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ARID AGRICULTURE UNIVERSITY RAWALPINDI

DEPARTMENT OF PLANT PATHOLOGY



SELF-ASSESSMENT REPORT (3RD CYCLE)

(M.Sc. Hons. Agri. Level)

October 2010-July 2012

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	Contents	Page
Criterion 1:	Program mission, objectives and outcomes	2
Criterion 2:	Curriculum Design and organization	48
Criterion 3:	Laboratories and computing faculties	50
Criterion 4:	Student Support and Advising	
Criterion 5:	Process Control	55
Criterion 6:	Faculty	57
Criterion 7:	Institutional Facilities	60
Criterion 8:	Institutional Support	61
	Summary and conclusions	62

List of Tables

Table 1	Program objectives and their assessment	3
Table 2	Program outcomes and their relationship with objectives	4
Table 3	Quantitative assessment of department	6
Table 4	Present performance measures for research activities	6
Table 5	Faculties Distribution by Program Areas in plant pathology	58
Table 6	Result of faculty survey	60

List of Figures

Fig. 1	Bar graph showing the progress of teacher 1	8
Fig. 2	Bar graph showing the progress of teacher 2	9
Fig. 3	Bar graph showing the progress of teacher 3	10
Fig. 4	Bar graph showing the progress of teacher 4	10
Fig. 5	Bar graph showing the progress of teacher 5	11
Fig. 6	Bar graph showing the progress of teacher 6	12
Fig. 7	Bar graph showing the progress of teacher 7	13
Fig. 8	Bar graph showing the evaluation of course taught by teacher 1	14
Fig. 9	Bar graph showing the evaluation of course taught by teacher 2	14
Fig. 10	Bar graph showing the evaluation of course taught by teacher 3	16
Fig. 11	Bar graph showing the evaluation of course taught by teacher 4	17
Fig. 12	Bar graph showing the evaluation of course taught by teacher 5	18
Fig. 13	Bar graph showing the evaluation of course taught by teacher 6	19
Fig. 14	Bar graph showing the evaluation of course taught by teacher 7	20
Fig. 15	Knowledge gained in degree by alumni	21
Fig. 16	Communication skills learnt from the programme	21
Fig. 17	Interpersonal skill improved by the programme	22
Fig. 18	Management /leadership skills levels of graduate as per information given by employers	22
Fig. 19	Results of Survey of Graduating Students	24
Fig. 20	various skill levels of the graduates as per information given by employers	25
Fig. 21	Results of feed back given by research students	48

INTRODUCTION

As regards master level program initiation, the department is one of the pioneer departments in the Faculty of Crop and Food Sciences and in the university as well. In the department, M.Sc. Hons. was initiated in 1996. The department had run the B.Sc. (Hons) program successfully since 1986 before launching this program. The department has so far awarded M.Sc. (Hons.) degree to 111 students.

This Self Assessment Report (SAR) presents the progress of Department at post-graduate (including Ph.D.) level, for the academic years 2010-12. Surveys were conducted at the end of each semester i.e., Fall semester (2010-11), Spring (2011), Fall semester (2011-12) and Spring (2012). This Self Assessment Report (SAR) is based on eight criteria laid down by Higher Education Commission, Pakistan. The first criterion provides the program mission and objectives followed by criterion 2 that gives an insight in to the curriculum development. Criterion 3 catalogues the laboratories and other relevant information about the computers availability and internet etc,. The information about students' support and advising is mentioned in the fourth criterion whereas the next two criteria give the information about process control and faculty characteristics. Institutional facilities and support are seventh and eighth criteria respectively used for the development of this self assessment report. On the basis of all observations, feedback from the stakeholders, shortcomings and facilities have been pointed out. A summary is presented at the end of the report.

Criterion 1: PROGRAM MISSION, OBJECTIVES AND OUTCOMES

Standard 1-1: Mission statement

For the excellence, provision of high quality teaching and research in the discipline of Plant Pathology is the program mission for producing high quality post-graduate students. Academic as well as applied education to Masters level students and imparting professional training through use of modern techniques for plant pathology and related innovative research methodologies is the requirement for the mission.

Program Objectives

1. To motivate and guide the postgraduate students to achieve professional excellence
2. To inculcate the research thrust among students, to enable them to plan and execute their research projects independently.
3. To strengthen the discipline with amalgam of advanced knowledge and approaches of related Subjects.
4. To elevate the department at a level to excel in higher education

• Main Elements of strategic plan to achieve program mission and objectives

1. Use of the experience and vision gathered from international reviews, literature, symposia etc. for the development of a quality teaching system.
2. Design and improvement of curricula by the introduction of core and elective subjects in specialized areas and study trips.
3. Supervision of post graduate research students with thesis write-up.
4. Publication of research papers in reputed National and International Journals preferably with impact factor.

Program Outcomes

1. The department has already produced 111 M.Sc. Hons. since initiation of post graduate program.
2. The research facilities developed at different laboratories and green houses have helped students carry out their research activities more efficiently and target oriented.
3. The students have been trained to conduct research projects in almost all sub-disciplines using classical and molecular approaches pertaining to various aspects of plant pathology.

PROGRAM OBJECTIVES ASSESSMENT

Table- 1: Program Objectives Measurement

S. #	Objective	How Measured	When Measured	Improvement Identified	Improvement made
1	To motivate and guide the graduate students of the department for their professional excellence.	On the basis of students feed back	At the time of students evaluation	Some laboratory facilities needed improvement	Establishment of labs with latest equipments
2	To inculcate the research interest in the students so that they can plan and execute their research plans independently.	Through students surveys and research planning experiences	At the start of students admission	Related subjects to be studied	Enhancement of knowledge and vision
3	To strengthen the discipline with amalgam of advanced knowledge and approaches of related subjects	On the basis of feedback of post graduate students, through attending conferences/symposia	As and when required but through HEC laid down procedures	Laboratories need equipment for molecular research approaches	Some subjects were incorporated
4	To elevate the department at a level to excel in higher education	No. of post graduate students produced ; no. of research project completed and no. of research papers published	Continuously during the academic year	Practical aspect of the courses need to be strengthened	More than 200 research papers published in reputed journals ; six research projects were completed.

Standard 1-2: the program must have documented outcomes for graduating students .it must be documented that the outcomes support the program objectives and that graduating students are capable of performing these out comes

Table 2 : Program Outcomes and their relationship with objectives

		Out comes		
Objectives		1	2	3
	1	+++	++	++
	2	++	++	++
	3	+++	+++	+++
	4	++	++	++

+ = moderately satisfactory ++ = Satisfactory +++ = High satisfactory

Standard 1-3: Results of program assessment and extent to which they are used to improve the program must be documented.

Results have been explained column 4 of the table 1 and 2.

Actions Taken Based on Results of Periodic Assessment

Some actions are underway to improve the deficiencies identified as assessment has been made for the third time in the department but it needs a proper implementation plan.

Major Future Program Improvement Plans

- More emphasis will be given to problem oriented research initiatives with special focus on field crop problems of rain-fed areas.
- Augmentation of laboratory and field facilities for all aspects of plant pathology (green houses for in vitro for controlled environment studies) and students experiments.

Strength of the Program

Highly qualified academic staff with vast field knowledge of local agriculture production system is serving. Some of the faculty members have foreign degrees with Post-Doc Fellowships and are experts in their fields. Faculty has rich experience of carrying out research projects at national level and are capable of handling the problems faced by the post-graduate students.

Weakness identified in the Program

- There is a need for regular short term local/foreign training to faculty members.
- There should be more emphasis on Practical work using molecular approaches
- Non- availability of continuous power supply in the labs of department.
- Non-availability regarding housing facility for teaching and allied staff at campus.

Standard 1-4: Quantitative Assessment of the Department (Last three years)

Table-3

Sr. #	Particular	Number	Remarks
I	MSc. (Hons.)	40	In service/seeking for the job
li	Post-Doc fellowship (faculty)	-	Needed
lii	Students: Faculty ratio	10:1	Fulfil HEC criteria
lv	Average grade point	3	Fulfil HEC criteria
V	Average Time Taken for Post graduate	2 Years	Fulfil HEC criteria

Present performance measures for research activities

Table -4 Present performance measures for research activities

Faculty	Journal, Publications (National and International)	Conference Publications (Proceedings Abstract)	Projects
Prof. Dr. Irfan Ul-Haque	5	2	2
Prof. Dr. Abdul Rauf	4	2	1
Dr Tariq Mukhtar	5	-	1
Mrs Gulshan Irshad	3	1	-
Dr. Muhammad Ashfaq	4	1	2
Dr. M. Inam-ul-Haq	5	-	2
Dr. Farah Naz	4	-	1
Dr Abid Riaz	4	-	1

Community Services By the Department

- Guidance of students from the other departments with respect to their research projects.
- Advisory services to the farmers regarding crop related issues during surveys/class tours/farmer's visit to department.

Faculty Satisfaction Regarding the Administrative Services

- The department maintains a ratio of 3:1 for the academic (technical) and administrative non-technical staff. This ratio fulfils the standard set by HEC.
- Administrative meetings (at departmental, faculty & university academic council) are periodically held.
- Proper records of each individual, student's synopsis, thesis etc. are maintained.

Program outcomes	Objectives: Plant pathology, Development, Teaching and Research		
	Nos.	Criterion	Characteristics
MSc.(Hons.)Agri.	15-20 students / year	Advanced research, thesis to be evaluated by one inland scientists/ experts and after viva voce exam.	Solution-oriented research problems involving advanced techniques and new findings

The program outcomes fully support program objectives mentioned above. Outcomes are based on actual details obtained from departmental records.

Program Assessment Results

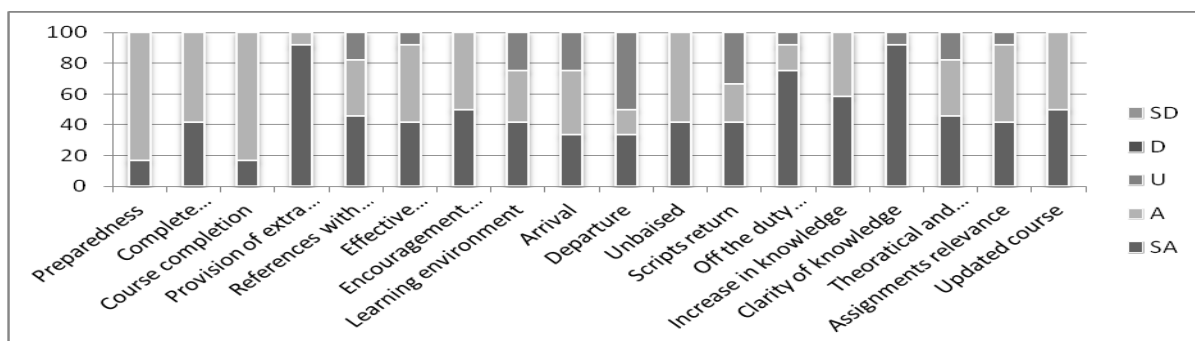
Teacher's Evaluation

Assessment was conducted twice during each academic year of 2010-2011 and 2011-2012 at the end of each semesters i-e fall semesters 2010- 2011 and 2011- 2012 and spring semesters 2011 and 2012. There were seven teachers that included Prof. Dr. Abdul Rauf, Dr. M. Inam-ul-Haq, Dr Tariq Mukhtar, Dr Abid Riaz, Dr. Muhammad Ashfaq and Dr. Farah Naz, and Professor Dr. Irfanul HAque in the department at the time of assessment that are numbered 1-7 in the teacher's evaluation in following pages. Students evaluate the teachers at the end of each semester in accordance with Proforma-10. According to the results the performance of teachers was satisfactory. It is obvious from the graph that Teacher 7 topped with the score of 81.41 % followed by teacher 4 and 6, respectively, while teacher 5 is on the bottom securing 73.5% score for fall semester.

Bar diagrams showing evaluation of teachers in detail

Teacher 1

The students were satisfied with the teacher. 80% of the students believed that the teacher taught his subject which increased their knowledge while remained were uncertain. About Twenty percent of the students, however, did not agree that the teacher completed the course.



SA= Strongly Agree; A= Agree; UC = Uncertain; D = Disagree; SD = Strongly Disagree

Fig. 1 Bar graph showing the progress of teacher 1

General Comments of the Students about this Teacher:

Weakness:

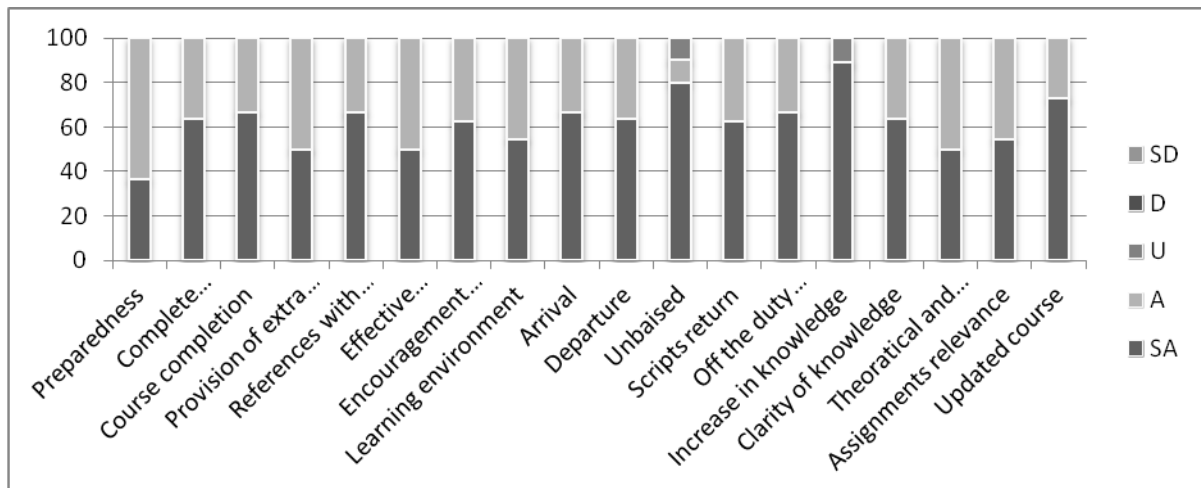
- Teacher should complete his course on time

Strengths:

- Teacher's methodology was good
- Teacher was fair in examination.

Teacher 2

According to the assessment results, about 80% students revealed that the teacher increased their knowledge rests were either uncertain or disagreed. More than 55% students showed that teacher demonstrated the subject matter perfectly. 70% showed that the teacher followed the timings of classes.



SA= Strongly Agree; A= Agree; UC = Uncertain; D = Disagree; SD = Strongly Disagree

Fig. 2 Bar graph showing the progress of teacher 2

Teacher: 3

From all respondents 50 %agreed with the statements that the teacher was prepared course was well organized, understanding of lectures and pace of course was appropriate. About 40% were uncertain about the learning and teaching method encouraged participation.

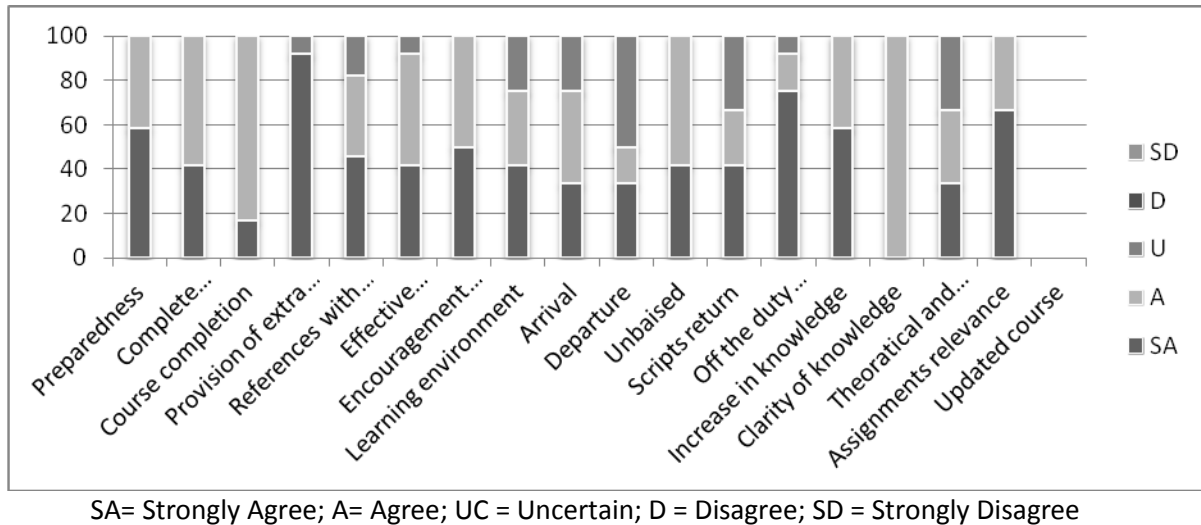


Fig. 3 Bar graph showing the progress of teacher 3

Teacher 4

The following graphs have shown that performance of the teacher rated by the students is good. 70% students showed that the instructor was prepared and demonstrated the knowledge, respectively. Yet, the communication needs to be more effective because the 35% students disagreed about the communication question. The teacher was also fair in the examination.

