2022.
6. 1st time participated in 7th Annual Lyallpur Art and Literature Festival as a team and won following titles;
 - i. First position in Essay writing
 - ii. First position in music
 - iii. First position in dramatic competition
 - iv. First position in videography
 - v. Third position in graphic designing
 - vi. Third position in poster design
 - vii. Third position in photography
7. Observed Pakistan Day on March 23, 2022.
8. Conducted Twin City Declamation Contest with the help of Aridian Debating Club (ADC).
9. Arranged “Independence Day Celebrations” on August 12, 2022.
10. Organized a training session on “Essay Writing Workshop” on August 24, 2022.
11. Organized “Essay Writing Competition” on August 29, 2022.
12. Arranged a “Quiz Competition” on September 06, 2022.
13. Organized a training workshop on “Poetry Writing” on September 14, 2022.
14. Organized “All Breed Dog Show” in collaboration of Pakistan Kennel Club (PKC) in University Ground on December 18, 2022.
15. Organized Students Training Program regarding Social and Civic Skills 18 Jan 2023
16. Organized Students Training Program Regarding Social and Civic Skill on 20 Jan 2023
17. Organized Establishment of Kashmir, Solidarity Forum on 06 Feb 2023
18. Organized seminar on Education and Employment at Europe on 03 March 2023
19. Organized National conference on Bayan-e-Pakistan on 18 March 2023



20. Organized a National Bait Bazi Competition of students on 24 May 2023
21. Arranged a Special Procession (Ranike) on Taqdees-e-Quran on 07 July 2023
22. Organized conference on History of Pakistan on 14 Aug 2023
23. Arranged Drug Awareness Campaign on 24 Sep 2023
24. Arranged Strategic Dialogue Middle Corridor of Turkey Prospects and Challenges on 19 Sep 2023
25. Organized National Seerat Conference and the Guests were Abdul Wahab Attari and Dr. Haris Salam on 13 Oct 2023
26. Organized Seminar on the Society, State and Nationhood in 21st Century on 10 Oct 2023
27. Organized an event on Challenges of united nations and legal migration to Europe Chief Guest, Dr.Afsar Rathor on 17 Oct 2023
28. Arranged a Blood Donation Campus and Health Care Seminar on 21 Oct 2023
29. Organized a Teachers Training Workshop on 25 Oct 2023
30. Organized a Seminar on Kashmir Black Day on 27 Oct 2023
31. Organized a conference on Afkar-e-Iqbal on 13 Nov 2023
32. Organized a seminar on Unlock Global potential on 17 Nov 2023
33. Organized Traffic rules Awareness Campaign on Nov. 2023

