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During 2008, this university made substantial efforts to improve academic / research activities and financial resources. Infrastructures of various departments were upgraded to enhance teaching and research facilities. More accommodation facilities were provided to students by constructing one new hostel. Four R & D projects worth Rs. 127.003 millions were completed and five worth Rs. 1244.131 millions were continued. More students were admitted as compared to previous year. Research projects worth Rs. 83.000 million funded by various agencies were under taken by the faculty members.

The Research Farm which was established in 2007 is being strengthened under a mega Developmental project. Construction of seven new research laboratories was initiated and will be completed within this year. New degree programmes in Environmental Sciences & Wildlife Management were initiated. The faculty was upgraded and thirty new teachers were inducted.

Various National and International Workshops / Seminars / Symposiums / Conferences were arranged at the University Campus to share knowledge with in the country and globally. The linkage between faculty, farming community and the industry has been further promoted to ensure the penetration and achievements of objectives of the University.

The provision of better research facilities encouraged the faculty to publish 184 research publications in internationally reputed scientific journals.
STRENGTHENING OF DEPARTMENT OF ENTOMOLOGY

The department of Entomology was strengthened by procuring sophisticated equipments, establishment of three research laboratories, renovation of existing laboratories and faculty development. This will enhance the existing academic capabilities of the department and excellence in research activities.

STRENGTHENING OF SPORTS FACILITIES.

Physical education is prerequisite for mental agility and good grooming. The availability of such facilities encourage the male and female students to avail the opportunity. The project is essential to be completed as envisaged because it is an integral part of an educational institution for the overall mental and physical development of students through sports activities.

The sports facilities cater for the needs of all male and female students of the university whether boarders or day scholars, undergraduates or post graduate of any age group. It helps to develop players at national and international level. Keeping above factors in view, Construction of Multipurpose Gymnasium Hall was under taken in the year 2008, which has been completed now.

INITIATION OF NEW DEGREE PROGRAMMES

New academic programs were initiated during the past academic year. These included M. Phil & Ph.D in Botany, Zoology, Biochemistry, Environment Sciences, Wildlife Management & Forestry & MBA in Urban Management.

SHORT COURSES

In addition to degree programmes, the Faculty of Veterinary Animal Sciences, University Institute of Management Sciences, University Institute of
Information Technology, & the Directorate of Women Division and Continuing Education organized many short courses in the past year. Four hundred participants were trained in the following courses.

- Artificial Insemination Techniques 12 months
- Poultry Disease Protection 06 months
- Fisheries & Aqua Culture 06 months
- Animal Nutrition Management 06 months
- Dairy Herd Management 06 months
- Computer Course 03 months
- Cesco Certified Network Administration (CCNA) 03 months
- English Language Course 02 months
- Computer Application 03 months

LINKAGE WITH INTERNATIONAL ORGANIZATIONS

The university signed three memorandum of understanding (MoU) with the following International organizations to strengthen the academic and research activities.

1. Nova Scotia Agriculture College, Canada
2. Hebei Agriculture University (HAU), China
3. University of Bedfordshire, U.K.

FACULTY DEVELOPMENT

According to the orders of Govt. of Punjab and Higher Education Commission of Pakistan, all faculty members were upgraded to next step promotion. This was a positive motivation move for the entire faculty members and ultimately will impact on better surveillance & excellence in their performance. Thirty new members were also inducted in the last year. Cadre wise detail of these teachers is given below.
PMAS-AAUR management 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.

**Student Enrollment**

The student strength of the university is increasing day by day as reflected in the table below.

<table>
<thead>
<tr>
<th>S No</th>
<th>Name of Degree</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Graduates</td>
<td>1677</td>
<td>1967</td>
</tr>
<tr>
<td>02</td>
<td>Post Graduates</td>
<td>2369</td>
<td>2566</td>
</tr>
<tr>
<td>03</td>
<td>Doctoral</td>
<td>137</td>
<td>144</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>4183</strong></td>
<td><strong>4677</strong></td>
</tr>
</tbody>
</table>
DOCTORAL /POST DOCTORAL TRAINING / SHORT-TERM TRAINING

The faculty members were encouraged to improve their qualifications and visit universities abroad to update their knowledge and transfer technical knowledge back home from international universities/institutes. In the objective, 04 faculty members completed Ph. D in the fields of Plant Pathology, Forestry & Soil Science and 08 faculty members obtained post-doctoral fellowship from HEC and executed research work in China, Germany & UK. Moreover, 02 faculty members preceded on short term trainings/courses in Italy.