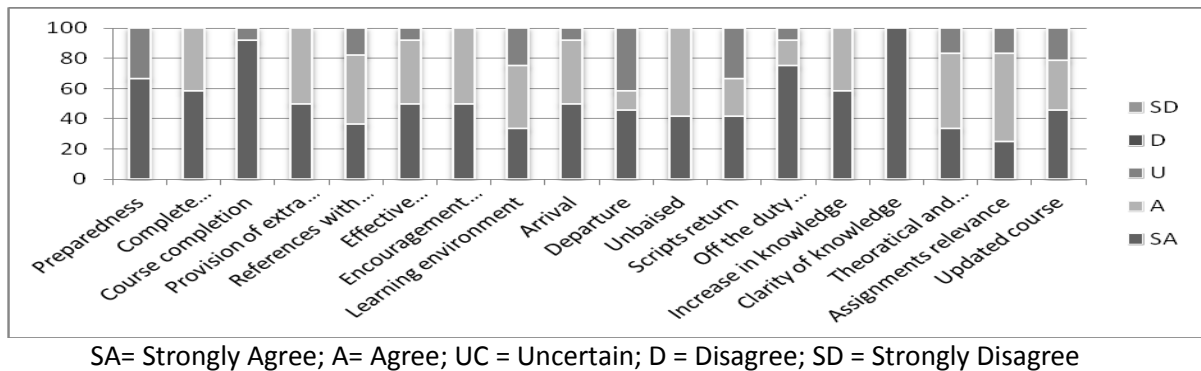


Fig. 4 Bar graph showing the progress of teacher 4

Teacher: 5

Analyses of the Performa revealed good performance of the teacher on overall basis. Generally all the indicators are categorized in strongly agreed, agreed or uncertain.

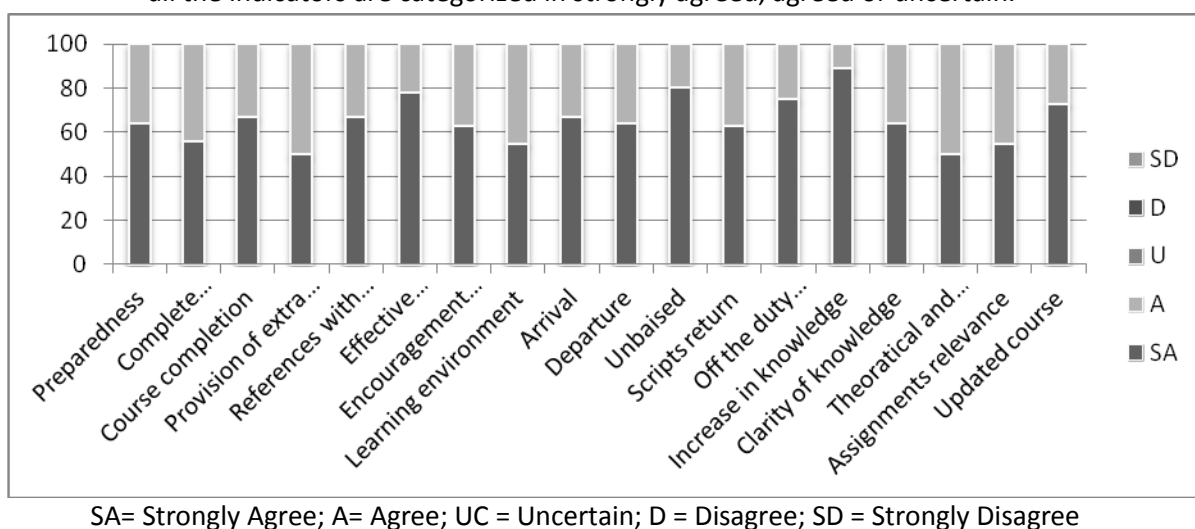


Fig. 5 Bar graph showing the progress of teacher 5

General comments about the teacher

Teachers Evaluation (Proforma 10)

Weaknesses:

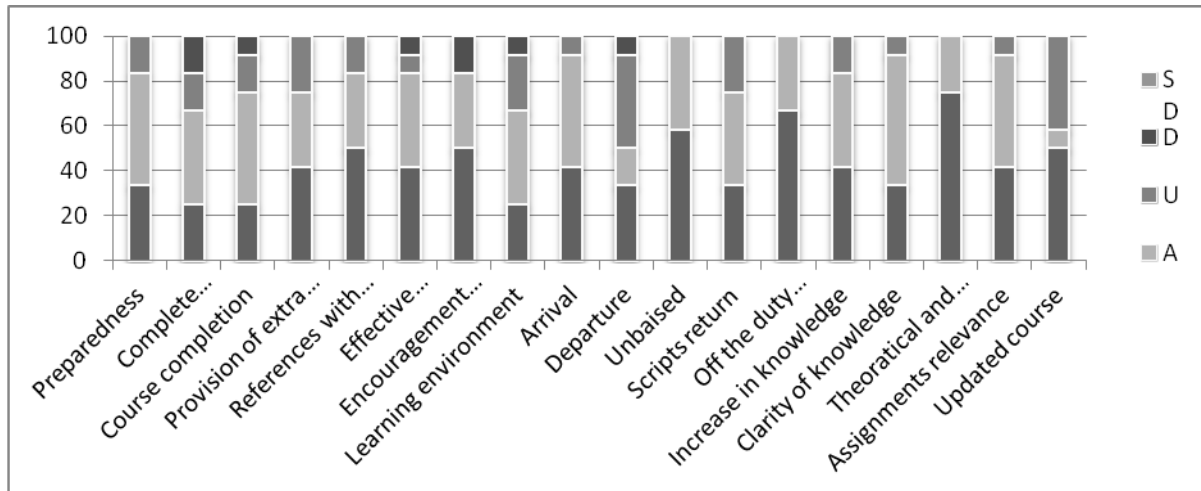
- Teacher should arrange field visits and study tours to learn more practically.

Strengths:

- Teacher encouraged class participation.
- Lectures were informative and full of knowledge.
- Teacher had good command on his subject.

Teacher: 6

The survey results exhibited the teacher was prepared for the class perfectly. Whereas, demonstration can be further strengthened, more than 70% of the students were happy about the examination numbering. Further things are depicted in Fig.



SA= Strongly Agree; A= Agree; UC = Uncertain; D = Disagree; SD = Strongly Disagree

Fig. 6 Bar graph showing the progress of teacher 6

General Comment of Students about this Teacher

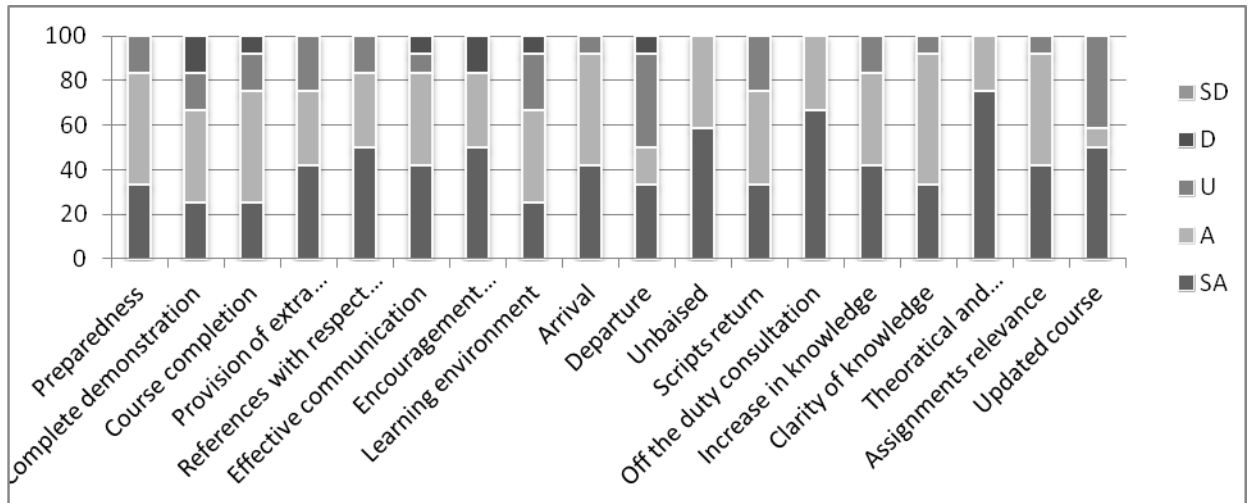
Teachers Evaluation (Proforma 10)

Strengths:

- Teacher was cooperative.
- Teacher was nice and humble.

Teacher- 7

Similarly, 81.9% students agreed that the course was completed in due time and the rest remained uncertain. Likewise they were also agreed that the teacher provides additional material apart from the text and the teacher used to give them citation regarding current situations with reference to Pakistani context.



SA= Strongly Agree; A= Agree; UC = Uncertain; D = Disagree; SD = Strongly Disagree

Fig. 7 Bar graph showing the progress of teacher 7

Teachers Evaluation (Proforma 10)

Weaknesses:

- Teacher should provide notes on time.

Strengths:

- Teacher completed the course within time.
- Teacher was nice.

STUDENT COURSE EVALUATION:

One course of each of the seven teachers who taught at post graduate level in the academic year-2010-11 was also evaluated by the students enrolled in that course. The course was examined as per proforma 1.(Annexure-1).Detailed evaluation of individual course is given in bar charts shown in following.

PP 701 Teacher 1

All the students were positive about the course objectives as well as length of the course. Same was with the organization of the course. Interestingly, all the students were satisfactory about the conditions of the class rooms. Similarly, lecture delivery as well as assessment in examination was reported by 100% satisfactory. Moreover, practical experiments were organized in conducive environment leading to satisfactory results.

Weaknesses:

- Teacher should be on time
- Tutorial time should be adequate

Strengths:Course was well organized.

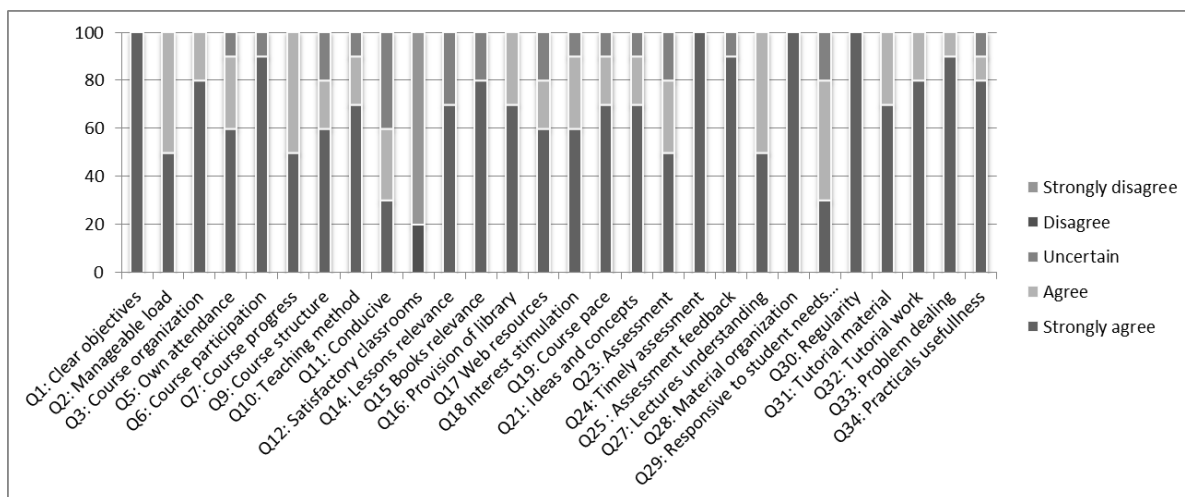


Fig. 8 Bar graph showing the evaluation of course taught by teacher 1

PP-707 Teacher: 2

Course load was manageable. 70% students liked the teaching methodology. On the other hand, 90% course load was manageable. But the instructor has to be regular in the class as some students were uncertain about the teacher regularity.

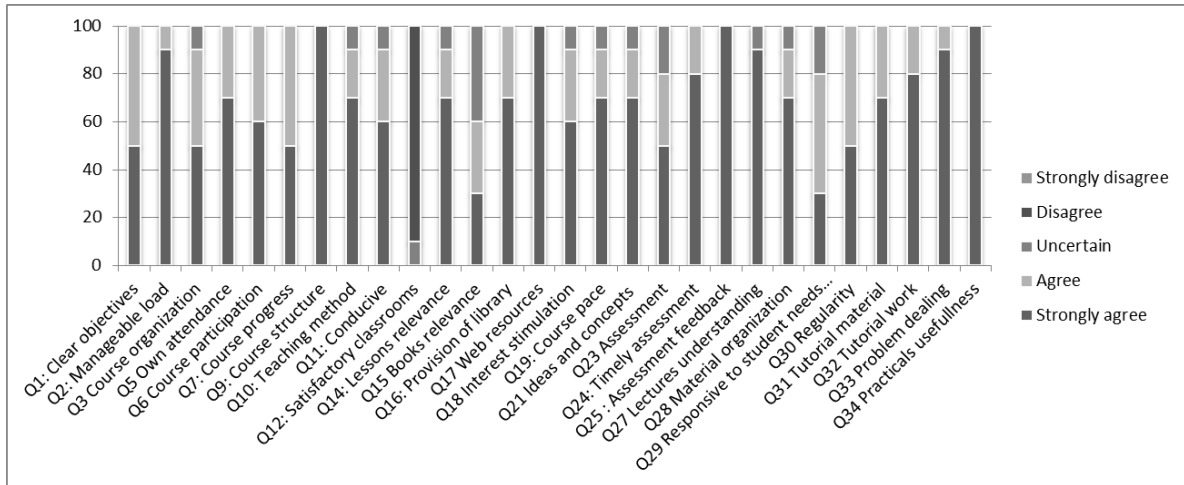
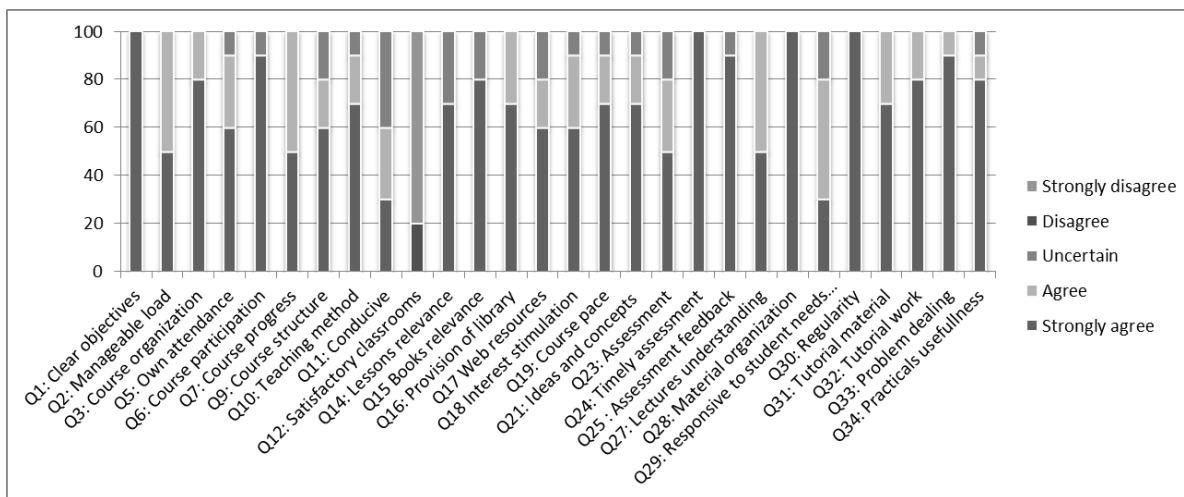


Fig. 9 Bar graph showing the evaluation of course taught by teacher 2

PP-714 Teacher 3

Every student agreed that course objectives were clear, course load was manageable and the course was well organized, yet students have to be present all the time. Similarly, the ideas and concepts were presented in an ideal environment and the method of assessment was impartial.

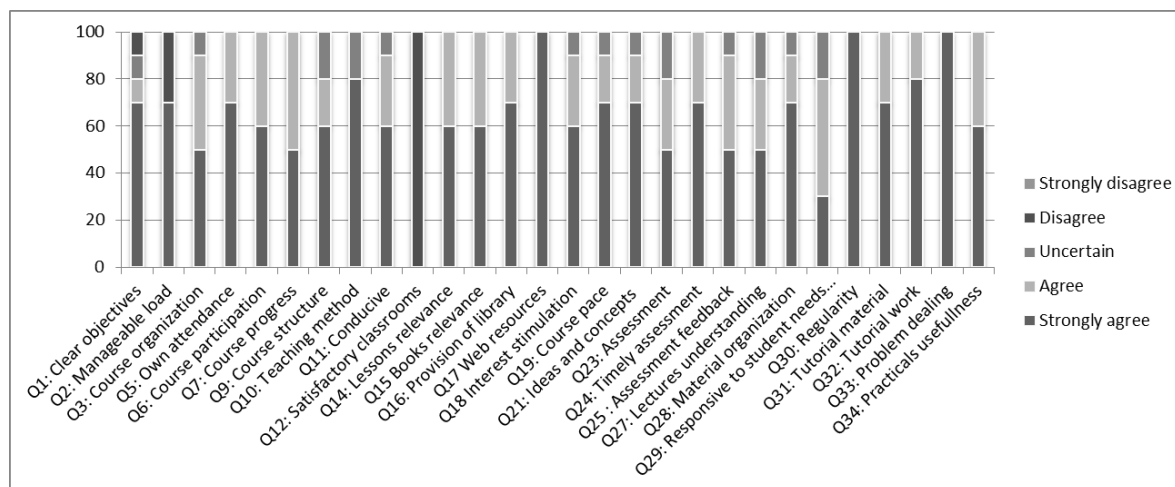


SA= Strongly Agree; A= Agree; UC = Uncertain; D = Disagree; SD = Strongly Disagree

Fig. 10 Bar graph showing the evaluation of course taught by teacher 3

PP-712 Teacher 4

According to the assessment, 90% of the students agreed that course objectives were clear whereas the rest remained uncertain. Same was the case with course load. 20% students showed their uncertainty about the pace of this course. Similarly, 50% of the students were uncertain about the understanding of lectures.