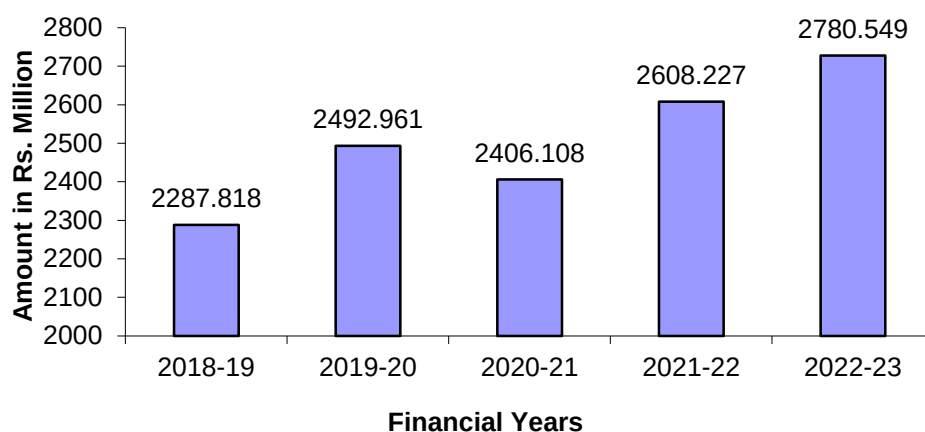


FINANCE

SUMMARY OF BUDGET ESTIMATES FOR THE YEAR 2022-23

INCOME ESTIMATES				EXPENDITURE ESTIMATES			
Source of Income	Original Budget Estimate 2021-2022	Revised Budget Estimate 2021-2022	Original Budget Estimate 2022-2023	Head of Accounts	Original Budget Estimate 2021-2022	Revised Budget Estimate 2021-2022	Original Budget Estimate 2022-2023
Opening Balance	826,000,000	726,076,121	725,000,000	Pay and Allowances	1,073,492,070	1,047,737,183	1,122,235,291
Month Government	50,000,000	50,000,000	44,920,000	Provision for Hiring of Subject Experts/Specialists/Consultants/MTCs			18,000,000
Federal Government	687,624,250	691,243,000	705,067,850	Emoluments to Part Time Teachers/Visiting Faculty/Teaching Assistants/Others			65,000,000
Supplementary Grant from Federal Government	-	-	-	Purchase of Durable Goods	62,500,000	50,500,000	54,854,000
Own Resources (Other than Institutes & Campuses)	440,778,064	539,491,274	598,256,171	Research Projects	8,150,000	8,150,000	8,150,000
University Fee from UIMS	102,557,200	102,910,984	124,763,572	Construction Works	165,100,000	171,515,480	126,699,784
University Fee from UITT	208,371,560	208,930,916	215,018,581	Repair of Durable Goods	11,000,000	11,500,000	13,000,000
Income from Affiliated Institutes	100,793,773	102,778,119	108,867,026	Commodities & Services	171,444,382	205,394,382	246,382,330
PMAS-AAUR Sub Campus Khushab	11,631,114	11,631,114	12,495,800	Transfer Payments	310,000,000	234,288,111	236,800,000
Federal Government Grant for Tenure Track Faculty	22,497,282	43,511,172	68,635,791	Miscellaneous Expenditure	49,000,000	68,250,000	63,500,000
Federal Government Grant for Need Based Scholarships	36,190,750	32,572,000	32,572,000	Contingent Paid Staff	75,900,000	95,000,000	98,000,000
PMAS-AAUR sub Campus Attock	892,000	892,000	4,000,000	Overtime/Evening classes Remuneration	19,000,000	26,000,000	26,000,000
University Institute of Soil & Environmental Sciences	2,586,380	7,594,580	9,653,500	Reimbursement of Medical Charges	17,000,000	25,200,000	20,000,000
University Institute of Food Technology/ Human Nutrition & Dietetics/ Food Safety	33,387,540	34,729,300	45,327,835	Agriculture Strategy Center	100,000	100,000	50,000
University Institute of BioChemistry & BioTechnology (UIBB)	48,549,220	49,706,760	73,676,690	Building Rent	100,000	100,000	100,000
University Institute of Geo Information & Earth Observation	6,168,020	6,160,100	12,294,440	Tenure Track System	22,497,282	43,511,172	68,635,791
				Need Based Scholarships	36,190,750	32,572,000	32,572,000
				IT Network Data Centre	68,953,296	61,899,805	75,089,540
				University Institute of Information Technology (UITT)	96,376,115	97,103,382	100,372,803
				University Institute of Management Sciences (UIMS)	80,635,876	83,854,354	78,759,318
				University Institute of Soil & Environmental Sciences	30,081,824	45,802,975	45,233,700
				University Institute of Food Technology/ Human Nutrition & Dietetics/ Food Safety	34,733,898	38,625,721	40,400,132
				University Institute of BioChemistry & BioTechnology (UIBB)	37,953,686	44,187,764	46,760,960
				University Institute of Geo Information & Earth Observation	34,600,269	35,573,755	19,404,335
				University Institute of Hydroponic Agriculture	29,793,560	29,324,543	19,935,082
				JAAR Research Farms Chawal Road	39,707,578	43,224,689	44,194,520
				PMAS-AAUR Sub Campus Khushab	72,481,860	75,047,673	76,503,663
				PMAS-AAUR sub Campus Attock	31,150,339	33,711,081	34,861,178
TOTAL	2,578,027,153	2,608,227,440	2,780,649,267	TOTAL	2,577,842,784	2,608,174,069	2,780,494,427

SUMMARY OF BUDGET ESTIMATES



RECURRING BUDGET

Recurring Funding (HEC) in Million Rs.				
2018-19	2019-20	2020-21	2021-22	2022-23
663.714	592.402	2406.108	2608.0	2780.549

SELF GENERATED INCOME

For FY 2022-23 = Rs. 1204.353 million

For FY 2021-22 = Rs. 1064.825 million

SUMMARY OF DEVELOPMENT BUDGET ESTIMATES (2022-23)

S. No.	Name of Project	Estimated Cost (Rs. In m)	Total Exp. Upto (30.06.21) Actual (Rs. In m)	Unspent Balance Carried Forward for (2021-22) (Rs. In m)	Releases during (2021-22) (Rs. In m)	Total Available Funds (2021-22) (5+6) (Rs. In m)	Exp. During (2021-22) (Rs. In m)	Total Exp. (4+8) (Rs. In m)	Unspent Balance Carried forward 2022-23 (7-8) (Rs. In m)	PSDP/ADP Allocation (2022-23) (Rs. In m)	Estimated Budget During (2022-23) (10+11) (Rs. In m)
1	2	3	4	5	6	7	8	9	10	11	12
i.	Establishment of National Centre for Livestock Breeding, Genetics & Genomics at PMAS-Arid Agriculture University Rawalpindi	756.519	315.993	164.007	150.000	314.007	223.031	539.024	90.976	126.519	217.495
ii.	Establishment of National Center of Industrial Biotechnology for Pilot Manufacturing of Bioproducts Using Synthetic Biology and Metabolic Engineering Technologies at PMAS-Arid Agriculture University Rawalpindi	1439.775	268.931	81.069	228.851	309.92	288.991	557.922	20.929	306.877	327.806
iii.	Pilot Project for Data Driven Smart Decision Platform for Increased Agriculture Productivity(DDSDP)	979.664	155.900	285.400	150.00	435.400	424.100	580.000	11.300	399.664	410.964
	Grand Total	3175.958	740.824	530.476	528.851	1059.327	936.122	1676.946	123.205	833.06	956.265