In addition to above, 11 faculty members have initiated PhD in Agronomy, Horticulture, Forestry, Plant Breeding & Genetic, Soil Science and Veterinary & Animal Sciences & 06 faculty members are in the process of Post Doctorate training in Horticulture, Forestry, Biochemistry, Environmental Sciences and Plant Pathology.

RESEARCH FOCUS

University faculty focused their research activities on the issues of farming community of Barani areas in general and potohar in particular. There included projects related to soil conservation, weed management, drought tolerance studies in wheat through genetic engineering and environmental studies to control pollution. The following Research projects were operational during 2008.

- Selection of characterization of starter culture for fermented milk products
- The epidemiological studies on bovine fasciolosis leading to the development of forecasting model to assess site specific risk on Indus river basin in Punjab
- Developing high trait hybridized/mutant scavengers chicken for rural poultry
- Study of polyphenol oxides activity and its association with molecular markers in different r wheat genotypes
- Evaluation of Soil Moisture Depletion Pattern, Soil Microbial activity & biomass under different types of terracing in Pothwar
- Allelopathic crop residue use for weed management in rainfed areas of Punjab
Exploring of genetic variation for drought tolerance in wheat by using physiological biochemical attributes
Conservation of Urial through semen preservation
Virulence Analyses of Xanthomonas Campestral pv Sesami and Pseudomonas Syringae pv sesame the Causal organisms of sesame (Sesamum INDICXU L) bacterial blight
Characterization and Quantification of Soil Iron Oxides and their effect on Phosphorus Sorption
Tissue culture and transformation studies in Banana for disease eradication/resistance
Selection of Probiotic cultures for yogurt making
Evaluation of Mungbean cultivars for the response to Rhizobium in Potohar region
Impact of tillage system Legumes and mulches on soil profile moisture dynamics and wheat production
Characterization to determine the adaptive role of Dehydrins under drought stress in wheat
Development of high yielding rust tolerant wheat Genotypes by using molecular markers
Multiplex Immunoassays for detection of TB
Optimization of Water use by Native Plants in arid lands facing global change and Desertification
Isolation of Plant Growth Promoting Rhizobacteria (PGPR) from Legumes Rhizospher and their in N2 Fixation by Legumes under Rainfed Conditions of Pothwar
Repercussion of depletions in vulture populations on the ecology of the Pothwar Region
Isolation / Identification of Pathogen Bacteria from Buffalo Bulls Semen – development of high efficiency antibiotic combination to improve fertility rate
Identification of Chemically defined extenders for cryo preservation of buffalo bull spermatozoa
➢ Detection of Multiple Anthelminthie Resistance of Nematodes in Small Ruminants Grazing in Barani Region
➢ Phenotypic plasticity of Safflower (Carthamus Tinctorius) in response to environment and integrated nutrient management
➢ Distribution and Management of Root-Knot Nematodes (Meloidogyne spp)

DEVELOPMENT OF RESEARCH FACILITIES AT RESEARCH FARM

PMAS-AAUR has established a Research Farm in Rawalpindi District by putting in utmost efforts and able to execute research activities in the research farm outside the university campus. The farms land measuring 2000 kanals, located at Mandra-Chakwal Road in Mouza Koont, District Rawalpindi was acquired in 2006. This research farm was established under the HEC funded mega project titled “Development of On Farm Student Research Facilities at Koont (Gujjar Khan) UAAR”.

