

PIR MEHR ALI SHAH
ARID AGRICULTURE UNIVERSITY
RAWALPINDI



Self-Assessment Report
DOCTOR OF VETERINARY MEDICINE (DVM)
2012-2014

Faculty of Veterinary and Animal Sciences

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INTRODUCTION

Livestock and poultry raising in Pakistan are one of the biggest industries and an integral part of the rural economy contributing significantly to the agriculture and the national GDP. The various types of livestock existing in the country provide farm supplies with food, draft power, fuel and fertilizer. These animals also provide regular income and employment, particularly for small farmers and landless labourers. Without livestock it would not have been possible to profitably utilize the crop residues, stubbles, roadside and scattered vegetation on rangelands including hilly and sub-hilly areas in the country. Keeping in mind the marvelous role of livestock in the economy of the country, the Faculty of Veterinary & Animal Sciences started functioning in 2006. Presently, the Faculty is offering core courses to the students of Doctor of Veterinary Medicine (DVM) and a supporting course to B.Sc. (Hons) Agriculture.

The Faculty of Veterinary & Animal Sciences comprised of five departments namely, Department of Livestock Production and Management, Clinical Sciences, Biomedical Sciences, Poultry Sciences & Pathobiology. The programs of these departments are designed to provide students with basic and applied knowledge for a strong foundation in veterinary and animal sciences that emphasizes the application of fundamental principles of veterinary study. The curriculum of these departments highlights the emerging techniques of animal and veterinary sciences. Moreover, the departments are committed to quality teaching and research. The departments are regularly revising and updating its curriculum keeping in view the latest developments in the field of veterinary and animal sciences. The departments are offering variety of courses, the contents of which are at par with the likely courses offered by other international universities. These courses are taught in a way to enhance students' professional skills. The faculty is also engaged in research projects.

The Self Assessment Report (SAR) is based on eight criteria. The first criterion outlines the program mission and objectives. Criterion-2 provides information about the curriculum development. Criterion-3 enlists the laboratories and other relevant information. The fourth criterion is pertinent to the information about students' support and advising. The last four criteria provide information about process control, faculty characteristics and institutional facilities and support provided by the university.

Criterion 1: Program Mission, Objectives and Outcomes

Criterion 1: Program Mission, Objectives and Outcomes

The self-assessment is based on a number of criteria. To meet each criterion several standards must be satisfied. This section describes how the standards of the Criterion 1 are met.

Standard 1-1: The program must have documented measurable objectives that support institution mission statements.

The overall goal of the Faculty of Veterinary and Animal Sciences (FV&AS) is to produce trained manpower and to assist in poverty alleviation through motivation for creation of opportunities for generating and increasing income within the micro-, small-, medium and large-scale livestock farming. Furthermore, the FV&AS will also contribute towards food security and treatment facility.

Mission Statement of the Program

To build concepts of the subject through high quality class teaching, work in the laboratory, clinics and at livestock farms and to train individuals in the field of Livestock Production, Clinics, Pathobiology and Poultry Sciences.

Program Objectives

The program objectives are as under:

1. To provide students with basic and applied knowledge for a strong foundation in Veterinary and Animal Sciences that emphasizes the application of fundamental principles of livestock production and health.
2. To fulfill the educational needs of students by educating them on issues facing livestock farming, health and to provide students with skills to be competent and enter into the practical life well prepared with hand on knowledge and expertise in the areas of Veterinary and Animal Sciences.
3. To provide students with knowledge relevant to animal farming practices that includes awareness in areas of animal welfare and ethical aspects related to care and use of animals in research, the role and impact of livestock farming on the society and environment.

Main elements of strategic plan to achieve mission and objectives

- Development, strengthening and implementation of a sound teaching system based on the knowledge, expertise and vision gathered from world reviews, literature, innovations, proceedings, symposia etc, for the award of degree.
- Scheming and regularly updating the curricula involving core and elective subjects, field demonstrations, study trips and internship programs.
- Establishing and strengthening well equipped specialized research laboratories to conduct research.
- Post-graduate research including special problems, research reports and dissertation.

- Publication of review papers, popular articles and scientific papers in well reputed journals of national and international repute. In line with research publications, authoring and editing of books, monographs and laboratory manuals.
- Execution of research projects funded by the universities and other agencies.
- Provocation of linkages with national and international research organizations to solve indigenous problems of livestock sector.

PROGRAM OBJECTIVES ASSESSMENT

The assessment of program objectives through different criteria is presented in Table. 1

Table 1: Program objectives assessment

S. #	Objective	How Measured	When Measured	Improvement Identified	Improvement made
1	To impart basic and the applied knowledge to the graduate students	Background information and status of knowledge of students through entry tests and students feed back	It is continuous process as per requirement	Some basic courses need to be included in the curriculum	Revision of curriculum as per requirement on international standards
2	Fore see the new lines of education and areas of research	Through surveillance of issues of livestock industry, judging manpower, communication to evaluate farmers opinions	Regular feature	Latest subjects should be incorporated in syllabus, to study the new challenges	Endorsement of new syllabus to incorporate modern techniques
3	To equip students with communication skills and professionalism	Presentations	Class discussion after the presentation	Presentations and seminars	Putting forward the innovative ideas to conduct future research

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 outcomes.

Program Learning Outcomes

Degree of skills and capabilities that will reflect on student's performance as animal production scientists:

1. Students shall possess discipline specific knowledge in major areas of study including animal production, health and clinical services.
2. Students shall have the ability to identify and resolve the problems related to livestock farming and poor animal productivity by designing an appropriate line of action to the identified issue(s).
3. Students shall possess the ability to analyze problems relevant to animal health, feed and fodder resources, critically evaluate information and utilize scientific principles of animal production and health to formulate solutions.
4. Students shall be able to optimize nutrient utilization and have skills to use computer software(s) for least cost balanced feed formulation.
5. Students shall be able to analyze the health issues of animals and able to diagnose and treat animal ailments.
6. Students shall have an ability to integrate farm management to optimize the use of all farm resources for optimum animal productivity and to develop animal production systems that are sustainable and either maintain or enhance our environment and renewable resources.
7. Students shall be aware of the ever-changing demands of livestock production followed by meeting the demands.

The relationship between program outcomes and objectives are given in Table 2.

Table 2: Relationship between program objectives and program outcomes

Program objectives	Outcomes						
	1	2	3	4	5	6	7
1	+++	+++	++	+	++	+	+++
2	++	+	+	+++	+++	+++	+++
3	+	++	++	+	++	+++	++

+ = Moderately satisfactory, ++ = Satisfactory, +++ = Highly satisfactory, Blank cell= No contribution

PROGRAMME OUTCOME MEASUREMENT

For program's evaluation, especially from view point of achievements of objectives, assessment was made through prescribed proforma provided by the Quality Enhancement Cell (QEC), Pir Mehr Ali Shah, Arid Agriculture University.

PROGRAM ASSESSMENT RESULTS

Teacher's Evaluation (Fall-2012 & Fall 2013)

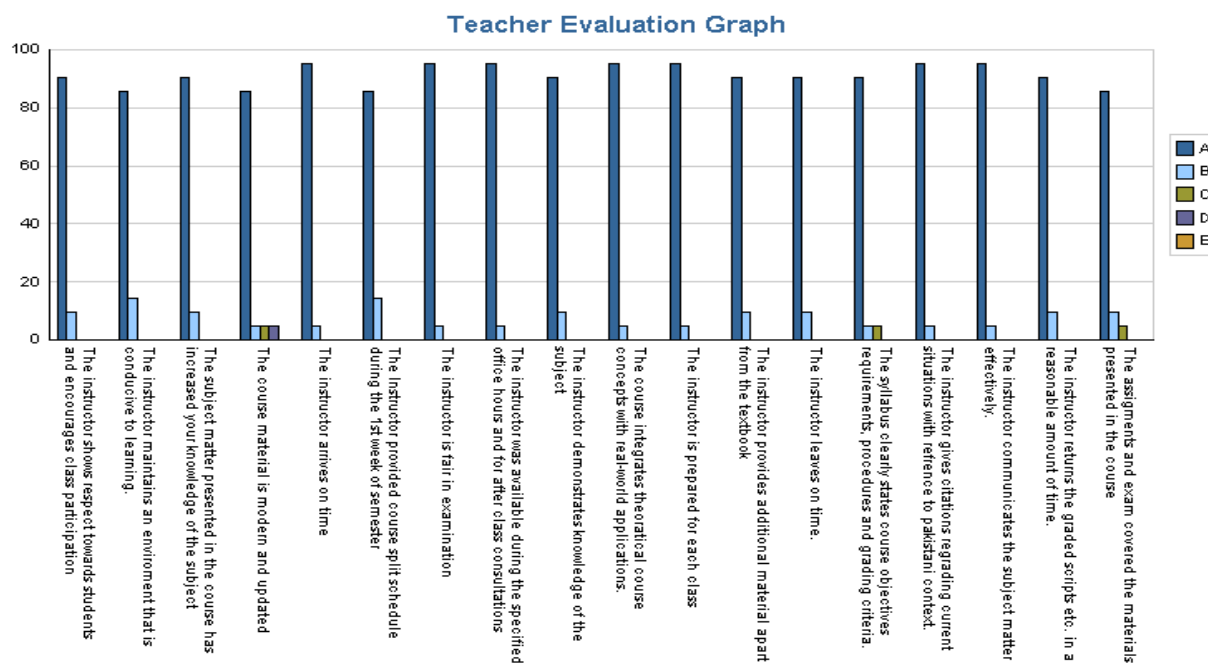
Teacher's performance was assessed through students' comments on prescribed evaluation Performa. This evaluation was done for different courses of the individual teachers filling in Performa 10 through Campus Management System.

Fall-2012

The seven teachers in the department numbered from 1-7 were evaluated during Fall, 2012. The names of the teachers along their allotted numbers are Prof. Dr. Arshad Iqbal (1), Dr. Tanveer Ahmad (2) Dr. Farooq Iqbal (3), Dr. Muhammad Moaen-ud-Din (4), Dr. Muhammad Fiaz (5), Hafiz Muhammad Waheed (6). The details of evaluation are given in the preceding paragraphs.

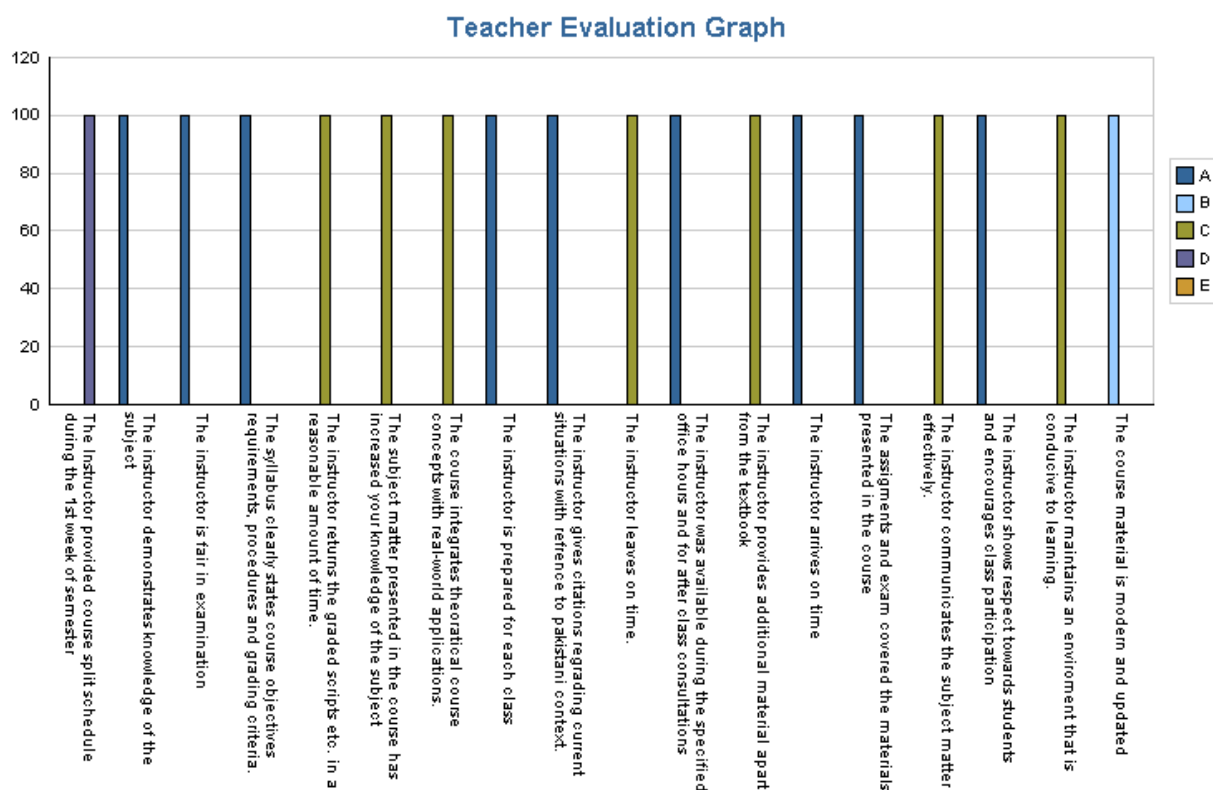
Teacher 1

The graph showed that over 95% students graded excellent, very good, good, and fair in all parameters, respectively. The overall performance of teacher was excellent. More than 80% students reported that the teacher communicates the subject matter effectively. Likewise, the class was happy that teacher encouraged student participation. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



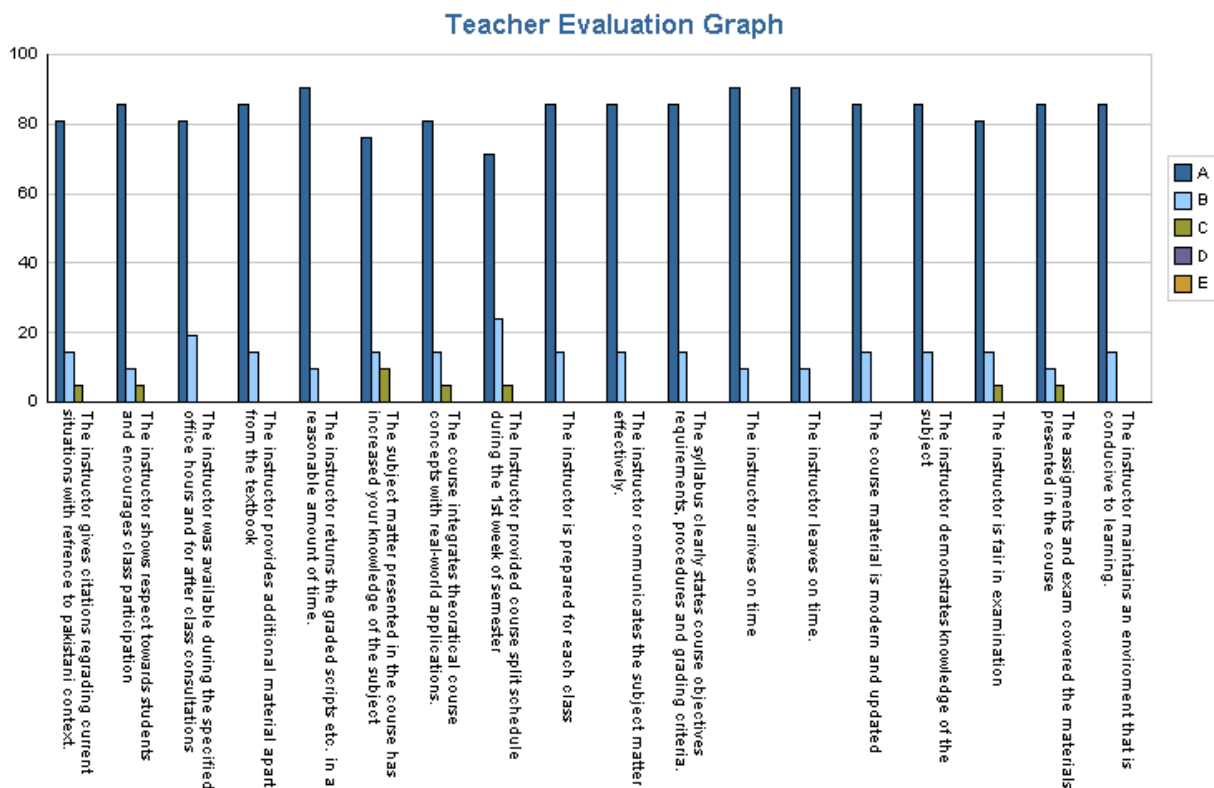
Teacher 2

The graph showed that 100, 100, 100, & 100 students graded excellent, very good, good, fair in all parameters, respectively. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes. The teacher evaluation graph showed that 100% students appreciated teacher efforts. He was fair, up to date, and regular and provided knowledge. The teacher attended students every student regarding subject matter and encouraged student participation.



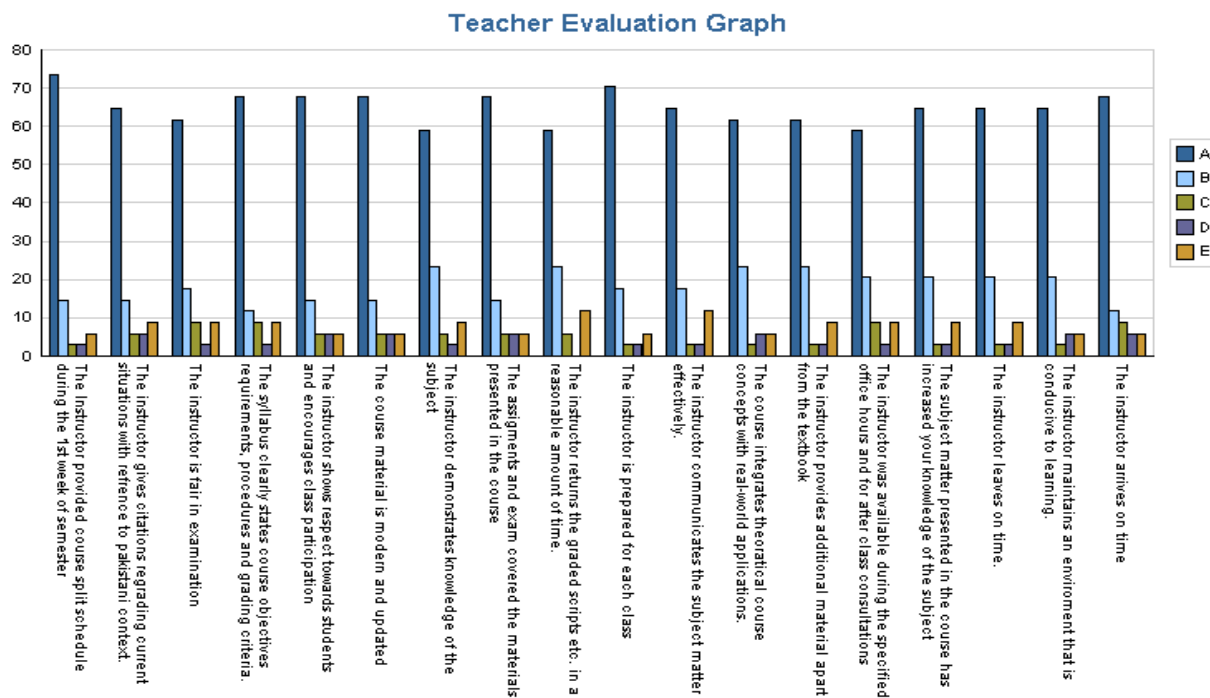
Teacher 3

Results indicated that 100% students graded excellent, very good, good, and fair in all parameters, respectively. Teacher communicated knowledge and organized the course through provision of relevant material and assignments. He was fair in exams and classes. He was always available during official time for student guidance and showed friendly behaviour. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



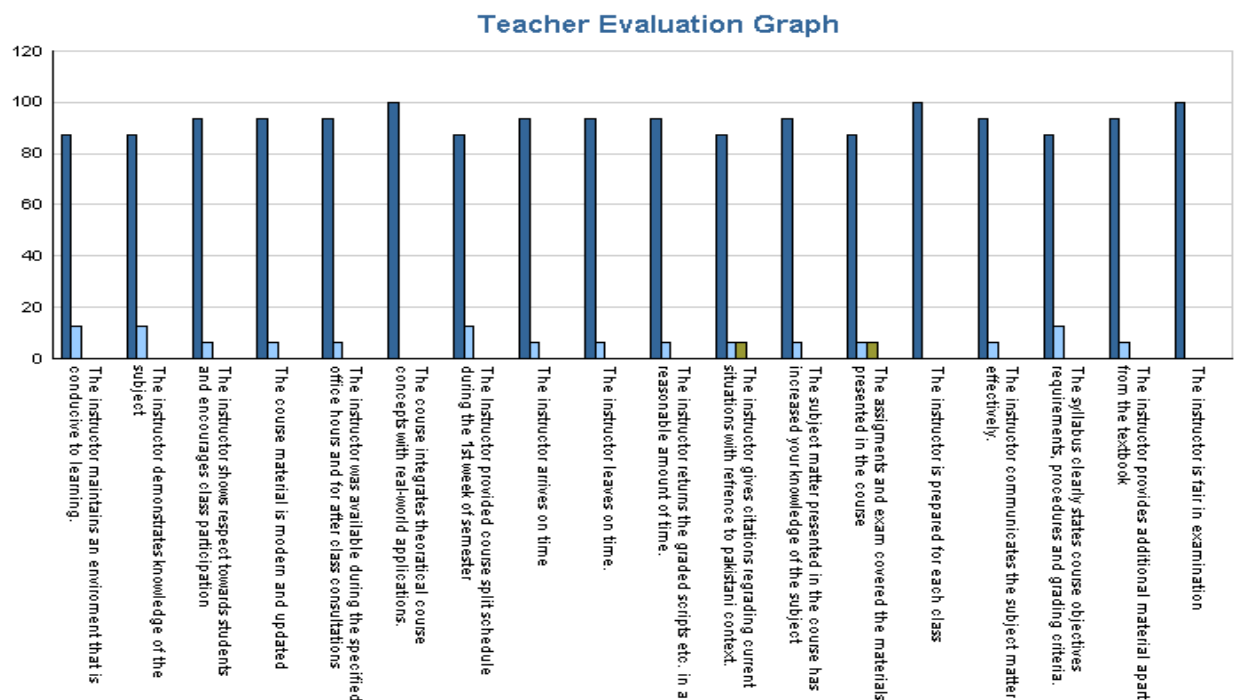
Teacher 4

The graph showed that above ≥ 60 , ~ 20 , 05 , < 4 & $\sim 10\%$ students graded excellent, very good, good, fair and poor in all parameters, respectively. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes. Teacher evaluation graph showed that 60% of the class appreciated that teacher was punctual and leave the class in time. He presented very well and tackled all queries raised by students. He was very humble and tried his best to solve the problems of students.



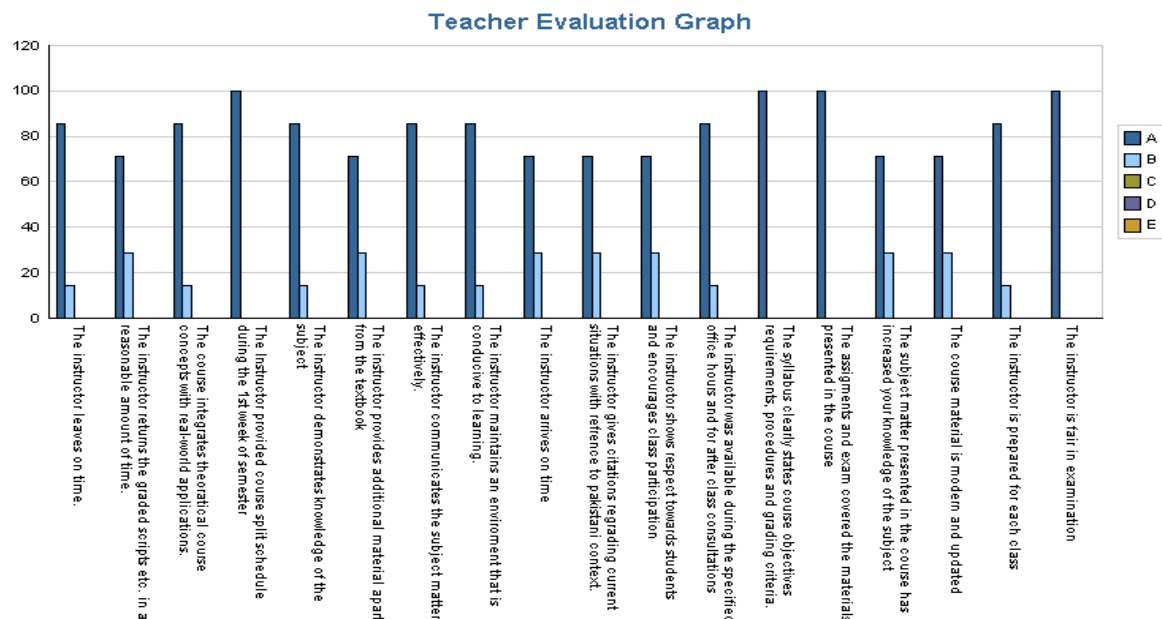
Teacher 5

The graph indicates that more than 80% students graded excellent, very good, good, fair all parameters, respectively. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes. More than 85% of students enrolled in the course appreciated that teacher was very good in dissemination of knowledge and communicated introduction of modern and innovative techniques. The instructor was well experienced and encouraged students participation. He responded well to questions/queries raised by students. The course material given was as per requirement of the course.



Teacher 6

Results regarding course evaluations are mentioned in the graph given below. The graph showed that 100% students graded excellent and very good in all parameters, respectively. The instructor remained fair with students while conducting course. He was regular and capable to transmit knowledge. The teacher showed friendly behaviour to all enrolled students in the class. He gave time to the students even after classes. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.