UNIVERSITY GOVERNANCE

SYNDICATE

The syndicate is the executive body of the University. Subject to the provisions of the Act and the Statutes, it takes effective measures to raise the standard of teaching, research and publications and other academic pursuits and exercises general supervision over the affairs and management of the property of the University. During the reporting period, Six (06) Syndicate meetings were arranged and necessary decisions were taken in the best interest of PMAS-AAUR.

The University Syndicate consists of:

a.	The Vice Chancellor	Chairman
b.	Member of Provincial Assembly of the Punjab nominated by the Speaker of the Assembly	Member
c.	Chief Justice of the Lahore High Court, or his nominee	Member
d.	Secretary, Department of Agriculture, Government of Punjab, Lahore	Ex-officio Member
e.	Secretary, Department of Livestock and Dairy Development, Government of Punjab, Lahore	Ex-officio Member
f.	Secretary, Department of Finance, Government of the Punjab, Lahore.	Ex-officio Member
g.	One nominee of the Higher Education Commission	Member
h.	One Dean to be nominated by the Chancellor on the recommendations of the Vice Chancellor	Member
i.	Four elected members from the faculty of the University	Members
j.	Three persons of eminence to be nominated by the Chancellor	Members
k.	The Registrar	Secretary

ACADEMIC COUNCIL

The Academic Council is the academic body of the University. It is responsible to lay down proper standards of teaching / instructions, research, publications and examinations and to regulate and promote the academic life at the University. In year 2022 and 2023, Seven (07) meetings of Academic Council were conducted, wherein revised/amended and new curricula for Undergraduate and Postgraduate studies were discussed and approved. The general rules and regulations pertaining to academic and administration were also argued and the decisions were made for implementation.

The Academic Council consists of:

a.	The Vice Chancellor	Chairman
b.	The Deans of the Faculties	Members
c.	The Directors of the Divisions/Institutes	Members
d.	All University Professors including Professors Emeritus	Members
e.	The Chairmen/Chairpersons of the Teaching Departments	Members
f.	All Associate Professors	Members
g.	Two Assistant Professors and two Lecturers to be elected by and from amongst themselves	Members
h.	The Librarian	Members
i.	The Controller of Examinations	Members
j.	Two Agricultural Scientists to be nominated by the Chancellor	Members
k.	Four representatives of NARC to be nominated by the Director General, NARC, Islamabad	Members
l.	The Registrar	Member/Secretary

ADVANCED STUDIES AND RESEARCH BOARD

The Advanced Studies and Research Board advise the authorities on all matters concerning promotion of advanced studies, publications and research in the University. The board considers and reports to the authorities on the institution of research degrees in the University. In the academic year 2022 and 2023, Advanced Studies & Research Board was met two times; the board accorded approvals and advised amendments, where necessary, on admission to post-graduate level, synopsis and research titles of post-graduate students, rules and regulations. The Board also scrutinized various research projects and approved/referred for revision.

Advanced Studies and Research Board consists of:

a.	The Vice Chancellor	Chairman
b.	The Deans	Members
c.	Directors of the Divisions and the Institutes of the University	Members
d.	Three University Professors, other than Deans, to be appointed by the Syndicate	Members
e.	Three University teachers to be appointed by the Academic Council	Members
f.	Five experts from other sister Institutions to be nominated by the Syndicate	Members
g.	Director Advanced Studies	Secretary

FINANCE AND PLANNING COMMITTEE

The Finance and Planning Committee advise the Syndicate on all matters relating to planning, development, finance, investments, and accounts of the University. In the reporting years, Five (05) meetings of Finance and Planning Committee were conducted.