RESEARCH PROJECTS

The PMAS-AAUR Faculty also undertook Research Projects in addition to teaching assignments. These projects are sponsored by different funding/donor agencies. During 2008, the faculty had fetched 53 Research Projects for Rs. 82.789 millions. The detail of Research Projects is given below:-

<table>
<thead>
<tr>
<th>S No</th>
<th>Name of Funding Agency</th>
<th>No of Projects</th>
<th>Total Amount Rs. in Million</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Higher Education Commission</td>
<td>16</td>
<td>50.005</td>
</tr>
<tr>
<td>02</td>
<td>Pakistan Science Foundation</td>
<td>05</td>
<td>4.753</td>
</tr>
<tr>
<td>03</td>
<td>Pakistan Agriculture Research Council</td>
<td>03</td>
<td>6.859</td>
</tr>
<tr>
<td>04</td>
<td>Ministry of Science &amp; Technology</td>
<td>01</td>
<td>4.250</td>
</tr>
<tr>
<td>05</td>
<td>Endowment Fund UAF</td>
<td>01</td>
<td>1.999</td>
</tr>
<tr>
<td>06</td>
<td>International Funding Agencies</td>
<td>02</td>
<td>12.612</td>
</tr>
<tr>
<td>07</td>
<td>University Own Resources</td>
<td>25</td>
<td>2.311</td>
</tr>
<tr>
<td></td>
<td><strong>Total Rs. In Million</strong></td>
<td><strong>53</strong></td>
<td><strong>82.789</strong></td>
</tr>
</tbody>
</table>
ADMINISTRATIVE

In pursuant to good governance and transparency in the system, the meetings of administrative bodies of PMAS-AAUR were held regularly under the Chairmanship of the Vice Chancellor. A participatory approach was adopted in decision making and various academic, developmental and administrative decisions were taken in consultation with all members of committees constituted for the purposes and thereafter, approved by the statutory bodies.

UNIVERSITY SYNDICATE

The Syndicate is the highest executive body of the University, which holds it’s meeting as and when required to take up & ratifying the decisions of lower bodies and embark upon decisions of its own. During the reporting period, 03 Syndicate meetings were arranged and necessary decisions were taken in the best interest of PMAS-AAUR.

ACADEMIC COUNCIL

In year 2008, one meeting of Academic Council was conducted, wherein revised/amended and new curricula for under-graduate and post-graduate 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.

FINANCE & PLANNING COMMITTEE

The Finance & Planning Committee collaborated twice in 2008 for resolution of financial issues and authorization of budget. After interactive sessions by the members, budget for the year and other related financial matters were approved.

ADVANCED STUDIES & RESEARCH BOARD

In the academic year 2008, Advanced Studies & Research Board was collaborated in three series of meetings; the board afforded 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.

FINANCIAL RESOURCES
Utmost efforts had been put in to enhance the financial resources of the University. The total budget of PMAS-UAAR for the year 2008-09 was escalated up to Rs. 333.456 millions in comparison to correspondence year’s budget amounting to Rs: 310.910 millions.

![Summary of Budget Estimates](image)
DEVELOPMENT PROJECTS

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 and Government of the Punjab 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.

<table>
<thead>
<tr>
<th>Development Projects (Completed)</th>
<th>Cost (million Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>➢ Construction of Hostel for Female Students</td>
<td>36.436</td>
</tr>
<tr>
<td>➢ Construction of Hostel for Visiting Faculty</td>
<td>24.438</td>
</tr>
<tr>
<td>➢ Strengthening of Department of Plant Breeding &amp; Genetics</td>
<td>31.783</td>
</tr>
<tr>
<td>➢ Strengthening of Centre for Information Technology</td>
<td>34.346</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>127.003</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Development Projects (On-Going)</th>
<th>Cost (million Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>➢ Establishment of Faculty of Veterinary &amp; Animal Sciences</td>
<td>468.620</td>
</tr>
<tr>
<td>➢ Strengthening of Department of Entomology</td>
<td>34.783</td>
</tr>
<tr>
<td>➢ Strengthening of Sport Facilities</td>
<td>38.885</td>
</tr>
<tr>
<td>➢ Establishment of University Institute of Biochemistry &amp; Biotechnology</td>
<td>358.61</td>
</tr>
<tr>
<td>➢ Development On Farm Students Research Facilities</td>
<td>343.224</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>1244.131</strong></td>
</tr>
</tbody>
</table>
Development Projects (Approved under Chancellors Block Allocation)

Cost (million Rs.)