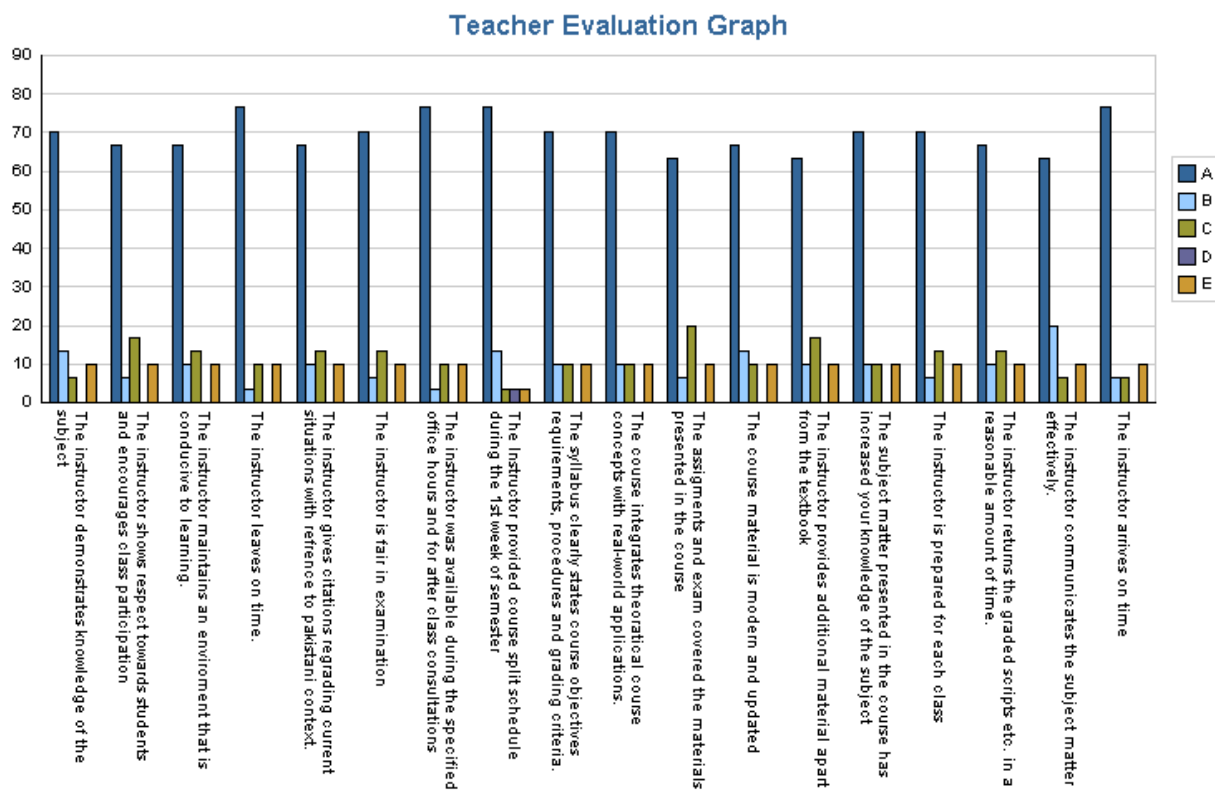


Fall 2013

The seven teachers in the department numbered from 1-7 were evaluated during Fall, 2012. The names of the teachers along their allotted numbers are Dr. Tanveer Ahmad (1) Dr. FarooqIqbal (2), Dr. Muhammad Moaeen-ud-Din (3), Dr. Muhammad Fiaz (4), Dr. Ghulam Bilal (5) Hafiz Muhammad Waheed (6). The details of evaluation are given in the preceding paragraphs.

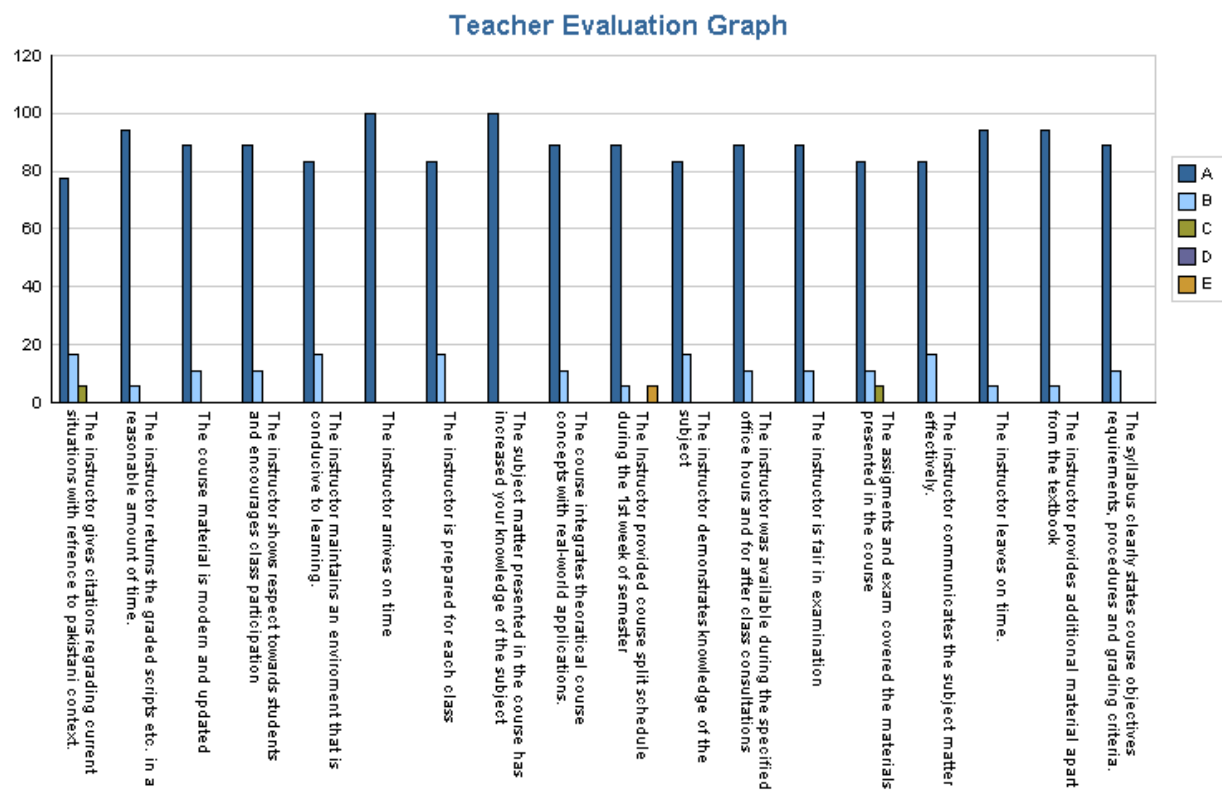
Teacher 1

The graph showed that over 60, 5-10, ≥ 10 , $\sim 10\%$ students graded excellent, very good, good, fair, and poor in all parameters, respectively. The teacher evaluation graph showed that 70% of the class was satisfied with the performance of teacher. He was regular and delivered good presentations. His knowledge and concepts about the subject were up to the mark. The course material given by teacher was relevant and satisfactory. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



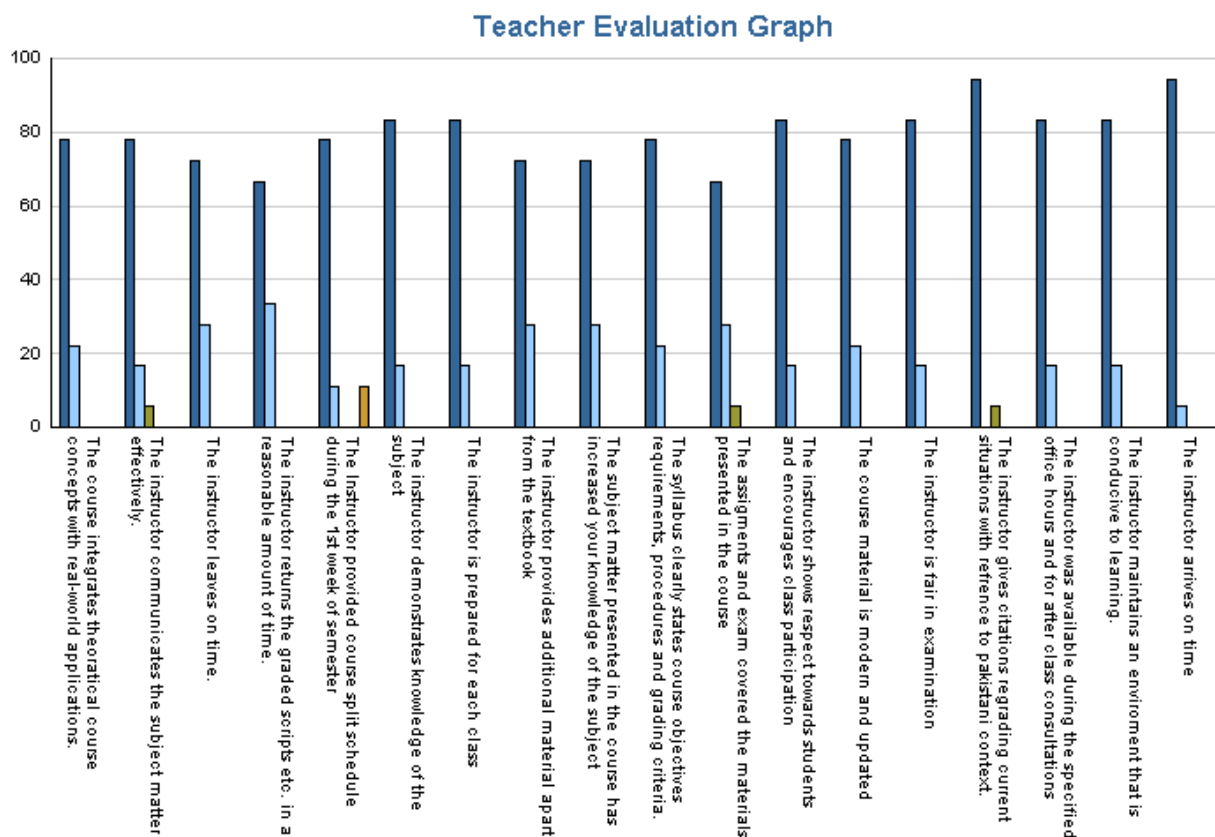
Teacher 2

The Results showed that almost 99% students graded excellent, very good, good, and fair in all parameters, respectively. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes. It is depicted that the teacher was very clear in concepts and conveyed good knowledge with appropriate helping material. He was regular and showed respect to students while interacting either in lab or class. The questions were well responded with patience.



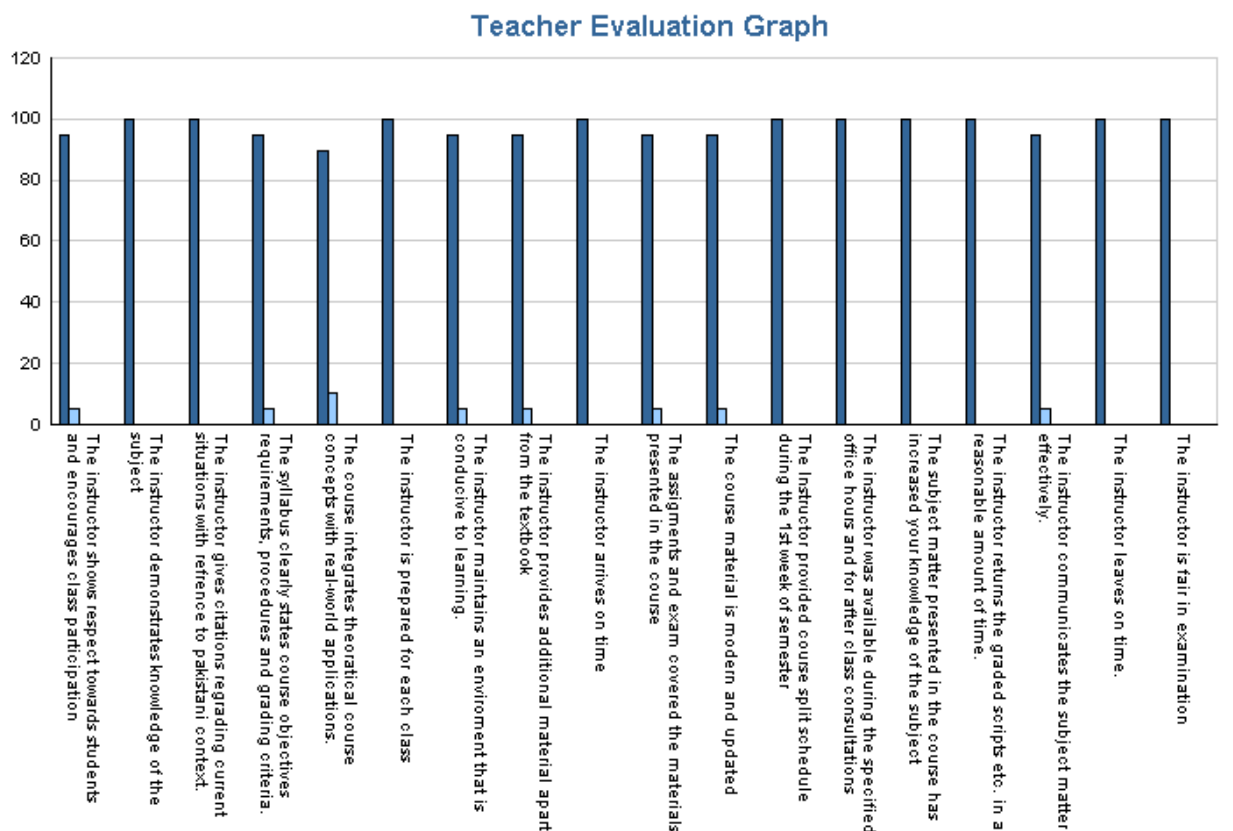
Teacher 3

It is shown in the graph that 80% of students in the class appreciated the efforts made by teacher for enhancing the knowledge and skills of class participants. Teacher delivered positively and satisfied students in their queries and tackled all problems of students raised during the course. The practical work was addressed by the teacher. Few students complained that the instructor did not provide split schedule for classes



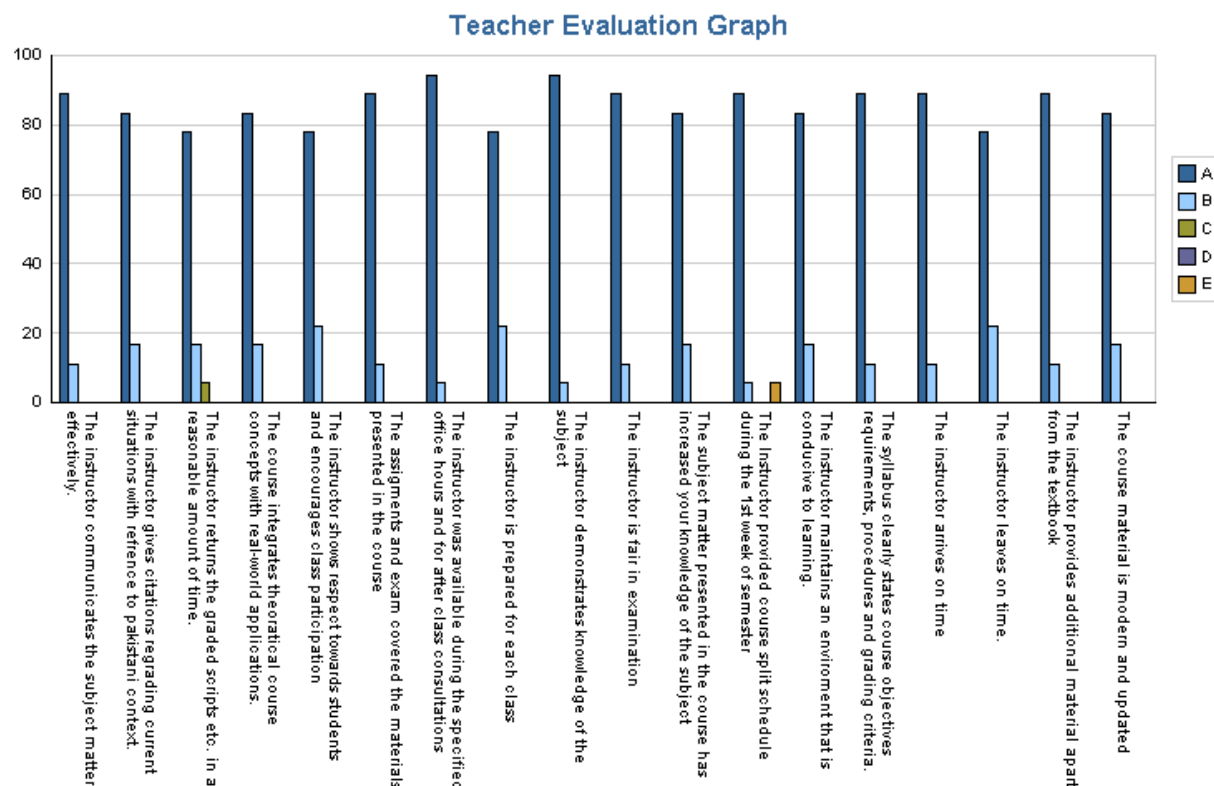
Teacher 4

Results regarding course evaluations are mentioned in the graph given below. The graph showed that over 90% of students graded excellent, very good and good in all parameters. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes. More than 90% of students enrolled in the course appreciated that teacher was very good in dissemination of knowledge and communicated introduction of modern and innovative techniques. The instructor was well experienced and encouraged students participation. He responded well to questions/ queries raised by students. The course material given was as per requirement of the course.



Teacher 5

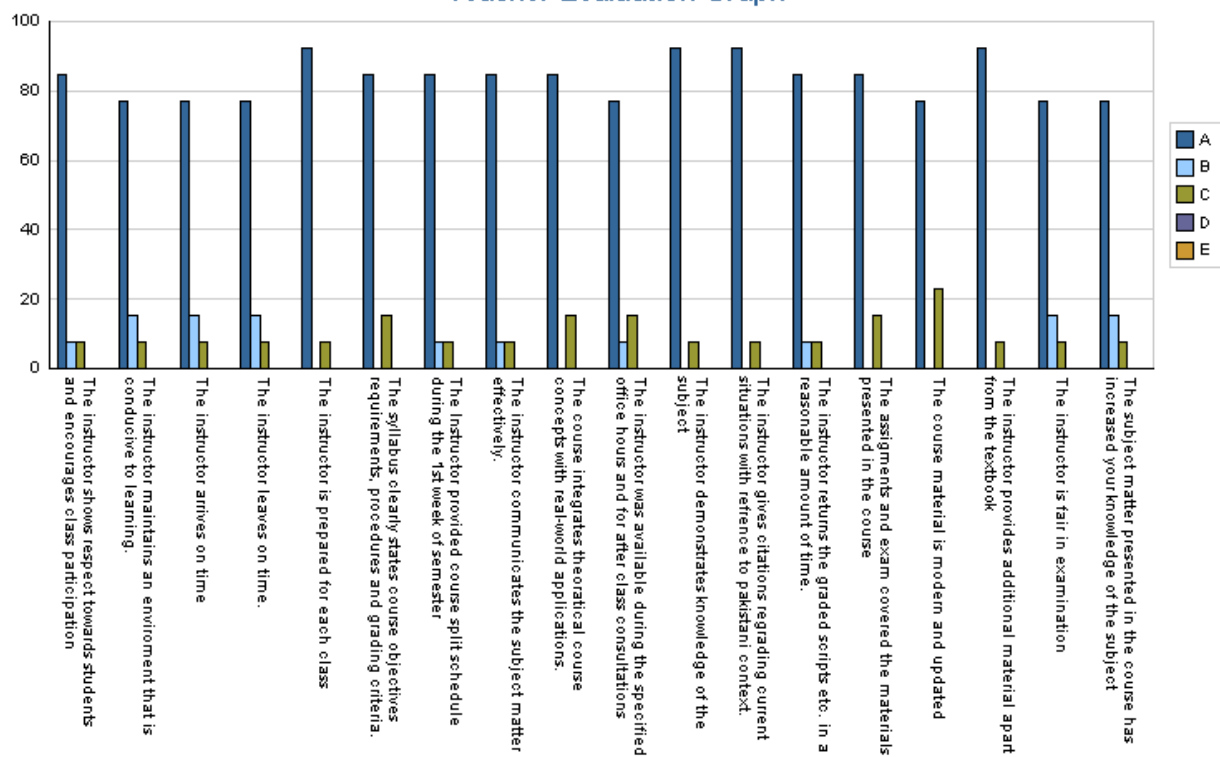
It was noted that over 95% students graded excellent, very good, good, and fair in all parameters, respectively. Overall the teacher evaluation is excellent as indicated that more than 80% of the students strongly agreed with all of the evaluation criteria. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



Teacher 6

The graph showed that 100% students graded excellent, very good, and good in all parameters, respectively. The teacher was good and demonstrated adequate knowledge with citations. He was well organized and punctual teacher. He showed good attitude towards students. The students were happy with teaching method for their better understanding and learning new knowledge. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.

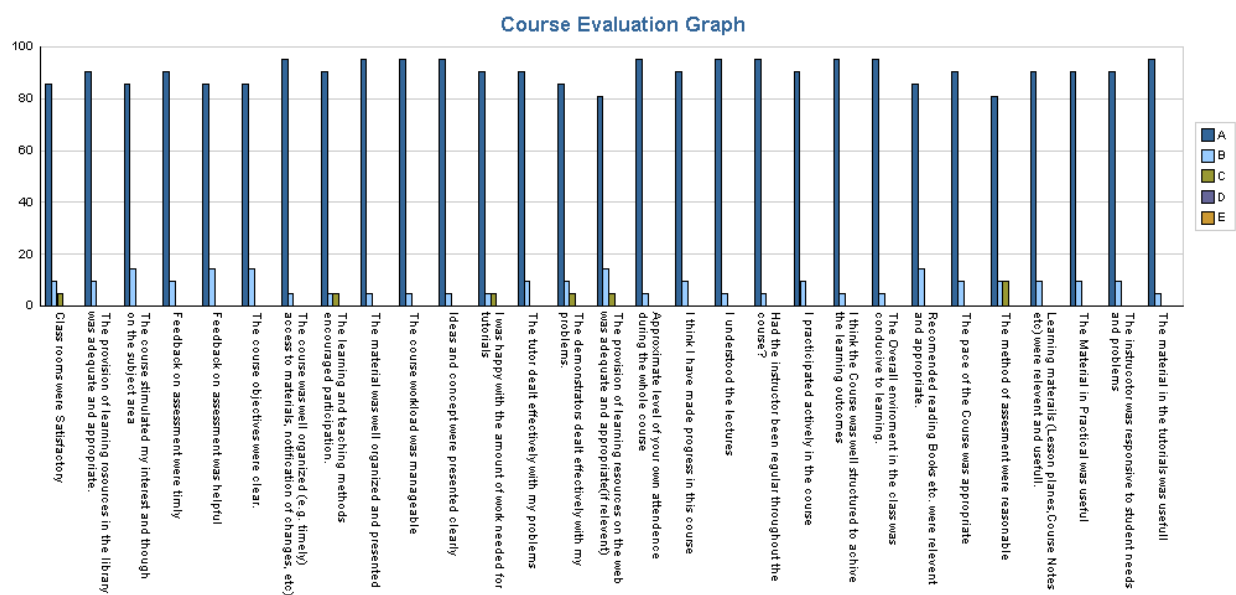
Teacher Evaluation Graph



Courses Evaluation (Fall 2012)

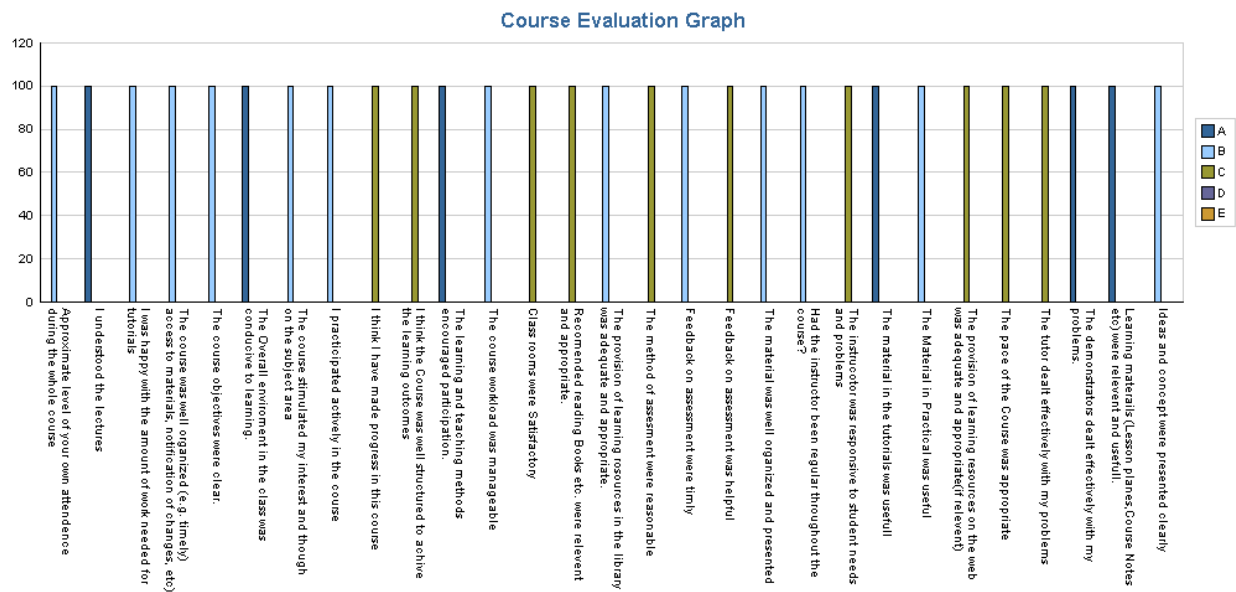
Course ABG-301

Results regarding course evaluations are mentioned in the graph given below. The graph showed that 80% of the students strongly agreed with clearness of course objectives and students stated that the course workload was manageable and overall 90% students have made progress in the course. Likewise, over 90% students agreed that the course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear were claimed by more than 80% of students. Moreover a high percentage agreed that the learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



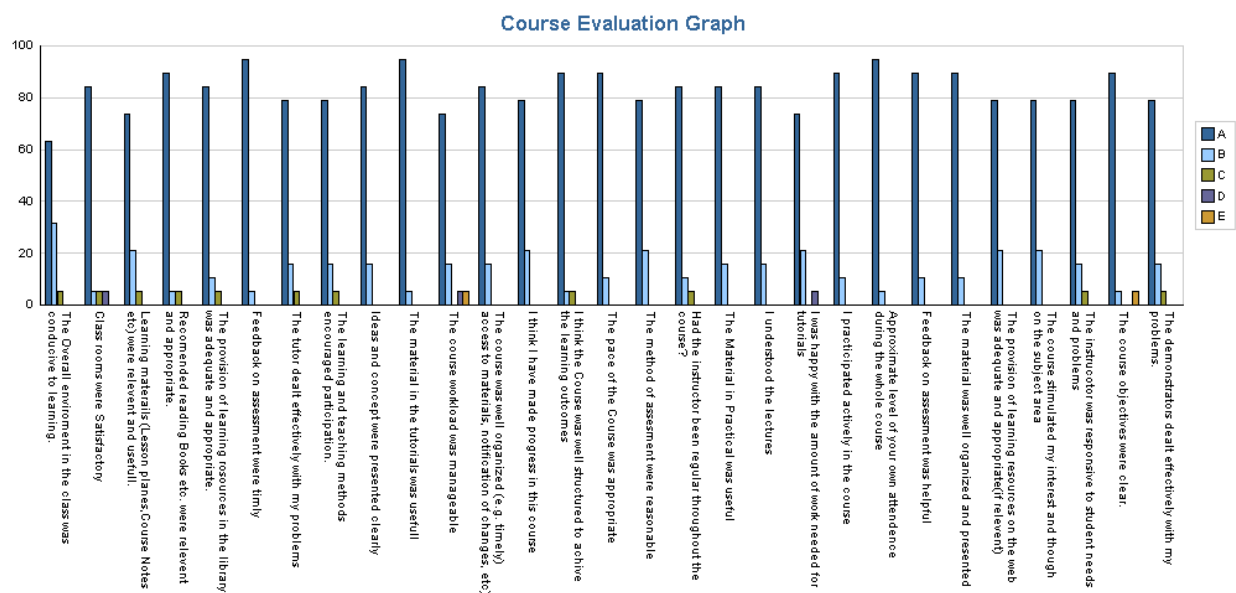
AN-201

The graph provided below shows the progress during the course. The course evaluation graph showed that the course material was adequate and present in excellent manner. The course was well organized by the teacher who was regular in classes. The 100% students reported that student participation in the course was encouraged. All students appreciated organization of the course. Maximum students participated actively in the course. Ideas and concepts were clearly presented.