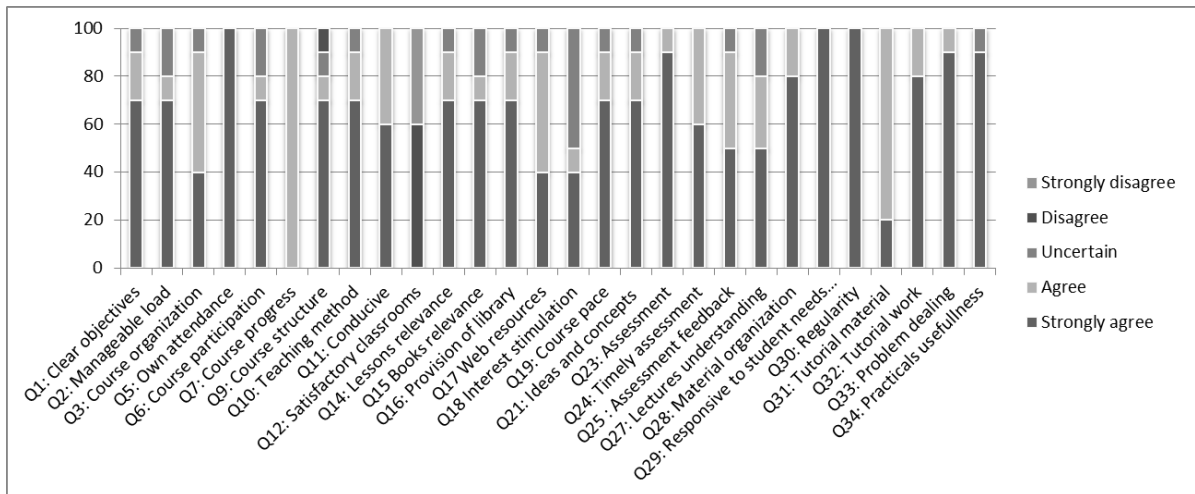


SA= Strongly Agree; A= Agree; UC = Uncertain; D = Disagree; SD = Strongly Disagree

Fig. 11 Bar graph showing the evaluation of course taught by teacher 4

PP-703 Teacher 5

It is evident from the fig that most of the students strongly agreed with the statement that course objectives were clear, course work was manageable, learning and teaching method encouraged participation and the course was well organized. Participation of the students was also adequate. 80% of the students were present throughout the lectures. However, the relevant books and helping material needs to be provided in future.

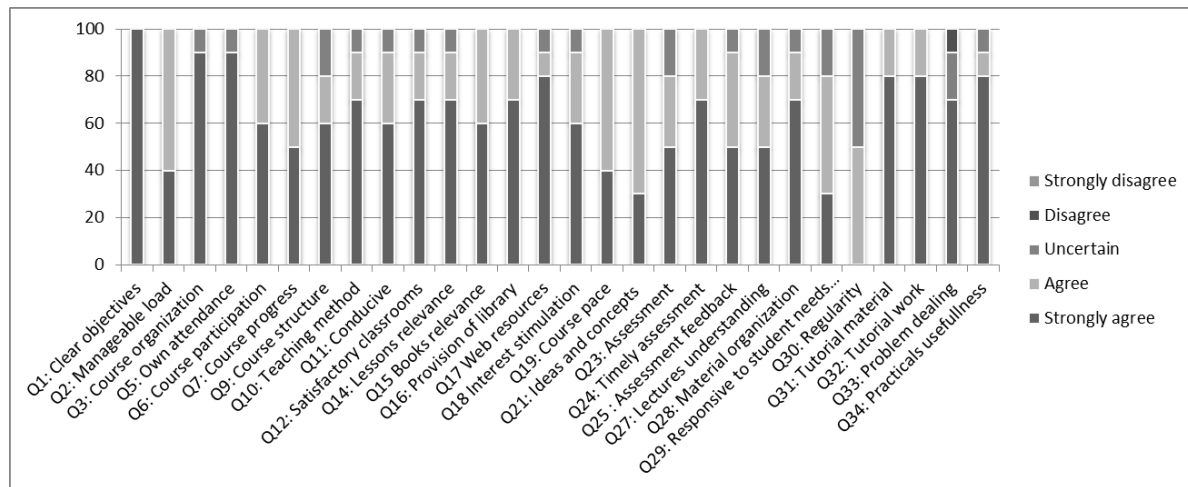


SA= Strongly Agree; A= Agree; UC = Uncertain; D = Disagree; SD = Strongly Disagree

Fig. 12 Bar graph showing the evaluation of course taught by teacher 5

PP-706 Teacher 6

According to assessment, 100% students were agreed and strongly agreed from the inquired statements, such as the clarity of the course objectives, course load was manageable and they understand lectures fully and feedback was given properly for the assessments. A few students expressed their view as uncertain. Details for the rest of the queries are given below in fig.



SA= Strongly Agree; A= Agree; UC = Uncertain; D = Disagree; SD = Strongly Disagree

Fig. 13 Bar graph showing the evaluation of course taught by teacher 6

PP-716 Teacher 7

70% students liked the teaching methodology. On the other hand, 90% course load was manageable. But the instructor has to be regular in the class as some students were uncertain about the teacher regularity.

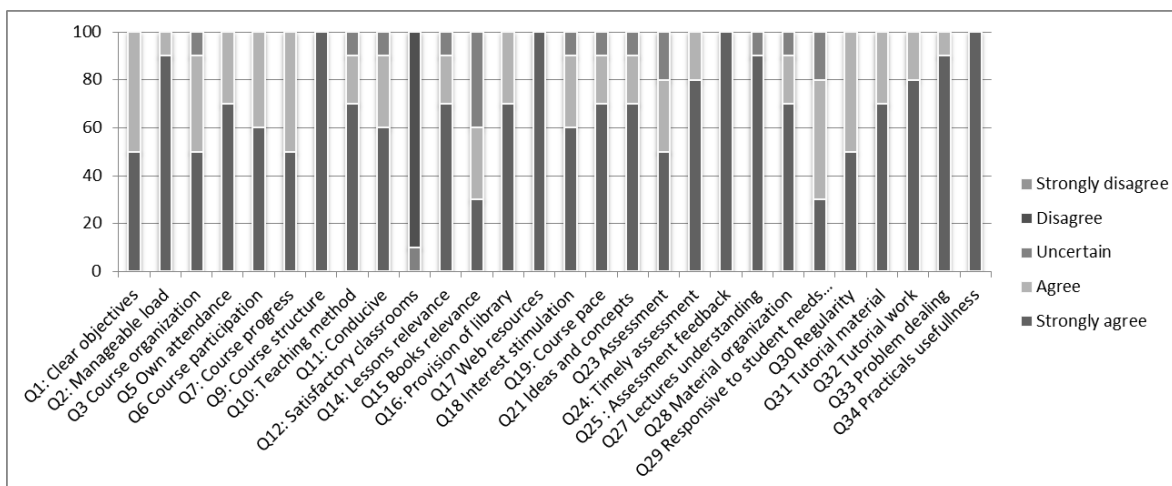


Fig. 14 Bar graph showing the evaluation of course taught by teacher 7

Alumni Survey

The individual results of alumni survey regarding knowledge, communication, interpersonal skills and management/leadership skills provided were up to the level. It is evident from the graphs of knowledge that majority of the alumni agreed or strongly agreed with problem solving, collecting and analyzing the data and knowledge of science, arts, humanities and professionalism. Improvement is needed, however, in ability to think and link theory with practice. The results of individual parameters are given in the following Fig.2-5.

Graphs also suggest that they are really good in oral and presentation skills but there is room for betterment in report writing.

Similarly, interpersonal abilities were also good. Data indicate that improvement needs to be made in preparing graduates to deal with challenging and arduous situations.

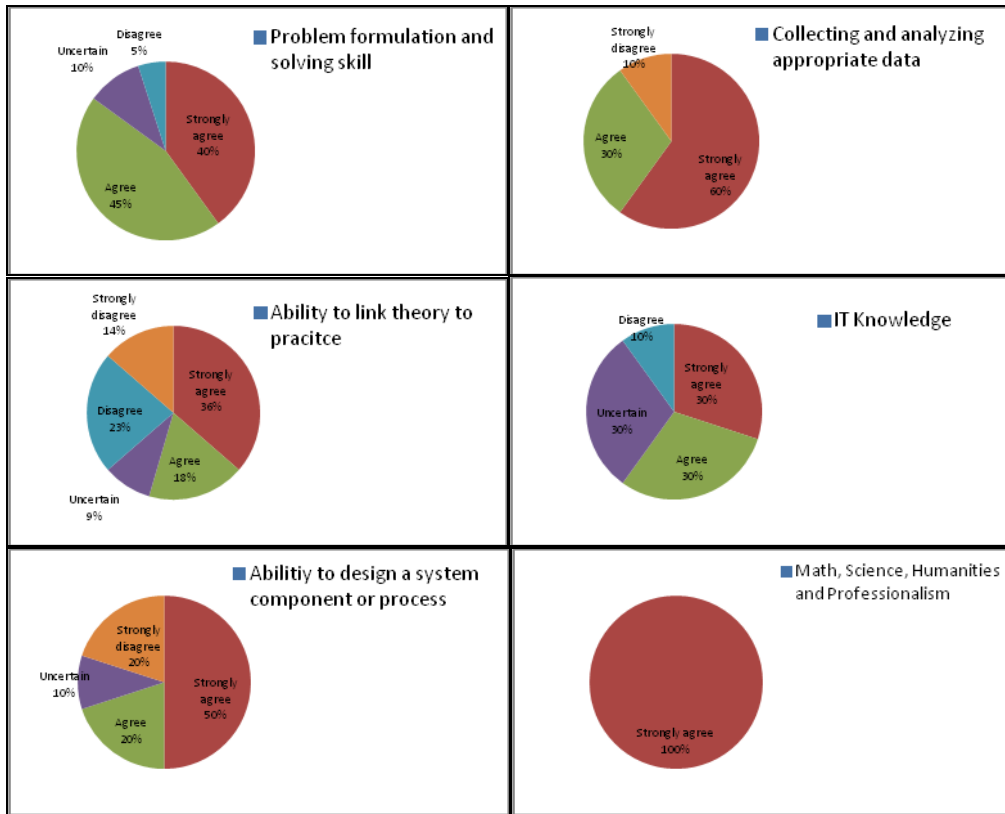


Fig.15 Knowledge gained in the degree by alumni

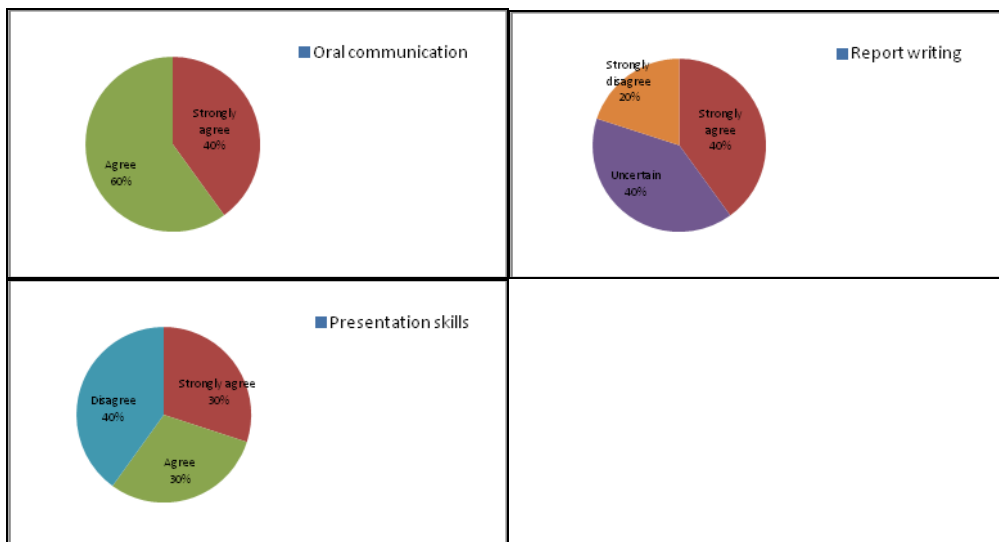


Fig. 16 Communication Skills learnt for the programme by alumni

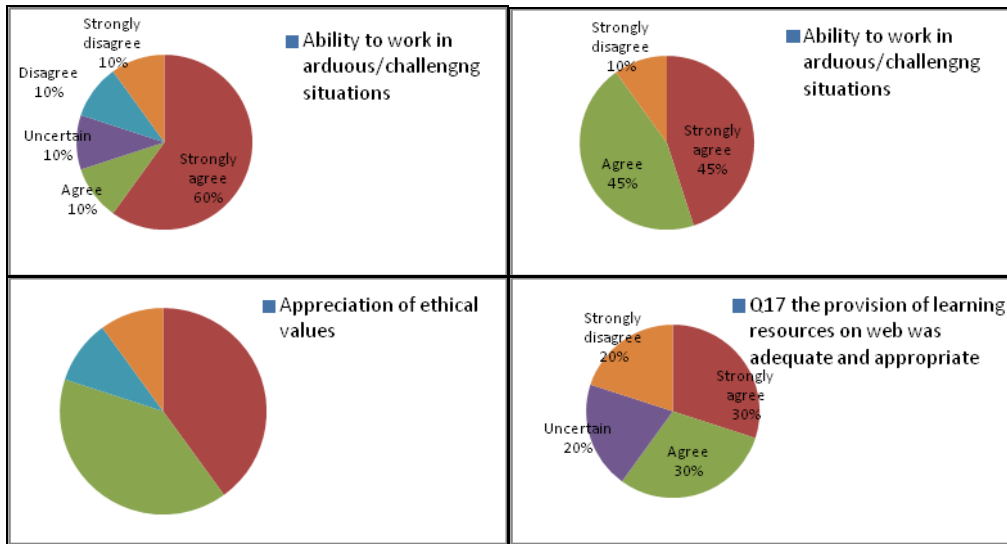


Fig. 17 Interpersonal Skills improved by the programme

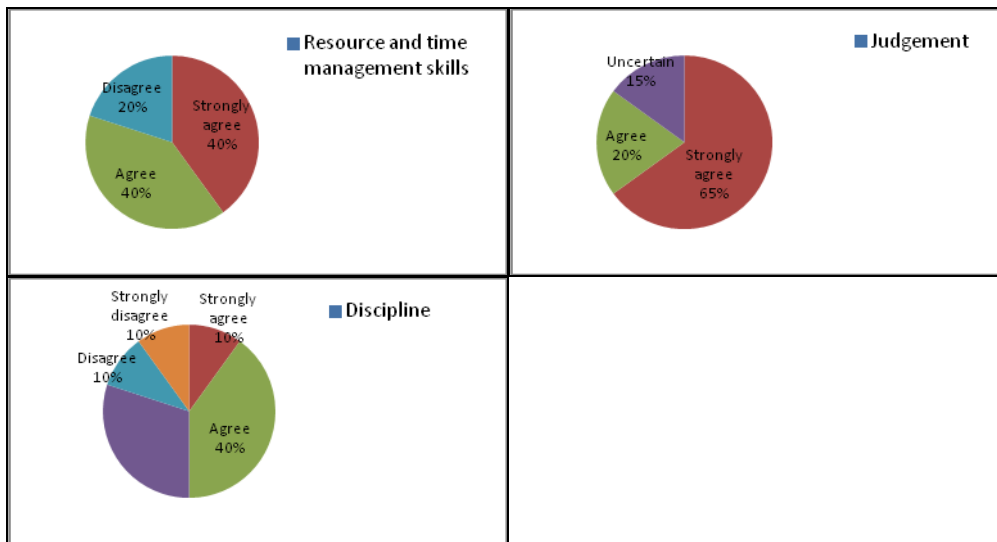
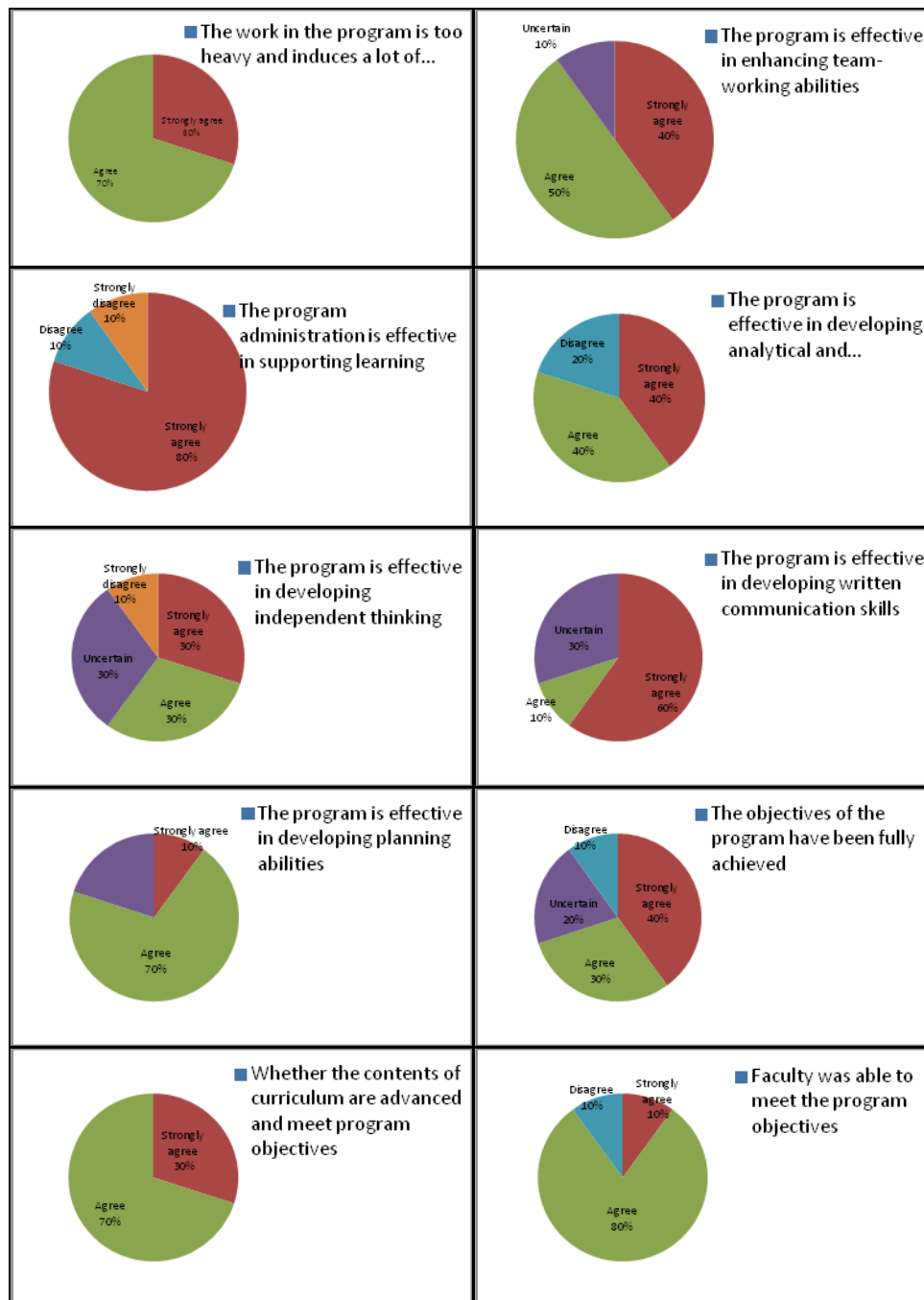


Fig.18 Management/Leadership skills inculcated through the programme

Survey of Graduating Students

Passed out students commented that the program was heavy and induces a lot of pressure but they agreed that the program is effective in enhancing team working abilities. Program administration, however, needs to bring improvement. Program is also effective in developing

analytical and practical skills, independent thinking . Furthermore, the program enhances the planning abilities yet few also disagreed that the program goals are achieved at the end of the program. More scholarships should also be available to facilitate student's research work . Scholarships were also available not in great deal.