- Strengthening of Faculty of Veterinary & Animal Sciences 19.772
- Strengthening of Department Plant Pathology 24.815
- Establishment of Crop Seed Research Production & Training Centre 22.769
- Up-gradation in Infrastructure of Sub Campus Khushab 42.279
- Provision of Common Facilities at PMAS-AAUR. 70.408
- Rehabilitation & Remodeling of Sewerage System & Electric Work 35.435

**TOTAL** 215.478

Development Projects (Submitted)

Cost (million Rs.)

- University Wide Wireless Networking & Upgrade Internet Facilities 36.562
- Establishment of Solar Energy Cell Rawalpindi 35.440
- Software License & HR Development 26.758
- Strengthening of Department of Wild Life Management 39.546
- Up-Gradation / Strengthening of Library Facilities at PMAS-AAU 39.000
- Strengthening of Department of Environment Sciences 38.933
- Establishment of Institute of Horticulture 235.990
- Establishment of Institute of Soil Science and SWC 256.000
- Hostel for Student Boys 38.086
- Strengthening of Department of Botany 36.800
- Strengthening of Department of Zoology 36.100
- Strengthening of Department of Food Technology 35.500
- Construction of 12 No Residential Flats (Grade 17& above) 38.033

**TOTAL** 892.748
UP-GRADATION OF INFRASTRUCTURE

There was acute shortage of space for Lecture Halls, Laboratories and Faculty Offices in the University. The University has carried out Infra-structural Developments from its own resources. The following infrastructure development accomplished during this year.

<table>
<thead>
<tr>
<th>S No</th>
<th>Name of Work</th>
<th>Amount Rs. In Million</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Academic Block</td>
<td>50.75</td>
</tr>
<tr>
<td>2.</td>
<td>Renovation of Academic Block (D) ground floor &amp; 1st floor (RMF)</td>
<td>2.51</td>
</tr>
<tr>
<td>3.</td>
<td>Establishment of Zoology &amp; Biology Labs Department</td>
<td>1.56</td>
</tr>
<tr>
<td>4.</td>
<td>Establishment of Post Graduate Labs Zoology &amp; Botany</td>
<td>2.10</td>
</tr>
<tr>
<td>5.</td>
<td>Renovation of Bathrooms A,B,C &amp; D old Academic Block</td>
<td>2.51</td>
</tr>
<tr>
<td>6.</td>
<td>Roof Treatment at Admin Block and Academic Block</td>
<td>0.98</td>
</tr>
<tr>
<td>7.</td>
<td>Renovation of Bathrooms at Auditorium, Women Division</td>
<td>0.48</td>
</tr>
<tr>
<td>8.</td>
<td>Construction of Road and Road Side Seating Strip</td>
<td>2.65</td>
</tr>
<tr>
<td>9.</td>
<td>Development of University Drainage System (In Progress)</td>
<td>1.97</td>
</tr>
<tr>
<td>10.</td>
<td>Construction of Glass House at Botany Department</td>
<td>1.51</td>
</tr>
<tr>
<td>11.</td>
<td>Construction of Shelter House at Botany Department</td>
<td>0.27</td>
</tr>
<tr>
<td>12.</td>
<td>Video Conferencing Hall in UIIT</td>
<td>0.17</td>
</tr>
<tr>
<td>13.</td>
<td>Rehabilitation of 2# Academic Block, Rest House, Residence and Construction of New Main Gate of Sub Campus Khushab</td>
<td>2.7</td>
</tr>
<tr>
<td>14.</td>
<td>Repair &amp; Maintenance Work at Jinnah Hall</td>
<td>0.74</td>
</tr>
<tr>
<td>15.</td>
<td>Repair &amp; Maintenance Work at Iqbal Hall</td>
<td>0.72</td>
</tr>
<tr>
<td>16.</td>
<td>Construction of Motor Cycle Shed &amp; Mess Shed at Iqbal Hall</td>
<td>0.56</td>
</tr>
<tr>
<td>17.</td>
<td>Repair &amp; Maintenance Work at Fatima Jinnah Hall</td>
<td>0.52</td>
</tr>
</tbody>
</table>
1. Caretaker Punjab Minister for Livestock & Dairy Development, Mr. Mumtaz Khan Manais visited the University. Addressing a meeting he said, quality education to inculcate practical knowledge among the student, which help to prepare them to lead the country.