The Finance and Planning Committee consists of:

a.	The Vice Chancellor	Chairman
b.	One member of the Syndicate to be appointed by the Syndicate	Member
c.	Two members of the Academic Council to be appointed by the Academic Council	Members
d.	Two nominees of the Chancellor, one each from Agriculture Department and Finance Department, Punjab	Members
e.	The Registrar	Member
f.	The Treasurer	Member/Secretary

CAMPUS COMMITTEE

The syndicate of the University approved the constitution of Campus Committee with the following Rules of Business:

- To approve all estimates for the purchase of lands and construction work on the campus
- To engage Architects and Engineering consultants
- To let out works to the contractors
- To do other necessary works to complete the construction at the campus

In year 2022 and year 2023, total Six (06) meetings of Campus Committee were conducted. The Campus Committee consists of:

a.	The Vice Chancellor	Chairman
b.	Director General RDA or His representative	Member
c.	Superintending Engineer Building Department Rawalpindi.	Member
d.	DCO Rawalpindi or His representative (for purchase of Land)	Member
e.	Dean FAE&T	Member
f.	Principal Officer Student Affairs	Member
g.	Principal Officer Estate Care & Security	Member
h.	The Registrar	Member
i.	The Treasurer	Member
j.	The Resident Auditor	Member
k.	Project Director Works	Member
l.	Director Planning & Development	Member/Secretary

FACULTY PUBLICATIONS

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10. Afzal, A., A. Riaz, S. Ashraf, J. Iqbal, M. Ijaz, F. Naz and S. K. N. Shah. 2022. Identification of durable resistance against yellow rust. *International Journal of Phytopathology*. 11(1), 97- 113. (IF=0.19)
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Annexure 1.2

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SEMINARS, WORKSHOPS & CONFERENCES

SEMINARS/ WEBINARS, WORKSHOPS & CONFERENCES HELD AT UNIVERSITY

S. #	TITLE	DATE
1.	Seminar on Opportunities for agri-preneurs in the startup innovative seed fund launched by HEC	07-Jan-2022
2.	Technical Seminar on Nutritional Management & Vaccination Guidelines in Pets	20-Jan-2022
3.	International Seminar on Innovative Technologies for managing water, climate and Agriculture Disasters	27-Jan-2022
4.	Foster Flagship Training Program	03-Feb-2022
5.	Scientific Seminar on Emerging disease challenges in poultry and game birds	04-Feb-2022
6.	Canine Health Management	22-Feb-2022
7.	Introductory Session on University Activities with NBP officials	22-Feb-2022
8.	World Pangolin Day 2022	23-Feb-2022
9.	Foster Learning Training program	27-Feb-2022
10.	International Women Day celebrated at PMAS AAUR	11-Mar-2022
11.	Cyber Security Awareness	17-Mar-2022
12.	Latest trends of database in industry	04-Mar-2022
13.	Groundwater making the invisible Visible	28-Mar-2022
14.	Seminar on Higher Education and Moral Values	28-Mar-2022
15.	Code of conduct for IT Professional	29-Mar-2022
16.	The winner's pitch	30-Mar-2022
17.	Seminar on Cleanliness and Dengue Eradication Campaign	14-18, Mar. 2022
18.	Seminar on Epizootology, molecular characterization and vector-borne transmission of lumpy skin disease virus isolated from recent outbreaks in Pakistan	16-Apr-2022
19.	Artificial intelligence and its applications	18-April-2022
20.	Technical gap between industry requirements and skills set of graduates	15-Apr-2022

21.	Cutting edge research and future technologies in computing	18-Apr-2022
22.	Data ware house Vs Big data	18-May-2022
23.	Hands on training on Kjeldahl Instrumentation and analysis	30-May-2022
24.	World Milk Day & Awareness walk	01-Jun-2022
25.	Seminar on World Food Day	07-Jun-2022
26.	FYP Brainstorming Session	07-Jun-2022
27.	Seminar on The Bacterial Wilt of Cucurbits: Ecology, Genetics, and Management	07-Jun-2022
28.	Sustainability of dairy farming in Pakistan: An inside look	14-Jun-2022
29.	How to start freelancing	20-Jun-2022
30.	Rapid Development by ORACLE	23-Jun-2022
31.	E-Resources Literature Search and Review Writing Using Modern Tools	22-Jun-2022
32.	1st Stakeholder workshop for Industry-Academia Linkages	24-Jun-2022
33.	Awareness seminar for farmers in collaboration with NRSP	23-Jun-2022
34.	International Seminar on smart technologies for sustainable agriculture	05-Jul-2022
35.	Seminar on Understanding China fellowship	06-Jul-2022
36.	Seminar on Lumpy Skin Disease: An Emerging Issue	14-Jul-2022
37.	Innovation and Entrepreneurship Symposia 2022	03-Aug-2022
38.	Seminar on Animal Diseases and Human Health	21-Aug-2022
39.	International seminar on Analytical techniques for Materials Assessment in Aqua and Poultry feed	26-Aug-2022
40.	International Seminar on "Efficient Carriers for Microbial Bio-products"	07-Sep-2022
41.	International hybrid seminar/webinar on Efficient Carriers for Microbial Bioproducts	07-Sept-2022
42.	1st International Hybrid Seminar on Bioinformatics and Computational Biochemistry in Post Genomic ERA	07-Oct-2022
43.	Seminar on Impact of climate change on vector borne diseases	10-Oct-2022
44.	World Egg Day Awareness Walk	14-Oct-2022
45.	Seminar on Nutritional Importance of Egg	14-Oct-2022