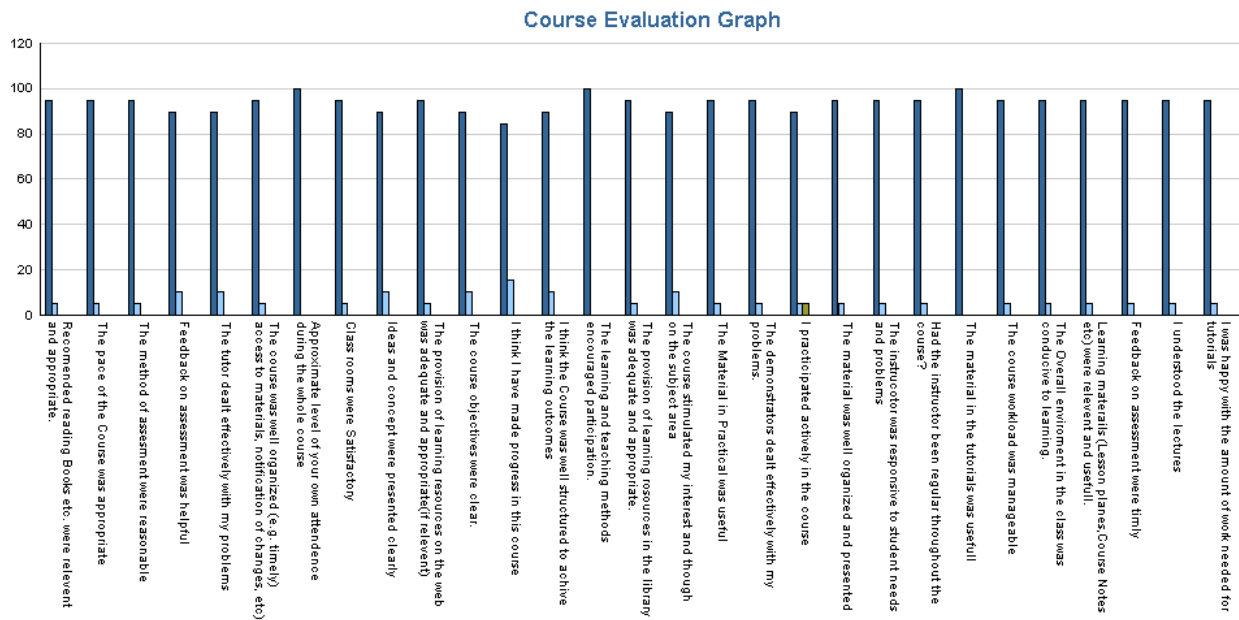
AN-301

The said course was taught by Dr. MFI during fall 2013. The stats about course evaluation are provided below in the graph. The course was well organized and presented by the teacher in such a way that students availed opportunities to learn and comprehend. The workload was well managed and executed in time. Recommended books were relevant for enhancing knowledge. The feedback on assessment was timely in opinion of majority of students. The pace of the course was appropriate. 90% students stated that the objectives of the course were clear. 80% students stated that the course stimulated their thought and interest in the subject. 5% students criticized the environment in the class. Additional 5% students questioned the objectives of the course.



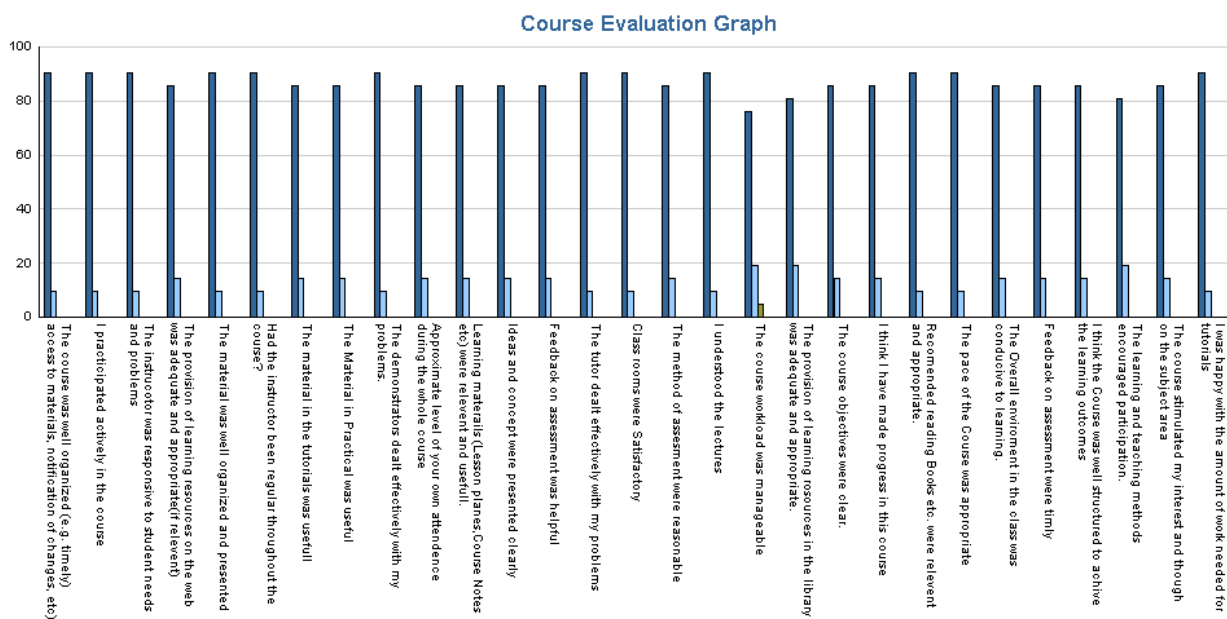
LM-101

The course evaluation graph depicted that 90% of students enrolled were agreed with the course aim and objectives. The learning material was very good for this introductory course. It was well organized and delivered as per required. The method of assessment and instruction was also very good enough. Students participated well and their problems were solved. The course was very helpful for students in enhancing their basic knowledge about livestock. The course stimulated their thought and interest in the relevant field.



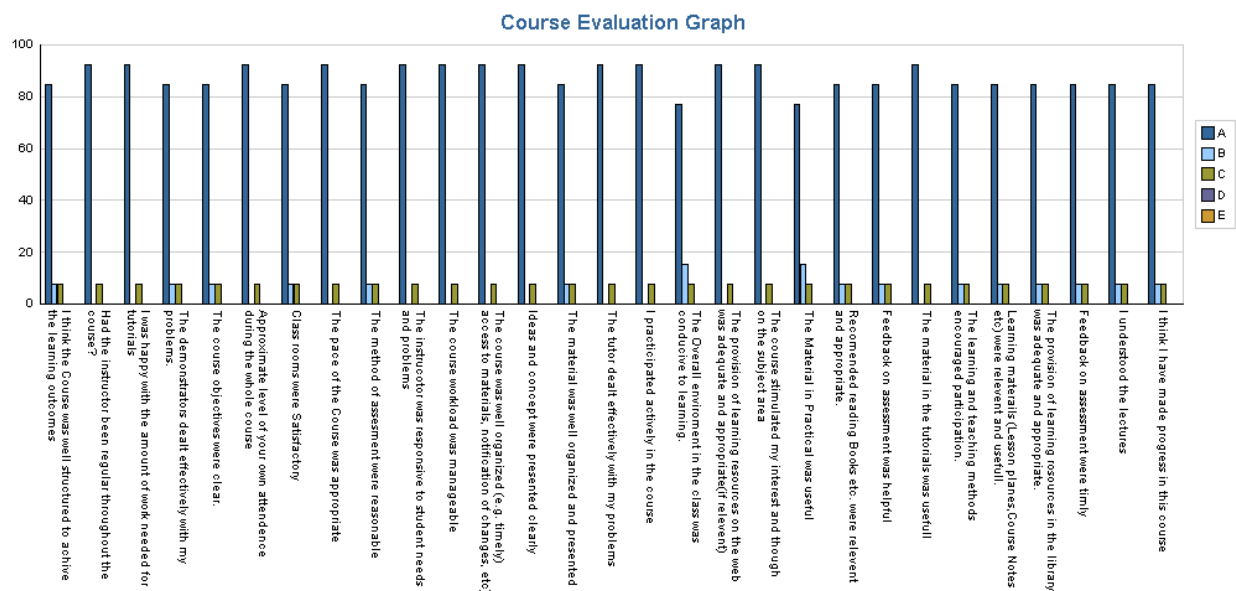
LM-301

The said course was taught by Dr. MF during fall 2013. The course evaluation graph depicted that 85% of students were satisfied with material, contents and amount of work. It was well organized and the environment given was very conducive to the learning. Most of students participated actively in the assignments given and practicals. The pace was appropriate and course was demonstrated effectively. The learning material given enhances the knowledge and practical capabilities of students. The course was very practical oriented and was delivered well. The course stimulated students thought on the relevant field.



LM-401

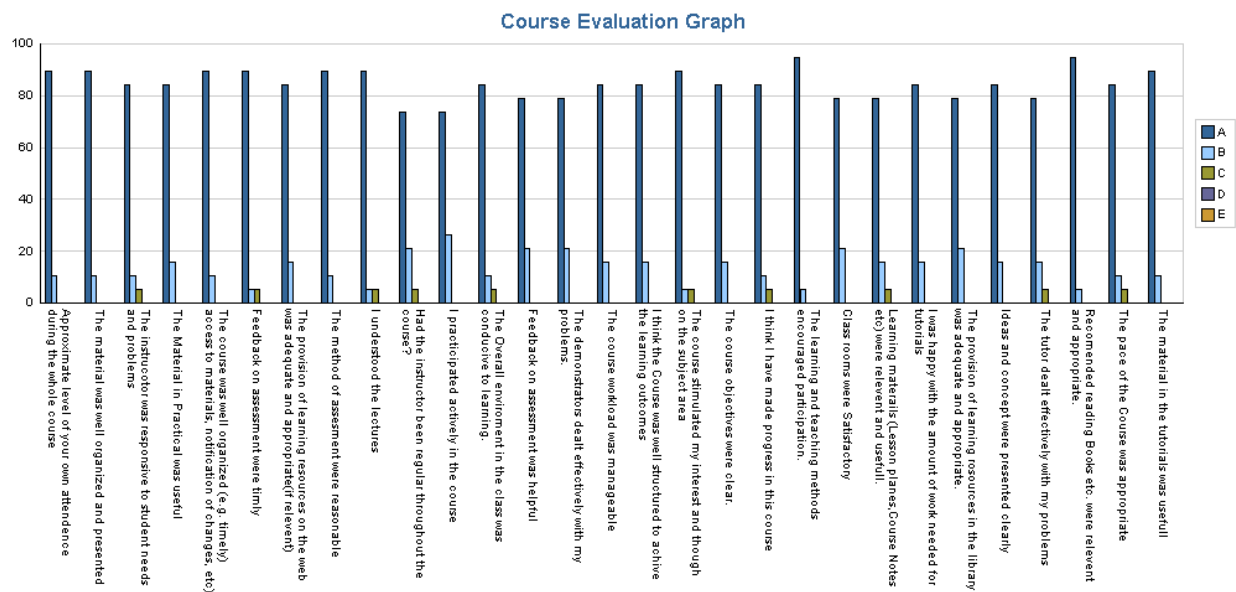
The graph depicted below shows that the students were happy with learning and active participation in the course. The material given was relevant and course was well managed and objectives were clear. Majority of students appreciated that the course stimulated their thought and interest in the course. About 90 % students said they have made progress in the course. The pace of the course was appropriated. The instructor dealt effectively with students problems. Few students said the material in tutorial was not useful. Additional 5% students said that the feedback was not timely.



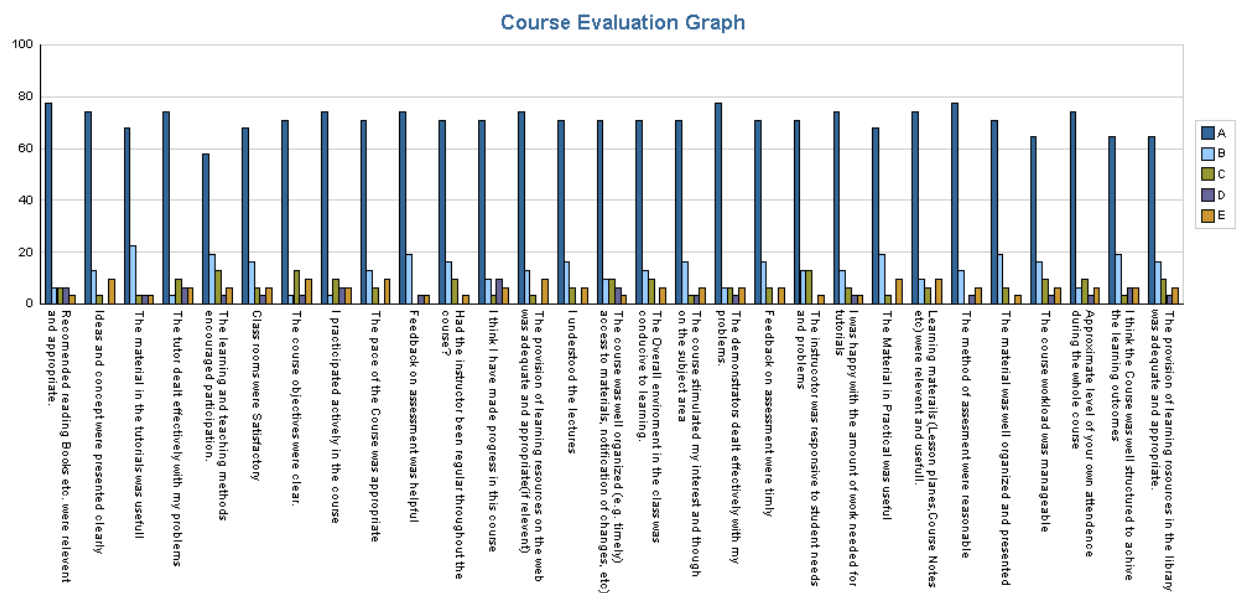
Courses Evaluation (Fall 2013)

Course No. ABG-301

The results are indicated below in graph. The overall course evaluation indicated excellent course delivery. A major portion of the students (80%) strongly agreed that course was well organized, method of assessment was reasonable and teacher encouraged student participation. Majority of students stated that the ideas and concepts were presented clearly. About 95 % students agreed with the availability of the recommended books and helping material. The work load was manageable in opinion of 85% students. About 15 % students criticized that the materials in practical was not useful. Additional 10% students said materials in tutorial was not useful.

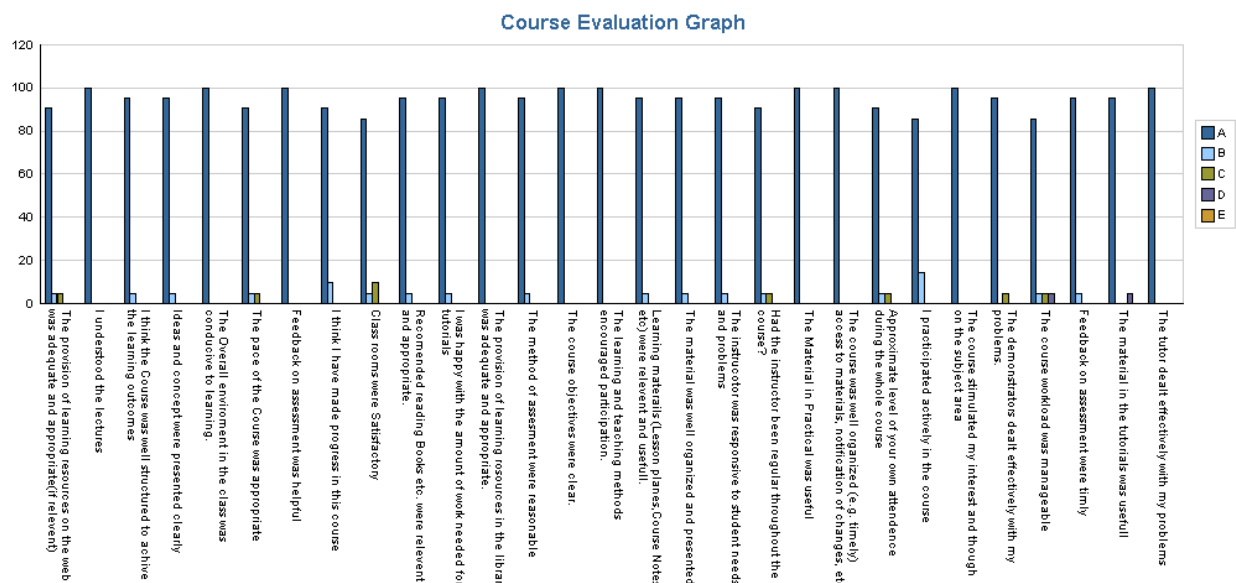


Graph provided below shows the course evaluation. Seventy percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About eight percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning. Few students questioned the relevancy of the helping material. Additional 10 % students criticized the workload of the course.



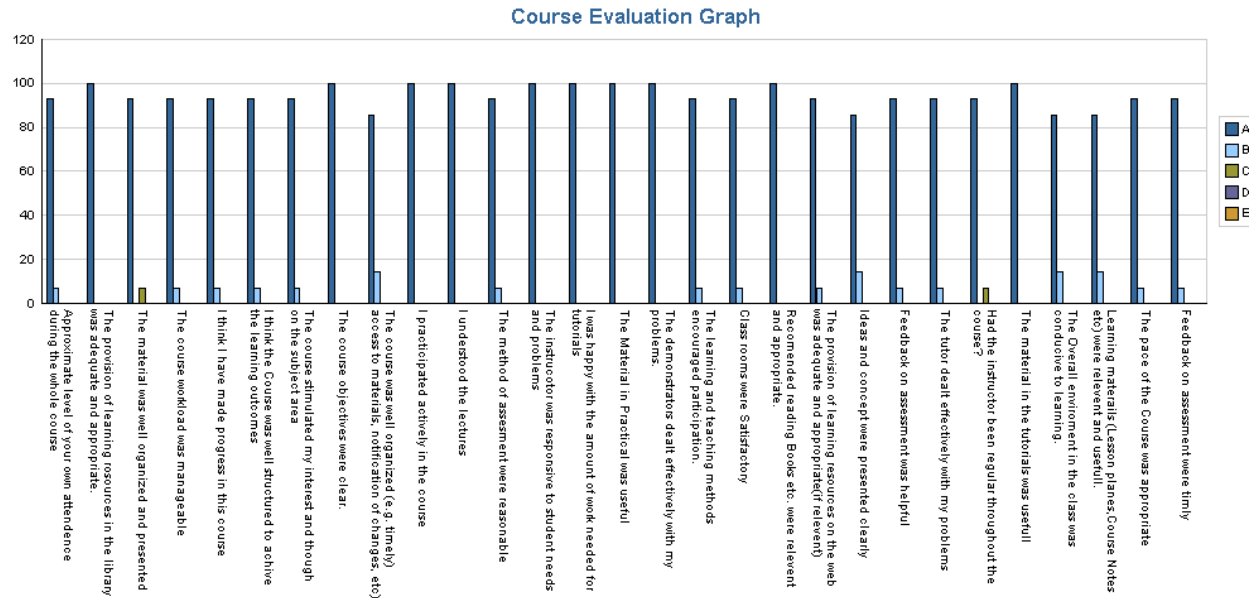
Course No. AN-301

The objectives of course were concise and clear. The students enrolled learnt a lot through effective teaching and presentation. The assessment of students was also up to the mark. Students stated that the course stimulated their interest in the subject. Majority of students stated that material provided on web was relevant and useful. Other relevant material was provided by the instructor which was very helpful for students in learning. The instructor responded well to all students who demand any guidance. Feedback assessment was timely in opinion of 95 % student. 90% students stated that they have made progress in the course. 5 % students objection workload of the course. Additional 5% student raised objection the pace of the course.



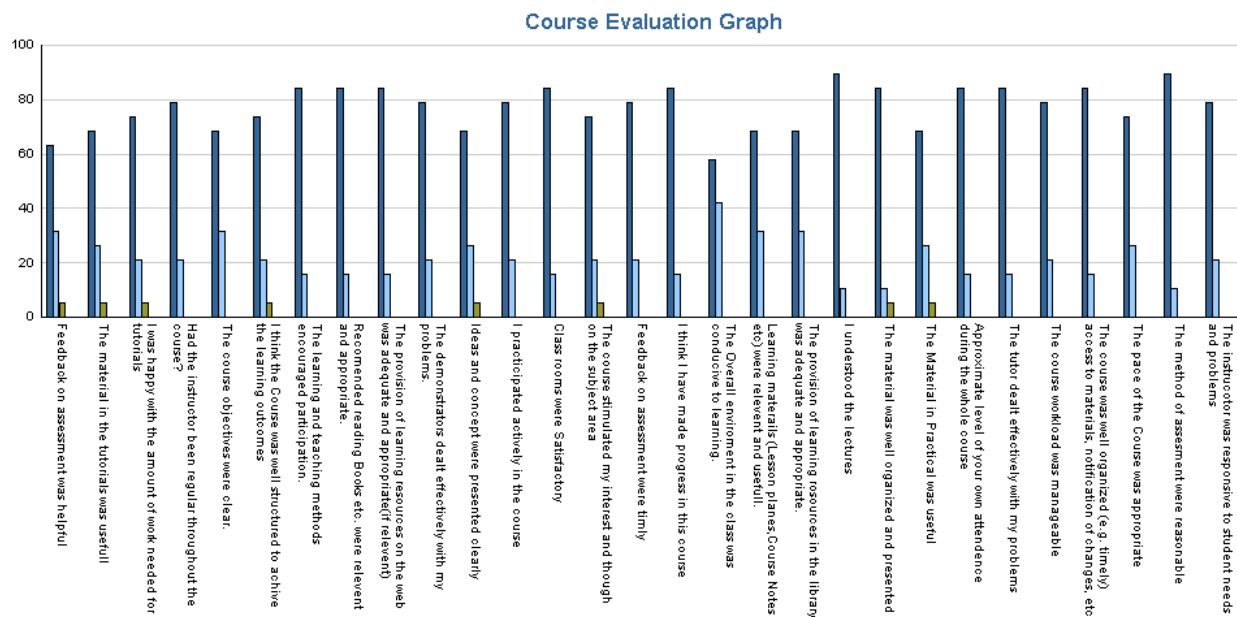
LM-101

The course evaluation graph depicted that 90% of students enrolled were agreed with the course aim and objectives. The learning material was very good for this introductory course. It was well organized and delivered as per required. The method of assessment and instruction was also very good enough. Students participated well and their problems were solved. The course was very helpful for students in enhancing their basic knowledge about livestock. Maximum students participated actively in the course. Feedback assessment was timely.



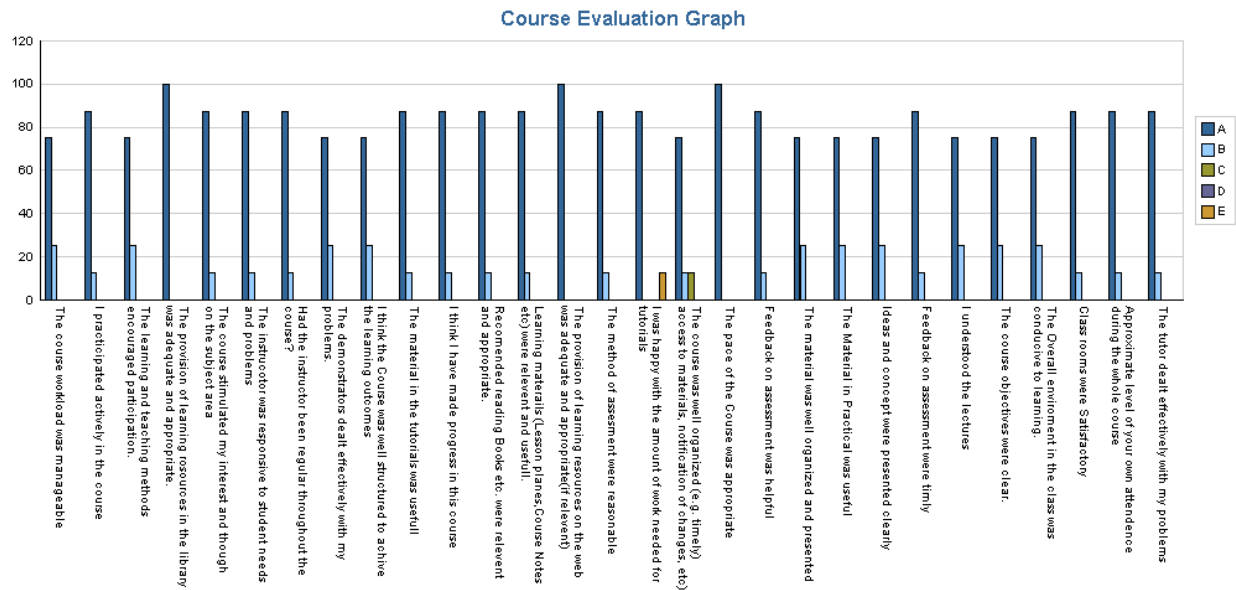
LM-301

The course evaluation graph depicted that 75% of students were satisfied with material, contents and amount of work. It was well organized and the environment given was very conducive to the learning. Most of students participated actively in the assignments given and practicals. The pace was appropriate and course was demonstrated effectively. The learning material given enhanced the knowledge and practical capabilities of students. The course was very practical oriented and delivered well.



LM-401

The graph depicted that course was clear, constructive, and well organized with adequate pace. The course was good to students for better learning and knowledge. Student's participation was very good in the course. All students appreciated the learning resources available in the library. 90 % students appreciated the regularity of the instructor. Majority of the students participated actively in the course. About 10% students criticized the course organization. Additionally, nearly 15 % students questioned the environment of the class.



Teacher's Evaluation (Spring, 2013 & Spring, 2014)

Teacher's performance was assessed through students' comments on prescribed evaluation Performa. This evaluation was done for different courses of the individual teachers filling in Performa 10 through Campus Management System.