2. Chairman ERA/NAVTEC Mr. Altaf Saleem visited the university on January 14, 2008 in connection with courses of CCNA & Auto Cad offered by the University in collaboration with NAVTEC.

3. A one day study tour of Ph.D, M.Sc (Hons) and B.Sc students arranged by the Department Entomology for Kallar Kahar and Choa Saidan Shah on January 26, 2008.

4. Caretaker Prime Minster of Islamic Republic of Pakistan Mr. Muhammad Main Soomro and Lt. Gen. (R) Khalid Maqbool HI (M) HI, Governor Punjab, Chancellor of the University visited the university in connection with Inauguration of New Academic Block, Lays Foundation Stone of Mega Projects and Micro Credit Cheques Distribution Ceremony on 14th February 2008.

5. Governor Punjab and Chancellor of the University Lt. Gen. ® Khalid Maqbool Khan and Prof. Dr. Atta-ur-Rehman, Chairman Higher Education Commission preside over the 9th Convocation of the university held on April 29, 2008 at main campus.

6. Lt. Gen. ® Khalid Maqbool Khan the Chancellor of the University inaugurated the Visiting Faculty Hostel and Girls Hostel on the occasion of 9th Convocation of the university.

7. Two foreign delegation comprising Dr. Fred Hayward, Higher Education Commission Consultant, Mr. Riaz Jaffar Director, Institute of Social Sciences Lahore and Dr. Mauro Centritto, Senior Scientist, Institute of Agro-Environmental and Forest Biology (IBAF) visited the university on May 08, 2008.
8. A eight days study tour of M.Phil / M.Sc students arranged by the Department Botany for Chashma Barrage, Koont Farm and Kallar Kahar on April 12, 18 and 19, 2008.

9. Prof. Dr. Khalid Mehmood Khan, Vice Chancellor PMAS-Arid Agriculture University Rawalpindi and Dr. Mazhar-ul-Haq Siddique, Vice Chancellor University of Jamshoro Sindh visited the Tunisia from 29th May to 1st June 2008 and attended the 6th session of Pakistan Tunisia Joint Ministerial Commission Meeting, to explore the possibilities of cooperation between the universities and center of excellence of Pakistan and Tunisia.

10. Department of Botany arranged study tour for M.Sc 4th semester students at Qarshi Industries (Pvt) Hattar on May 10, 2008. This tour was part of practical of the course (i.e.) Medicinal Plants of Pakistan.

11. Department of Zoology/Biology arranges study tours for the students of M.Phil/M.Sc at Shankiari NWFP on 14th & 25th May 2008. The aim of the tours was to provide the knowledge about the biodiversity of pheasant kept at “NWFP Peasantry” located at Hazara University.

12. Mr. Ather Abbas Director General Finance and Administration NAVTEC participated in the certificate awarding ceremony of the first batch of trainees of short courses funded by NAVTEC on June 14, 2008.

13. Prof. Dr. Khalid Mehmood Khan, Vice Chancellor visited Kazam (Tatarstan) on 25-28 to participate in the “16th Conference of Islamic World Academy of Sciences”. Prof. Dr. Khalid Mehmood Khan also attended Annual General Meeting of the Islamic Academy of Science (IAS) and AGM of Network of Academics of Sciences in Organization of Islamic Conference (NASIC).