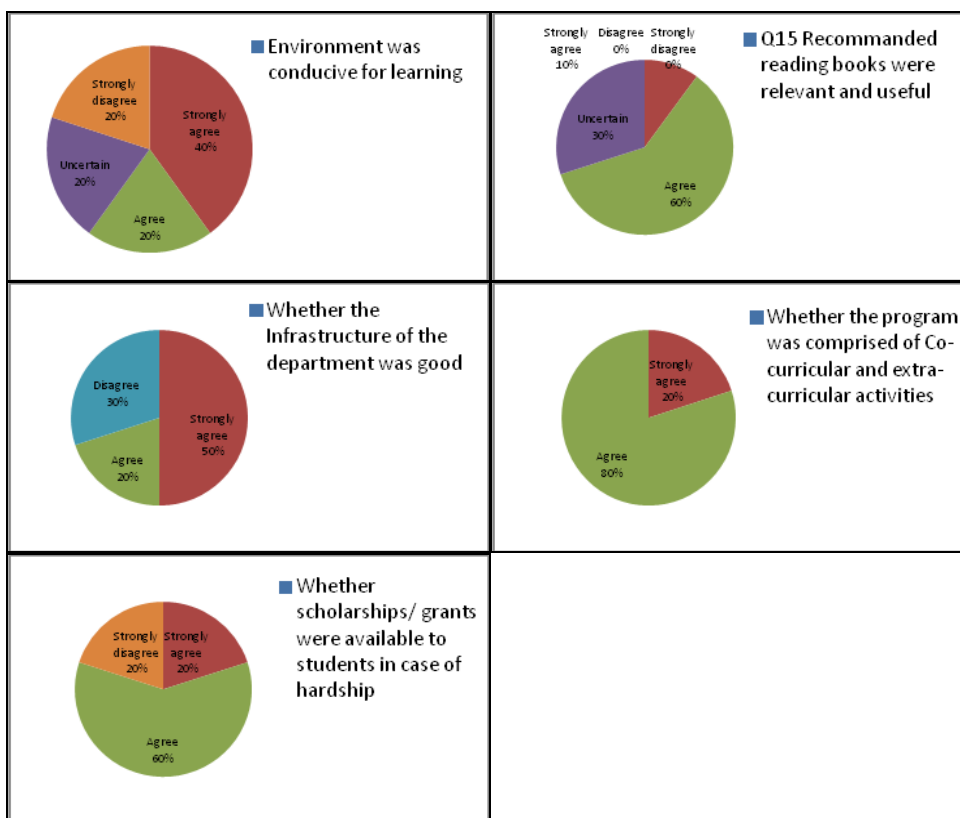


Fig. 19 Results of Survey of Graduating Students

Employer survey

A survey was conducted to get the employer's point of view about the working of our former students in their organizations (Proforma 8,. Feed back about 50 employees was obtained from organizations viz. National Agriculture Research Centre Islamabad (NARC), Pir Mehr Ali Shah Arid Agriculture University Rawalpindi, Federal Seed Certification Department, Islamabad, Bahaud Din Zakria University Multan and Department of Agricultural Extension Punjab. Their views are reflected in the bar diagram below. The major emphasis was to know the employers comments on the quality of education regarding: knowledge, communication skill, work skill and interpersonal skills these students have. Survey reflects that our graduates fall above average in all areas and their skill levels revealed more than 70% (Fig). Some employers gave general comments about some weaknesses in the practical workability.

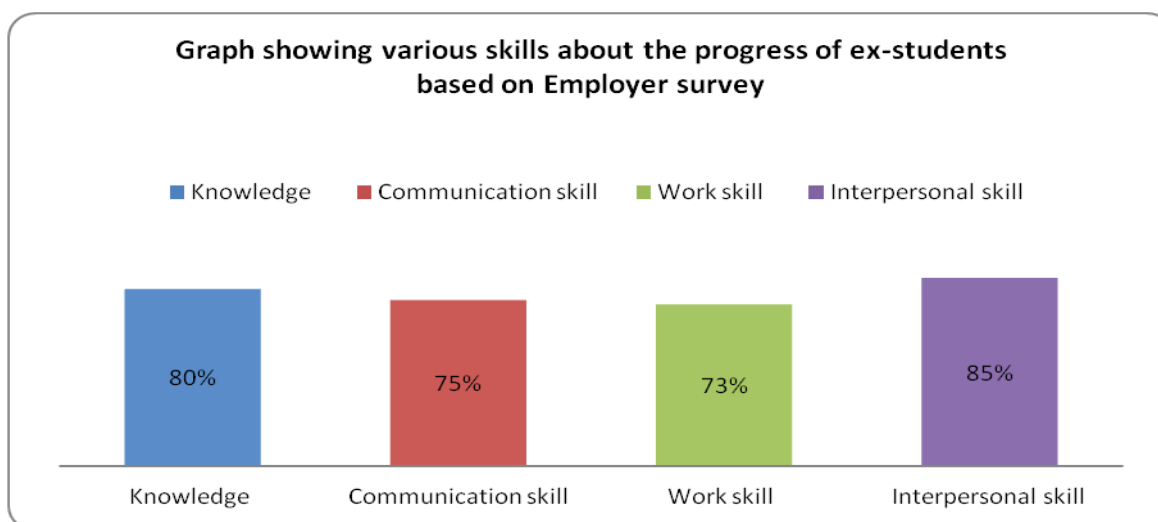


Fig. 20 Various skill levels of the graduates as per information given by employers

Proforma 2- Faculty Course Review Report

This proforma pretends to the report of course review by the faculty members .these proformae were collected from each of the teacher who took master level course in the reported time period. In the following pages soft copies sent by the teachers have been reproduced as such.

FACULTY REVIEW PROFORMA (Submitted by concerned teacher)

For completion by the course instructor and transmission to Head of Department of his/her nominee (Dept. Quality Officer) together with copies of the Course Syllabus outline

Department:	Plant pathology		Faculty:	Crop and food sciences		
Course Code:	Pp 716	Title:	Molecular plant microbe interaction			
Session:	2011-12	Semester:	Autumn ☐	Spring ☐	Summer ☐	
Credit Value:	3(2-2)	Level:	M Sc (Hons)	Prerequisites:	BSc.(Hons.)	
Name of Course Instructor:	Dr Irfan-UI-Haque	No. of Students Contact	Lectures 32	Other (Please State)		

		Hours	practical 16	
Assessment Methods: give precise details (no & length of assignments, exams, weightings etc)		Mid term :12 marks Final :24 marks Assignment :4 marks Total marks :60		

Distribution of Grade/Marks and other Outcomes: (adpt the grading system as required)

Undergraduate	Originally Registered	%Grade A	%Grade B	%Grade C	D	E	F	No Grade	Withdrawal	Total
No. of Students	20	25%	50%	25%						
Post-Graduate	Originally Registered	%Grade A	%Grade B	%Grade C	D	E	No Grade		Withdrawal	Total
No. of Students										

Overview/Evaluation (Course Co-coordinator's Comments)

Feedback: first summarize, then comment on feedback received from:

(These boxes will expand as you type in your answer.)

1) Student (Course Evaluation) Questionnaires(Proforma-1)

2) External Examiners or Moderators (if any)

3) Student /staff Consultative Committee (SSCC) or equivalent, (if any)

4) Curriculum: comment on the continuing appropriateness of the Course curriculum in relation to the intended learning outcomes (course objectives) and its compliance with the HEC Approved / Revised National Curriculum Guidelines

5) Assessment: comment on the continuing effectiveness of method(s) of assessment in relation to the intended learning outcomes (Course objectives)

6) Enhancement: comment on the implementation of changes proposed in earlier

Faculty Course Review Reports:

7) Outline any changes in the future delivery or structure of the Course that this semester/term's experience may prompt :

Faculty Course Review Report



For completion by the course instructor and transmission to Head of Department of his/her nominee (Dept. Quality Officer) together with copies of the Course Syllabus outline

Department:	Plant Pathology		Faculty:	Crop and Food Sciences		
Course Code:	PP-714	Title:	Integrated Diseases Management			
Session:	2010-2011	Semester:	Autumn ☒	Spring ☐	Summer ☐	
Credit Value:	3(2-2)	Level:	Undergraduate	Prerequisites:	B.Sc. Hons. Four semesters	
Name of Course Instructor:	Dr. Tariq Mukhtar	No. of Students Contact Hours	Lectures 30	Other (Please State) Practical (15)		
			Seminars 1			

Assessment Methods: give precise details (no & length of assignments, exams, weightings etc)	Mid exam = 20% Final Exam = 40% Assignment = 7% Practical = 33%
---	--

Distribution of Grade/Marks and other Outcomes: (adopt the grading system as required)

Undergraduate	Originally Registered	%Grade A	%Grade B	%Grade C	D	E	F	No Grade	Withdrawal	Total
No. of Students	9	4	5	-	-	-	-	-	-	9
Post-Graduate	Originally Registered	%Grade A	%Grade B	%Grade C	D	E	No Grade		Withdrawal	Total
No. of Students										

Overview/Evaluation (Course Co-coordinator's Comments)

Feedback: first summarize, then comment on feedback received from:

(These boxes will expand as you type in your answer.)

1) Student (Course Evaluation) Questionnaires(Proforma-1)
2) External Examiners or Moderators (if any)

--

3) Student /staff Consultative Committee (SSCC) or equivalent, (if any)

--

4) Curriculum: comment on the continuing appropriateness of the Course curriculum in relation to the intended learning outcomes (course objectives) and its compliance with the HEC Approved / Revised National Curriculum Guidelines

--

5) Assessment: comment on the continuing effectiveness of method(s) of assessment in relation to the intended learning outcomes (Course objectives)

--

6) Enhancement: comment on the implementation of changes proposed in earlier

Faculty Course Review Reports:

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7) Outline any changes in the future delivery or structure of the Course that this semester/term's experience may prompt :

Faculty Course Review Report



For completion by the course instructor and transmission to Head of Department of his/her nominee (Dept. Quality Officer) together with copies of the Course Syllabus outline

Department:	Plant Pathology		Faculty:	Crop and Food Sciences		
Course Code:	PP-707	Title:	Biochemistry and Physiology of disease plants			
Session:	2010-11	Semester:	Autumn ☐	Spring ☐	Summer ☐	
Credit Value:	3(2-2)	Level:	M.Sc (Hons)	Prerequisites:		
Name of Course Instructor:	Dr. M. Inam-ul-Haq	No. of Students Contact Hours	Lectures 30	Other (Please State) 15		
			Seminars			
Assessment Methods: give precise details (no & length of assignments, exams, weightings etc)		Two assignments were given to individual student during the semester; One was written and the second was oral presentation. Students were assessed twice during the semester in mid and final exams.				

Distribution of Grade/Marks and other Outcomes: (adopt the grading system as required)

Undergraduate	Originally Registered	%Grade A	%Grade B	%Grade C	D	E	F	No Grade	Withdrawa I	Total
No. of Students	9	67%	34%	0	0	0	0			21

Post-Graduate	Originally Registered	%GradeA	%Grade B	%Grade C	D	E	No Grade	Withdrawal	Total
No. of Students									

Overview/Evaluation (Course Co-coordinator's Comments)

Feedback: first summarize, then comment on feedback received from:

(These boxes will expand as you type in your answer.)

1) Student (Course Evaluation) Questionnaires (Proforma-1)

2) External Examiners or Moderators (if any)

3) Student /staff Consultative Committee (SSCC) or equivalent, (if any)

4) Curriculum: comment on the continuing appropriateness of the Course curriculum in relation to the intended learning outcomes (course objectives) and its compliance with the HEC Approved / Revised National Curriculum Guidelines

--

5) Assessment: comment on the continuing effectiveness of method(s) of assessment in relation to the intended learning outcomes (Course objectives)

--

6) Enhancement: comment on the implementation of changes proposed in earlier

Faculty Course Review Reports:

--

7) Outline any changes in the future delivery or structure of the Course that this semester/term's experience may prompt :

--

Faculty Course Review Report



For completion by the course instructor and transmission to Head of Department of his/her nominee (Dept. Quality Officer) together with copies of the Course Syllabus outline

Department:	Plant Pathology		Faculty:	FC&FS	
Course Code:	PP-712	Title:	Plant disease management		
Session:	Fall Semester 2010-11	Semester:	Autumn	Spring ☐	Summer ☐
Credit Value:	3(2-2)	Level:	M.Sc(Hons)	Prerequisites:	Introductory Plant Pathology
Name of Course Instructor:	Dr. Abid Raiz	No. of Students 4	Lectures 30	Other (Please State) Lab: 16	
		Contact Hours	Seminars		
Assessment Methods: give precise details (no & length of assignments, exams, weightings etc)		Two assignments/student (10%), Mid Exam (30%), Final Exam (60%)			

Distribution of Grade/Marks and other Outcomes: (adopt the grading system as required)

Undergraduate	Originally Registered	%Grade A	%Grade B	%Grade C	D	E	F	No Grade	Withdrawal	Total
No. of Students	4	25%	75%							
Post-Graduate	Originally Registered	%Grade A	%Grade B	%Grade C	D	E	No Grade		Withdrawal	Total
No. of Students										

Overview/Evaluation (Course Co-coordinator's Comments)

Feedback: first summarize, then comment on feedback received from:

(These boxes will expand as you type in your answer.)

1) Student (Course Evaluation) Questionnaires (Proforma-1)

nice personality with good knowledge, full command on communication skill, best and dutiful with good teaching methods.

2) External Examiners or Moderators (if any)

-

3) Student /staff Consultative Committee (SSCC) or equivalent, (if any)

-

4) Curriculum: comment on the continuing appropriateness of the Course curriculum in relation to the intended learning outcomes (course objectives) and its compliance with the HEC Approved / Revised National Curriculum Guidelines

course is fine and no need of any improvement

5) Assessment: comment on the continuing effectiveness of method(s) of assessment in relation to the intended learning outcomes (Course objectives)

Present Course is fine and informative with clear objectives and satisfied practical classes.

6) Enhancement: comment on the implementation of changes proposed in earlier

Faculty Course Review Reports:

-

7) Outline any changes in the future delivery or structure of the Course that this semester/term's experience may prompt :

-

Faculty Course Review Report

(To be filled by each teacher at the time of Course Completion)



For completion by the course instructor and transmission to Head of Department of his/her nominee (Dept. Quality Officer) together with copies of the Course Syllabus outline

Department:			Faculty:		
Course Code:	703	Title:	Plant Bacteriology		
Session:	2010-2011	Semester:	Autumn ☐	Spring ☐	Summer ☐
Credit Value:	3(2-2)	Level:		Prerequisites:	
Name of Course Instructor:	Dr Farah Naz	No. of Students Contact Hours	Lectures 32	Other (Please State)	
			Seminars Practical 16		
Assessment Methods: give precise details (no & length of assignments, exams, weightings etc)		Assignment for 4 Marks Mid term: 12 Marks Final term: 24 Marks Total Marks: 60			

Distribution of Grade/Marks and other Outcomes: (adopt the grading system as required)

Undergraduate	Originally Registered	%Grade A	%Grade B	%Grade C	D	E	F	No Grade	Withdrawal	Total
No. of Students	25	40%	60%							
Post-Graduate	Originally Registered	%GradeA	%Grade B	%Grade C	D	E	No Grade		Withdrawal	Total

Overview/Evaluation (Course Co-coordinator's Comments)

Feedback: first summarize, then comment on feedback received from:

(These boxes will expand as you type in your answer.)