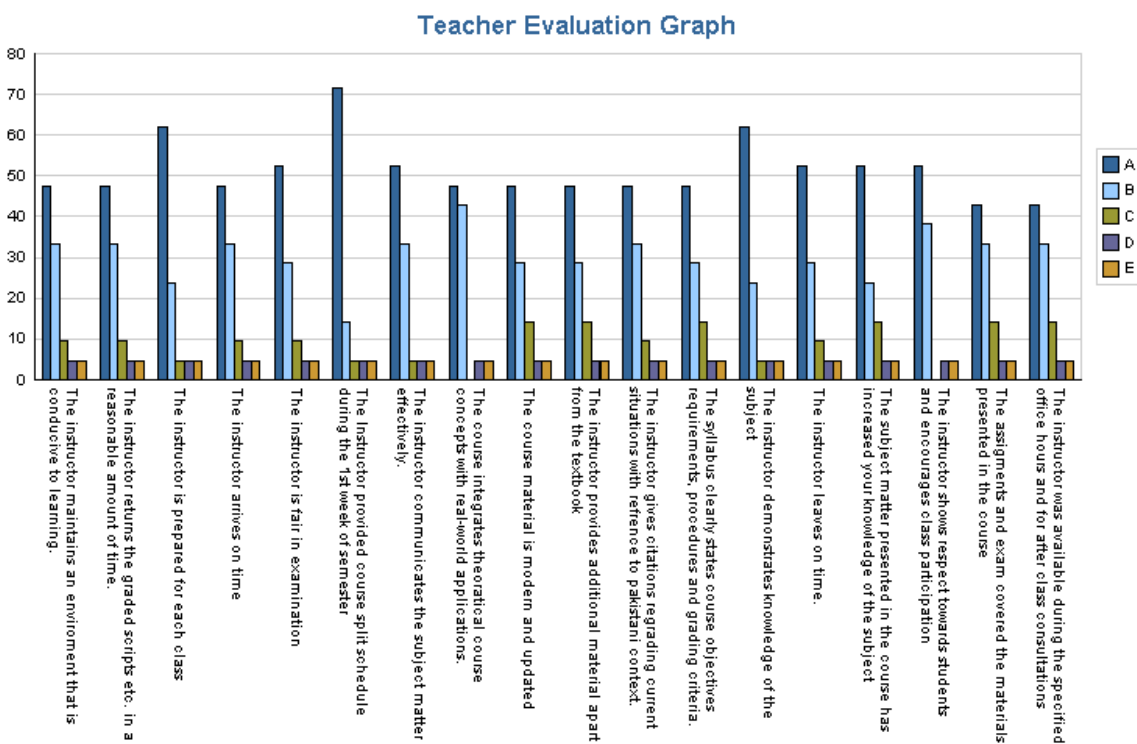
Department of Livestock Production & Management

Spring 2013

The four teachers in the department numbered from 1-4 were evaluated during spring 2013. The names of the teachers along their allotted numbers are Dr. Tanveer Ahmad (1) Dr. Muhammad Moaen-ud-Din (2), Dr. Muhammad Fiaz (3), Dr. Ghulam Bilal (4) and Dr. M. Farooq Iqbal (5). The details of evaluation are given in the preceding paragraphs.

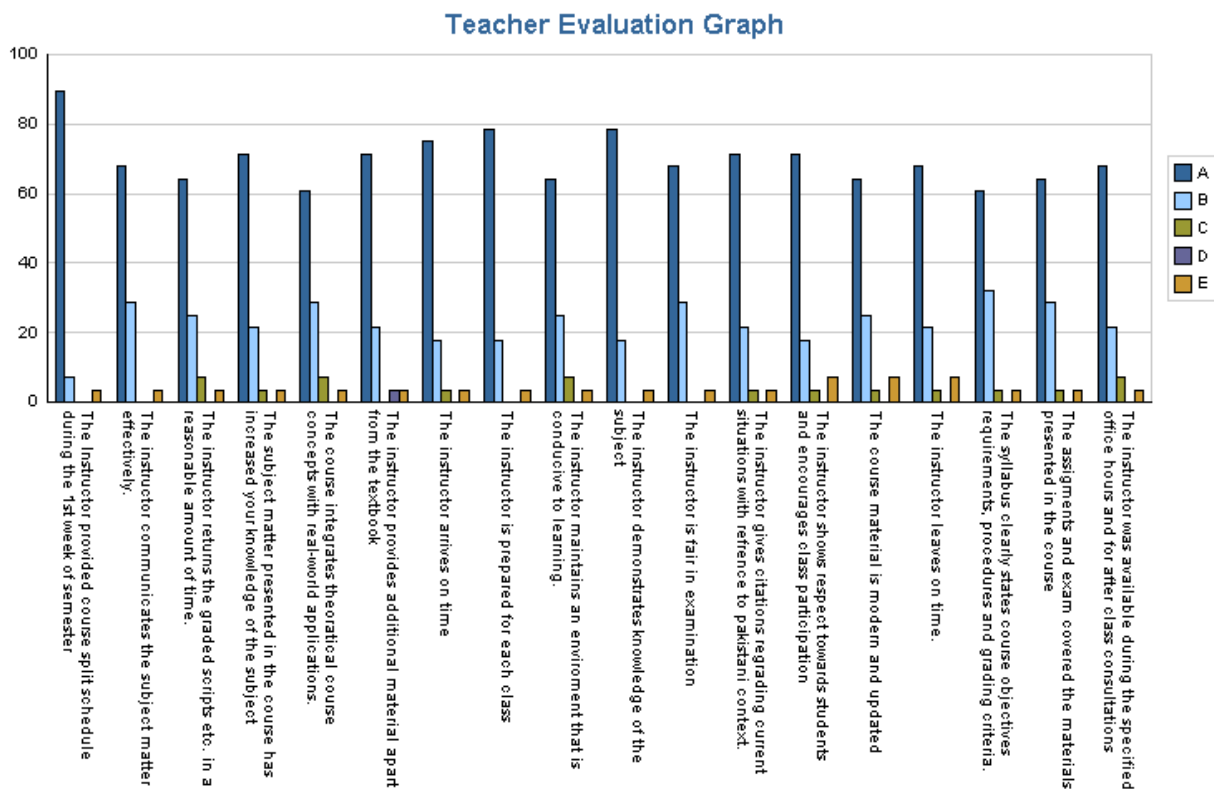
Teacher 1

Teacher evaluation by students during Spring-2013 is mentioned in the graph given below. It is hereby presented in the graph that 50, 30, 10, 05 & 05% of enrolled students graded excellent, very good, good, fair and poor in terms of all parameters, respectively. The instructor was up to date and delivered his knowledge with full preparation. He was regular and communicated excellently. He responded very well to all the questions raised by students. The assignments given enhance the capability of students and modern & relevant material was provided. However, 5% students were not satisfied.



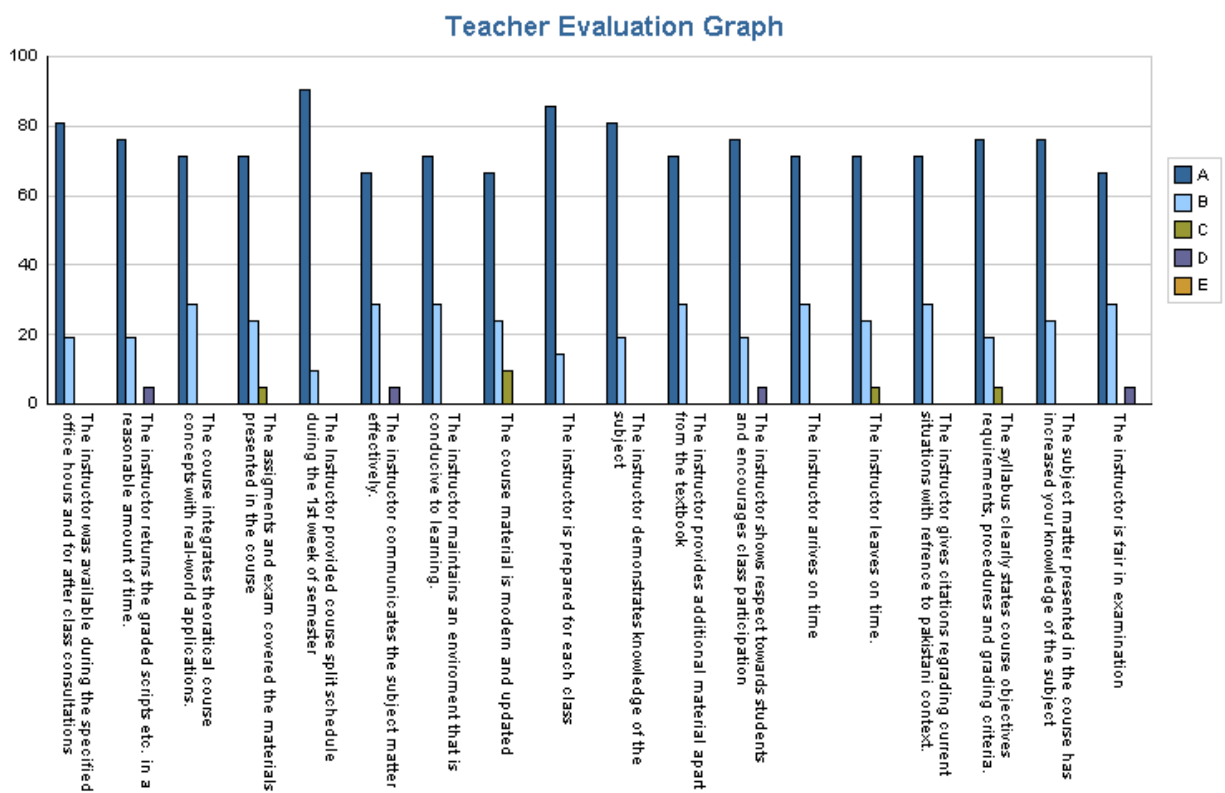
Teacher 2

It is hereby depicted in the graph that 70, 20, 04, 02 & 03% of enrolled students graded excellent, very good, good, fair and poor in terms of all parameters, respectively. The instructor remained punctual, up to date, well organized and friendly. He communicated adequate knowledge with provision of modern & relevant material. The teacher also responded well to all queries raised by students and maintained good environment which was conducive for learning.



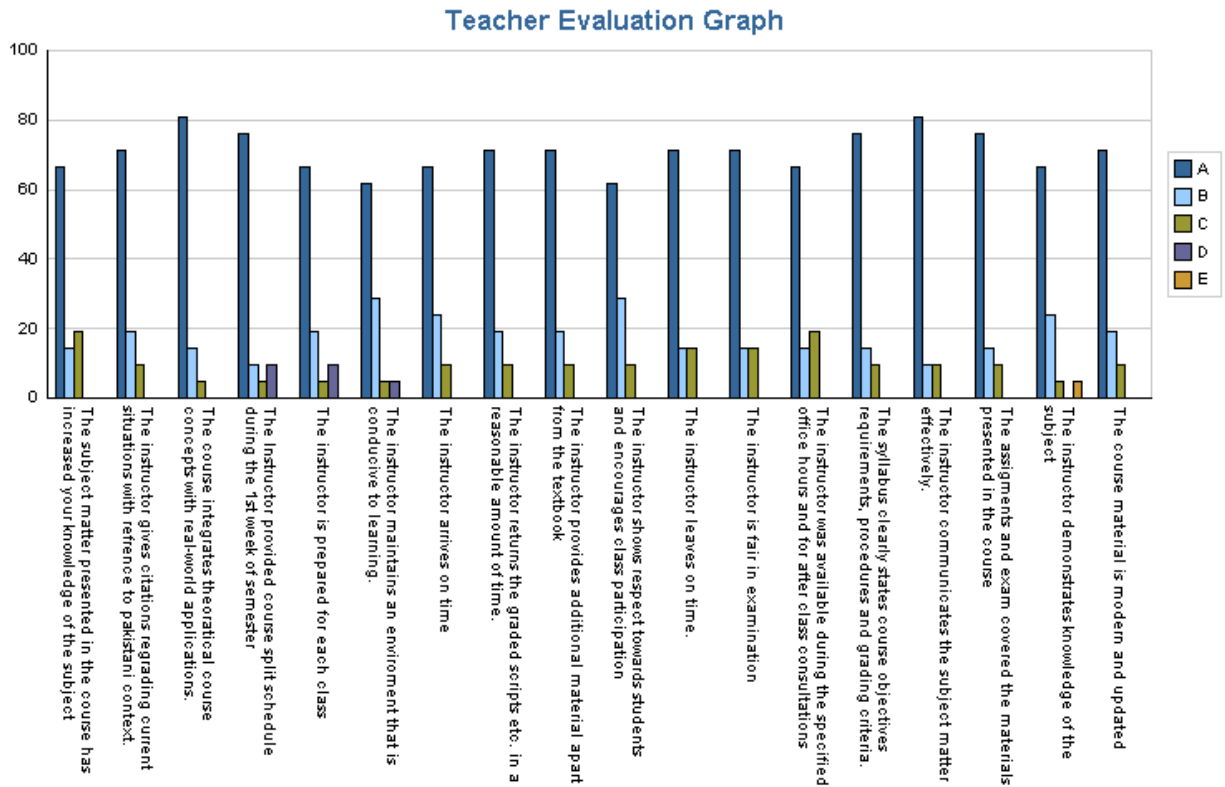
Teacher 3

It is showed in the graph that 73, 20, 03, 02 & 02% of enrolled students graded excellent, very good, good, fair and poor in terms of all parameters, respectively. The instructor was punctual and provided a good environment which was conducive for learning. He enhanced the skill and capability of students through arranging practical oriented activities and assignments. The attitude of teacher was friendly with students. However, 4% students graded him poor and not fair in examination.



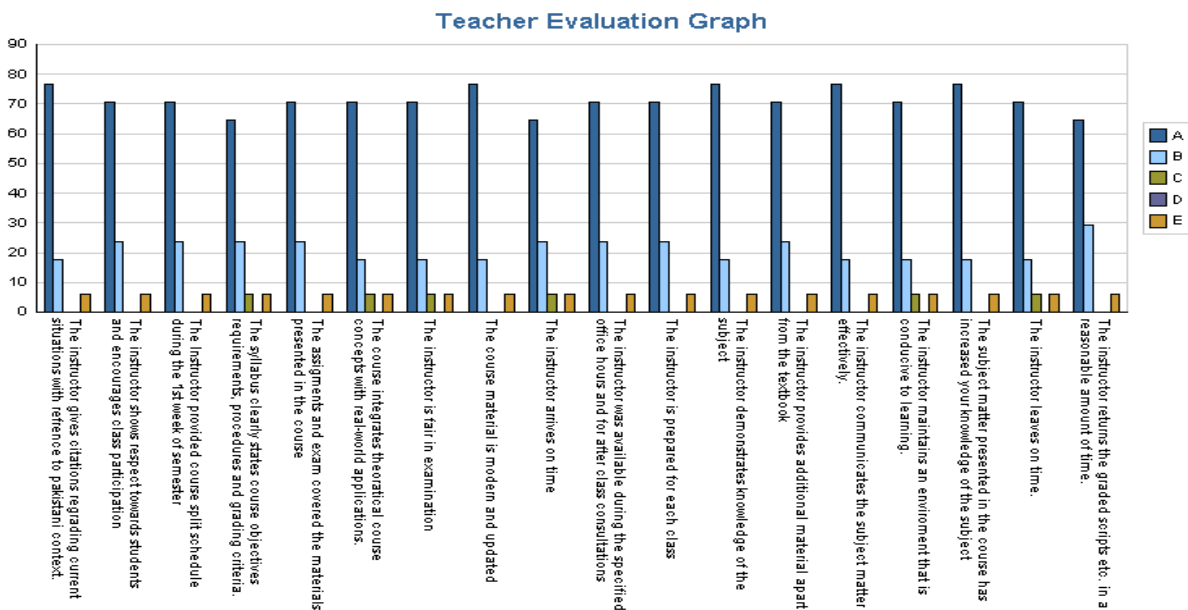
Teacher 4

The graph indicated that 65, 20, 10, 02 & 03% of enrolled students graded excellent, very good, good, fair and poor in terms of all parameters, respectively. The instructor delivered excellently his knowledge and enhances the skill of students through performing practical oriented activities. He maintained good environment which was conducive for learning. The teacher remained up to date, regular and gave excellent assignments and responded very well to all the problems of students through friendly attitude. However, only 3% students were not satisfied.



Teacher 5

Over 70% of the students agreed that the instructor provided split schedule, was prepared for each class, and demonstrated knowledge the course. 5% students stated that the syllabus does not clearly states objectives and real world applications.

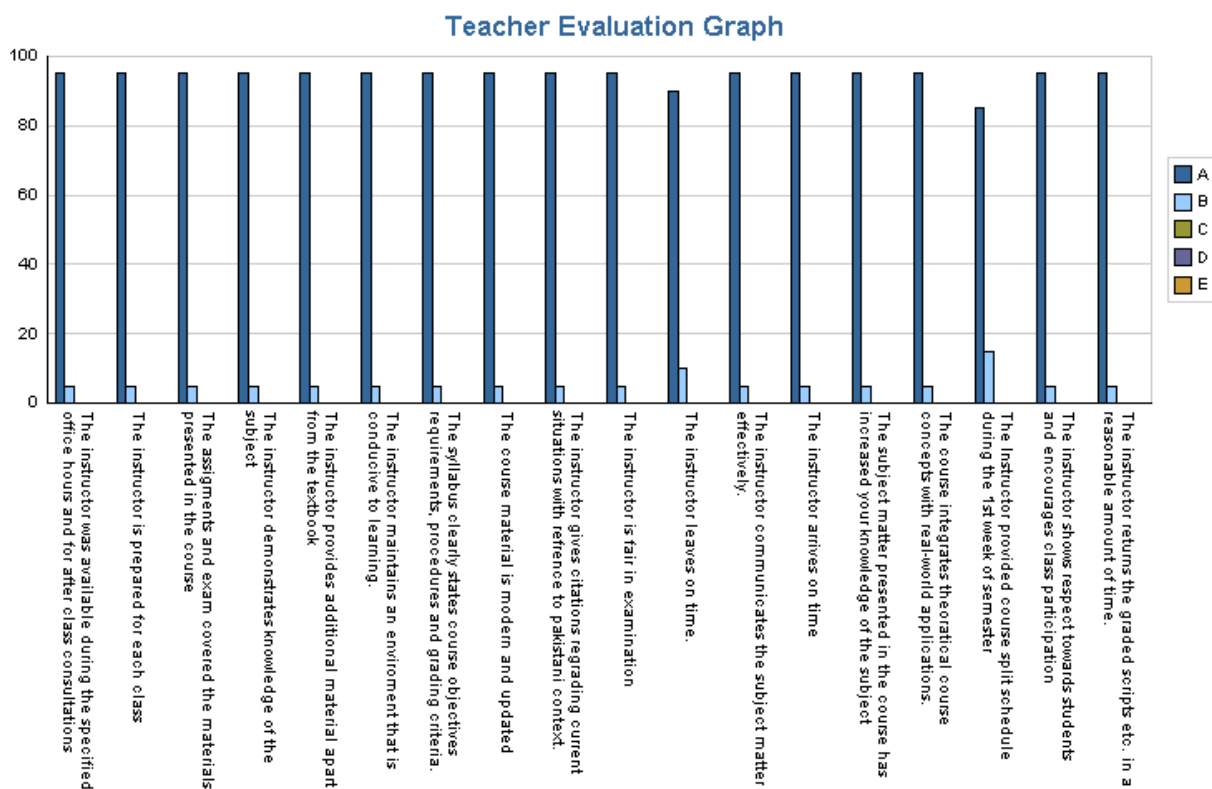


Spring 2014

The four teachers in the department numbered from 1-4 were evaluated during spring 2013. The names of the teachers along their allotted numbers are Dr. Tanveer Ahmad (1) Dr. Muhammad Moaen-ud-Din (2), Dr. Muhammad Fiaz (3), and Dr. Ghulam Bilal (4) Dr. M. Farooq Iqbal (5). The details of evaluation are given in the preceding paragraphs.

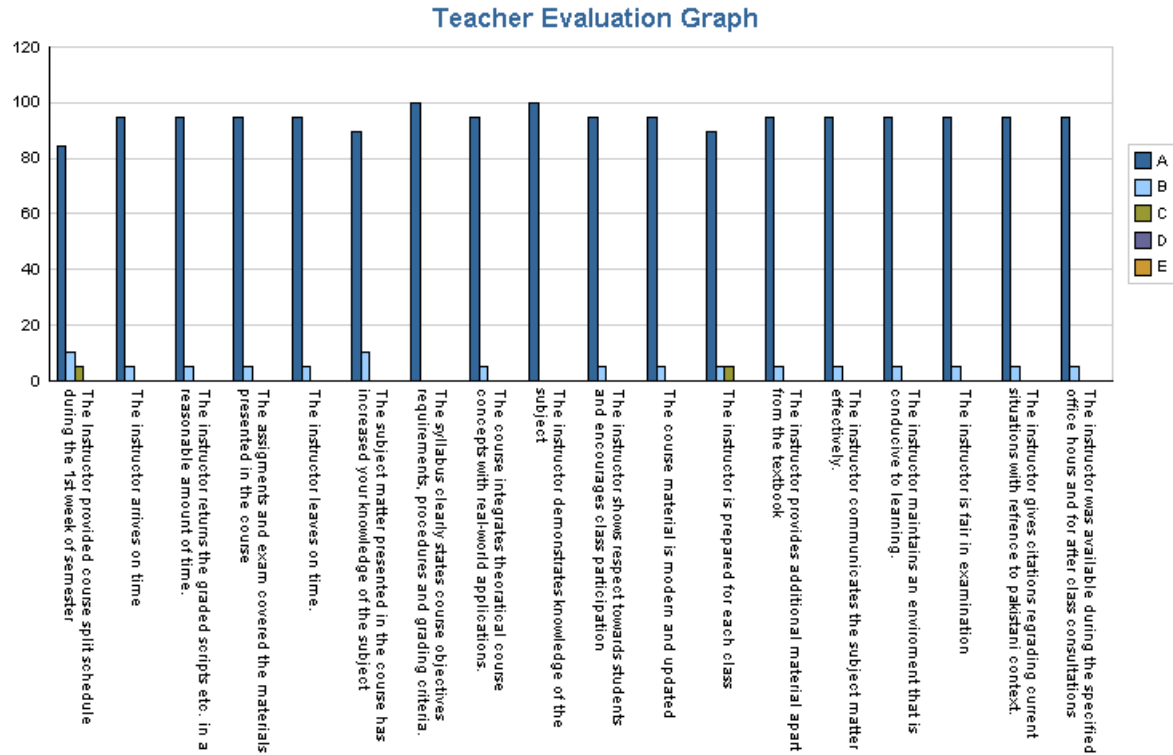
Teacher 1

More than 95% of the students agreed that the instructor arrives and leaves on time and communicates the subject matter effectively. They also agreed that the instructor provides additional material apart from the text book and the teacher was prepared for each class. Overall there was not negative comment on the teacher which shows the teacher is ok with almost everything. More than 90% of the students agreed that the teacher was available for after class consultation and the subject matter taught during the course resulted in increase the intellectual merit of the students. About 5 % students thought that the pace of the course was not appropriate and the class rooms were not satisfactory.



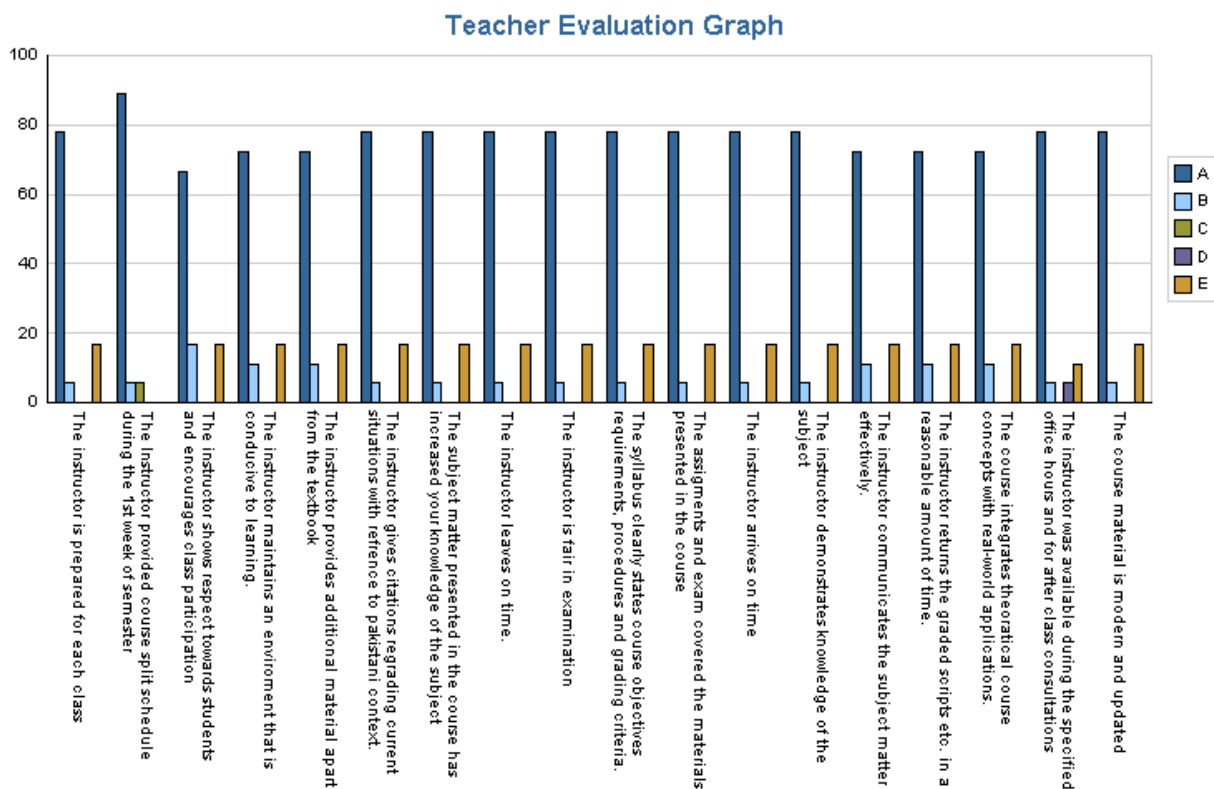
Teacher 2

Most of the students agreed that instructor was well prepared for each class, communicated the subject matter effectively and demonstrated knowledge of the subject. It was further stated that the syllabus clearly stated course objectives, requirements, procedures and grading criteria. Around 90% of the students stated that instructor was fair in examination. More than 80% of the respondents agreed that the teacher arrived and left the class on time and maintained an environment that was conducive to learning for the students. Overall there were no negative comments on the teacher with a couple of neutral remarks.