15. A delegation of 15 students of PMAS-AAUR headed by Dr. Azhar Naeem, Director Students Affairs visited Sindh Agriculture University Tandojam, University of Sindh Jamshoro, Mehran Engineering University and University of Karachi under the Student Exchange Programme.
16. Dr. Shamim Akhtar, Assistant Professor Department of Zoology visited the Royal Veterinary College, University of London, UK from August 02-31, 2008 to prepare a collaborative research project awarded by HEC program “Pakistan Organization of Collaborative Research (POCR)”.

17. Prof. Dr. Tariq Mehmood, Chairman Department of Environmental Sciences visited Rome, Italy in connection with the project titled “Optimization of Water use by native plant in Arid Lands facing global change and Desertification”.

18. Prof. Dr. Muhammad Iqbal Lone, Director Research of the University participated in “International Scientific meeting on Water Resource” held at Near East University Turkish Republic of North Cyprus (TRNC) from October 09 to 12, 2008.

19. Prof. Dr. Khalid Mehmood Khan attended the International Dairy Conference on “Future Prospects of Dairy Production in Pakistan” at Faisalabad on November 03, 2008.

20. A study tour was arranged by Department of Plant Breeding & Genetics for B.Sc (Hons) students at Ayub Agriculture Research Institute (AARI) Faisalabad, National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad and Center of Excellence in Molecular Biology (EEMB) Lahore.

21. Dr. Azeem Khalid, Associate Professor Department of Environmental Sciences visited India to attend the study meeting on “Development and Utilization of bio-fertilizer for Promoting Sustainable Agriculture & Green Productivity” from November 05-11, 2008, organized by Asian Productivity Organization.

22. Dr. Audil Rashid, Assistant Professor Department of Environmental Sciences attended “International Eco Health Forum 2008” in Merida Mexico from December 01-05, 2008.

23. A study tour of 35 students of 5th and 7th semester of B.Sc (Hons) Forestry visited Wood Industry Kashmir Development Corporation (KDC) at
Jehlum for studying practical aspects of Forest Timber Science and Range Improvement & Rehabilitation courses.

24. **Prof. Dr. Khalid Mehmood Khan, Vice Chancellor** visited the UK to attend a professional developmental programme from November 17-27, 2008 under the project titled “Capacity Building of Executive of the Universities”.
Seminars and Workshops are regular feature of universities where experts from various fields are invited to share their experience with faculty, students & researchers on current issues of international and national levels. Such an activity is important for research and academic development of an institution as it provides guidelines for policy development at national level. During 2008 sixteen International / National Conferences/Seminars / Workshops were held at PMAS-AAUR or attended by Faculty, apart from departmental seminars. A brief detail of each is given below.

1. A seminar arranged by the Department of Forestry & Range Management on “Climate Change and its Mitigation” held on January 24, 2008.


3. A four days International workshop on “Protected Horticulture” was held at University in collaboration with Pakistan Science Foundation (PSF) on February 27 to March 01, 2008.

4. A one day seminar organized by National Productivity Organization (NPO) in collaboration with the Faculty of Forestry, Range Management & Wildlife on “Energy Efficiency” held on March 13, 2008.

5. Dr. Nemat Ullah, Dean Faculty of Veterinary & Animal Sciences participated in the “6th annual Scientific Conference” at University of Veterinary and Animals Sciences, Chittagong, Bangladesh from March 04-06, 2008.

6. Directorate of Quality Enhancement Cell organized a Seminar on “Significance of Self assessment in 21st Century Universities” which was held on March 20, 2008. The Chief Speaker, Dr. Farah Qadir from the King’s College London, UK delivered a comprehensive lecture on the importance of self assessment.

7. A five days international workshop was organized by the Department of Biochemistry on “Molecular Techniques in Biological Research” was held at PMAS-Arid Agriculture University from May 06-10, 2008.
8. Prof. Dr. Khalid Mehmood Khan, Vice Chancellor, AAUR attended the three days International Conference on “Resource Generation and Diversification in Higher Education: from Vision to Reality” from May 12-14, 2008. The workshop was organized by the Higher Education Commission in Collaboration with World Bank.