1) Student (Course Evaluation) Questionnaires (Proforma-1) nice personality with good knowledge, full command on communication skill, best and dutiful with good teaching methods.
2) External Examiners or Moderators (if any) -
1) Student (Course Evaluation) Questionnaires (Proforma-1) nice personality with good knowledge, full command on communication skill, best and dutiful with good teaching methods.
2) External Examiners or Moderators (if any) -

3) Student /staff Consultative Committee (SSCC) or equivalent, (if any)

-

4) Curriculum: comment on the continuing appropriateness of the Course curriculum in relation to the intended learning outcomes (course objectives) and its compliance with the HEC Approved / Revised National Curriculum Guidelines

course is fine and no need of any improvement

5) Assessment: comment on the continuing effectiveness of method(s) of assessment in relation to the intended learning outcomes (Course objectives)

Present Course is fine and informative with clear objectives and satisfied practical classes.

6) Enhancement: comment on the implementation of changes proposed in earlier

Faculty Course Review Reports:

-

7) Outline any changes in the future delivery or structure of the Course that this semester/term's experience may prompt :

-

6) Enhancement: comment on the implementation of changes proposed in earlier

Faculty Course Review Reports:

-

7) Outline any changes in the future delivery or structure of the Course that this semester/term's experience may prompt :

-

Faculty Course Review Report



For completion by the course instructor and transmission to Head of Department of his/her nominee (Dept. Quality Officer) together with copies of the Course Syllabus outline

Department:	Plant Pathology		Faculty:	Crop and Food Sciences		
Course Code:	PP-701	Title:	Fungal plant pathology			
Session:	2010-11	Semester:	Autumn ☐	Spring ☐	Summer ☐	
Credit Value:	3(2-2)	Level:	M.Sc (Hons)	Prerequisites:		
Name of Course Instructor:	Dr. Abdul Rauf	No. of Students Contact Hours	Lectures 30	Other (Please State) 15		
			Seminars			
Assessment Methods: give precise details (no & length of assignments, exams, weightings etc)		Two assignments were given to individual student during the semester; One was written and the second was oral presentation. Students were assessed twice during the semester in mid and final exams.				

Distribution of Grade/Marks and other Outcomes: (adopt the grading system as required)

Undergraduate	Originally Registered	%Grade A	%Grade B	%Grade C	D	E	F	No Grade	Withdrawa I	Total
No. of Students	9	56%	44%	0	0	0	0			21

Post-Graduate	Originally Registered	%GradeA	%Grade B	%Grade C	D	E	No Grade	Withdrawal	Total
No. of Students									

Overview/Evaluation (Course Co-coordinator's Comments)

Feedback: first summarize, then comment on feedback received from:

(These boxes will expand as you type in your answer.)

1) Student (Course Evaluation) Questionnaires (Proforma-1)

2) External Examiners or Moderators (if any)

3) Student /staff Consultative Committee (SSCC) or equivalent, (if any)

4) Curriculum: comment on the continuing appropriateness of the Course curriculum in relation to the intended learning outcomes (course objectives) and its compliance with the HEC Approved / Revised National Curriculum Guidelines

--

5) Assessment: comment on the continuing effectiveness of method(s) of assessment in relation to the intended learning outcomes (Course objectives)

--

6) Enhancement: comment on the implementation of changes proposed in earlier

Faculty Course Review Reports:

--

7) Outline any changes in the future delivery or structure of the Course that this semester/term's experience may prompt :

--

Faculty Course Review Report



For completion by the course instructor and transmission to Head of Department of his/her nominee (Dept. Quality Officer) together with copies of the Course Syllabus outline

Department:	Plant Pathology		Faculty:	FC&FS	
Course Code:	PP-706	Title:	Plant Virology		
Session:	Fall Semester 2010-11	Semester:	Autumn	Spring ☐	Summer ☐
Credit Value:	3(2-2)	Level:	M.Sc(Hons)	Prerequisites:	Introductory Plant Pathology
Name of Course Instructor:	Dr. Ashfaq	No. of Students 4	Lectures 30	Other (Please State) Lab: 16	
		Contact Hours	Seminars		
Assessment Methods: give precise details (no & length of assignments, exams, weightings etc)		Two assignments/student (10%), Mid Exam (30%), Final Exam (60%)			

Distribution of Grade/Marks and other Outcomes: (adopt the grading system as required)

Undergraduate	Originally Registered	%Grade A	%Grade B	%Grade C	D	E	F	No Grade	Withdrawal	Total
No. of Students	9	25%	75%							
Post-Graduate	Originally Registered	%Grade A	%Grade B	%Grade C	D	E	No Grade		Withdrawal	Total
No. of Students										

Overview/Evaluation (Course Co-coordinator's Comments)

Feedback: first summarize, then comment on feedback received from:

(These boxes will expand as you type in your answer.)

1) Student (Course Evaluation) Questionnaires (Proforma-1)

nice personality with good knowledge, full command on communication skill, best and dutiful with good teaching methods.

2) External Examiners or Moderators (if any)

-

3) Student /staff Consultative Committee (SSCC) or equivalent, (if any)

-

4) Curriculum: comment on the continuing appropriateness of the Course curriculum in relation to the intended learning outcomes (course objectives) and its compliance with the HEC Approved / Revised National Curriculum Guidelines

course is fine and no need of any improvement

5) Assessment: comment on the continuing effectiveness of method(s) of assessment in relation to the intended learning outcomes (Course objectives)

Present Course is fine and informative with clear objectives and satisfied practical classes.

6) Enhancement: comment on the implementation of changes proposed in earlier

Faculty Course Review Reports:

-

7) Outline any changes in the future delivery or structure of the Course that this semester/term's experience may prompt :

-

Research Students Progress Review

70% of the enrolled research students gave the feed back that research program is satisfactory andthat the program is effective in enhancing their working abilities. 20% told that Program needs to bring improvement. Program is also effective in developing analytical and pracitcal skills, independent thinking . Furthermore, the program enhances the planning abilities yet few also disagreed that the program goals are achieved at the end of the program. Some times the experiment lab material is short in supply.

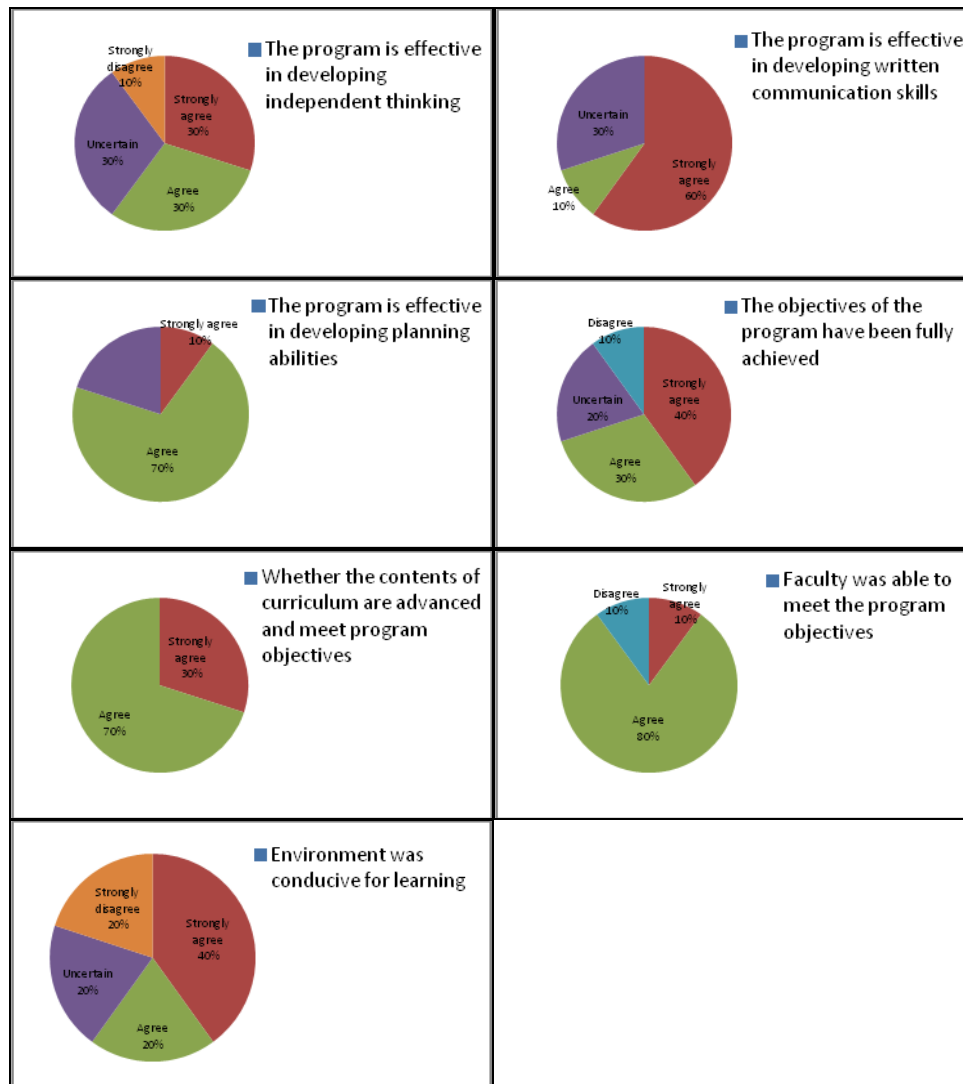


Fig. 21 Results of feed back given by research students

Criterion 2.

CURRICULUM DESIGN AND ORGANIZATION

A) Title of degree program:

Presently following one degree program (2 years) is organized by the department at post master's level.

- **MSc.(Hons.)Agri.** Synopsis and thesis defense following course work, seminar, comprehensive paper and submission of thesis to be approved by the University and examined by one external examiner in Pakistan .

B) Definition of Credit Hour:

A student must complete a definite number of credit hours. One credit hour is one theory lecture or two hours laboratory (practical) / week.

C) Degrees Plan:

List of courses and elective courses is attached:

- The course is relevant to the degree program
- It meets the material and international requirements for the degree
- Adequate facilities are available in the department
- The program contents meet the program objectives as highlighted and provided by the Higher Education Commission, Government of Pakistan.

Degree

Pre-requisites

MSc.(Hons.)Agri. Plant pathology

BSc.(Hons.)Agri. In plant pathology
,GAT(General)50 score

D. For each course in the program that can be completed for credit

Specifying the following:

- Course title
- Course objectives and outcome

- Catalogue description
- Text book and reference
- Syllabus breakdown lectures
- Computer usage: Computer and internet facility is available to all the faculty members to update their knowledge regarding courses being taught, up-dating of research methodologies, documentation of references etc. This facility is also available to students which facilitates them complete their assignments, presentations, data tabulation, data analysis etc.
- Post-graduate students work for their theses research in the laboratories, basic equipment, material and chemicals are provided as per budget availability. University Research Farm Chakwal Road is used for field experiments by some research students.
 - **For each course in the program that can be counted for credit provide 1-2 pages specifying the following:**
 - Computer usage: Internet facility is used by faculty members to up date their knowledge regarding each course and it is also used by students to complete their assignments.
 - Laboratories: For conducting practical given in the curricula the departmental laboratories are used as per requirements.

Standard 2-1: Courses Versus Program Outcome

Group of Courses			
	1	2	3
<u>Plant Fungal pathology</u> PP-701	+	++	++
<u>Bacteriology</u> Pp-703	++	+	+++
<u>Plant Nematology</u> PP-704	++	+	++

<u>Plant Virology</u> PP-706	+	+++	+
<u>Applied Aspects</u> PP-710,PP-712, PP-713	+	++	++

+ = Relevant

+ + = Relevant satisfactory

+ + + = Very relevant satisfactory

Standard 2-2: The curriculum must be consistent and supports the program documented objectives.

Elements	Courses
Theoretical background	PP-701. PP-703,PP-704
Problem analysis	PP-710, PP-709
Solution Design	PP-714,

All the courses for degree program were developed by a committee constituted by the Higher Education Commission, Pakistan. The committee consists of experts and learned Professors, subject matter specialists from the Universities and research organization from Pakistan.

Standard 2-3: The curriculum fits very well and satisfies the core requirements for the program, as specified the respective accreditation body.

Standard 2-4: The curriculum satisfies the major requirements for the program as specified by HEC, the respective accreditation body/council.

Standard 2-5: The curriculum satisfies the general arts and professional and other discipline required for the program according to demands and requirements set by the Higher Education Commission.

Standard 2-6: Information technology component of the curriculum has been integrated throughout the degree program.

While the curriculum was prepared, all aspects of information technology were considered and after a critical analysis, relevant aspects were integrated into the program.

Standard 2-7: Oral and written communication skills of the students have been developed.

- Two seminars each of one credit hour is compulsory for the Post-graduate students.
- Special problem and assignments are given MSc.(Hons.)Agri. students on specific titles (part of the course) which are presented orally and submitted in the form of written report (assignments) by the students which have increased their oral and written communication skills.

Criterion 3: LABORATORIES AND COMPUTER FACILITIES

- Laboratory Title: Plant Pathology Laboratories for the students.
- Location and Area: Faculty of Agriculture and Food Sciences, B-Block, 2nd Floor, Main Campus

Objectives: Laboratories are used for:

Practical demonstrations to post graduate students in their major courses.

Research work for the post-graduate students.

Used for implementing the projects funded by the University, HEC, PSF, PARC and other agencies.

Software available if applicable Nil

Major apparatus, equipments: PCR, Double distillation apparatus, Ultra Centrifuge, spectrophotometer, Incubators, Autoclaves etc. are available

Safety Regulations: Safety measures are not adequately available against fire, minor hazards and accidents, injuries.

Standard 3-1: Laboratory manuals / documentation / instruction for experiments.

Guidance is provided to the students to conduct various lab experiments. For the purpose, practical classes are held regularly and in time. Students are also examined for practical work.

Shortcomings in the laboratories:

- Labs are lacking proper working environment due to interrupted power supply.
- Funding for the supply of consumables for regular working of laboratories is less than the requirements.

Standard 3-2: Support personal for maintenance of laboratory

Laboratories are maintained by only one laboratory assistant.

Standard 3-3: The University computing infrastructure and facilities

- Proper audio visual facilities in lecture rooms should be installed.

- Multimedia is needed in each classroom to effectively demonstrate and teach.

Criterion 4: STUDENT SUPPORT AND ADVISING

Standard 4-1: Courses must be offered with sufficient frequency and number for students to complete the program in a timely manner.

- Courses are given as per strategy of HEC.
- At postgraduate level courses are offered according to the availability of the teachers and decided in Departmental faculty meeting /board of studies.
- Elective courses are offered as per policy of HEC and University.

Standard 4-2: Courses in the major must be structured to ensure effective interaction between students, faculty and teaching assistants.

- Courses are structured and decided in the board of study meeting.
- Decided at the commencement of the semester and in the faculty members interact frequently among themselves and with students. Students are welcome to ask question in class and even after the class.
- Emphasis is always given for an effective interaction between each section.

Standard 4-3: Guidance on how to complete the program must be available to all students and access to qualified advising must be available to make course decisions and career choice.

- Students are informed about the program requirement through the office of the Chairman of the department.
- Through the personal communication of the teachers with the students.
- Students can contact with respective supervisor whenever they face any professional problem.
- Student can interact with the teachers / scientist in Universities or research organization whenever they need and there is open option for the students to get the membership in the professional societies.

Criterion 5: PROCESS CONTROL

Standard 5-1: **The process by which students are admitted to the program must be based on quantities criteria and clearly documented. This process must be periodically evaluated to ensure that it is meeting its objectives.**

- The process of admission is well established and followed as per rules and criterion set by University.

MSc.(Hons.)Agri. Plant pathology

BSc.(Hons.)Agri. In plant pathology ,GAT(General) 50 score

Admission criteria are announced each year before the announcement of admissions

Standard 5-2: **The process by which students are registered in the program and monitoring of students progress to ensure timely completion of the program must be documented this process must be periodically evaluated to ensure that it is meeting its objectives.**

- Students are evaluated through Mid, Final and Practical exams and through Assignments.
- Registration is done one for each degree but evaluation is done through the result of each semester. If the students fulfill the criteria of the University they are promoted to the next semester.
- In general, the students are registered on competition basis keeping in view the academic and research standards.

Standard 5-3: **Recruitment policy followed by the University is recommended by HEC. Induction of all posts is done as per rule:**

- Posts are advertised in the national newspapers, and the applicants are short listed on the basis of experience, qualification, publications and other qualities / activities as fixed by the University.
- The candidates are interviewed by the University Selection Board and Principal and alternate candidates are selected.
- Selection of candidates is approved by the Syndicate for issuing orders to join within a specified period.

- Induction of new candidates depends upon the number of approved vacancies
- For recruitment standards set by HEC are considered.
- At present, no procedure exists for retaining highly qualified faculty members.

Standard 5-4: The process and procedures used to ensure that teaching and delivery of course material to the students emphasizes active learning and that course learning outcomes are met. The process must be periodically evaluated to ensure that it is meeting its objectives.

The teaching methods adopted are according to the standards set by HEC. Normally course contents are given to the students and lecture break down is also given so that they may know about the course topics in advance. Recommended books are mentioned in the course contents.

Standard 5-5: The process that ensures that graduates have completed the requirements of the program must be based on standards, effective and clearly documented procedures. This process must be periodically evaluated to ensure that it is meeting its objectives.

○ According to the examination system of the University which is clearly documented. The evaluation procedure consists of quizzes, mid and final examinations, assignments, reports and oral presentations. Grading System is as follows.