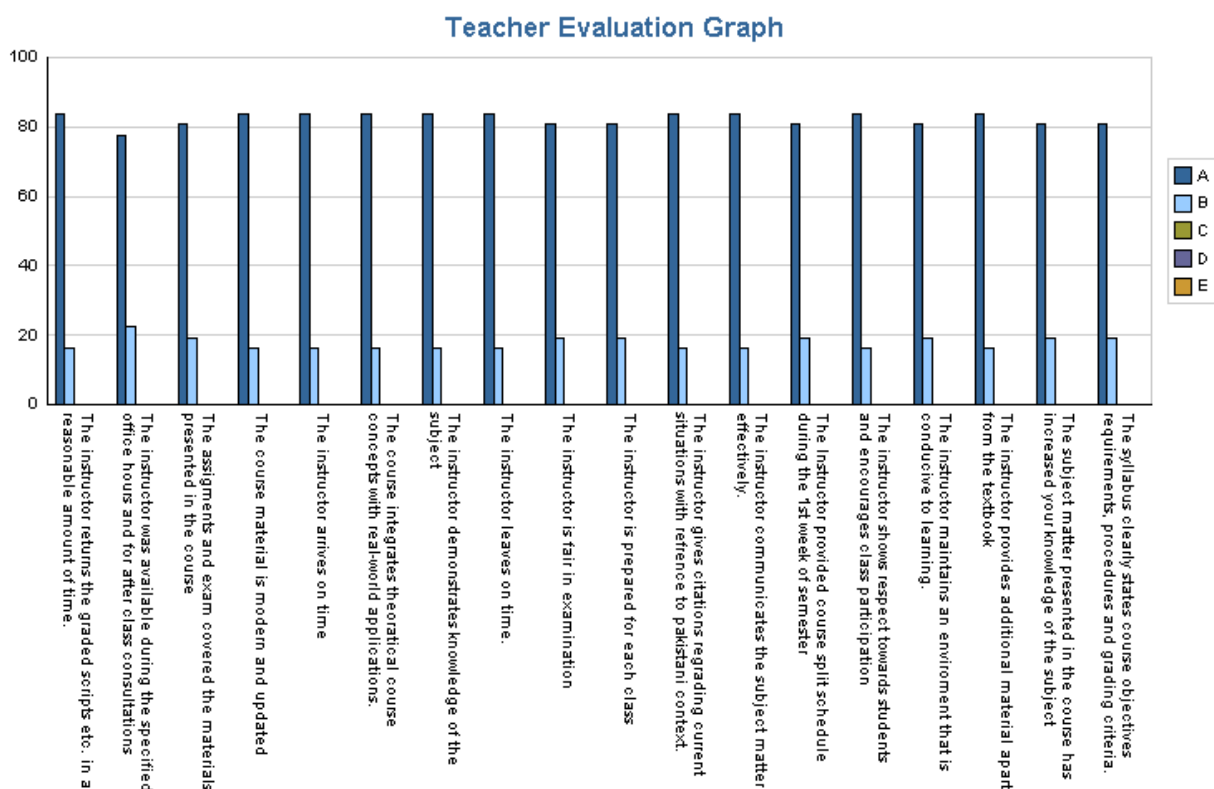
Teacher 3

More than 70% of the students agreed that the instructor demonstrates knowledge of the subject matter effectively. They also agreed that the instructor provides additional material apart from the text book and the teacher was prepared for each class. More than 10 % of the students felt that the course material is not modern and updated, the instructor does not arrive and leave on time and the instructor does not maintain an environment conducive to learning. About 90% of the students were ok with the availability of the instructor e during the specified office hours and for after class consultation. The instructor returns the graded scripts in a reasonable amount of time and the instructor communicated the subject matter effectively. Less than 5% of the students complained that the instructor does not leave on time.



Teacher 4

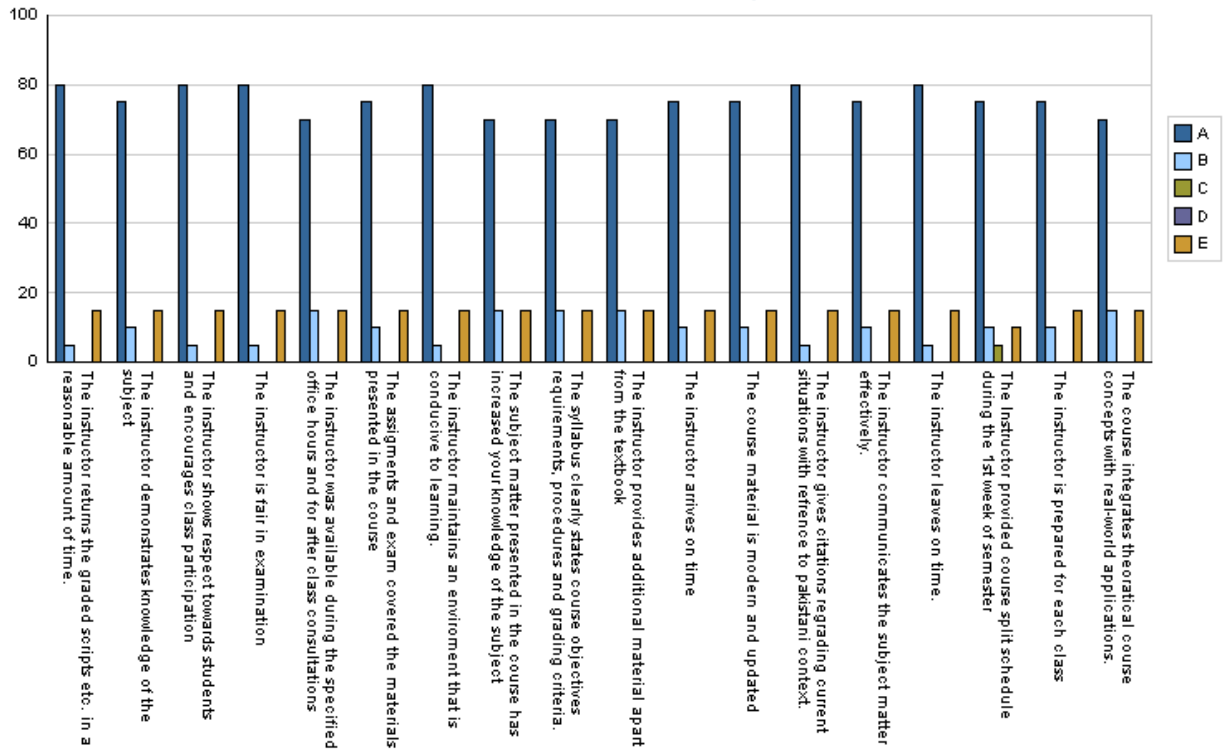
About 80 % students stated that the instructor was fair in exam. They also stated that the course material was modern and updated, instructor was prepared for each class and the instructor gave citation regarding current situations with reference to Pakistani context. There was general consensus among the respondents over the punctuality of the teacher and the teacher was available for after class consultation. Overall there were no negative or even neutral comments on the teacher evaluation aspects and most students seem satisfied with the teacher's approach.



Teacher 5

Nearly 80% of the students agreed that instructor returned the graded scripts in reasonable amount of time, showed respect for his students, encouraged class participation, maintained an environment that was conducive to learning, and he gave citations referring to current Pakistan situation. More than 70% of the respondents praised the teacher for demonstrating knowledge of the subject, giving assignment and exams that covered material of the course, arriving on time, presenting modern and updated course material and communicating the subject matter effectively. Around 15% students were of the opinion that instructor did not leave on time; there was a lack of integration between theoretical concepts and real world application and unavailability of the instructor for after class consultation.

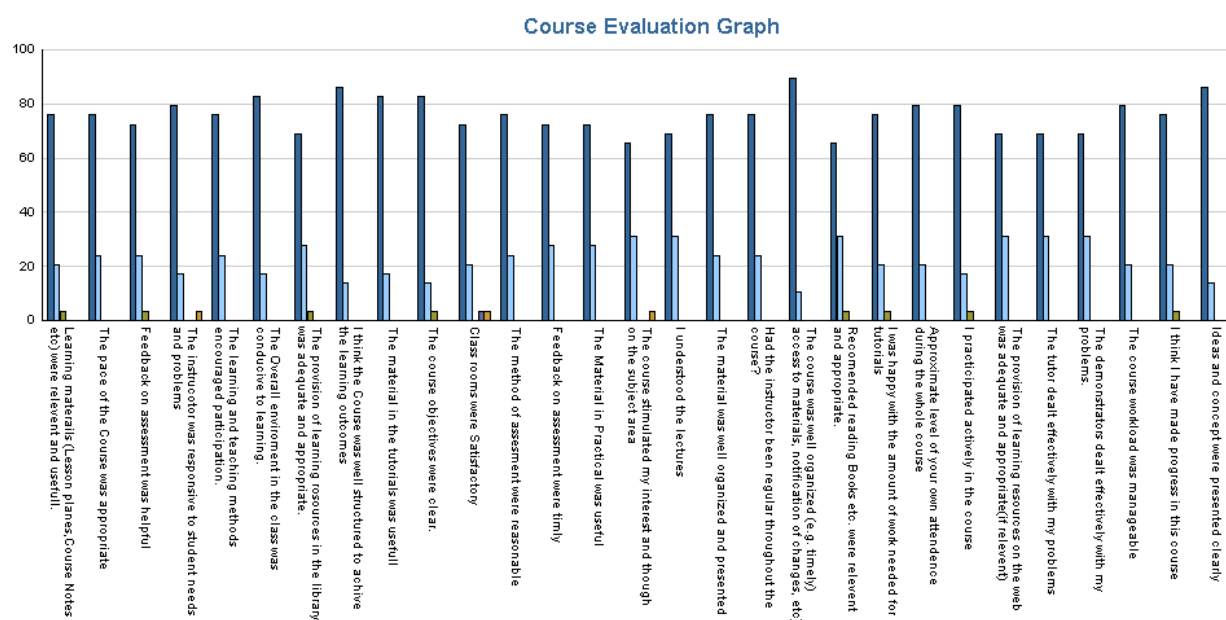
Teacher Evaluation Graph



Courses Evaluation (Spring 2013)

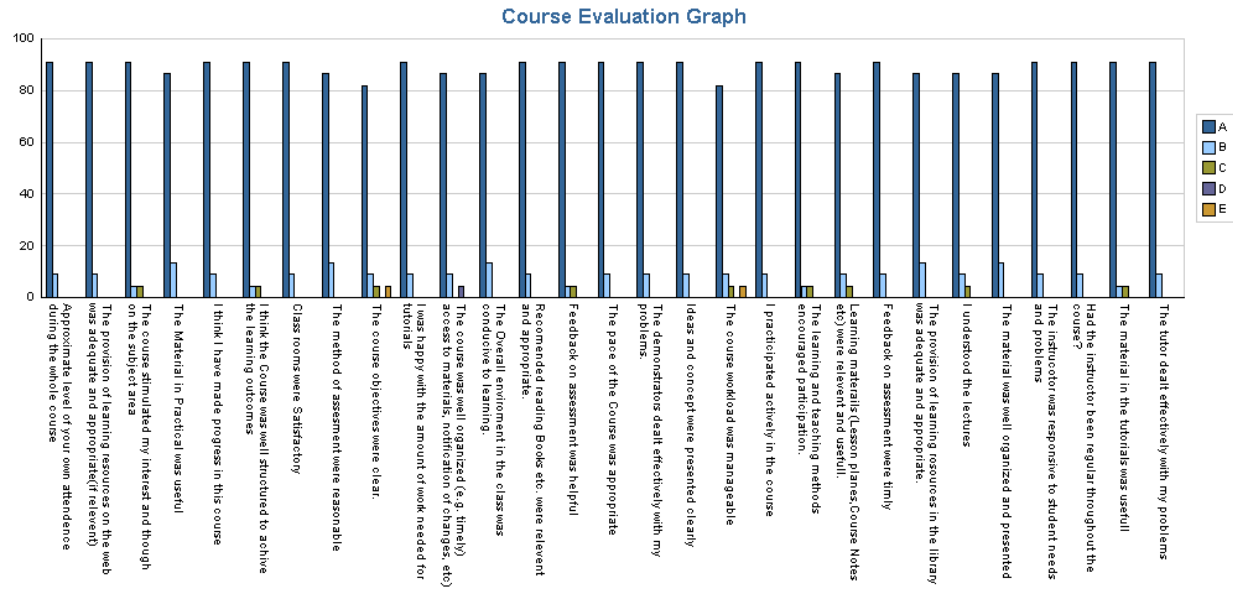
ABG-102

Over 80% of the students agreed that the course was organized and ideas and concepts were presented clearly. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes. Moreover 80% students agreed that instructor was responsive to student's problems and queries. 5 % students complained about the condition of classrooms. Additionally 5 % students thought that the course was not helpful in stimulating their interest in the subject.



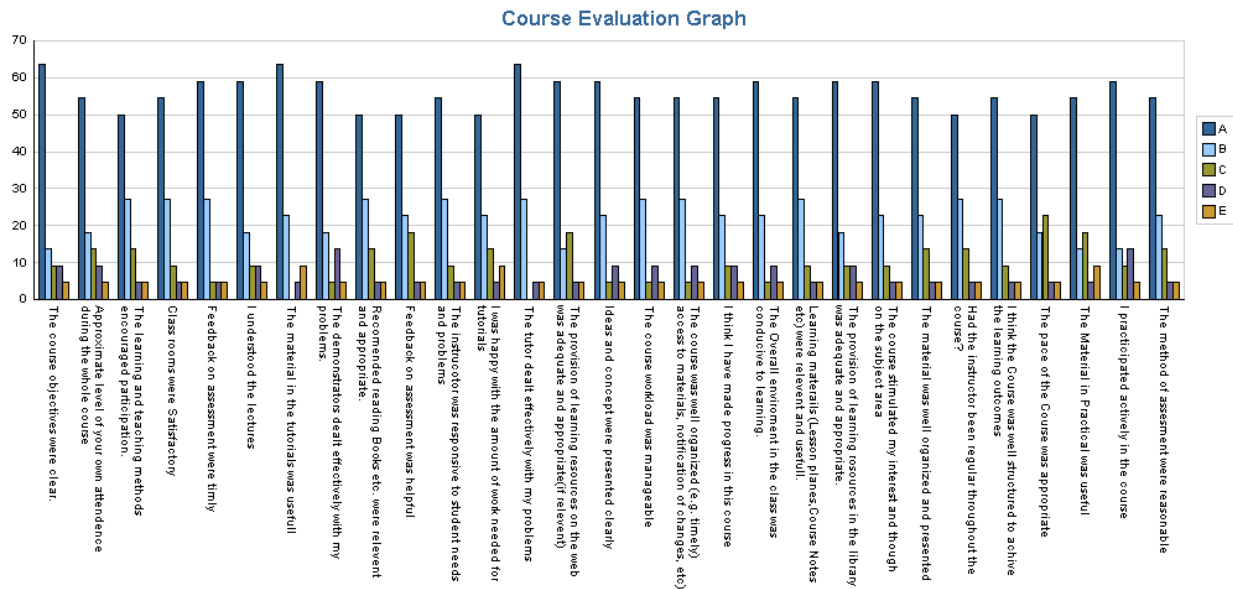
AN-102

Over 90% of the students agreed that the instructor dealt effectively with their problems. Over 80% student stated that course load was manageable. More than 80% of the respondents felt that the instructor was regular throughout the class, material in the practical was useful and course objectives were clear although less than 5% of the students felt that course objectives were not clear. More than 80% respondents were of the opinion that methods of assessments were reasonable, class rooms were satisfactory, course was well organized to achieve the learning outcomes and the course stimulated their interest and thought on the subject matter.



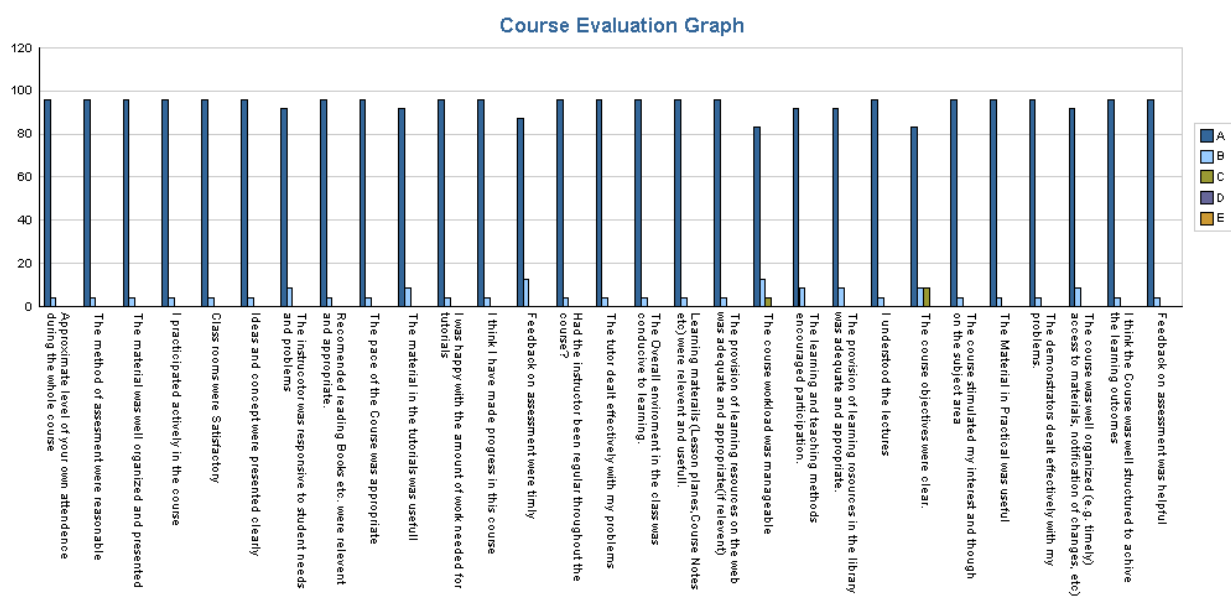
AN-202

The graph showed that 58, 25, 10, 02 & 05% students graded excellent, very good, good, fair and poor in all parameters, respectively. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



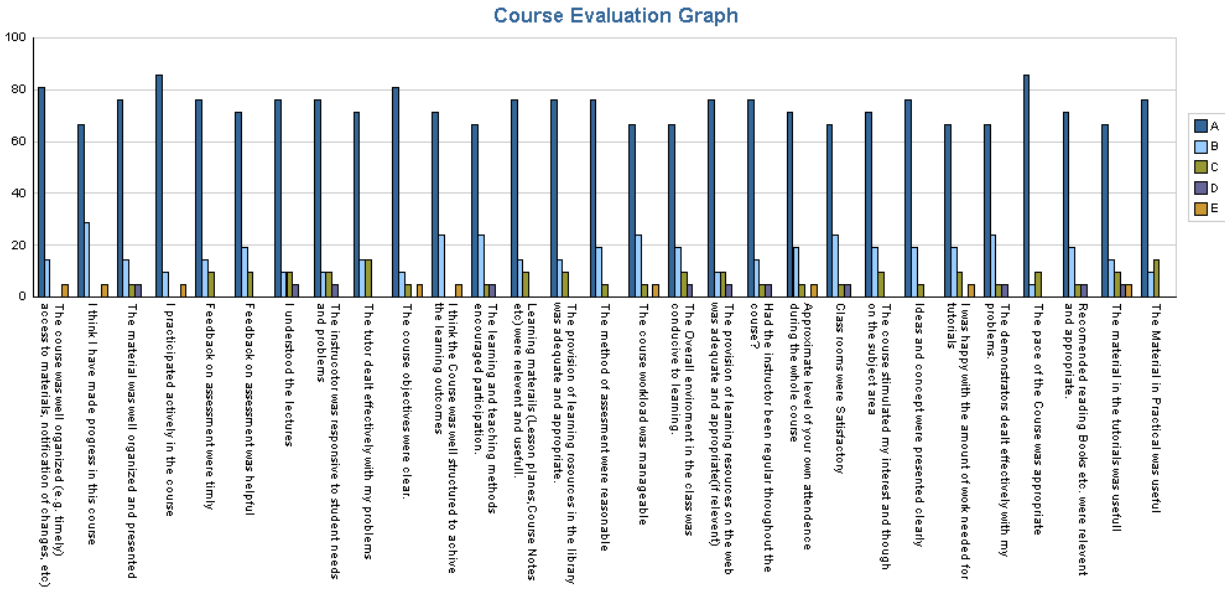
LM-202

Majority of the students agreed that the course was well structured to achieve the learning outcomes, learning material was relevant and useful and the instructor had been regular throughout the course. They also responded that the pace of the course was appropriate, feedbacks on the assessments were timely and helpful and ideas and concepts were presented clearly during the course delivery. Additionally, most students understood the lectures and participated actively in the course.



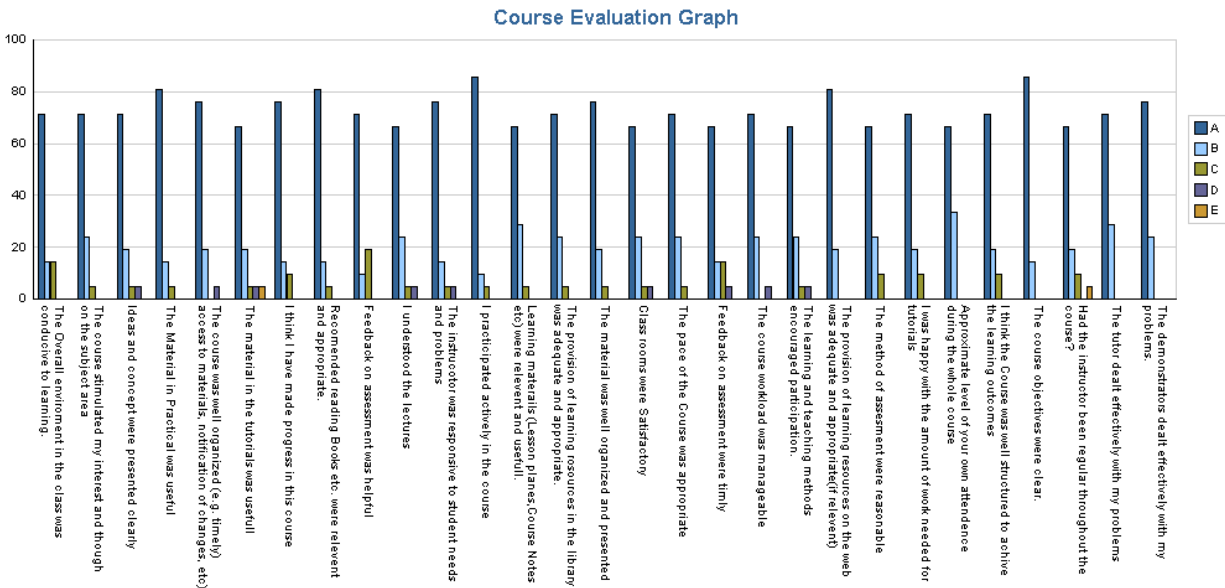
LM-302

It was reported that Over 80% of the students agreed that the course was organized and ideas and concepts were presented clearly. Moreover 60% students agreed that instructor was responsive to student's problems and queries and pace of the course was acceptable. 5% students questioned the learning outcomes of the course. Only 5% students complained about usefulness of materials in the tutorial. The objectives were clear and instructor made excellent efforts for making concepts of students clear. Students made progress in enhancing their knowledge and skill with adequate pace during the course.



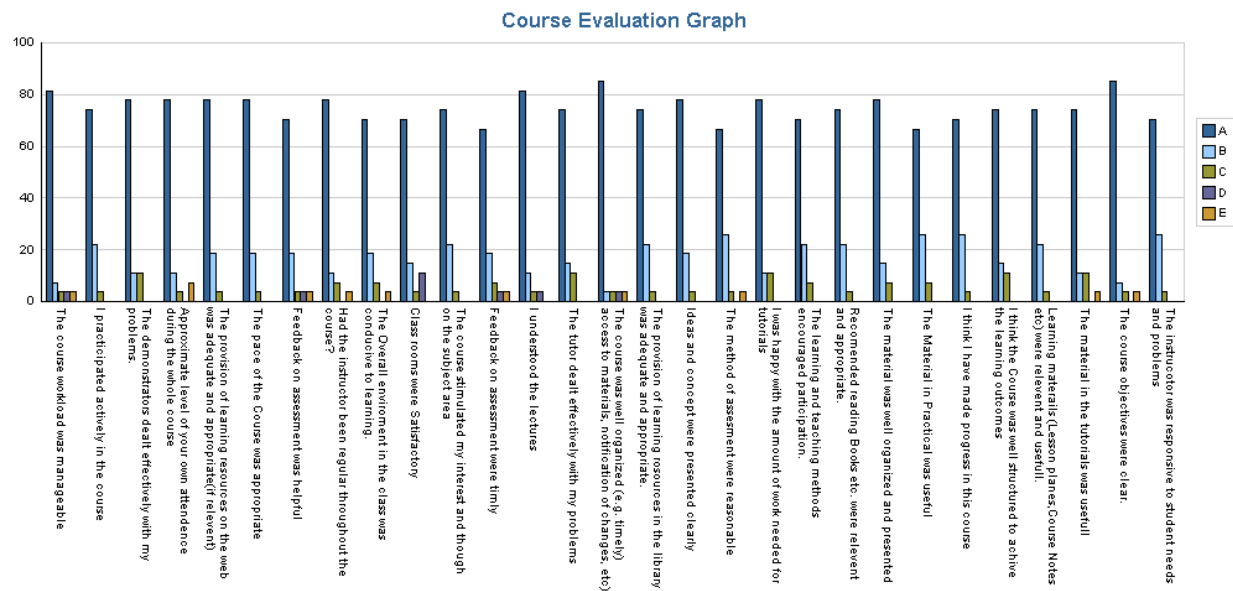
LM-304

Results regarding course evaluations are mentioned in the graph given below. The graph showed that over 80% of the students agreed that the material and practical was useful, recommended books were relevant and they participated in the course. Similar number of students agreed that course objectives were clear. However, 5% students questioned the regularity of instructor. The learning environment was maintained good in which student participated well. The demonstration was effective which enhanced the knowledge of students.



LM-402

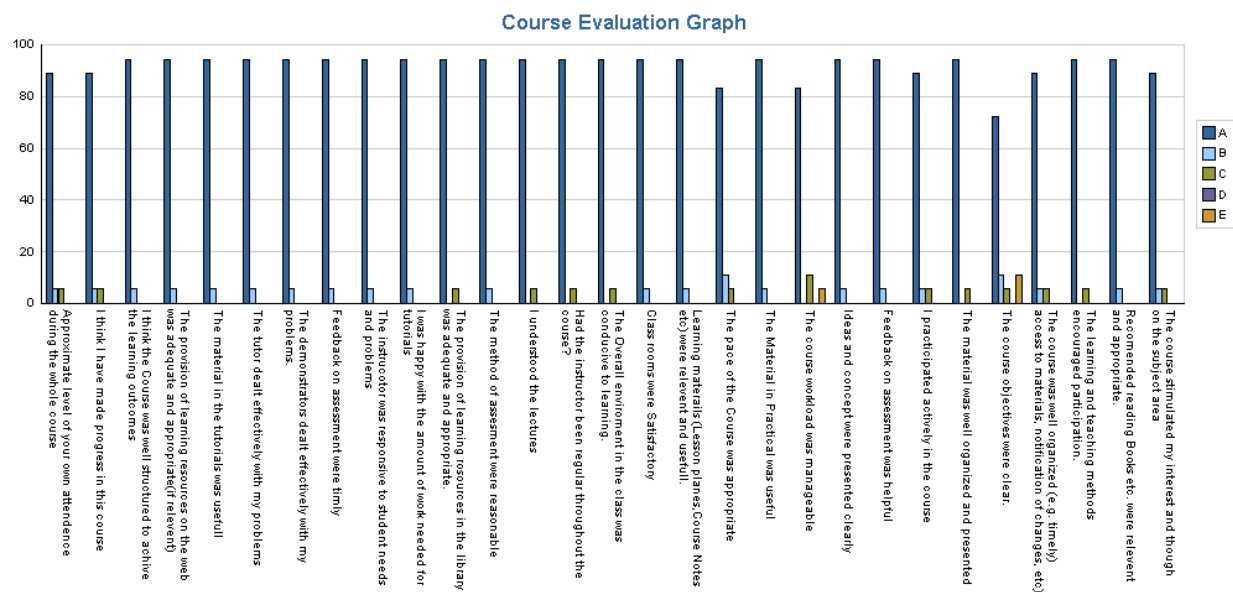
The graph showed that Over 80% of the students agreed that the course workload was well managed, they understood the lectures, course was well organized and course objectives were clear. However, 5% students stated that the course is not well organized. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The demonstration used was very effective which ultimately enhance the knowledge and skill of students through continuous practical exposure and performance of livestock operation regularly.