9. A Seminar on “Impact of Climate Change on Agro-Environment of Pakistan” at university. The seminar was organized by Department of Environmental Sciences to mark the Environment day.

10. A two day conference Chaired by the Prof. Dr. Khalid Mehmood Khan, S.I., Vice Chancellor of PMAS-AAUR on “Health Biotechnology” held on May 27-28, 2008 at Pakistan Academy of Sciences, Islamabad.

11. A seminar organized by Department of Horticulture on “Precession Agriculture Technologies to Increase Farm Profitability and Reduce Environmental Risks” at university seminar room on May 23, 2008.

12. The Department of Environmental Sciences PMAS- Arid Agriculture University joined the “Monsoon Asian Agro-Environmental Research Consortium (MARCO)” for collaborative Research in the areas of agro-environmental sciences.

13. A one day workshop organized by University Institute of Management Sciences on “Integrating Agribusiness Curriculum and Practice” on July 23, 2008 at university seminar room.

14. A seminar organized by the Department of Agronomy to commemorate “World Food Day” on October 16th, 2008 at university main campus.

15. A five days International Training Course organized by the Department of Environmental Sciences on “Plant Ecophysiology in a Global Change Environment” from November 17-21, 2008.

16. A four days 9th conference organized by Department of Biochemistry on “Advances in Biochemistry and Molecular Biology” held on December 17-20, 2008.
STUDENTS EXTRA CURRICULAR ACTIVITIES

Student Societies & Clubs
The following societies and clubs are remained functional during 2008 at PMAS-AAUR to provide initiatives for brilliant students and to develop debating, dramatic and creative skills in the future lives.

- Literary Society
- Software Club
- Anti-Narcotics & Environmental Club
- Dramatic Club
- Debating Society
- Art Club

These societies and clubs are in functional mode under the able guidance of Director Student Affairs. Various programmes/activities have been conducted and students are showing enthusiasm in participation as extra co-curricular activities.

Spring Festival
The Directorate of Students Affairs arranged a well managed and fascinating Spring Festival. Such festivities groom and sharpen the practical skills and talent of the students. Food stalls and other stalls were inaugurated in morning which continued till evening and afterwards there was a Mushaira (poetry contest) and skits from the students.

Debates & Declamation
The students participated in Provincial and National Students Convention 2008 and received prizes. Students also took part in the debating competition in All Pakistan inter-university debate competition was held at PMAS-AAUR on October 30, 2008 for the award of Allama Iqbal Shield 2008.
Naat & Qiraat Competition

A Naat Competition was held on March 20m 2008 at the university Auditorium in Connection with Eid Milad-Un-Nabi (PBUH) under the Directorate of Students Affairs.

A Qiraat and Naat competition was organized by the Director Students Affairs on October 23, 2008 at university auditorium.

Book Fair at PMAS-AAUR

A three days Books fair was exhibited by the University Library from (March 11-13, 2008). About thirty thousand books relating to Agriculture, natural and basic Sciences, management, information technology, social sciences and other topics of public interest were exhibited.

Women Week at FJWU

Students of University participated in Women Week, which was observed from March 13-15 2008 at Fatima Jinnah University Rawalpindi. Students participated in Qiraat, Naat, Bilingual declamation, Drama, Singing & Painting, Flower arrangement, Mushaira, Quiz and Soft water competition.

Drama Festival.

All Punjab Universities Drama competitions were held from March 01-05 2008 at Al Hamara Hall Lahore. A team of 14 students (FCFS) perform a play “SIHARA”.

Students Training course.

Ms. Jawaria Abid student of M.Phil, Department of Environmental Sciences participated in regional training course on “Establishment of Transfer Factor & dose Assessment for Marine Organisms from Contaminants released form
Nuclear activities” from February 18-19 2008 at Radiological Science Research Institute Cheju National University Jeju, Korea.