A = 80 %, B = 65-79%, C= 50-64%, D= 40-49%, F= Below 40%

Criterion 6: FACULTY

Standard 6-1: Faculty distribution by program areas

Table-5

Program area of specialization	Courses in the area per year	Number of faculty members in each area	Number of faculty with Ph.D. degree
Fungal plant pathology	06	04	03
Bacteriology	02	02	02
Nematology	01	01	01
Virology	01	01	01
Total	10	07	07

Standard 6-2: Effective programs for faculty development must be in place.

- Professional training and availability of adequate research and academic facilities are provided.
- Existing facilities used include mainly internet access which is available through networking system in addition to library facility.
- Effective programs for faculty development was just introduced in the last semester

Standard 6-3: All faculty members should be motivated and have job satisfaction to excel in their profession.

- Young faculty members are encouraged by the senior faculty members.

Proforma 5 Faculty Survey

Proforma No.5 duly filled in (Table given below) indicated the faculty member's satisfaction level and effectiveness to help them progress and excel in their profession. This satisfaction was expressed for different facilities and opportunities available to them at

department. Among suggestions, provision of local and foreign trainings with accommodation at university main campus, was on top to enhance the skills of faculty members in fields of latest emerging technologies in various avenues of science.

Table 6. Results of Faculty Survey

S #	Parameter	Dr. Irfan-Ul-Haque	Dr. Abdul Rauf	Dr. Tariq Mukhtar	Dr.M.Inam-ul-Haq	Dr. Abid Riaz	Dr. M. Ashfaq	Dr. Farah Naz
1	Your mix of research, teaching and community service	A	B	A	A	B	A	B
2	The intellectual stimulation of your work	B	B	A	A	A	A	A
3	Type of teaching/research you currently do.	B	B	B	B	A	A	A
4	Your interaction with students	A	B	B	B	A	A	A
5	Cooperation you received from colleagues	A	A	A	B	B	B	B
6	Thementoring available to you	B	B	A	B	B	B	B
7	Administrative support from the department	B	B	B	B	A	B	A
8	Providing clarity about the faculty promotion process	A	B	A	B	B	B	B
9	Your prospects for advancement and progress through ranks	B	B	B	A	C	B	B
10	Salary and compensation packages	B	A	B	B	A	B	A
11	Job security and stability at the department	A	A	B	A	A	B	A
12	Amount of time you have for yourself and family	B	B	B	A	A	B	C
13	The overall climate at the department	A	B	A	B	B	B	A
14	Whether the department is utilizing your experience and knowledge	A	B	A	B	A	A	A
15	what are the best programs/ factor currently available in your department that enhance your motivation and job satisfaction.	Applied knowledge/ Respect of colleagues	cooperatio n of the colleagues and the staff	Applied knowledge	Descipline at the campus	knowledge friendly environme nt	Working environ ment	Friendly environme nt
16	Suggest programs/factors that could improves your motivation and job satisfaction	Lab. facilities need to be improved	High profile research & teaching collaborati on at internation al level	--	--	In time advanceme nt through ranks	--	Budget for the practical of major and general classes should be

A: very satisfied

B: Satisfied

C: Uncertain

D: Dissatisfied

E: Very dissatisfied

Criterion 7: INSTITUTIONAL FACILITIES

Standard 7-1: **The institution must have the infrastructure to support new trends in learning such as e-learning and e-books etc.**

- Electronic library books and journals are available for learning purpose.
- Insufficient facilities regarding the infrastructure to support new trends in learning.

Standard 7-2: **The library must possess an up-to-date technical collection relevant to the program and must be adequately staffed with professional personnel.**

- Collection of appropriate technical books is available at the library.
- Recommended books, relevant journals of the programs are available to the students to some extent.

Standard 7-3: **Class rooms must be adequately equipped and offices must be adequate to enable faculty to carry out their responsibilities.**

- Due to insufficient number of class rooms, classes are taken in the general lecture halls.
- Space limitation is the major constraint in the development and strengthening of the discipline.

Criterion 8: INSTITUTIONAL SUPPORT:

Unfortunately, this aspect is weak at present.

Standard 8-1: **There must be sufficient support and financial resources to attract and retain high quality faculty and provide the means for them to maintain competence as teachers and scholars.**

- Insufficient secretarial support, technical staff and office equipment.
- Vacant posts should be filled in regularly to improve working efficiency of teaching staff.

Standard 8-2: **There must be an adequate number of high quality graduate students, research assistants and Ph.D. students.**

- Currently, there are 8 Ph.D. students in the department.

Standard 8-3: **Financial resources must be provided to acquire and maintain library holdings, laboratories and computing facilities.**

- At present small departmental library has been established that needs financial assistance for its expansion.
- One computer assistant and five official PCs are available.

Proforma 4 Research Students Progress Review Form

Proforma 4 was filled in by post graduate students giving details about; when they were admitted to the department, initiation of research and course work details etc. On the basis of survey conducted it was indicated that students are generally satisfied with the level of supervision provided and research facilities available in the department except few problems related to timely availability of chemicals in the labs to conduct their experiments smoothly.

Summary

This Self-Assessment Report-2010-12-3rd cycle (Masters hors. level) explained the developmental work of the Department of Plant Pathology, PirMehr Ali Shah Arid Agriculture University, Rawalpindi. The department has progressed remarkably and made significant contribution in several aspects mainly, the identification of disease problems in the area, curricula development, research methodology and human resource development. The department now provides a variety of programs such as Mycology, Bacteriology, Virology, Nematology and has produced eminent scientists who work in various universities, research institutes, agricultural extension departments and private organizations of Pakistan as well as abroad. The department is making consistent efforts to provide all basic facilities to students for planning and execution of their research activities. The courses have been improved considering the latest research developments in field of applied science. The courses are regularly modified and updated as per guidelines of HEC Curriculum Committee recommendations.

This Self Assessment Report (SAR) presents the progress of Department at MSc Hons. , for the academic years 2010-12. Surveys were conducted at the end of each semester i.e., Fall semester (2010-11), Spring (2011), Fall semester (2011-12) and Spring (2012). This Self Assessment Report (SAR) is based on eight criteria. The first criterion provides the program mission and objectives followed by criterion 2 that gives an insight in to the curriculum development. Criterion 3 catalogues the laboratories and other relevant information. The information about students' support and advising is mentioned in the fourth criterion whereas the last fourth criteria give the information about process control, faculty characteristics and institutional facilities and support.

A perusal of Proforma 1 and Proforma 10 filled by the Post Graduate (M.Sc.Hons.) students revealed that most of the students found the course contents, course objectives, course organization, demonstration, class environment, teaching methods, grading scripts etc up to the mark and strongly agreed

with the general information gathered from these courses. It has been highlighted in the surveys of degree completing students and alumni that although the department has developed very well equipped laboratories, but due to insufficient funding and procedural delays, the research activities are adversely affected. Therefore, a revolving fund may be provided to meet the immediate needs of research activities. Since the discipline's mission is to produce high quality graduates which can play their role in boosting production of healthy crop plants, so it has emphasized on imparting quality education, introducing new and innovative techniques and conduct research, so that effects of diseases are alleviated. For this purpose, four specific objectives were sought which are measurable, achievable and analyzed through and according to the criteria set by Higher Education Commission. The program mission objectives and outcomes have been assessed and strategic plans are presented to achieve the goal, which are measurable through definite standards. Programme outcomes appeared to be satisfactory. Teachers' evaluation revealed satisfactory standards, the score of seven teachers of the department ranged from 73.02 to 81.41%. Alumni surveys revealed variable results with regards to knowledge, interpersonal skills, management and leadership skill. Weaknesses were identified which are related to space, laboratories and equipment and improvements in this regard have been suggested. Community services provided by the department are summarized and employer survey indicated that the graduates fall above average in understanding and dispensing their duties. However field research aspect needs to be improved. Curriculum design, development and organization are based upon set, well defined and approved criteria. Pre-requisites are fully observed, examinations are conducted as per schedules and academic schemes are fully prepared in advance. The number of courses, along with their titles and credit hours for each semester, course contents for degree programme is fully planned. Their efficacy was measured through different standards and it was found to range between satisfactory to highly satisfactory.

The facilities and shortcomings in the laboratories have been discussed. It was concluded that proper laboratory and computer facilities are needed to further strengthen the discipline on scientific lines. Proper steps are taken to guide the students for programme requirements, communication, meetings, tours,

students-teacher interaction etc. They are well informed of relevant scientific societies, job opportunities and other such activities. Some improvements have been suggested.

As regards the process control covering admission, registration, recruiting policy, courses and delivery of material, academic requirements, performance and grading, university as well as Higher Education Commission have set forth proper rules, which are properly followed. At present there are nine faculty members in the department of which seven are highly qualified in their fields. However, faculty members need motivation for advanced knowledge and research. Faculty survey results were variable but still satisfactory.

Conclusions:

Efficiency of the department may be further improved through adopting various steps. Some of the salients are as under.

1. Laboratories not only need new equipment but the old one should be repaired. so that the graduate and postgraduate students may carry out their research without any difficulty..
2. Existing number of class rooms are not sufficient. Available rooms need improvement to provide conducive environment for student's learning.
3. The department needs a project for strengthening of the program. After that department may provide more facilities to the graduate and post graduate students.
4. There is also a need to improve level of cooperation among the faculty members as well as students for better results.
5. Faculty members have pointed out that salaries and compensation may be improved for more satisfactory job performance.
6. There is also a need to improve mix of research and teaching proportion to produce professionally sound graduates.
7. For the departmental library allocation of sufficient funds will be helpful in subscription of reputed journals and purchase of recent books that will ultimately boost quality of learning, teaching and research.



Faculty Resume

Name	Muhammad Irfan Ul-Haque															
Personal	Professor/Chairman Department of Plant Pathology Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi. Phone # 92519290239 Cell#03335193255 Email.: irfan52@uaar.edu.pk irfhaque@gmail.com															
Experience	<table border="1"> <thead> <tr> <th>Date</th><th>Title</th><th>Institute</th></tr> </thead> <tbody> <tr> <td>8.3.1980 to 28-11.81</td><td>Investigator</td><td>Pak. Forest Institute Peshawar</td></tr> <tr> <td>29-11-81 to 01-12-99</td><td>Scientific Officer/ Senior Scientific</td><td>Pak, Agric. Res. Council, Islamabad</td></tr> <tr> <td>01.12.1999 to</td><td>Associate Professor</td><td>PMAS AAUR</td></tr> <tr> <td>Date</td><td>Professor</td><td></td></tr> </tbody> </table>	Date	Title	Institute	8.3.1980 to 28-11.81	Investigator	Pak. Forest Institute Peshawar	29-11-81 to 01-12-99	Scientific Officer/ Senior Scientific	Pak, Agric. Res. Council, Islamabad	01.12.1999 to	Associate Professor	PMAS AAUR	Date	Professor	
Date	Title	Institute														
8.3.1980 to 28-11.81	Investigator	Pak. Forest Institute Peshawar														
29-11-81 to 01-12-99	Scientific Officer/ Senior Scientific	Pak, Agric. Res. Council, Islamabad														
01.12.1999 to	Associate Professor	PMAS AAUR														
Date	Professor															
Memberships	LIFE MEMBER OF FOLLOWING SOCIETIES - Pakistan Phytopathological Society(PPS) - Pakistan Botanical Society (PBS) - Mycology and Plant Pathology Society of Pakistan - Pakistan Genetical Society															
Graduate Students	<table border="1"> <thead> <tr> <th>Years</th><th>Degree</th><th>Name</th></tr> </thead> <tbody> <tr> <td>2010 to</td><td>M.Sc (Hons)</td><td>Umar Shabaz</td></tr> </tbody> </table>	Years	Degree	Name	2010 to	M.Sc (Hons)	Umar Shabaz									
Years	Degree	Name														
2010 to	M.Sc (Hons)	Umar Shabaz														
Postdocs	<table border="1"> <tbody> <tr> <td>2012</td><td></td><td>Hafiz Ammar</td></tr> <tr> <td></td><td></td><td>Mah Jabeen</td></tr> </tbody> </table>	2012		Hafiz Ammar			Mah Jabeen									
2012		Hafiz Ammar														
		Mah Jabeen														

	Bilal Mustafa 2010 to Ph.D. Muhammad Ijaz 2012 Nasim Begum Hafiz Ziaullah
Service Activity	1. Administration as Chairman 2. Teaching of courses to students. 3. Thesis supervision for the M.Sc (Hons)? Ph.D. students 4. Supervision of research project
Brief Statement of Research Interest	<i>Pathological studies on major horticultural and cereal/sugar crops mainly focusing on bacterial diseases</i>

<i>Publications</i>	1. Afzal, S. N., M.I. Haque, , Abdul Rauf, I. Ahmad and Syeda Siddiq Firdous. 2010. <i>nthomonas campestris</i> pv. <i>Sesami</i>. <i>Pak. J. Bot.</i>, 42(6): 4191-4198. 2. Rattu, A.R., I.Ahmad, M.Fayyaz, M.A. Akhtar, I. Haque, M. Zakria and S. N. Afzal. 2010. Virulence analysis of <i>Puccinia tritici</i> cause of leaf rust of wheat. <i>Pak. J. Bot.</i> 41(4):1957-1964. 3. Iqbal, U., T. Mukhtar, S.M. Iqbal, I. Haque and S.R. Malik. 2010. Host plant resistance in blackgram against charcoal rot (<i>Macrophomina phaseolina</i> (Tassi) Goid) . <i>Pak. J. Phytopathol.</i> 22(2):71-78. 4. Firdous, S.S., R. Asghar, M.I. Haque, S.N. Afzal, G. Murtaza and S.M. Mughal. 2010. Isolation, purification, characterization and identification of virulence factors of <i>Pseudomonas syringae</i> pv. <i>sesami</i> and <i>Xanthomonas campestris</i> pv. <i>Sesami</i>. <i>Pak. J. Bot.</i>, 42(6): 4191-4198. 5. Ahmedani, M. S., M. I. Haque, Syed Nadeem Afzal, M. Naeem, T. Hussain and S. Naz. 2011. Quantitative losses and physical damage caused to wheat kernel (<i>Triticum aestivum</i> L.) by Khapra Beetle infestation. <i>Pak. J. Bot.</i>, 43(1): 659-668. 6. Shah, H., Tahira Yasmin, Muhammad Fahim, Shahid Hameed, Irfan-ul-Haque, Muhammad Munir and Khalil Ahmed Khanzada. 2011. Reaction of exotic and indigenous <i>Capsicum</i> genotypes against Pakistani isolates of chili vein mottle virus. <i>Pak. J. Bot.</i>, 43(3): 1707-1711. 7. Kishwar Sultana, Chaudhary Abdul Rauf, Abid Riaz, Farah Naz, Gulshan Irshad and Muhammad Irfan ul Haque. 2011. Checklist of agarics of Kaghan valley. <i>Pak. J. Bot.</i>, 43(3): 1777-1787. 8. Syed Zia-ul-Hussnain, M. I. Haque, S. M. Mughal, Kosar Nawaz Shah, Aiysha Irfan, Shahid Afghan, Aamir Shahazad, Akhtar Batool , Plosha Khanum, Khalid Hussain, Khalid Nawaz, Muhammad N. Hassan and Fauzia Y. Hafeez. 2011. Isolation and biochemical characterizations of the bacteria (<i>Acidovorax avenae</i> subsp. <i>avenae</i>) associated with red stripe disease of sugarcane. <i>African Journal of Biotechnology</i> Vol. 10(37), pp. 7191-7197. 9. Muhammad Tariq-Khan and Muhammad Irfan Ul-Haque. 2011. Elite-II synthetic hexaploid wheats as a potential source of resistance against yellow rust. <i>Archives Of Phytopathology And Plant Protection</i>, 44:12, 1165-1170. 10. Muhammad Ijaz, M.I. Haque, C.A. Rauf, Fayyaz-ul-Hassan, Abid Riaz and S.M. Mughal. 2011. Correlation
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	between humid thermal ratio and epidemics of Cercospora leaf spot of peanut in Pothwar. <i>Pak. J. Bot.</i>, 43(4): 2011-2016. 11. Syed Zia-ul-Hussnain, S. Afghan, M.I. Haque, J.C. Comstock, S.M. Mughal, A. Shahzad, K. Hussain, K. Nawaz, Y.B. Pan, P. Jackson and A. Irfan. 2011. First report of Ratoon Stunt of Sugarcane caused by <i>Leifsonia xyli</i> subsp. <i>xyli</i> in Pakistan. <i>Plant Disease</i>. Vol.95(12):1581.
<i>Research Grants and Contracts.</i>	As Principal Investigator 1. HEC Funded Project "Virulence Analysis of <i>Puccinia striiformis</i> Population Triggering Stripe Rust of Wheat in Northern Punjab and NWFP" amounting Rs. 1.288 millions. 2. HEC Funded Project "Genetic Diversity and Phylotyping of <i>Ralstonia solanacearum</i> Strains Causing Bacterial Wilt of Chillies in Major Chilli Growing Areas of Pakistan" amounting Rs. 5.347 millions. As Co-PI 1. Pak China Consortium MoST Project "Development of high yielding rust tolerant wheat genotypes by using molecular markers" amounting Rs. 4.45 millions. 2. HEC funded Project "Virulence Analysis of <i>Xanthomonas campestris</i> pv <i>sesami</i> and <i>Pseudomonas syringae</i> pv <i>sesami</i>, the Causal Organisms of Sesame (<i>Sesamum indicum</i> L.) Bacterial Blight" amounting Rs. 6.4 millions.