Courses Evaluation (Spring 2014)

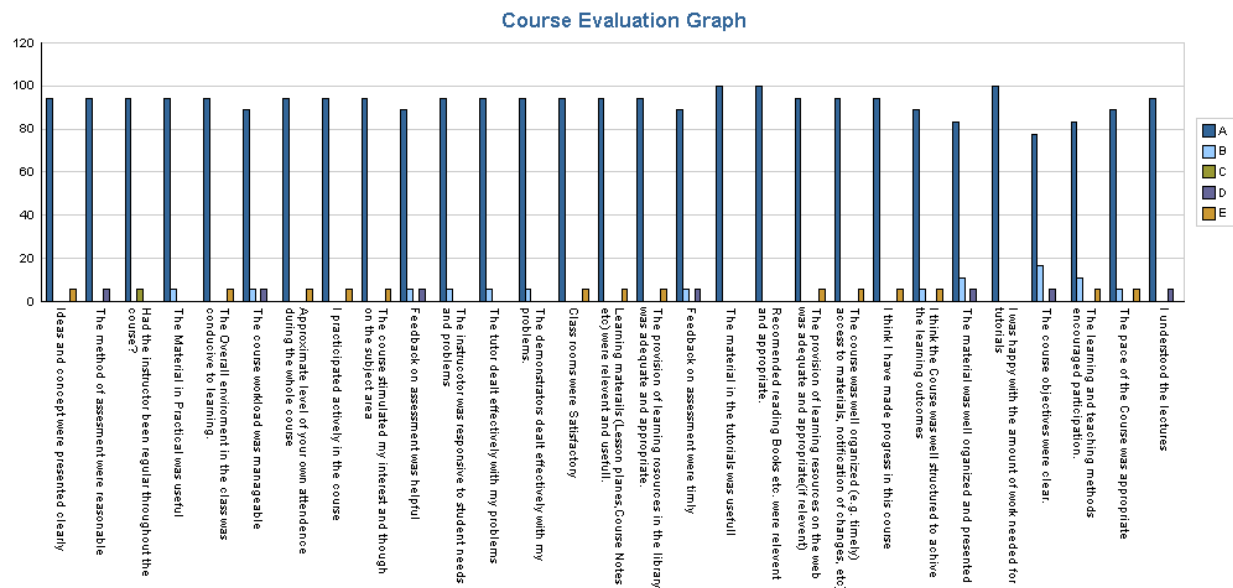
ABG-102

Over 90% of the students agreed that they participated actively in the class, have made progress in course and course load was manageable and the course was well structured to achieve the learning outcomes. They also felt that they understood the lectures, feedback on the assessments were timely and helpful and the demonstrator dealt with their problems and needs. Nearly 10% of the students stated that course objectives were not clear and course work load was not manageable.



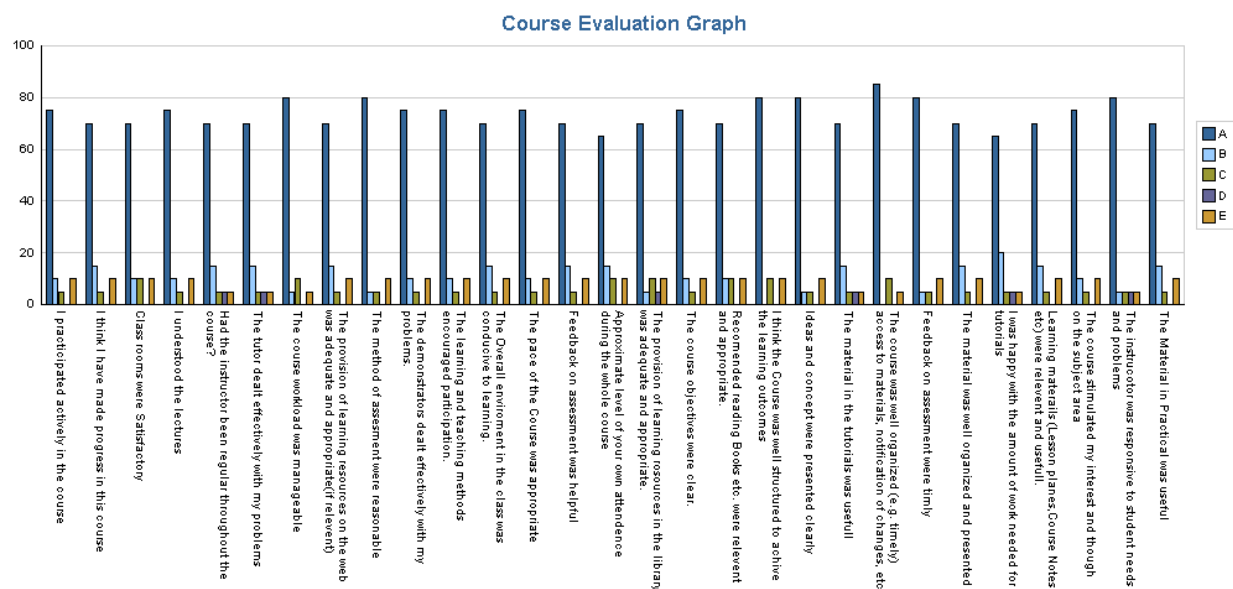
AN-102

Approximately 90% of the students agreed that the overall environment of the class was conducive to learning and the material in the practical was useful. Moreover around 90% of the students agreed that the course was well organized and the instructor was responsive to student needs and problems. More than 8% of the students feel that the feedback on the assessments was helpful and course workload was manageable. About 5 % students thought that the pace of the course was not appropriate and the class rooms were not satisfactory.



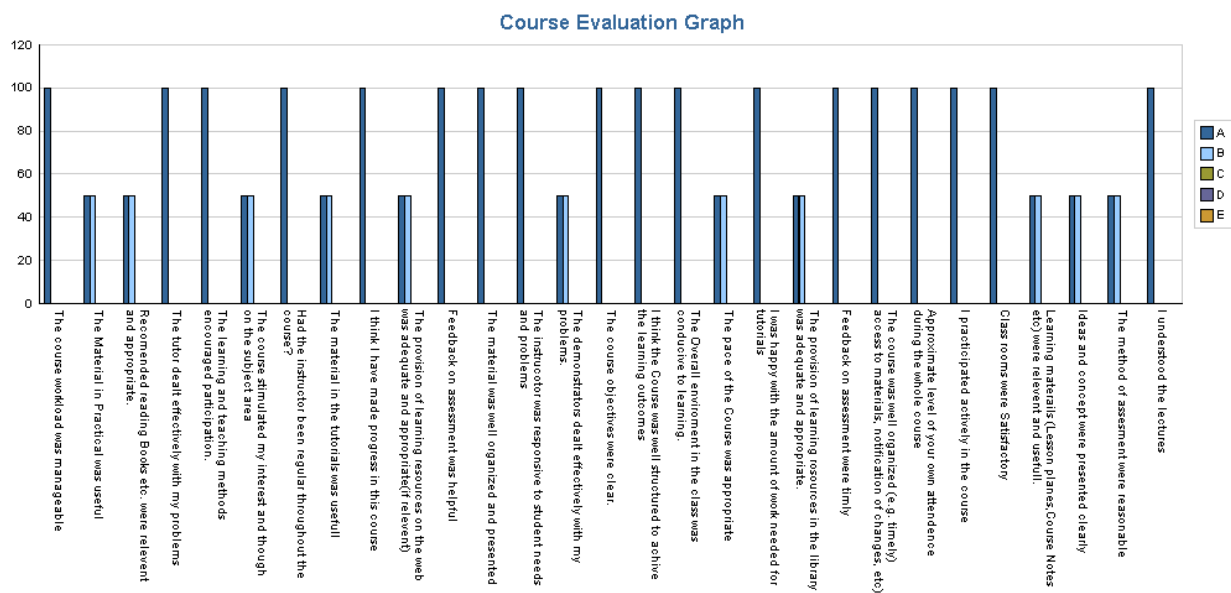
AN-202

Most of the students agreed that course work load was manageable and course objectives were clear. Nearly 10% student stated that the material provided in practical was not useful. Eighty % of the respondents were of the opinion that ideas and concepts were presented clearly, course was well organized to achieve the learning outcomes. As students were present in the all categories of the graph, showing that, about 5% of the students were not satisfied with one aspect or the other of the given course on overall basis. More than 60% of the respondents felt that the pace of the course was appropriate, class rooms were satisfactory and the tutor dealt effectively with their problems. Nearly 70% of the respondents agreed that they had made progress in the course and overall attendance of the students was more than 70%.



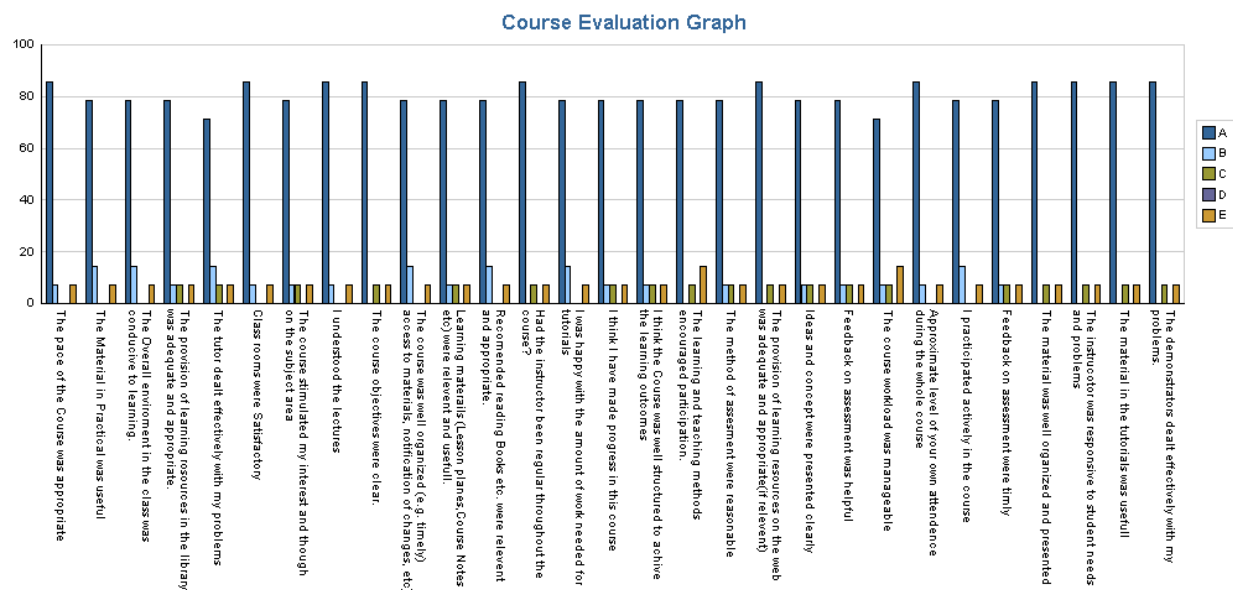
LM-202

All the respondents were of the opinion that they understood the lectures, class rooms were satisfactory, participated actively in the course, the course was well organized, well structured to achieve the learning outcomes, feedback on the assessments were timely and helpful and overall environment in the class was conducive to learning. Nearly 50% of the respondents agreed that the method of assessment was reasonable, ideas and concepts were presented clearly and the material in the practical was useful.



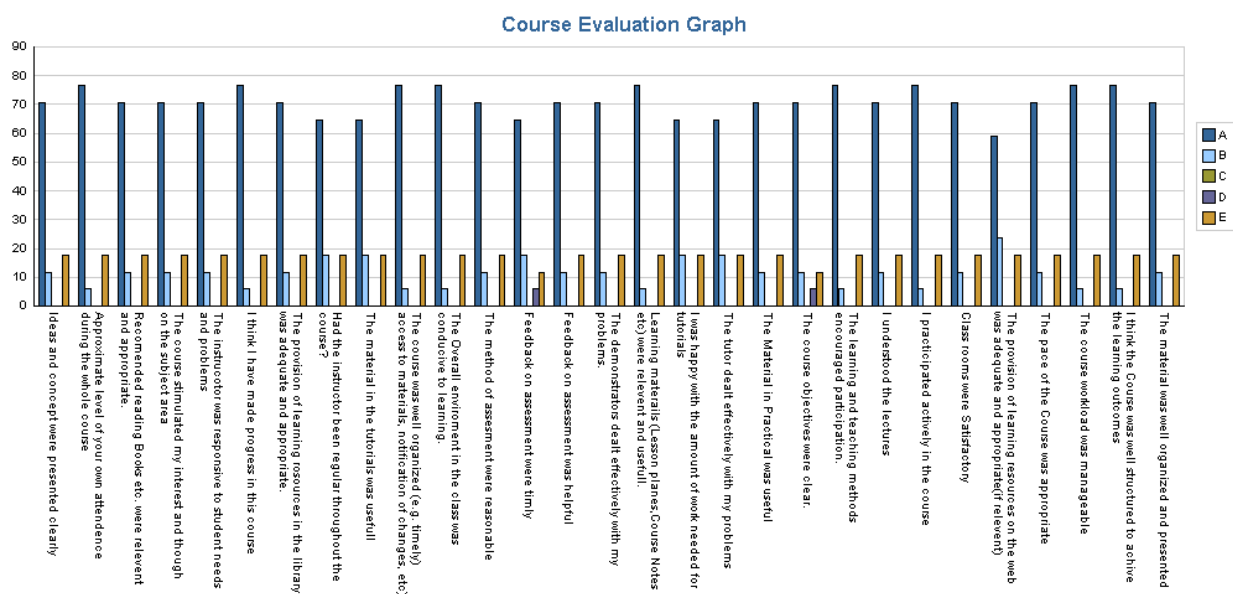
LM-302

More than 80 % of the students stated that the pace of the course was appropriate, course objectives were clear, class rooms were satisfactory and the instructor has been regular throughout the course. More than 70% of the students agreed that the course work load was manageable and the course was well structured to achieve the learning objectives. Nearly 70% of the students were of the opinion that the tutor dealt effectively with their problems, learning material was helpful and feedback on the assessments was helpful. About 5% of the students felt that instructor was not responsive to student's needs and did not deal with their problems effectively.



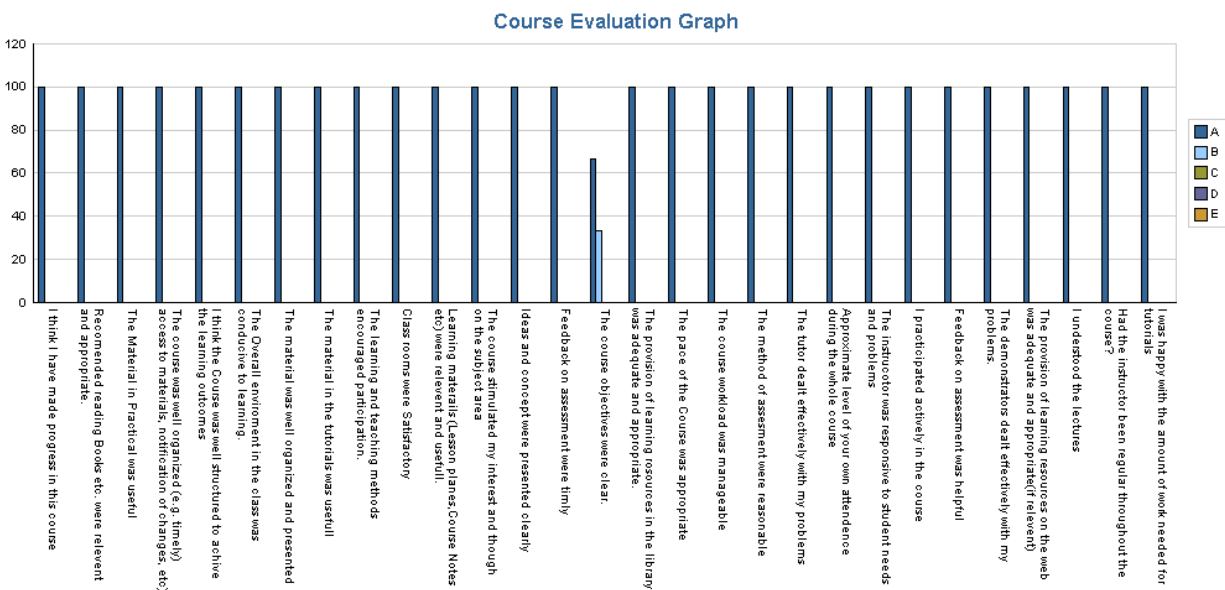
LM-304

About 75 % students stated that the learning material was relevant and useful, the course was well organized and overall environment in the class was conducive to learning. Nearly 70% students were satisfied about class rooms and felt that the course stimulated their interest in the subject area, course objective was clear and material in the practical was useful. Nearly 20% of the respondents felt that the ideas and concepts were not presented clearly, the pace of the course was not appropriate, the material was not well organized and the feedback on the assessments was not helpful.



LM-402

Out of total 29 questions, response to 28 questions was 100% indicating that all the students were satisfactory with most of the aspects related to the given course. Roughly 65% of the students fully agreed that the course objectives were clear while another 35% partially agreed to the statement.



Teacher's Evaluation

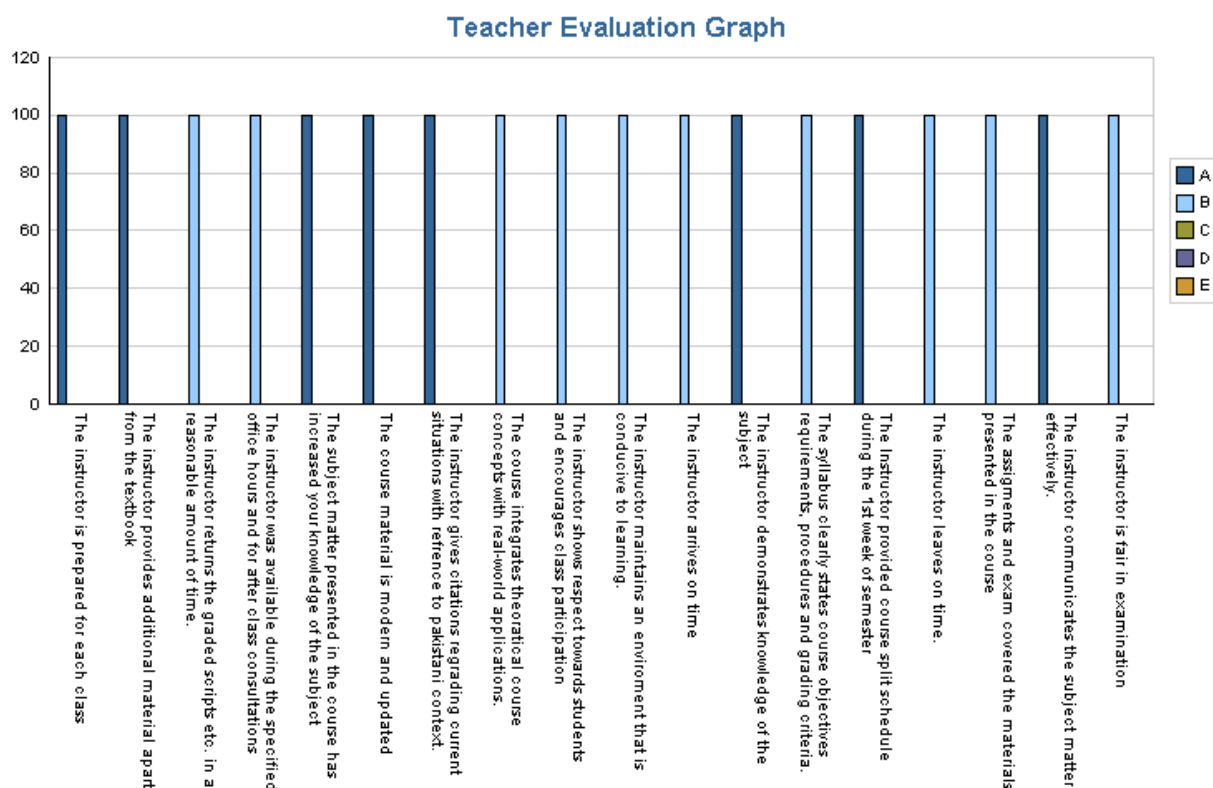
Teacher's performance was assessed through students' comments on prescribed evaluation Performa. This evaluation was done for different courses of the individual teachers filling in Performa 10 through Campus Management System.

The courses of the individual teachers were evaluated on the basis of information gathered from Proforma 1. There are 2 teachers which are numbered 1-2 with monitoring their names, Dr. Nasir Mukhtar and Mr. Zaib-Ur-Rehman. The performance level is graphically presented in figure as shown under.

Teacher Evaluation (Spring 2013)

Teacher 2

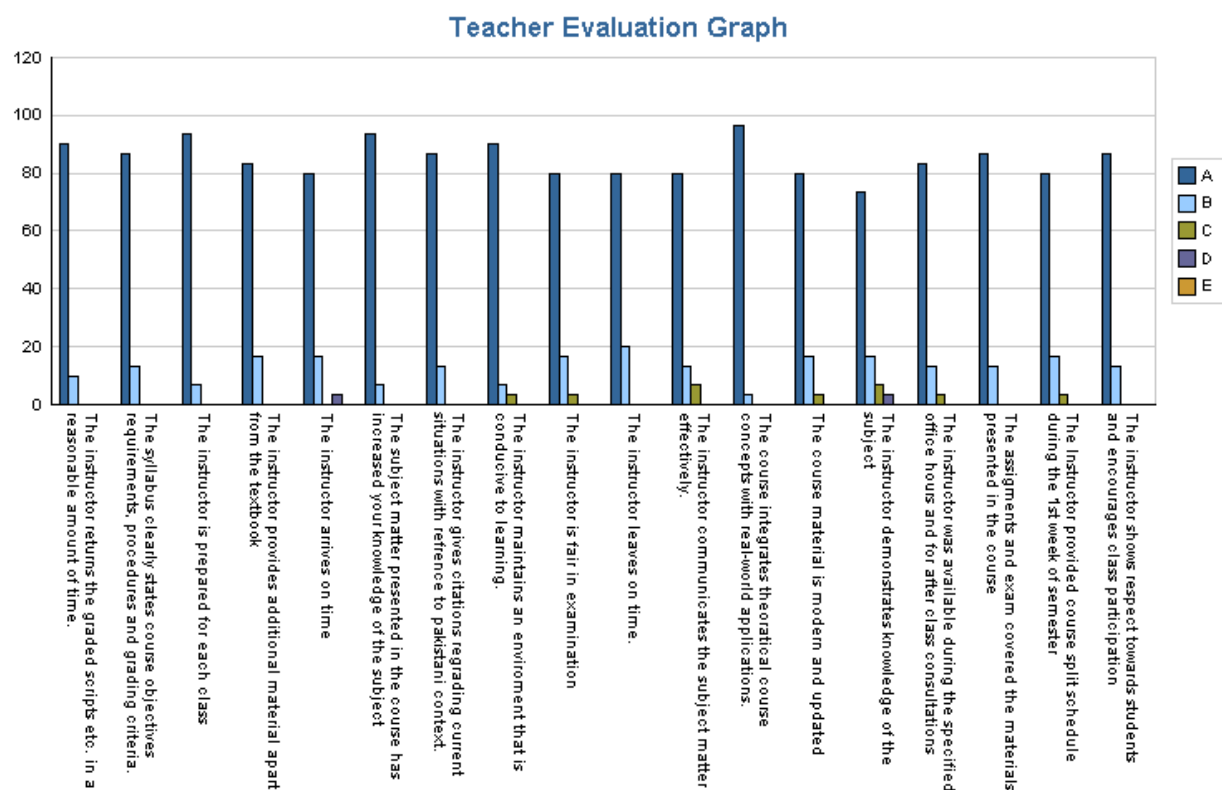
The graph showed that 100% students graded excellent in all parameters, respectively. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes. The teacher evaluation graph showed that 100% students appreciated teacher efforts. He was fair, up to date, and regular and provided knowledge. The teacher attended students every student regarding subject matter and encouraged student participation.



Teacher Evaluation (Fall 2013)

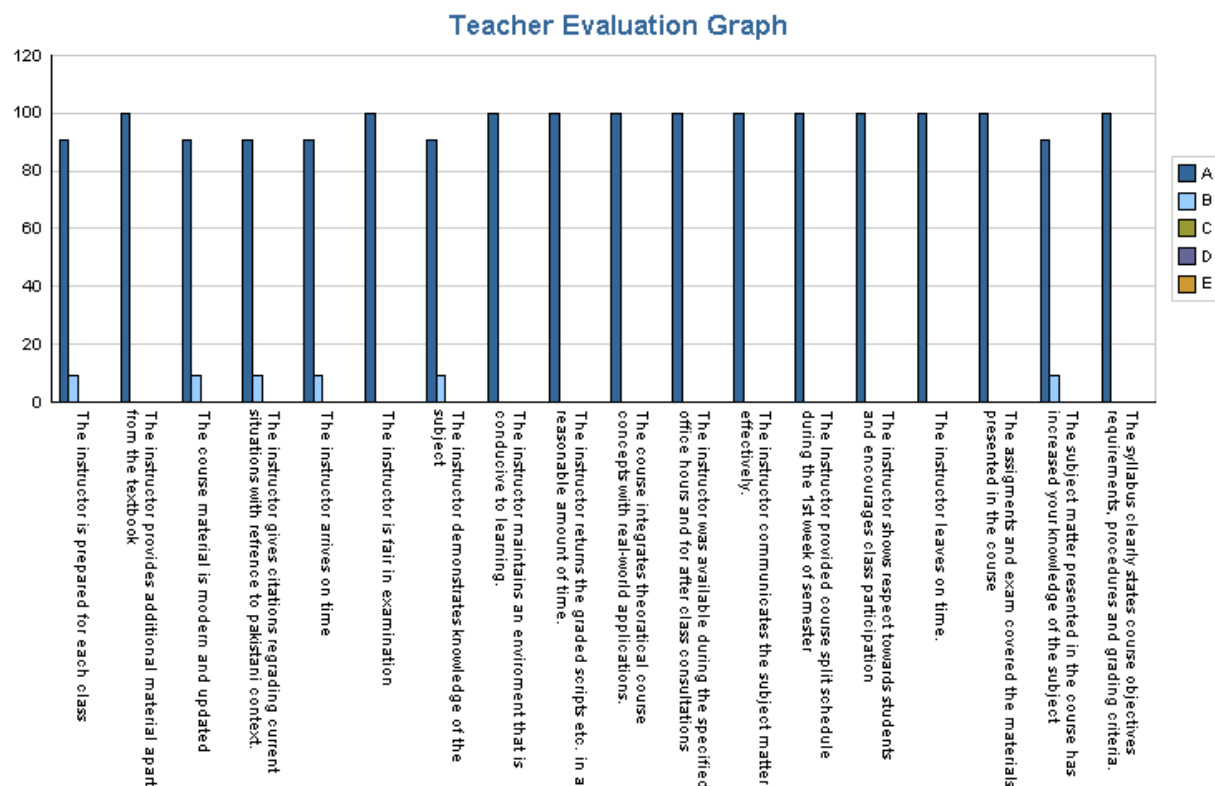
Teacher 1

Evaluation results showed good performance of the teacher. A good percentage of students (100%) reported the punctuality of the teacher. Besides this, 100% students admired that the teacher encourages class participation. But some students (7%) were not agreed that instructor provides the split schedule in the first week of the semester.