46.	Seminar on Pink Ribbon Day	27-Oct-2022
47.	Seminar on How to succeed in Technology jobs	21-Nov-2022
48.	Seminar on Micro services Architecture	29-Nov-2022
49.	Seminar on Patents and Copy Rights in Social Sciences	01-Dec-2022
50.	Seminar on Mobile Application Development	06-Dec-2022
51.	International Seminar Globalized Thought in the Academy and Beyond	14-Dec-2022
52.	International seminar on gut health management for poultry toward one health	26-Dec-2022
Workshops		
53.	Training workshop on Effective Data Acquisition for Genetic Improvement of Livestock	10-14, Jan. 2022
54.	03 Days Training workshop on building of newly inducted faculty members	16-18, Feb. 2022
55.	Training workshop for ABG faculty/researcher Genetic Prediction in Livestock Breeding	14-18, Mar. 2022
56.	International Workshop on Internet of Things in Agriculture and food supply chain management	09-11, Mar. 2022
57.	Studentpreneurship to Entrepreneurship: Be your Own Boss	14-15, Mar. 2022
58.	One day training on Product development & Branding techniques	19-Mar-2022
59.	Event on Awareness of International Women's Day 2022	10-Mar-2022
60.	Workshop on Queen Rearing & Modern Beekeeping	29-31, Mar. 2022
61.	Awareness Raising Interactive Workshop on Human Rights	29-Mar-2022
62.	Workshop on Ruminant Diseases	04-06 Apr. 2022
63.	Hand on training on Production of royal jelly	06-Apr-2022
64.	Webinar on Some alternatives to the classical multivariate normal model	26-Apr-2022
65.	4 th national poultry training workshop on Advanced artificial insemination techniques in broiler breeder	10-11, May. 2022
66.	02 Days training workshop on Tractors mechanics and energy conservation in agriculture	16-17, May. 2022
67.	03 days' workshop on Biofertilizer development for pulses production in pothwar	18-20, May. 2022
68.	Webinar on International webinar on the occurrence and rhizosphere microbial regulation of soybean root rot by maize-	27-May-2022

	soybean relay strip intercropping.	
69.	03- Days Hands on Training Workshop on APSIM: Decision Support Tool for Agricultural Systems Modeling and Simulation	25-27, May. 2022
70.	Training workshop on Integrated water resources management	26-27, May. 2022
71.	Training workshop on Non-chemical approaches to preserve post-harvest quality of grains	23-24, May. 2022
72.	Hands-on training workshop on Advanced Surgical techniques and electro acupuncture in pets	07-08, Jun. 2022
73.	Workshop on Urban Horticulture: Global Scenario and local prospects	23-24, Jun. 2022
74.	Seminar on "Pak-China Agriculture Cooperation under CPEC"	17-Jun-2022
75.	Technical seminar on Capacity Building of Female Veterinarians for Future Professional Entrepreneurships	13-Jun-2022
76.	Research tools and techniques: Citation management by using Mendeley/ Endnote	14-Jun-2022
77.	Training workshop on Animal Performance Recording, Data Collection and analysis for Genetic Improvement	18-22, Jul. 2022
78.	Training workshop on Solid Waste Management	23-25, Aug. 2022
79.	Online Training on Countering Biological Threats and Securing Dual Use Information, Technology and Expertise in Pakistan	29-31, Aug. 2022
80.	Two Days Agriculture Training Program on Production to Value Addition	30-31, Aug. 2022
81.	Training workshop on Mushroom cultivation and value addition leading to poverty alleviation of farming community	27-28, Sept. 2022
82.	Three Days Workshop on Pedagogic Research Advancing Research Method, Analysis and Practices	04-6, Oct. 2022
83.	Workshop on Sustainable development in contemporary world: priorities, challenges and prospects	04-06, Oct. 2022
84.	Training workshop on Bovine Reproduction and Artificial Insemination on the topic	24-28, Oct. 2022
85.	International training workshop on Inspection and Quarantine cooperation for Pakistan	20-Oct-2022
86.	International Training workshop on Agroforestry	10-Nov-2022
87.	Validation Workshop On Existing Farming System And Supply Chain Of Date Palm	14-Nov-2022
88.	Validation Workshop 1 GAP Framework & Policy Regulations Of Food Laws And Their Implementation	15-Nov-2022
89.	1 st Hands-on training workshop on Bovine Reproductive Ultrasonography	02-03, Nov. 2022