**Student Week**

Directorate of Students Affairs organized a Students Week from April 07-12, 2008 with the objectives to create awareness and provide chance of healthy and literary activities to the students

**Exhibitions**

A one day field crop Physiology was organized by the Department of Agronomy under the Supervision of Mr. Mukhtar Ahmad, Lecturer on June 21, 2008

**Grow More Wheat Campaign**

150 students of Agriculture Faculty of PMAS-AAUR participated in the “Grow More Wheat Campaign” for 15 days on the Directives of Punjab Chief Minister Mian Shahbaz Sharif Directive.

**Inter University Debate Held at PMAS-AAUR**

All Pakistan inter-university debate competition was held at PMAS-AAUR on October 30, 2008 for the award of Allama Iqbal Shield 2008.

**Urdu Debate and Essay Writing Competition.**

Director Students Affairs Organized a Urdu Debate and Essay Writing Competition on November 13, 2008.

**Poster Competition**

Various competitions among the university students were held throughout the year. Moreover, the students of different faculties also performed at different occasions.
SPORTS ACTIVITIES

The Directorate of Sports conducted trials for PMAS-AAUR teams and arranged coaching classes respectively. The following sports events were undertaken by the university teams during the year 2008.

1. Participated in **Table Tennis (Boys)** Championship at LUMS, from December 13-16, 2007.
2. Participated in **Badminton (Boys)** Championship at NUST Rawalpindi from January 25-27, 2008.
4. Participated in **Athletics (Boys)** competition at Punjab University Lahore from February 27-30, 2008.
5. Participated in **Football (Boys)** Championship at Islamic International University Islamabad from February 20-24, 2008.
8. Participated in **Volley Ball (Boys)** at Islamic International University Islamabad from April 19-20, 2008.
10. Participated in **Hiking (Boys/Girls)** Inter Department Competitions at Margalla Hills Islamabad on April 07, 2008.
11. **Inter Department Sports Competitions 2008 (Boys/Girls)** during the Students Week at PMAS-AAUR was organized by the Directorate of Sports in April 2008.
UNIVERSITY PUBLICATIONS

Pakistan Journal of Arid Agriculture

In order to infuse a culture of publications among the faculty and research students the charges for publication in the journal were revised. Any student who intends to publish will be charged at subsidized rate, while faculty members can publish one paper free of cost per journal as first author of the journal. The journal is circulated to about 80 different organizations in the country and 10 international organizations without price.

PMAS-AAUR-News

In order to have a close contact with community and activities at university “PMAS-AAUR NEWS” is published on monthly basis. This is widely circulated among students, faculty and to all sister organizations.

Naveed-E-Baran

This magazine is an annual publication which carries creative contribution from students and is managed by an Editorial Board mainly comprised of students.

STUDENT DISSERTATIONS

Ninety Four (94) theses were delivered during 2008 by post-graduate students of the university out of which 11 theses were received on account of PhD degrees.

FACUTLY PUBLICATIONS

The University Faculty published 182 research papers in 2008 in the National & International journals (List is placed at appendix-I).
FACULTY PUBLICATIONS 2008


genotypes among Pakistani dyspeptic patients. FEMS Microbial & Immunol Let (In Press)


15. Ahmad, R., M. Naveed, M. Aslam. Z.A. Zahir. M. Arshad and **G. Jilani. 2008. Economizing the use of nitrogen fertilizer in wheat production through enriched compost. Renewable Agriculture and Food Systems. Accepted for publication (IF= 0.564).**


35. Ali H. Sayyed, Munir Ahmad and Neil Crickmore 2008. Fitness limit the development resistance to indoxacarb and deltamethrin in Heliothis virescens


100. Khan, M. Z., M.E. Akhtar, M. Yousaf and Ahmad. 2008. Relationship between soil extractable K and wheat crop in rainfed soils of Potohar plateau of Pakistan,


109. **M. Gulfraz**, S. Mehmood, A. Ahmad' N. Fatima, Z. Parveen and E. M.


165. Shahzad MI, KN. Khawaja, M. Mukhtar, A. Khanum. 2008 Passive immunization against highly pathogenic avian Influenza Virus (AIV) strain H7N3 with antiserum generated from viral polypeptides protect poultry birds from lethal viral infection. Virology J (In Press)