Name	Dr. Tariq Mukhtar														
Personal	Associate Professor Department of Plant Pathology, Pir Mehr Ali Shah Arid Agricultur University, Rawalpindi Phone # +92 51 9290239 Cell # 0301-7194205 E-mail: drtmukhtar@uaar.edu.pk														
Experience	<table><tr><th>Date</th><th>Title</th><th>Institution</th></tr><tr><td>04-11-2006 to Date</td><td>Associate Professor</td><td>PMAS Arid Agriculture University, Rawalpindi</td></tr><tr><td>06-10-2006 to 03-11-2006</td><td>Assistant Professor</td><td>PMAS Arid Agriculture University, Rawalpindi</td></tr><tr><td>30-05-1991 to 05-10-2006</td><td>Agricultural Officer</td><td>Agriculture, Pest Warning and Quality Control of Pesticides (Plant Protection)</td></tr></table>	Date	Title	Institution	04-11-2006 to Date	Associate Professor	PMAS Arid Agriculture University, Rawalpindi	06-10-2006 to 03-11-2006	Assistant Professor	PMAS Arid Agriculture University, Rawalpindi	30-05-1991 to 05-10-2006	Agricultural Officer	Agriculture, Pest Warning and Quality Control of Pesticides (Plant Protection)		
Date	Title	Institution													
04-11-2006 to Date	Associate Professor	PMAS Arid Agriculture University, Rawalpindi													
06-10-2006 to 03-11-2006	Assistant Professor	PMAS Arid Agriculture University, Rawalpindi													
30-05-1991 to 05-10-2006	Agricultural Officer	Agriculture, Pest Warning and Quality Control of Pesticides (Plant Protection)													
Honor and Awards	First position in M.Sc. (Hons) Plant Pathology in 1992														
Memberships	Life member of the following societies a) Zoological Society of Pakistan (ZSP) b) Pakistan Society of Nematologists (PSN) c) Pakistan Phytopathological Society (PPS) (Joint Secretary)														

	d) Pakistan Botanical Society (PBS) e) Myco-Phytopathological Society of Pakistan (Mycops)		
Graduate Students	Years	Degree	Name
Postdocs	2010	Ph.D.	Dr. Umer Iqbal
Undergraduate	2011	Ph.D.	Dr. Muhammad Arshad Hussain
Students	2012	Ph.D.	Dr. Muhammad Zameer Kayani
<i>Honour Students</i>	2012	M. Sc. Hons	Nasira Perveen
	2011	M. Sc. Hons	Fakhar-ud-Din
	2011	M. Sc. Hons	Sundas Aslam
	2010	M. Sc. Hons	Wajahat Azeem
Service Activity	1. Teaching of courses to undergraduate and graduate classes. 2. Supervision of Ph. D. and M. Sc. Students. 3. Supervision of research projects. 4. Conducting research trials.		
Brief Statement of Research Interest	Management of plant pathogens with different control strategies.		

SAR Proforma 9

*Faculty Resume*

<i>Name</i>	Dr.M.Inam-ul-Haq									
<i>Personal</i>	Dr. M.Inam-ul-Haq Associate Professor/Director Advanced Studies Department of Plant Pathology Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi, Pakistan Phone: +92-51-9062150 Phone: +92-51-9290157 Cell # +92-03457708552									
<i>Experience</i>	Current appointment first, each entry as follows: <table border="1"> <thead> <tr> <th><i>Date,</i></th> <th><i>Title</i></th> <th><i>Institution.</i></th> </tr> </thead> <tbody> <tr> <td>1. 28-01-2011</td> <td>DAS</td> <td>PMAS AAUR</td> </tr> <tr> <td>2. 23-9-2008</td> <td>Asso Prof</td> <td>PMAS AAUR</td> </tr> </tbody> </table>	<i>Date,</i>	<i>Title</i>	<i>Institution.</i>	1. 28-01-2011	DAS	PMAS AAUR	2. 23-9-2008	Asso Prof	PMAS AAUR
<i>Date,</i>	<i>Title</i>	<i>Institution.</i>								
1. 28-01-2011	DAS	PMAS AAUR								
2. 23-9-2008	Asso Prof	PMAS AAUR								
<i>Honor and Awards</i>	1. UNESCO 02 months Training 2. HEC Post Doc 2005-06									
<i>Memberships</i>	<i>List memberships in professional and learned Societies, indicating offices held, committees, or other specific assignments.</i> 1.Memeber Pakistan Phytopathological Society 2.Pakistan Botanical Society 3.Asian PGPR Society									
	<i>List supervision of graduate students, postdocs and</i>									

Graduate Students	<i>undergraduate honors theses showing:</i>
Postdocs	Years Degree Name
Undergraduate	
Students	Show other information as appropriate and list membership on graduate degree committees.
<i>Honour Students</i>	PhD 03 completed 04 in pipe line MSc 19 completed 03 in pipe line
Service Activity	<i>List University and public service activities.</i> 1.Teaching and Research activities to Under and Post graduate students. 2.Director Advanced Studies

<i>Brief Statement of Research Interest</i>	<i>May be as brief as a sentence or contain additional details up to one page in length.</i> 1.Plant Bacteriology 2.Biological Control of Plant Diseases 3.IDM
<i>Publications</i>	<i>List publications in standard bibliographic format with earliest date first.</i> ○ Manuscripts accepted for publication should be included under appropriate category as “in press;” ○ Segment the list under the following standard headings: • Articles published by refereed journals. • Books. • Scholarly and / or creative activity published through a refereed electronic venue. • Contribution to edited volumes. • Papers published in refereed conference proceedings. • Paper or extended abstracts published in conference proceedings. (refereed on the basis of abstract) • Articles published in popular press. • Articles appearing in in-house organs. • Research reports submitted to sponsors. • Articles published in non-refereed journals. • Manuscripts submitted for publication. (include where and when submitted). Total publications=65 i) 54 National ii) 11 International
<i>Research Grants and Contracts.</i>	<i>Entries should include:</i> Date Title Agency / Organization Total Award Amount= 30.6 million Segment the list under following headings: • Completed, 01 HEC 1.2 million

	• Funded and in progress, 02 i) Endowment Fund 1.9 million ii) PSF 1.9 million iii) HEC 5.6 approved iv) PARB 20 million approved • In review 02 i) Ministry S&T and Pak US
<i>Other Research or Creative Accomplishments</i>	<i>List patents, software, new products developed, etc.</i>
<i>Selected Professional Presentations</i>	

Research Grants and Contracts.					
	Date	Title	Agency/ Organization	Amount in Rs	Status
	2008 to 2010	Distribution and Management of Root-knot nematodes	Endowment Fund, University of Agriculture Faisalabad	2.222 Millions	Completed
	2010 to 2013	Genetic diversity and phylotyping of <i>Ralstonia solanacearum</i> strains causing bacterial wilt of chillies in major chilli growing areas of Pakistan	Higher Education Commission, Islamabad	5.347 Millions	In progress
Other Research or Creative Accomplishments	NIL				
Selected Professional Presentations	Many				

SAR Proforma 9

Faculty Resume



<i>Name</i>	
<i>Personal</i>	Dr. Muhammad Ashfaq E.mail address: mashfaq@uaar.edu.pk , mashfaq1642@gmail.com Phone No.: +92 (0) 51 9062627, +92 (0) 51 9290239 Cell No. +92 (0) 312 5251187
<i>Experience</i>	List current appointment first, each entry as follows: Teaching and Research experience from 1-7-2004 to date. Assistant professor: 01-04-2010 Lecturer: 05-10-2006 at PMAS-AAUR Lecturer: 01-07-2004 at UAF
<i>Honor and Awards</i>	- Secured 1st position in M.Sc. (Hons.) Agric. Plant Pathology with CGPA 3.95/4.00 (87.77%) in 2001-03 and got Silver Medal. - Secured 1st position in B.Sc. (Hons.) Agric. Plant Pathology in the department of Plant Pathology in 2001. - Secured merit scholarship for the session 2001-2003. - Secured merit scholarship in matriculation examination. - Stood 1st in the Centre in Middle standard examination. - Secured "Fauji Foundation scholarship" from 1997 to 2003. - HEC PhD Approved Supervisor. - Reviewer of National and International Scientific Journals. Submission of Tobacco rattle virus-SYM segment RNA2, genomic RNA sequence to GenBank with accession Number FR854197

	• Reported three novel genes (ORFs) of TRV SYM isolate. • Reports from M. Ashfaq and Colleagues Advance Knowledge in Virology. Life Science Weekly (USA based Newspaper) November 2011 (Highbeam Research) • Added as Scientific Expert in Scientific Experts list by Labome.Org (http://www.labome.org/exp/ashfaq/muhammad-ashfaq-1775568.html)									
Memberships	➤ Life membership of Pakistan Botanical Society (PBS), University of Karachi, Karachi. ➤ <i>Life membership of Pakistan Phytopathological Society (PPS) University of Agriculture, Faisalabad</i>									
Graduate Students Postdocs Undergraduate Students Honour Students	<i>List supervision of graduate students, postdocs and undergraduate honors theses showing:</i> <table><tr><th>Years</th><th>Degree</th><th>Name</th></tr><tr><td>2010</td><td>M.Sc(Hons)</td><td>Usman Irshad</td></tr><tr><td>2010</td><td>M.Sc(Hons)</td><td>Anum Saleem</td></tr></table>	Years	Degree	Name	2010	M.Sc(Hons)	Usman Irshad	2010	M.Sc(Hons)	Anum Saleem
Years	Degree	Name								
2010	M.Sc(Hons)	Usman Irshad								
2010	M.Sc(Hons)	Anum Saleem								
Service Activity	<i>Teaching and Research.</i>									
Brief Statement of Research Interest	<i>May be as brief as a sentence or contain additional details up to one page in length.</i> • Molecular Plant Virology, Functional study of viral genes, Development of transgenic plants resistant to virus infection, Study of virus-encoded silencing suppressor proteins, Virus-Plant interactions, Biochemistry and Physiology of Viral Diseased Plants, Epidemiology of Plant Viruses, Integrated Disease Management.									

<i>Publications</i>	List publications in standard bibliographic format with earliest date first. ○ Manuscripts accepted for publication should be included under appropriate category as “in press;” ○ Segment the list under the following standard headings: • Articles published by refereed journals. Irshad, U., T. Mukhtar, M. Ashfaq, Z. H. Kayani, S. B. Kayani and S. Aslam. 2012. “Pathogenicity of citrus nematode (<i>Tylenchulus semipenetrans</i>) on <i>Citrus jambhiri</i>”. JAPS. 12(4):1014-1018. Iqbal, S., M. Ashfaq, H. Shah, M. I. Haq and Aziz-Ud- Din. 2012. Prevalence and distribution of Cucumber mosaic cucumovirus (CMV) in major chili growing areas of Pakistan. Pak. J. Bot., 44(5): 1749-1754. Ashfaq, M., W. McGavin and S. A. MacFarlane. 2011. RNA2 of TRV SYM breaks the rules for tobnavirus genome structure. Virus Res., 160: 435-438. Iqbal, S., M. Ashfaq and H. Shah.. 2011. Biological characterization of Pakistani isolates of Cucumber mosaic cucumovirus (CMV). Pak. J. Bot., 43(6): 3041-3047. Iqbal, S., M. Ashfaq and H. Shah. 2011. Diversity among Pakistani isolates of Cucumber mosaic cucumovirus (CMV) infecting chilli pepper. Pak. J. Bot., (Accepted). Ashfaq, M., M. Aslam Khan, N. Javed, S. M. Mughal, M. Shahid and S.T. Sahi. 2010. Effects of Urdbean Leaf Crinkle Virus Infection on Total Soluble Protein and Antioxidant Enzymes in Blackgram Plants. .Pak. J. Bot., 42(1):447-454. Saffdar, H., M. Ashfaq, S. Hameed, I. U. Haque and A. Mujeeb-Kazi. 2009. Molecular analysis of genetic diversity in elite II synthetic hexaploid wheat screened against Barley yellow dwarf virus. Afr. J. Biotchnol., 8(14): 3244-3250. Ashfaq, M., M. Aslam Khan and N. Javed. 2008. Characterization of environmental factors conducive for urdbean leaf crinkle (ULCV) disease development. Pak. J. Bot.,
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	40(6):2645-2653. National Publications • Books. • Scholarly and / or creative activity published through a refereed electronic venue. • Submission of Tobacco rattle virus-SYM segment RNA2, genomic RNA sequence to GenBank with accession Number FR854197 • Reported three novel genes (ORFs) of TRV SYM isolate. • Reports from M. Ashfaq and Colleagues Advance Knowledge in Virology. Life Science Weekly (USA based Newspaper) November 2011 (Highbeam Research) • Added as Scientific Expert in Scientific Experts list by Labome.Org (http://www.labome.org//exp/ashfaq/muhammad-ashfaq-1775568.html) • • Contribution to edited volumes. • Papers published in refereed conference proceedings. Javed, N., S. R. Gowen, T. Mukhtar and M. Ashfaq. 2002. Effect of neem products on hatching, mobility, mortality and development of juveniles of <i>Meloidogyne javanica</i>. Proceedings of National Symposium of Nematology, 67-75. Paper or extended abstracts published in conference proceedings. (refereed on the basis of abstract) Ashfaq, M., and S. A. MacFarlane. 2011. A pathogenicity protein is encoded among three novel genes carried on RNA2 of TRV isolate SYM. "8th Nat. Conf. of Pak. Phytopathol. Soc.," 28-29 November, 2011, University of Agriculture Faisalabad, Pakistan Submission of First Annual (2011-2012) Technical Report of Project No.: PSF/RES/P-PMAS.AAU/Agr(396) to PSF • Articles published in non-refereed journals. • Manuscripts submitted for publication. (include where and when submitted).
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<i>Research Grants and Contracts.</i>	<i>Entries should include:</i> <table><tr><th>Date</th><th>Title</th><th>Agency / Organization</th></tr><tr><td></td><td>Title: “Characterization of biochemical factors in relation to resistance against <i>Mungbean yellow mosaic virus</i> (MYMV) and its management” Funded by PMAS-AAUR (Completed)</td><td></td></tr><tr><td></td><td>Title: “Studies on characterization and management of leaf crinkle virus infecting blackgram”. (Ongoing, PSF-2011)</td><td></td></tr><tr><td></td><td>Title: “Prevalence, identification and partial characterization of major mosaic viruses infecting ornamental plants in Rawalpindi and Islamabad cities” (Ongoing, PMAS-AAUR-2011)</td><td></td></tr><tr><td></td><td>Title: “Molecular studies on complex of potyviruses Infecting Tomato and Chili Crops in Pakistan”. (Approved , International- starting date 01-12-2012)</td><td></td></tr><tr><td></td><td>Title: “Genetic Variability and molecular characterization of solanaceous viruses in Pakistan”. (Submitted to HEC-2012)</td><td></td></tr></table>	Date	Title	Agency / Organization		Title: “Characterization of biochemical factors in relation to resistance against <i>Mungbean yellow mosaic virus</i> (MYMV) and its management” Funded by PMAS-AAUR (Completed)			Title: “Studies on characterization and management of leaf crinkle virus infecting blackgram”. (Ongoing, PSF-2011)			Title: “Prevalence, identification and partial characterization of major mosaic viruses infecting ornamental plants in Rawalpindi and Islamabad cities” (Ongoing, PMAS-AAUR-2011)			Title: “Molecular studies on complex of potyviruses Infecting Tomato and Chili Crops in Pakistan”. (Approved , International- starting date 01-12-2012)			Title: “Genetic Variability and molecular characterization of solanaceous viruses in Pakistan”. (Submitted to HEC-2012)	
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<i>Other Research or Creative Accomplishments</i>	<i>List patents, software, new products developed, etc.</i>																		
<i>Selected Professional Presentations</i>	Ashfaq, M., and S. A. MacFarlane. 2011. A pathogenicity protein is encoded among three novel genes carried on RNA2 of TRV isolate SYM. ” 8th Nat. Conf. of Pak. Phytopathol. Soc.,” 28-29 November, 2011, University of Agriculture Faisalabad, Pakistan Ashfaq, M., M. A. Khan, N. Javed and M. Shahid. 2008. Changes in the activities of antioxidants in suceptible and resistant culivars of blackgram due to urdbean leaf crinkle virus infection.” Intl. Conf. Plant Scientists”. 21-24 April, 2008, University of Agriculture Faisalabad, Pakistan:																		



Faculty Resume

Name	Dr. Farah Naz																		
Personal	Department of Plant Pathology University of Arid Agriculture, Rawalpindi, Pakistan Ph: 92-51-9062626, Cell 92-300-5075319 Email: nazfrh@yahoo.co.uk farahnaz@uaar.edu.pk																		
Experience	List current appointment first, each entry as follows: <i>Date, Title, Institution.</i> 2003-2006 Research Associate PMAS-AAUR 2007-2010 Lecturer PMAS-AAUR 2010-todate Assistant Professor PMAS-AAUR																		
Memberships	<i>Life time member "Pakistan Botanical Society"</i> <i>Life time member "Pakistan Phytopathological Society"</i>																		
Graduate Students Postdocs Undergraduate Students <i>Honour Students</i>	<table border="1"> <thead> <tr> <th>Years</th><th>Degree</th><th>Name</th></tr> </thead> <tbody> <tr> <td>2010</td><td>MSc. Hons.</td><td>M. Irfan</td></tr> <tr> <td>2010</td><td>MSc. Hons.</td><td>Ayesha Irfan</td></tr> <tr> <td>2011</td><td>MSc. Hons.</td><td>Kashif Riaz</td></tr> <tr> <td>2011</td><td>MSc. Hons.</td><td>Shazia Shahzaman</td></tr> <tr> <td>2012</td><td>MSc. Hons.</td><td>Sania Shaukat</td></tr> </tbody> </table>	Years	Degree	Name	2010	MSc. Hons.	M. Irfan	2010	MSc. Hons.	Ayesha Irfan	2011	MSc. Hons.	Kashif Riaz	2011	MSc. Hons.	Shazia Shahzaman	2012	MSc. Hons.	Sania Shaukat
Years	Degree	Name																	
2010	MSc. Hons.	M. Irfan																	
2010	MSc. Hons.	Ayesha Irfan																	
2011	MSc. Hons.	Kashif Riaz																	
2011	MSc. Hons.	Shazia Shahzaman																	
2012	MSc. Hons.	Sania Shaukat																	
Service Activity	<i>List University and public service activities.</i>																		