90.	Workshop on Revamping Probation Services: Assessing Risks, needs and strengths of offenders on Probation in Punjab, Pakistan	21-Dec-2022
91.	One-day Seminar and Hands-on training session on Compassionate Handling & Equine Dental Care	22-Dec-2022
92.	National Training Workshop on Vitamin and Mineral Premix Formulation in Poultry	12-13, Dec. 2022
93.	Workshop on Dairy Value Chain: Modern Trends and needs in dairy Industry	22-23, Dec. 2022
Conferences		
94.	Two Day 31 st food science conference at PMAS-AAUR	18-19, Mar. 2022
95.	International conference on Urban horticulture: local prospects and global scenario	23-25, Jun. 2022
96.	Conference on Clinical and genetic architecture of congenital Hypogonadotropic Hypogonadism	27-Jul-2022
97.	PMAS-AAUR Organized Policy Dialogue Conference	30-Aug-2022
98.	2 nd Meeting of Industry Academia Linkage	07-Sept-2022
99.	Conference on Khud ko Pehchano	08-Sept-2022
100.	1 st International Conference on Precision Agriculture	22-24, September. 2022
101.	Conference on A Novel Family of Ratio-Type Estimators using Conventional and Unconventional Measures of Auxiliary Variable	22-23, September. 2022
102.	3 rd International Conference on Lifestyle Medicine	27-28, Oct. 2022
103.	1 st International Conference on Philosophy of Social Sciences	20-21, Dec. 2022

Seminars/ Workshops/ Conferences arranged in 2023

S. #	Title	Date
1.	Training workshop on mitigation industry academia gap through hands on training session on state of art IT tools	04-05, Jan. 2023
2.	Graduation and Orientation ceremony of Incubates in BIC	10.01.2023
3.	Awareness session on company formation and legal aspects and registration process	17.01.2023
4.	International training workshop on Agro-forestry	17.01.2023
5.	Seminar on Food Security, challenges & Options	02.02.2023

6.	International conference on Animal Production and Health	02.2023
7.	Workshop on Mushroom cultivation	17.02.2023
8.	Seminar on Kiwi fruit production, breeding quality and improvement	21.02.2023
9.	Seminar on Insect sciences for business development	09.03.2023
10.	Training workshop on diagnostic ultrasonography	20-21, March 2023
11.	International Academic studies congress ever changing world: challenges and opportunities (IASC 2023)	10-12, May 2023
12.	Scholarship cheque distribution ceremony 2023	11-05-2023
13.	Seminar on Impact of climate change on regional agriculture and food security	13.05.2023
14.	03 Days Awareness Session for TTS/ BPS Young Faculty	30-05-23 to 01-06-2023
15.	Awareness Seminar on Dengue and Malaria	02-06-2023
16.	Seminar on Women in Agriculture Sciences	22-06-2023
17.	One Day Educational conference	20-06-2023
18.	International Seminar on More Crops Per Drop	30-06-2023
19.	Seminar on Simulating Green House Gas emission on Soil	31-06-2023
20.	World Environment Day 2023	10-07-2023
21.	Workshop on An-sys for Advanced Simulations	13-07-2023
22.	Awareness seminar on road safety and traffic rules	06-06-2023
23.	Opening ceremony of china fellowship	21-07-2023
24.	Open House, Job Fair & Academia Industry Meet-up 2023	27-07-2023
25.	Seminar on Introduction of Key conservation platform	05-06-2023
26.	Seminar on Biosafety and Biosecurity in laboratories	16-08-2023
27.	Role of Rural Women in pulse production	30-08-2023
28.	Nutrition and Feed Colloquium Training Workshop on Feed Formulation on Commercial Feed Software	November 2023

29.	National Symposium on Simulation and Modeling for Future Generation: Pathway to Success	10-10-2023
30.	One Day National Seerat Conference	23-10-2023
31.	Seminar on Challenges of United nations and legal migration to europe	17-10-2023
32.	Workshop on awareness workshop on sustainable farm production & value addition in potohar region	17-19 Oct. 2023
33.	World white Cane day: from awareness to action	19-10-2023
34.	Islamic Banking and Finance awareness Seminar Meezan Bank	October. 2023
35.	Breast Cancer Awareness Seminar	25-10-2023
36.	Observance of Black Day to Condemn the brutalities of Indian forces on Kashmiri Peoples	27-10-2023
37.	How HR Leadership can Become More Entrepreneurial	November, 2023
38.	Seminar on Entrepreneurship	05-12-2023
39.	International Conference on bringing philosophy back in the academic track	19-20 Dec-2023
40.	International Conference on Biodiversity and Medicinal Plants A Way Forward to Sustainable Development	December.2023
41.	International Workshop on Applications of Artificial Intelligence in Agriculture	15-12-2023
42.	Hands on Workshop on Data analysis in Agriculture	21-12-2023
43.	Queen Rearing and Good Beekeeping Practices for Sustainable Apiculture	December-2023