Teacher 2

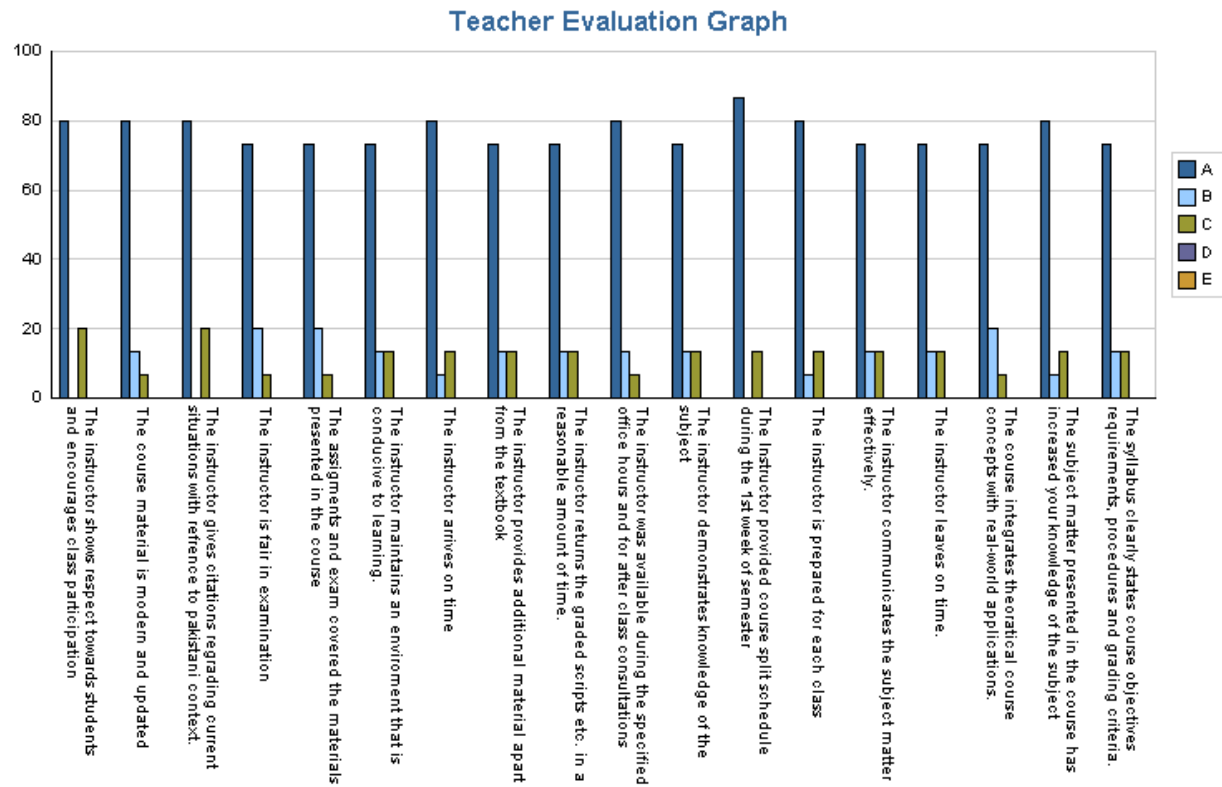
The individual graphs reflected good performance of the teacher in general. More than eighty percent of the students stated that the course contents were updated and 100% student stated that teacher was prepared for each class. Besides, more than 85% students reported that the teacher demonstrates knowledge of the subject. Furthermore, a majority of students agreed that he took and left the class in time.



Teacher Evaluation (Spring 2014)

Teacher 2

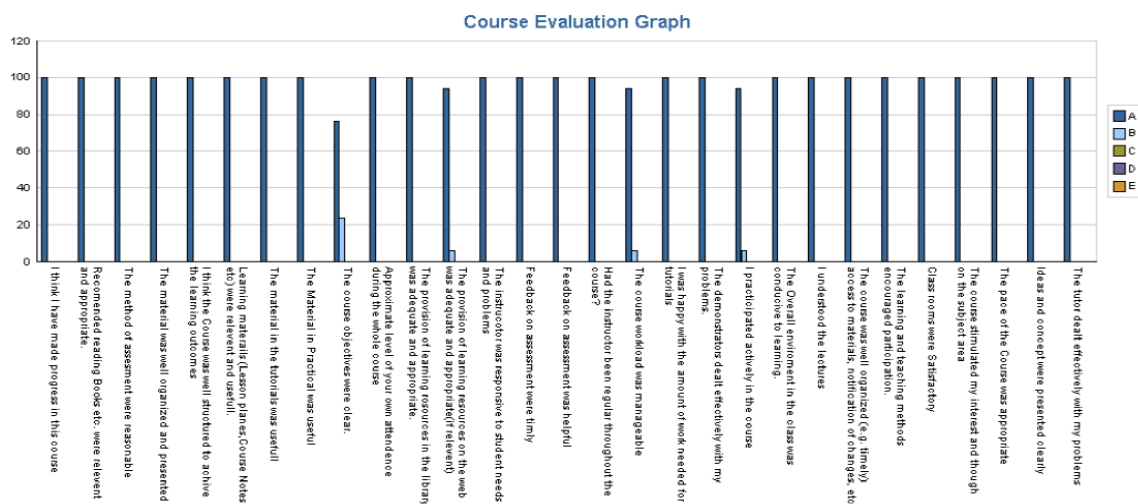
Teacher evaluation by students during Spring-2014 is mentioned in the graph given below. It is hereby presented in the graph that 100 % of enrolled students graded excellent, very good and good in terms of all parameters. The instructor was up to date and delivered his knowledge with full preparation. He was regular and communicated excellently. He responded very well to all the questions raised by students. The assignments given enhance the capability of students and modern & relevant material was provided.



Courses Evaluation (Fall 2013)

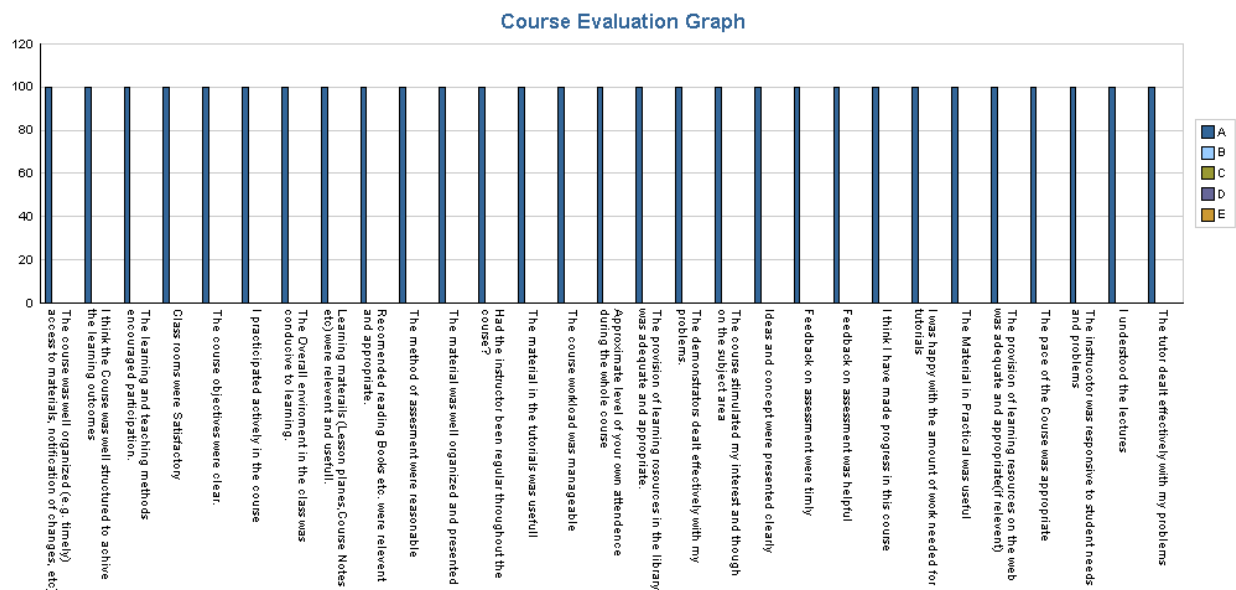
PS 101

About 100% students revealed that the course was well organized, ideas and concept was presented effectively. All the students were satisfied from the classrooms. More than 75 % students demonstrated that the course objectives were clear. Students demonstrated that the teacher was responsive to the student needs and the methods of assessment were reasonable. That is why 100% agreed that they have made progress in this course.



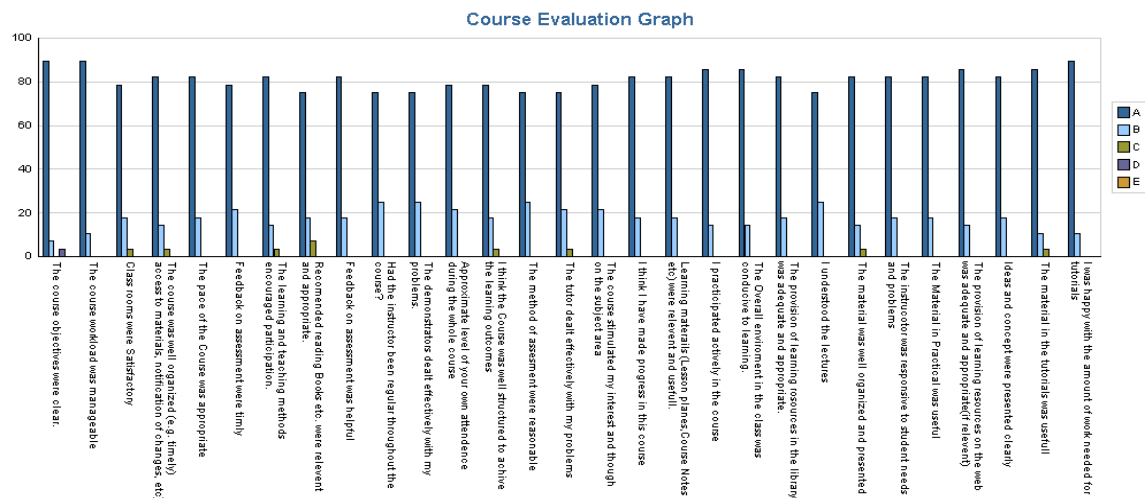
PS 202

The graph showed that 100% students graded excellent in all parameters. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



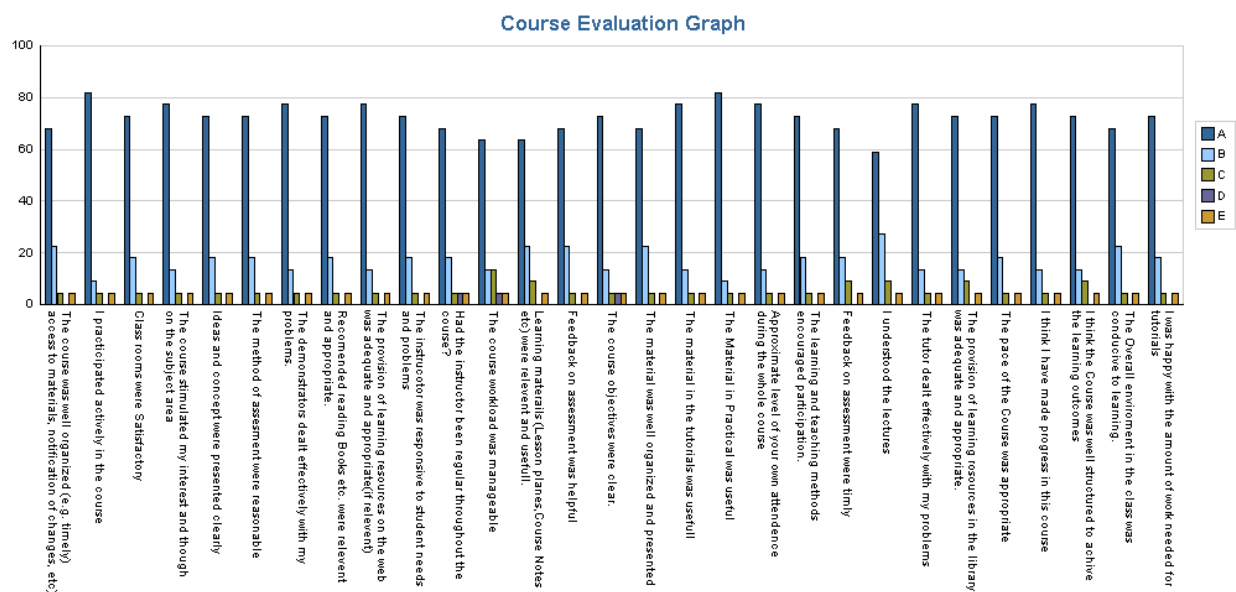
PS 201

About 88% students strongly agreed that the course objectives were clear and 90% had the idea that the workload was manageable. Good percentage of the students (83% and 17% strongly agreed and agreed respectively claimed that they actively participated in the course. Likewise, 82% strongly agreed that they made progress in the course. These good percentages are supported that the instructor was 78% regular during the whole course. More than 80 % of students was satisfied with the material in the practical was useful.



PS 501

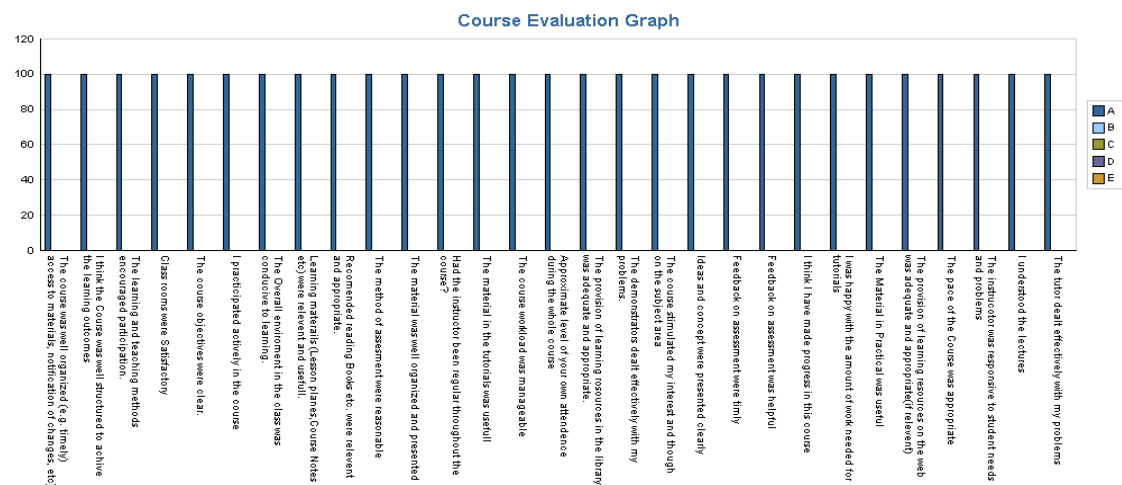
The majority of students ranging from 66% to 82% disclosed that the course objectives were clear, course work was manageable and the course was well organized. About 78% students strongly affirmed that they made progress into the course and ideas were presented clearly up to 78%. Like other courses, 5% students were not satisfied with class room environment.



Courses Evaluation (Spring 2013)

PS 302

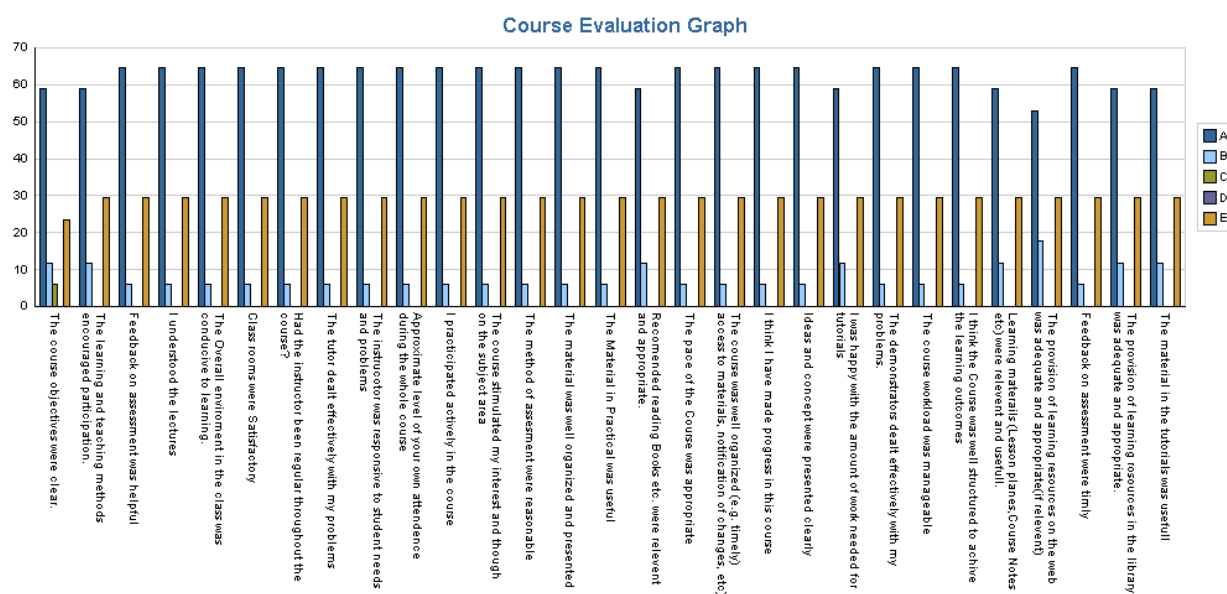
It was agreed by students (100% strongly agreed) that course objectives were clear. Also, 100 % strongly agreed that the course contents were manageable and 100% agreed that the course was well organized. A good percentage (100% strongly agreed) that they actively participated and made progress in the course, and also 100% of the students claimed their attendance more than 80%. Again, 100% students pointed out the satisfactory conditions of class rooms.



Courses Evaluation (Spring 2014)

PS 302

About 58% and 12% students strongly agreed and agreed respectively that course objectives were clear. Whereas, 67 and 7% students strongly agreed and agreed respectively that the course work was manageable. Likewise only 65% and 8% strongly agreed and agreed respectively that the course was well organized. About 64% of the students agreed that workload was manageable. Similarly 64% students strongly agreed that they made progress in the course. Most of the students were satisfied with the overall environment of class. Only 29% agreed that class room condition was not satisfactory.



Teacher's Evaluation

Teacher's performance was assessed through students' comments on prescribed evaluation Performa. This evaluation was done for different courses of the individual teachers filling in Performa 10 through Campus Management System.

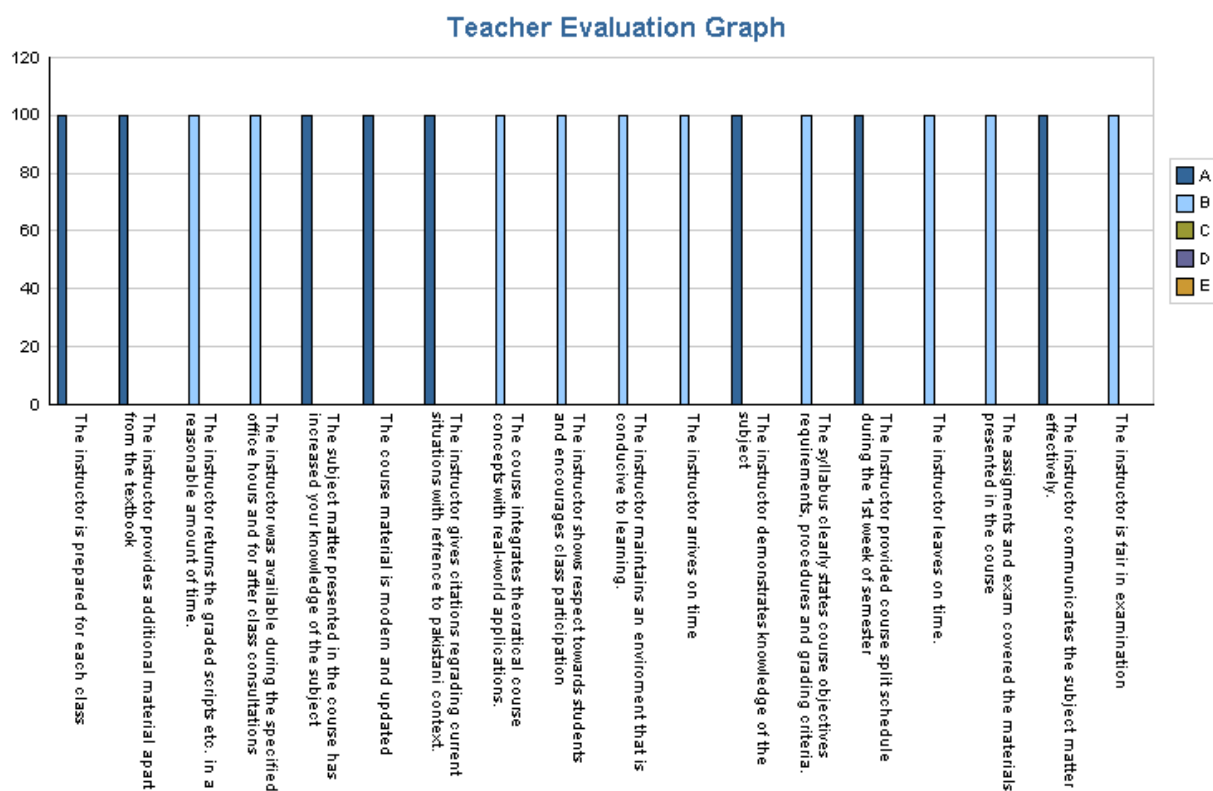
The courses of the individual teachers were evaluated on the basis of information gathered from Proforma 1. There are 2 teachers which are numbered 1-2 with monitoring their names, Dr. Nasir Mukhtar and Mr. Zaib-Ur-Rehman. The performance level is graphically presented in figure as shown under.

Spring 2013

Teacher 2

The graph showed that 100% students graded excellent in all parameters, respectively. The course was well organized, structured and material given was useful. The objectives were clear

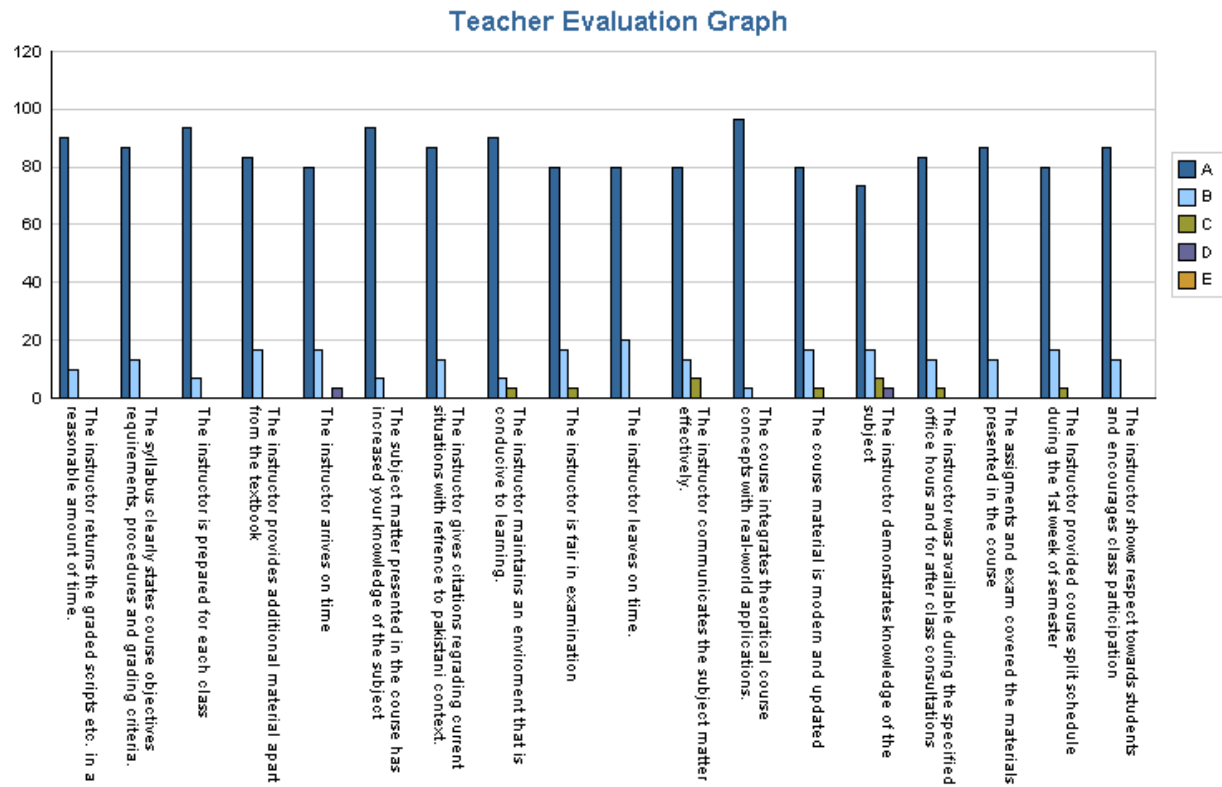
and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes. The teacher evaluation graph showed that 100% students appreciated teacher efforts. He was fair, up to date, and regular and provided knowledge. The teacher attended students every student regarding subject matter and encouraged student participation.