<i>Brief Statement of Research Interest</i>	Fungal biology, fungal plant pathology, genetic variation in plant pathogenic fungi, soil-borne diseases, on-farm participatory research, integrated disease management, impact assessment and plant disease diagnosis.
<i>Publications</i>	<i>List publications in standard bibliographic format with earliest date first.</i> Khola Rafique, Awais Rasheed, Alvina Gul Kazi, Hadi Bux, Farah Naz, Tariq Mahmood and Abdul Mujeeb-Kazi. 2012. Powdery mildew resistance in some new wheat amphiploids (2n = 6x = 42) derived from and S-genome diploid progenitors. Plant Genetic Resources, 10(1):1-16 Abid Riaz, J. Nicklin, I. Haque, C.A.Rauf, G.Qadir and Farah Naz. (2012). Toxicity induced by solanapyrone in chickpea shoots and its metabolism through glutathione/ glutathione-s-transferase system. Pak.J. Bot., 44(6) (Accepted) Kishwar Sultana, Chaudhary Abdul Rauf, Abid Riaz, Farah Naz, Gulshan Irshad and Muhammad Irfan Ul-Haque. (2011). Check list of <i>Agarics</i> of Kaghan Valley-I. Pak.J. Bot. 43(3):1777-1787 Farah Naz, C.A.Rauf, I. Ahmad, I.U.Haque and A. Riaz. 2011. Management of black scurf of potato with effective microbes, biological potassium fertilizer(BPF), and <i>Trichoderma harzianum</i>. Submitted (<i>Pak.J. Bot.</i>) Jaleel, S. Farah Naz S.M.Mughal , T. Shakeel,M.I. Haque and M. Ashfaq. 2011. Induction of resistance in potato against potato virus Y by systemic chemicals. Shahzaman S., Farah Naz, M.I.Haque and C.A.Rauf. 2011. Pathogenic variations and characterization of <i>Streptomyces scabies</i> isolates from potato tubers in Rawalpindi District. Submitted (<i>Pak.J. Bot.</i>) Aqsa Aslam, Farah Naz, Muhammad Arshad, Rahmatullah Qureshi and C.A.Rauf. 2010. <i>In vitro</i> antifungal activity of selected medicinal plant diffusates against <i>Alternaria solani</i>, <i>Rhizoctonia solani</i> and <i>Macrophomina solani</i>. Pak.J. Bot., 42(4): 2911 - 2919)

SAR Proforma 9

*Faculty Resume*

<i>Name</i>	DR ABID RIAZ
<i>Personal</i>	Mailing address PMAS Arid Agriculture University, Murree Road, Rawalpindi, 46300, Pakistan E-mail abidriaz@uaar.edu.pk riaz_abid50@hotmail.com Telephone office: +92 9062624
<i>Experience</i>	Jan., 2004 to date Assistant Professor Department of Plant Pathology, PMAS- Arid Agriculture University, Rawalpindi- 46300, Pakistan Dec., 1999 to Dec.2003 Lecturer PMAS- Arid Agriculture University, Rawalpindi- 46300, Pakistan March1996 to November, 1999 Assistant Research officer (Plant Pathology)Agriculture Department. Govt. of the Punjab
<i>Honor and Awards</i>	• Obtained competitive Indigenous Scholarship from Higher education Commission, Pakistan for Ph. D. in 2001. • Got competitive International research support initiative programme (IRSIP) award from HEC, Pakistan in 2004.

	• Obtained Post Doc. Scholarship from Higher education Commission in 2007. • Higher Education Commission approved supervisor for Ph. D. in the area of Plant Pathology(Since 2010)																																	
<i>Memberships</i>	• Life Member of Pakistan Botanical Society • Life Member of Pakistan Phytopathological Society • Member (unopposed) of Academic Council, PMAS- Arid Agriculture University, Rawalpindi • Member Faculty Board, Faculty of Food and Crop Sciences, PMAS- Arid Agriculture University, Rawalpindi																																	
Graduate Students Postdocs Undergraduate Students	List supervision of graduate students, postdocs and undergraduate honors theses showing: <table><thead><tr><th>Years</th><th>Degree</th><th>Name</th></tr></thead><tbody><tr><td>2010</td><td>M.Sc.(Hons.)Agri.</td><td>Muhammad Asad Farooq</td></tr><tr><td>2010</td><td>M.Sc.(Hons.)Agri</td><td>Saira Hina Malik</td></tr><tr><td>2010</td><td>M.Sc.(Hons.)Agri</td><td>Zobia Jabeen</td></tr><tr><td>2010</td><td>M.Sc.(Hons.)Agri</td><td>Shahzad Shakoor</td></tr><tr><td>2010</td><td>M.Sc.(Hons.)Agri</td><td>Faisal saeed</td></tr><tr><td>2011</td><td>M.Sc.(Hons.)Agri</td><td>Adnan Riaz</td></tr><tr><td>2011</td><td>M.Sc.(Hons.)Agri</td><td>Faizan Saeed</td></tr><tr><td>2012</td><td>M.Sc.(Hons.)Agri</td><td>Wahab Nazir</td></tr><tr><td>2012</td><td>M.Sc.(Hons.)Agri</td><td>Farzana Maqbool</td></tr><tr><td>2012</td><td>M.Sc.(Hons.)Agri</td><td>Raees Ahmed</td></tr></tbody></table>	Years	Degree	Name	2010	M.Sc.(Hons.)Agri.	Muhammad Asad Farooq	2010	M.Sc.(Hons.)Agri	Saira Hina Malik	2010	M.Sc.(Hons.)Agri	Zobia Jabeen	2010	M.Sc.(Hons.)Agri	Shahzad Shakoor	2010	M.Sc.(Hons.)Agri	Faisal saeed	2011	M.Sc.(Hons.)Agri	Adnan Riaz	2011	M.Sc.(Hons.)Agri	Faizan Saeed	2012	M.Sc.(Hons.)Agri	Wahab Nazir	2012	M.Sc.(Hons.)Agri	Farzana Maqbool	2012	M.Sc.(Hons.)Agri	Raees Ahmed
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Service Activity	1. Teaching of courses to undergraduate and post graduate classes. 2. Supervision of Ph. D. and M. Sc.(Hons.) Students. 3. Execution of research projects(lab./field trials)																																	
<i>Brief Statement of Research Interest</i>	<i>Aspects related to:</i> 1. Plant disease epidemiology 2. Plant disease management 3. Mycotoxins analysis of agricultural and food products																																	

<i>Publications</i>	1. Sultana, K., C. A. Rauf, A. Riaz, F. Naz, G. Irshad and M. I. Haque. 2011. Checklist of agarics of Kaghan valley. Pak. J. Bot. 43(3): 1777-1787. 2. Shakoor, S., S. Chohan, A. Riaz, R. Perveen, S. Naz, M. A. Mehmood, M. S. Haider and S. Ahmad. 2011. Screening of systemic fungicides and biochemicals against seed borne mycoflora associated with <i>Momordica charantia</i>. Afric. J. Biotech. 10(36) 6933-6940. 3. Ijaz, M., I.U. Haque, C. A. Rauf, F. U. Hasan, A. Riaz and S. M. Mughal. 2011. Correlation between humid thermal ratio and epidemic of <i>Cercospora</i> leaf spot of Peanut in Potohar Pak. J. Bot. 43(4): 2011-2016. 4. Yasmin, T., S. Iqbal, A. Farooq, M. Zubair and A. Riaz. 2011. Prevalence, Distribution and incidence of major sugarcane infecting viruses in NWFP and Punjab. Pakistan Journal of Phytopathology. 23(1): 24-30. 5. Mian Abdur Rahman Arif, Hadi Bux, Alvina Gul Kazi, Awais Rasheed, Abdul Aziz Napar, Abid Riaz and Abdul Mujeeb-Kazi. 2012. Stripe rust analysis of D-genome synthetic wheats (2n = 6x = 42, AABBDD) and their molecular diversity. Archives Phytopath. & Plant Protect. 45 12, 1479-1487 6. Ismail, M., S. A. Anwar and A. Riaz. 2012. Incidence of <i>Meloidogyne incognita</i> in Cucumber Fields. Pakistan J. Zool., 44(5), pp. 1383-1387 7. Riaz A., J. Nicklin., I. Haque, C. Abdur Rauf, G. Qadir and F. Naz..2012. Toxicity induced by solanapyrone and in chickpea shoots and its metabolism through glutathione/ glutathione-s-transferase system. Pakistan J. of Botany. 44 (6) 1339-43. 8. Jabeen. Z., A. Riaz, K.Sultana, A. Ikram, M. Ansar, I. Hassan and I. Ahmad.2012. Incidence of <i>Aspergillus flavus</i> and extent of aflatoxin contamination in peanut samples of Pothwar region of Pakistan.
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	African journal of microbiology6(9):1942-1946. 9. Nazir, W. S. M. Iqbal, M. S. Bhatti, N. Khalid and A. Riaz. 2012. Evaluation of yield parameters and nutritional aspects of different strains of oyster (<i>pleurotus ostreatus</i>) mushroom. J.Chem.Soc.Pak. 34(6) :1491-1497.
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<i>Research Grants and Contracts.</i>	<i>Entries should include:</i> <table><tr><td>Date</td><td>Title</td><td>Agency / Organization</td></tr></table> Total Award Amount Funded and in progress Since March 2012 Surveillance and epidemiology of Wheat head/seed diseases and morphological characteristics of species involved in the parasitic complexes” funded by University of Arid Agriculture Rawalpindi.	Date	Title	Agency / Organization
Date	Title	Agency / Organization		
<i>Other Research or Ceative Accomplishments</i>	-----			
<i>Selected Professional Presentations</i>	- Seminar was delivered on “Disease development mechanism of Ascochyta blight” at Birkbeck University of London in November, 2004. - Delivered lecture on “role of Solanapyrone toxins in Ascochyta blight development” at UAAR in June, 2005. - Delivered lecture about “ mass culturing of entomopathogenic fungus Metarrhizium anisopleae - future prospects” in University of Swansea, Wales, U.K. in 2008. - Read and defended research paper titled “chemical control of Meloidogyne incognita through environment-friendly pesticides Abamectin and Abamectin Benzoate on eggplant cultivar Baigan Xlangzue-6” in 31st congress of zoology (international) held on 19-21st april, 2011 at muzaffarabad, azad jammu & kashmir			



SAR Proforma 9

Faculty Resume

<i>Name</i>	<i>Prof. Dr. Abdul Rauf</i>												
<i>Personal</i>	Professor/Chairman Department of Plant Pathology PMAS - Arid Agriculture University, Shamsabad, Rawalpindi, Pakistan Tel: +92-51-9290239 Fax: +92-51-9290461 Email: abdul.rauf@uaar.edu.pk												
<i>Experience</i>	<table border="1"> <thead> <tr> <th>Date</th><th>Title</th><th>Institution</th></tr> </thead> <tbody> <tr> <td>June 14, 2012 to date</td><td>Chairman, Department of Plant Pathology</td><td>PMAS-Arid Agriculture University, Rawalpindi</td></tr> <tr> <td>January 5, 2008 to date</td><td>Professor, Department of Plant Pathology</td><td>PMAS-Arid Agriculture University, Rawalpindi</td></tr> <tr> <td>December 4, 2004 to January 5, 2008</td><td>Associate Professor, Department of Plant Pathology</td><td>PMAS-Arid Agriculture University, Rawalpindi</td></tr> </tbody> </table>	Date	Title	Institution	June 14, 2012 to date	Chairman, Department of Plant Pathology	PMAS-Arid Agriculture University, Rawalpindi	January 5, 2008 to date	Professor, Department of Plant Pathology	PMAS-Arid Agriculture University, Rawalpindi	December 4, 2004 to January 5, 2008	Associate Professor, Department of Plant Pathology	PMAS-Arid Agriculture University, Rawalpindi
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December 4, 2004 to January 5, 2008	Associate Professor, Department of Plant Pathology	PMAS-Arid Agriculture University, Rawalpindi											

	Sept 01, 1989 to December 3, 2004	Assistant Professor, Department of Plant Pathology	PMAS-Arid Agriculture University, Rawalpindi
	May 20, 1989 to August 31, 1989	Assistant PlantPathologist	Barani Agri. Research Institute, Chakwal
	July 10, 1988 to May 20, 1989	Lecturer, Department of Plant Pathology	Barani Agricultural College, Rawalpindi
	September 4, 1986 to July 9, 1988	Research Officer, Plant Pathology	Barani Agri. Research Institute, Chakwal
<i>Honor and Awards</i>	<u>ADMINISTRATIVE RESPONSIBILITIES</u> - Started postgraduate program in the Department of Plant Pathology, University of Arid Agriculture, Rawalpindi, during 1996 and supervised 1st eight students who successfully completed their M.Sc. (Hons.) in Plant Pathology. - Strengthening and upgrading of laboratory facilities by running Pakistan Science Foundation, Islamabad, funded projects. - Longest stay and service in the history of Department of Plant Pathology, University of Arid Agriculture,		

	Rawalpindi (1994 to-date), previously Barani Agricultural College, Rawalpindi (1988-1993) in various capacities.																																
Memberships	Memberships ▪ Life Member, Pakistan Phyto-pathological Society, University of Agriculture, Faisalabad ▪ Life Member, Pakistan Society of Nematologists, University of Karachi, Pakistan ▪ Canadian Phyto - pathological Society ▪ Mycology and Plant Pathology Society of Pakistan, University of the Punjab, Lahore ▪ Founder Member, Crop Protection Association of Pakistan, Islamabad.																																
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1	2011	M.Sc (Hons.) Agri. Plant Pathology		Wahab Nazir
2	2011	//		Hira Ghazal
3	2011	//		Kashif Nazeer
4	-	//		Asia Kanwal
5	-	//		Khadija Arif
6	2012	//		Sania Shaukat
7	-	//		Maqbool Hussain

<i>Brief Statement of Research Interest</i>	<u>RESEARCH PRIORITIES</u> ▪ Fungal biology, ▪ Fungal plant pathology, ▪ Genetic variation in plant pathogenic fungi, ▪ Soil-borne diseases, on-farm participatory research, ▪ Integrated disease management, impact assessment and plant disease diagnosis.
<i>Publications</i>	1. Ziaullah, H. M., M. I. Haque, C. A. Rauf, H. Akhtar, and M. Munir. 2012. Comparative virulence in isolates of <i>Tilletia indica</i> and host resistance against karnal bunt of Wheat. JAPS 22 (2): 467-472. 2. Abbas, M. F., S. Hameed, C. A. Rauf, Q. Nosheen, A. Ghani, A. Qadir and Sheznaz Zakia. 2012. Incidence of six viruses in potato growing areas of Pakistan. <i>Pak. J. Phytopathol.</i> 24 (1): 44-47. 3. Sultana, K., C.A. Rauf, A. Riaz, F. Naz, G. Irshad and M. I. Haque. 2011. Checklist of agarics of Kaghan Valley. <i>Pak. J. Bot.</i>, 43(3):1777-1787. 4. Ijaz, M., M.I. Haque, C.A. Rauf, Fayyaz-ul-Hassan, A. Riaz, and S.M. Mughal. 2011. Correlation between humid thermal ratio and epidemics of cercospora leaf spot of peanut in pothwar. <i>Pak. J. Bot.</i>, 43(4):2011-2016. 5. Aslam, M., F. Naz, M. Arshad, R. Qureshi and C. A. Rauf. 2010. <i>In vitro</i> antifungal activity of selected medicinal plant diffusates against <i>Alternaria solani</i>, <i>Rhizoctonia solani</i> and <i>Macrophomina solani</i>. <i>Pak. J. Bot.</i>, 42(4): 2911-2919. 6. Afzal, S. N., M.I. Haque, A. Rauf, I. Ahmad and S. S. Firdous, 2010. Vulnerability of Pakistani wheat (<i>Triticum aestivum</i> L.) varieties against stripe rust under rain-fed climate of the northern Punjab and NWFP. <i>Pak. J. Bot.</i> 42(3): 2029-2042. 7. Farah, N., S. Shahzaman and C. A. Rauf. 2012. Pathogenic Variations and Characterization of <i>Streptomyces scabies</i> isolates from potato tubers in

	Rawalpindi District. <i>Environmental Science and Technology B.</i> (accepted)		
<i>Research Grants and Contracts.</i>	Date	Title	Agency/Organization
	(1997-2000) completed	Biology and Management of Black Scurf of Potato	Pakistan Science Foundation, Islamabad
	(2002-2003) completed	Epidemiology and Management of <i>Rhizoctonia</i> Stem Canker of <i>Solanum tuberosum</i> L.	University of Arid Agriculture, Rawalpindi
	(2003-2006) completed	Management of Black Scurf of Potato	Pakistan Science Foundation, Islamabad
	(2011 –2013) In progress	Disease mapping and characterization of lentil wilt pathogen in Pakistan	Pakistan Science Foundation, Islamabad
	Grant amount =32 lacs		
<i>Other Research or Creative Accomplishments</i>	-		
<i>Selected Professional Presentations</i>	Investigations on <i>Fusarium</i> Wilt of Lentil. Sixth Canadian Pulse Research Workshop organized by Department of Plant Sciences, University of Saskatchewan, Hilton Garden Inn, Saskatoon, Nov 1-3, 2006, Canada.		