International Conferences/ Seminars/ Workshops attended by Faculty

1. Dr. Pakeeza Arzo Shaiq, Assistant Professor, Institute of Biochemistry & Biotechnology attended conference on characterization of genetic markers for prediction of schizophrenia in south Asian population from 23-25 February, 2022 held at Barcelona, Spain.
2. Dr. Nasir Mukhtar, Associate Professor, Department of Livestock Production & Management attended International seminar on Middle East and North Africa (MENA) Poultry Coarseness, from March 14-16, 2022 at Riyadh, Saudi Arabia.
3. Dr. Malik Muhammad Faisal, Assistant Director, Institute of Management Sciences attended 12th international conference on industrial engineering and operations management from 07-10, March 2022 at Istanbul, Turkey.
4. Dr. Noshin Ilyas, Associate Professor, Department of Botany attended online International Workshop on Climate-smart Agriculture Techniques and Practices, from April 26-28, 2022.
5. Dr. Sarvet Jehan, Assistant Professor, Institute of Soil & Environmental Science Participated in online International Training session on Incorporating IEEE Xplore resources into your teaching: A dedicated session for lecturers on May 18, 2022.
6. Dr. Sarvet Jehan, Assistant Professor, Institute of Soil & Environmental Science Participated in online Training session on IEEE New resources for technical research on June 02, 2022.

7. Dr. Uzma Abdullah, Assistant Professor, Institute of biochemistry and biotechnology attended International European Society of Human Genetics conference (ESHG 2022) from June 11-14, 2022 at Austria, Vienna.
8. Dr. Muhammad Asif Aziz, Associate Professor, Department of Entomology attended online International Congress on Bee Sciences from June 16-18, 2022 at Afyon Kocatepe University, Türkiye.
9. Prof. Dr. M. Jehanzeb Masud Cheema, Dr. M. Naveed Anjum, Dr. Fiaz Hussain, Dr. M. Usman, Engr. Saira Anwar, Assistant Professors, Department of Land and Water Conservation Engineering attended Urban Horticulture: Global Scenario and Local Prospects from June 23-24, 2022 at AAUR.
10. Dr. Noshin Ilyas, Associate Professor, Department of Botany attended 6th Postgraduate Colloquium for Environmental Research 2022 from June 09-11, 2022 at Langkawi Island, Malaysia.
11. Dr. Muhammad Azam, Assistant Professor, Department of Structures and Environmental Engineering attended 2022 Asian Conference on Crisiosonomy from July 21-22 , 2022 at Jeju National University, South Korea.
12. Dr. Sarvet Jehan, Assistant Professor and Dr. Qaiser Hussain, Associate Professor, Institute of Soil & Environmental Science attended online as a presenter at Global Symposium on Soils for Nutrition from July 26-29, 2022.
13. Dr. Muhammad Asif Aziz, Associate Professor, Department of Entomology attended 47th APIMONDIA International Apicultural Congress from August 24-28, 2022 at Istanbul, Türkiye.
14. Dr. S. Maryam Hussain, Assistant Professor, Department of Livestock Production & Management attended International seminar on analytical techniques for materials assessment in Aqua and Poultry feed on August 26, 2022 at PMAS-AAUR.
15. Dr. Evelyn Saba, Assistant Professor, Department of Veterinary Biomedical Sciences and Dr. S. Maryam Hussain, Assistant Professor, Department of Livestock Production & Management and Dr. Evelyn Saba, Assistant Professor, Department of Veterinary Biomedical Sciences attended online Countering Biological Threats and Securing Dual Use Information, Technology and Expertise in Pakistan from August 29th – 31st, 2022.
16. Dr. Nasir Mukhtar, Associate Professor, Department of Livestock Production & Management attended International World Poultry Conference from August 07-11, 2022 at Paris France.
17. Dr. Nasir Mukhtar, Associate Professor, Department of Livestock Production & Management attended International WPSA Asia Pacific Federation meeting & VIV Asia Pacific Exhibition on September 08, 2022 at Impact Hall, at Bangkok, Thailand.
18. Prof. Dr. M. Jehanzeb Masud Cheema, Dr. M. Naveed Anjum, Dr. Fiaz Hussain, Dr. M. Usman, Engr. Saira Anwar, Assistant Professors, Department of Land and Water Conservation Engineering and Dr. Muhammad Azam, Assistant Professor, Department of Structures and Environmental Engineering and Prof. Dr. Muhammad Ansar, Chairman, Dr. Adeel Anwar, Assistant Professor, Department of Agronomy attended online International Precision Agriculture Pakistan conference 2022 on September 22, 2022 at PMAS Arid Agriculture University Rawalpindi.
19. Dr. Sadia Saeed, Assistant Professor, University Institute of Biochemistry and Biotechnology Participated in 4th Oslo Epigenetic Symposium 2022 from September 07-09, 2022 at Oslo.
20. Dr. Nasir Mukhtar, Associate Professor, Department of Livestock Production & Management attended International Animal Nutrition Update on Significance of feed clean up time and nutrients digestion in broiler breeders on September 08, 2022 at Impact Hall, at Bangkok, Thailand.
21. Dr. Mansur Abdullah, Associate Professor and Dr. Evelyn Saba, Assistant Professor, Department of Veterinary Biomedical Sciences attended Two weeks fellowship training on “Capacity building of faculty members/professional in crop yield gap/ produce in the areas of agriculture, livestock and applied disciplines (Pakistan)(20-22)” from 26th September 2022- 9th October, 2022 at South Korea.
22. Dr. Zaib-Ur-Rehman, Assistant Professor, Department of Poultry Sciences attended NDV modulates inflammatory response, induce hormonal and histological changes leading to decrease proliferation of spermatogonial stem cells in specific pathogen-free roosters from September 15-17, 2022 at Poultry Science Conference, International Poultry Expo, Lahore.
23. Dr. S. Maryam Hussain, Assistant Professor, Department of Livestock Production & Management attended online Asia-Pacific Biosafety Association’s 15th Annual Biosafety Conference Biorisk Management: Building Global Resilience During and Post COVID-19 Pandemic from September 23rd - 24th, 2022.

24. Dr. Nasir Mukhtar, Associate Professor, Department of Livestock Production & Management attended International seminar and deliver a lecture on Innovative technologies applied to poultry on October 19, 2022 at Expo Center Riyadh Saudi Arabia.
25. Prof. Dr. Asif Ahmad, Institute of Food and Nutritional Sciences and Dr. Lubna Ansari, Assistant Professor, Department of Forestry & Range Management attended 6th International online Anatolian Agriculture, Food Agriculture and Biology Congress from October 07-09, 2022 held at Kutahya, Turkey.
26. Prof. Dr. Asif Ahmad, Institute of Food and Nutritional Sciences attended Regional Soy Food Workshop from November 22-23, 2022 held at Kathmandu, Nepal.
27. Dr. Arshad Mehmood, Assistant Professor, Department of Economics & Agri-Economics attended The 1st International Congress on Agricultural Sciences and Veterinary from November 20-21, 2022 at Niğde, TURKEY.
28. Dr. Mahmood ul Hassan, Associate Professor, Department of Plant Breeding and Genetics and Dr. M. Asif Aziz, Associate Professor, Department of Entomology attended Capacity Building of Faculty Members/Professionals in Crop Yield Gap/ Produce in the Areas of Agriculture, Livestock and Allied Disciplines from October 26- November 11, 2022 at Korea.
29. Dr. Riaz Hussain, Associate Professor, Department of Veterinary Biomedical Sciences attended 1st International Seminar on Animal Health and Production (1er SISPA) "Livestock diseases and population medicine in dairy cattle farms" on October 11-12, 2022 at University of Souk Ahras, Algeria.
30. Dr. Tariq Mahmood, Associate Professor, Department of Zoology, Wildlife & Fisheries attended International wolf Symposium 2022 from 13-16 October 2022 held at Minnesota, USA.
31. Dr. M. Irfan Ashraf, Assistant Professor, Department of Forestry & Range Management attended online seminar on Career in artificial intelligence at October 19, 2022.
32. Dr. Mansur Abdullah, Associate Professor and Dr. Evelyn Saba, Assistant Professor, Department of Veterinary Biomedical Sciences attended 13th International Ginseng Symposium on "Ginseng-A nutraceutical for Health" from October 25-28, 2022 at South Korea.
33. Dr. Zia-ur-Rehman Mashwani, Assistant Professor, Department of Botany attended online NAPRECA - COMSTECH Summer School, "Phytomedicine - from the bush to the shelf October 31 to November 03, 2022 at University of Nairobi, Nairobi, Kenya.
34. Dr. S. Maryam Hussain, Assistant Professor, Department of Livestock Production & Management attended online seminar on Inspection and Quarantine Cooperation for Pakistan from October 20-November 02, 2022.
35. Dr. Saqib Majeed, Assistant Professor, Institutet of Information Technology attended 6th International conferences on advances in business and Law from 26-27 November, 2022 held at Dubai.
36. Prof. Dr. Zahid Akram, Department of Plant Breeding and Genetics attended Assessment of Genetic variability in wheat genotypes under contrasting moisture of rainfed conditions on December 17, 2022 at Northwest Agriculture & Forestry University Xianyang China.
37. Dr. Noshin Ilyas, Associate Professor, Department of Botany attended International Conference by Biotechnology Society of Nepal from December 16-23, 2022 at Khatmandu, Nepal.
38. Prof. Dr. Arfan Yousaf, Dean, Faculty of Veterinary & Animal Science attended XIV International Agriculture Symposium AGROSYM 2023 from October 05-08, 2023 held at Herzegovina, Bosnia.

Composed & Designed By:

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