Fall 2013

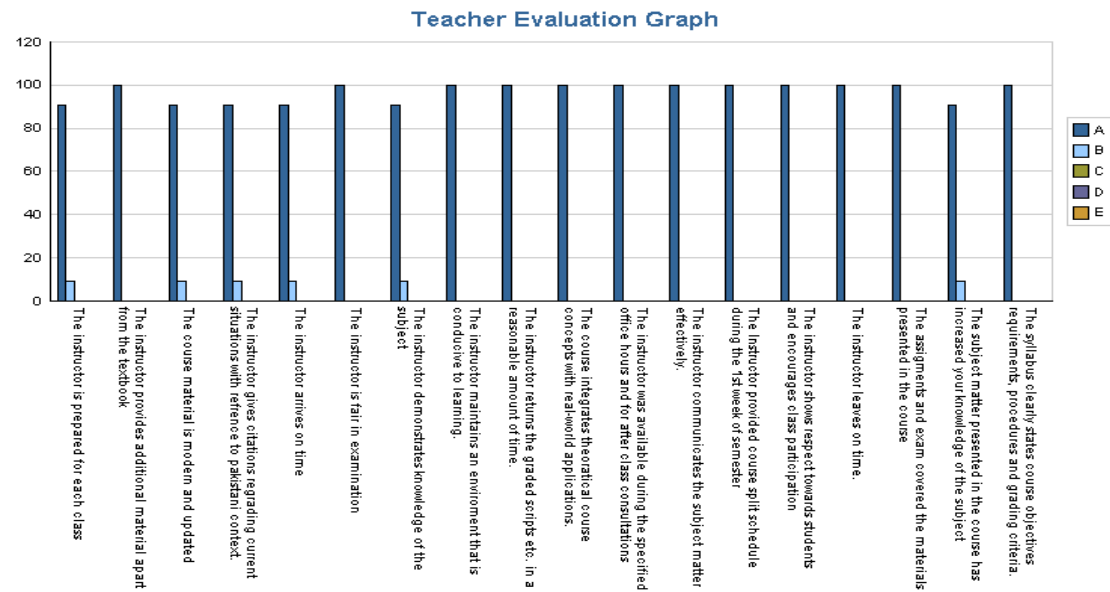
Teacher 1

Evaluation results showed good performance of the teacher. A good percentage of students (100%) reported the punctuality of the teacher. Besides this, 100% students admired that the teacher encourages class participation. But some students (7%) were not agreed that instructor provides the split schedule in the first week of the semester.



Teacher 2

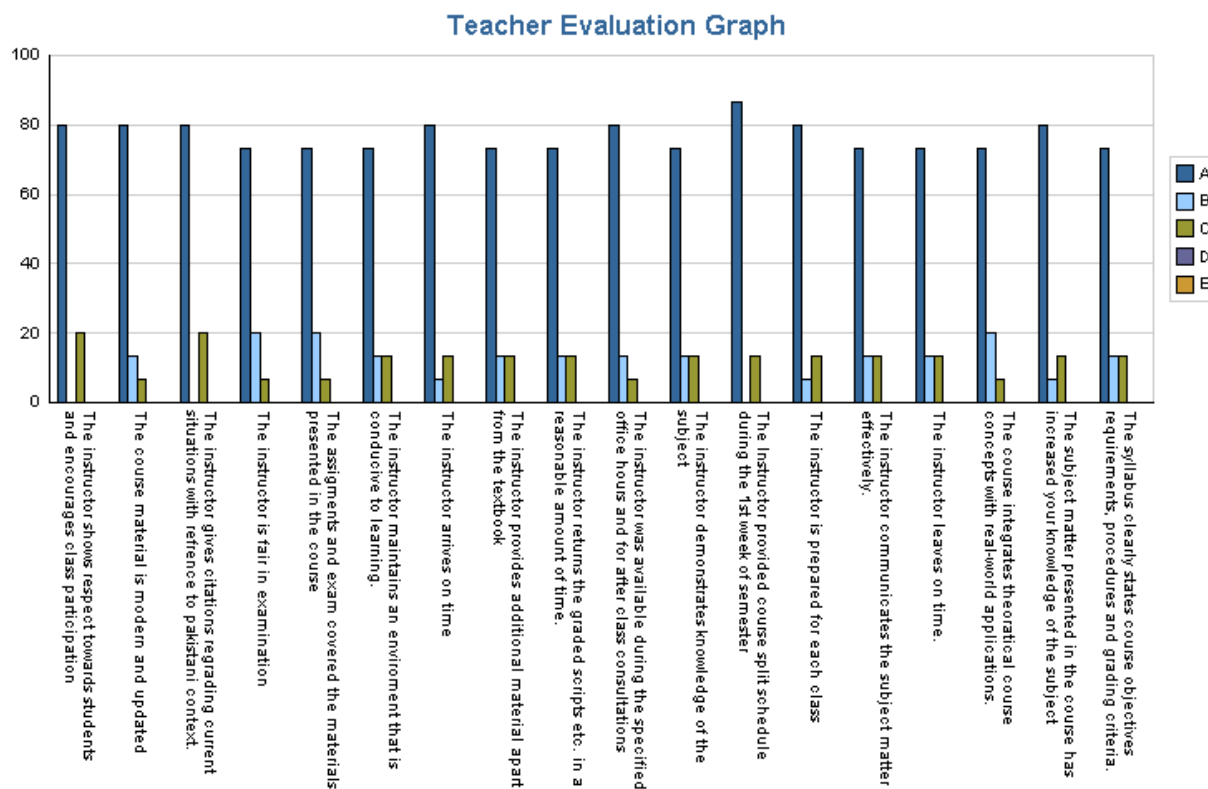
The individual graphs reflected good performance of the teacher in general. More than eighty percent of the students stated that the course contents were updated and 100% student stated that teacher was prepared for each class. Besides, more than 85% students reported that the teacher demonstrates knowledge of the subject. Furthermore, a majority of students agreed that he took and left the class in time.



Spring 2014

Teacher 2

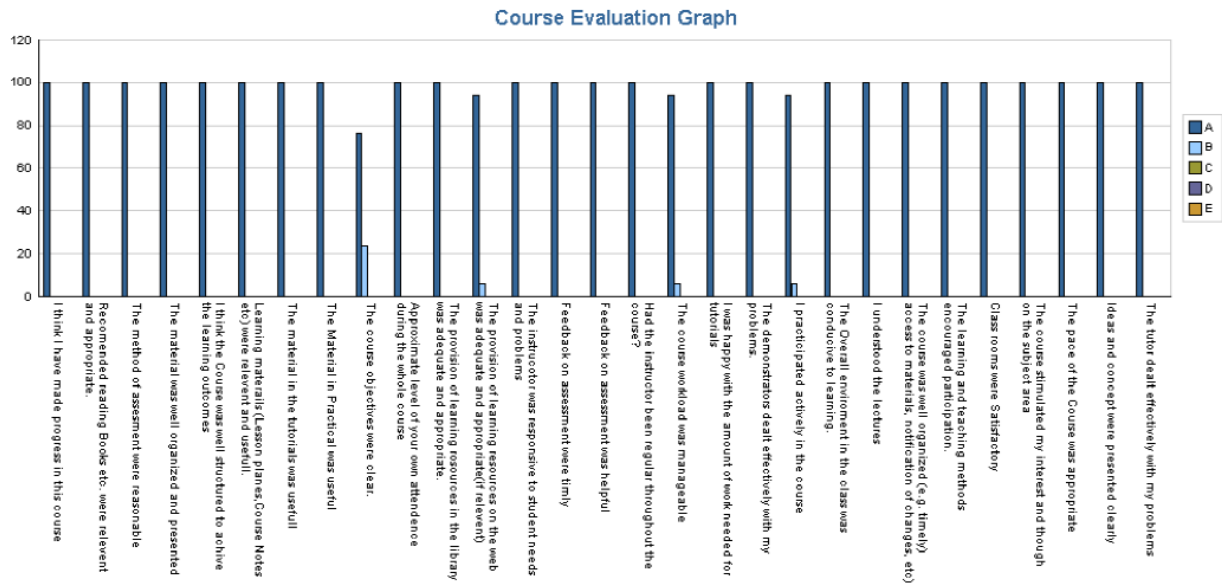
Teacher evaluation by students during Spring-2014 is mentioned in the graph given below. It is hereby presented in the graph that 100 % of enrolled students graded excellent, very good and good in terms of all parameters. The instructor was up to date and delivered his knowledge with full preparation. He was regular and communicated excellently. He responded very well to all the questions raised by students. The assignments given enhance the capability of students and modern & relevant material was provided.



Course Evaluation (Fall 2013)

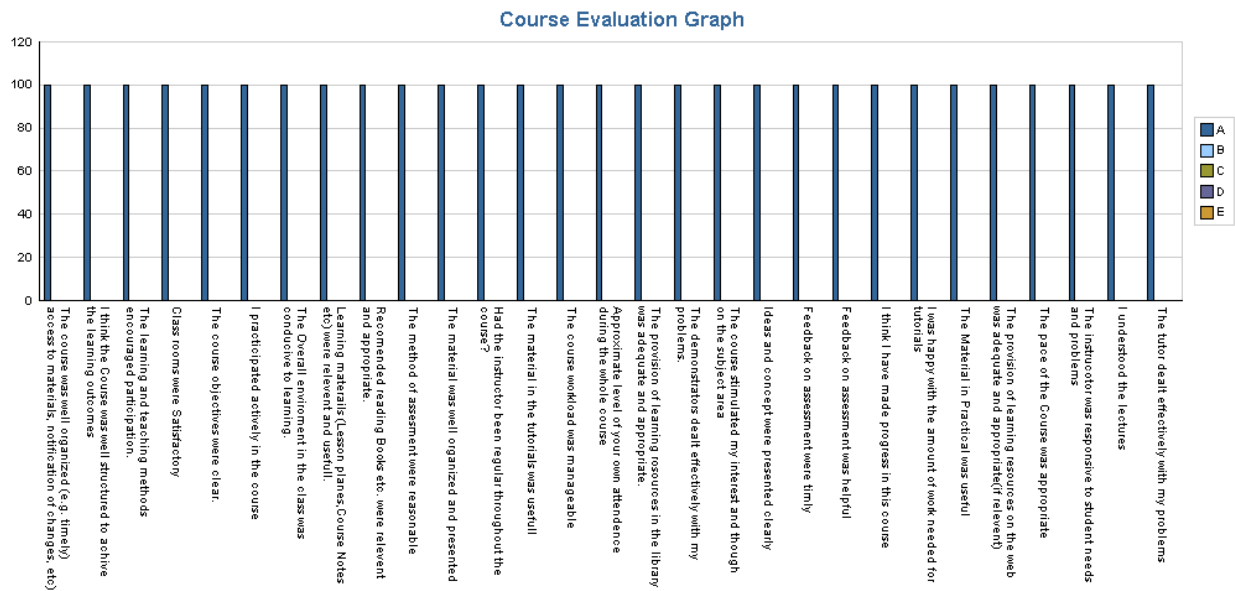
PS 101

About 100% students revealed that the course was well organized, ideas and concept was presented effectively. All the students were satisfied from the classrooms. More than 75 % students demonstrated that the course objectives were clear. Students demonstrated that the teacher was responsive to the student needs and the method of assessment were reasonable. That is why 100% agreed that they have made progress in this course.



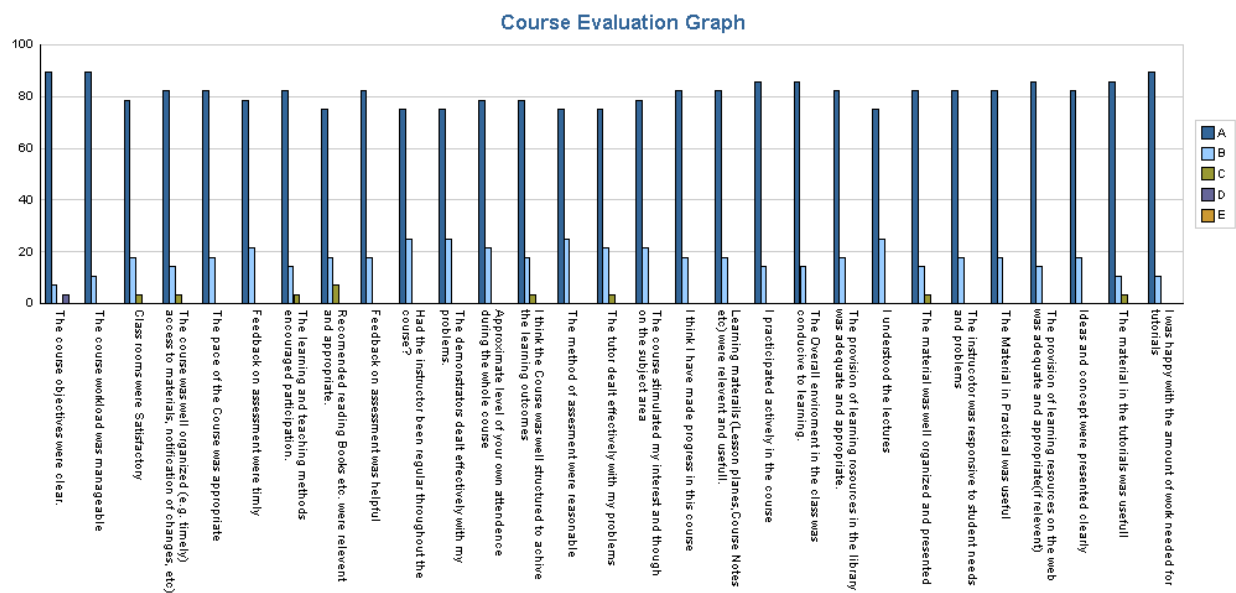
PS 202

The graph showed that 100% students graded excellent in all parameters. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



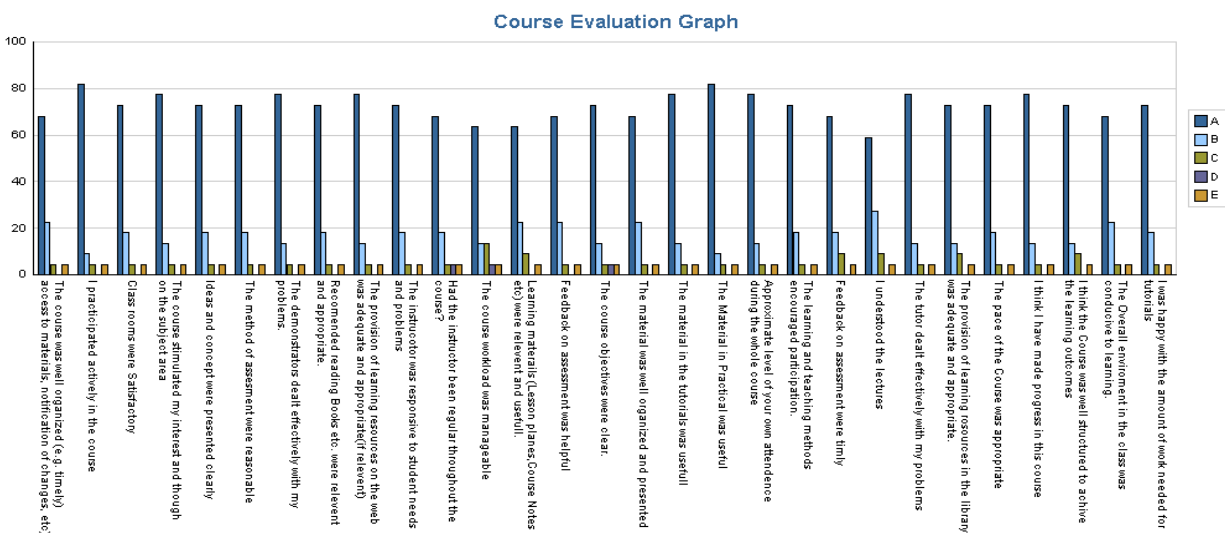
PS 201

About 88% students strongly agreed that the course objectives were clear and 90% had the idea that the workload was manageable. Good percentage of the students (83% and 17% strongly agreed and agreed respectively claimed that they actively participated in the course. Likewise, 82% strongly agreed that they made progress in the course. These good percentages are supported that the instructor was 78% regular during the whole course. More than 80 % of students was satisfied with the material in the practical was useful.



PS 501

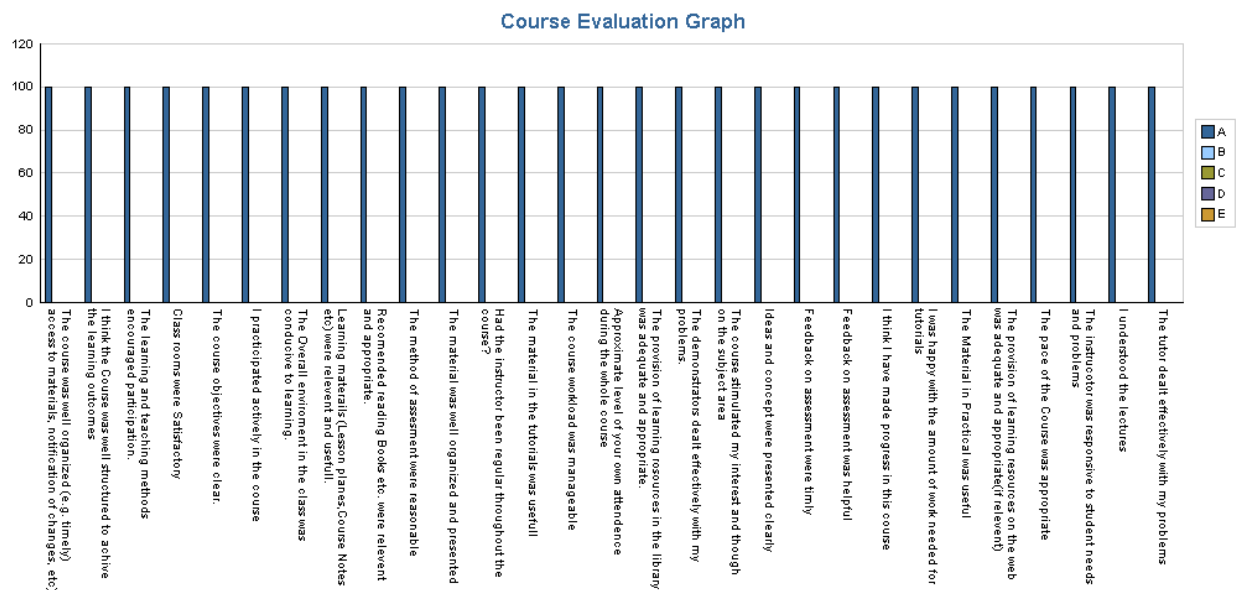
The majority of students ranging from 66% to 82% disclosed that the course objectives were clear, course work was manageable and the course was well organized. About 78% students strongly affirmed that they made progress into the course and ideas were presented clearly up to 78%. Like other courses, 5% students were not satisfied with class room environment.



Spring 2013

PS 302

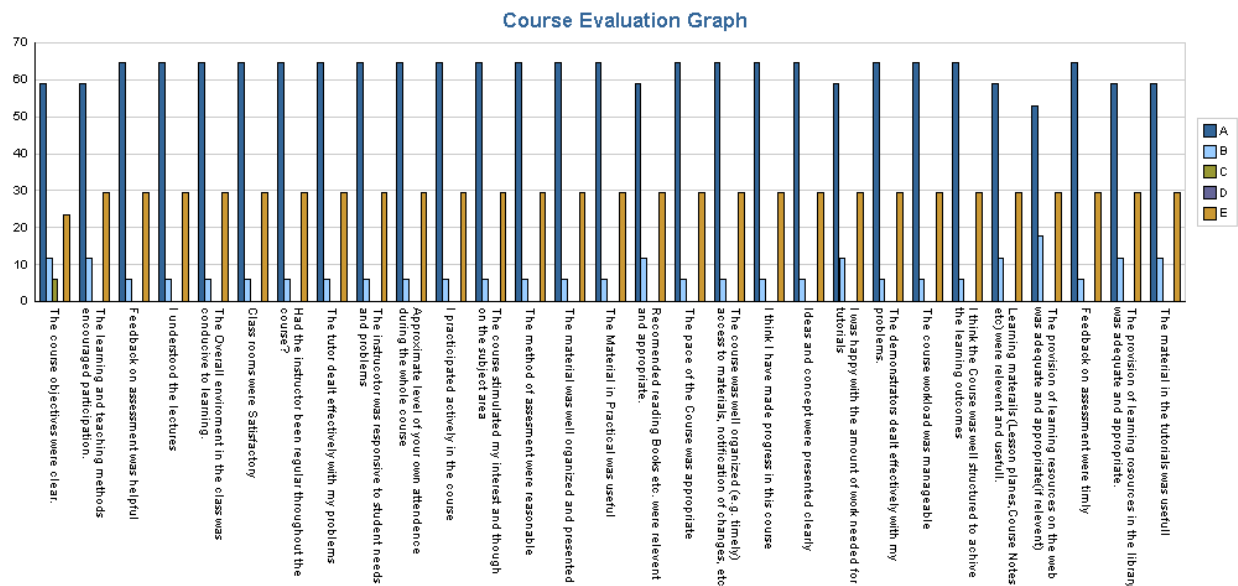
It was agreed by students (100% strongly agreed) that course objectives were clear. Also, 100 % strongly agreed that the course contents were manageable and 100% agreed that the course was well organized. A good percentage (100% strongly agreed) that they actively participated and made progress in the course, and also 100% of the students claimed their attendance more than 80%. Again, 100% students pointed out the satisfactory conditions of class rooms.



Spring 2014

PS 302

About 58% and 12% students strongly agreed and agreed respectively that course objectives were clear. Whereas, 67 and 7% students strongly agreed and agreed respectively that the course work was manageable. Likewise only 65% and 8% strongly agreed and agreed respectively that the course was well organized. About 64% of the students agreed that workload was manageable. Similarly 64% students strongly agreed that they made progress in the course. Most of the students were satisfied with the overall environment of class. Only 29% agreed that class room condition was not satisfactory.



Department of Pathobiology

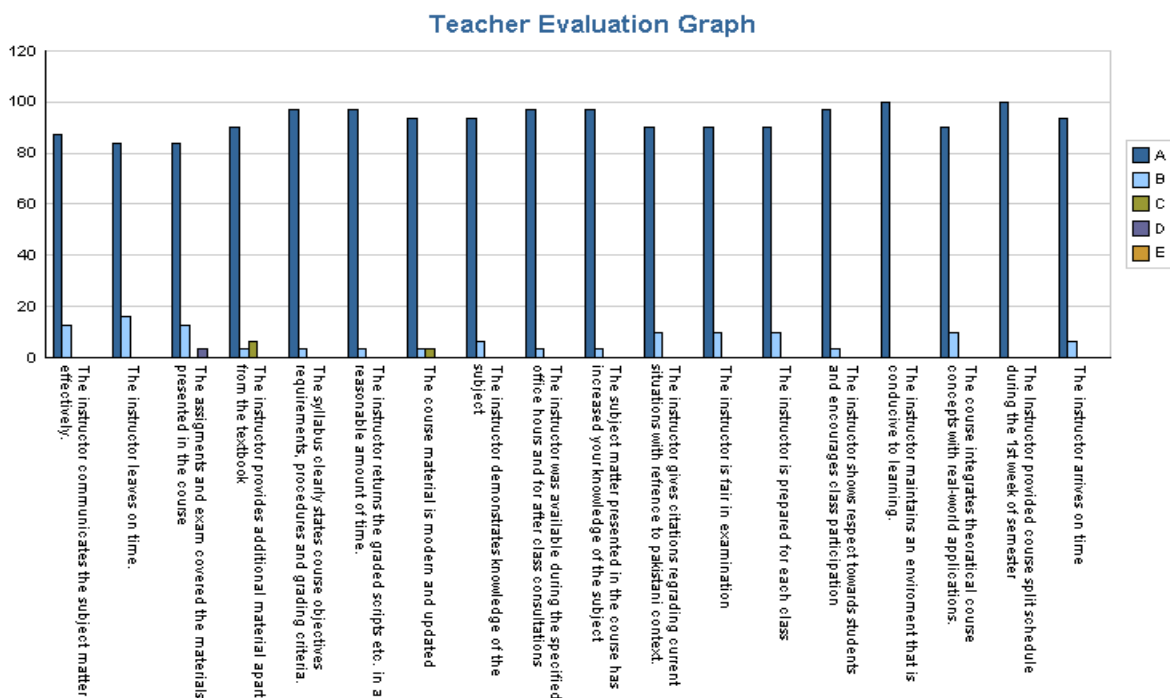
Spring 2013

The four teachers in the department numbered from 1-4 were evaluated during Spring Semester 2013. The names of the teachers along with their allotted numbers are Dr. Imtiaz Ahmed Khan (1) Dr. Murtaz-ul-Hasan (2), Dr. Saif-ur-Rehman (3), Mr. SajidUmer (4). The details of evaluation are given in the preceding paragraphs.

Teacher 1

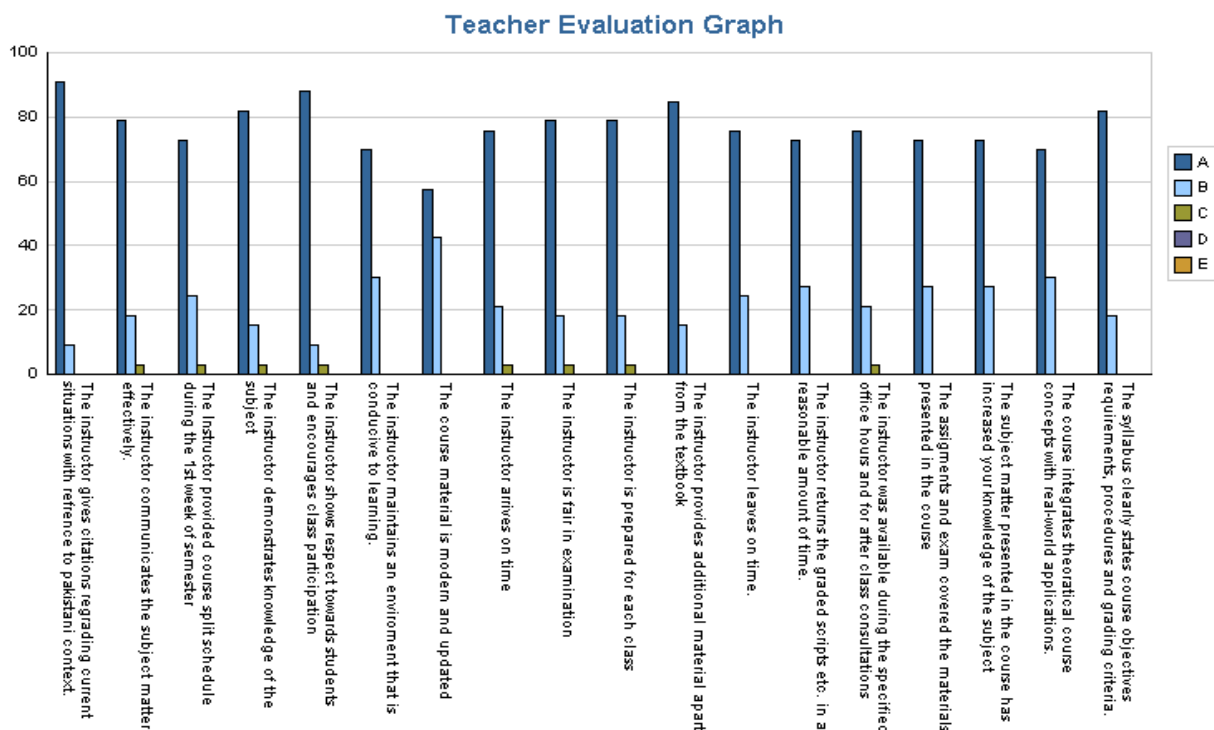
Data shows that 100% of the students strongly agreed that the instructor maintains an environment that is conducive to learning and the instructor provided course split schedule during 1st week of the semester. 98% of the students strongly agreed that the subject matter presented in the course has increased your knowledge of the subject; the instructor shows respect towards students and encourages class participation, the instructor was available during specified office hours and for after class consultations, the instructor returns the graded scripts etc in reasonable time and the syllabus clearly states course objectives, requirements, procedures and grading criteria. 96% of the students strongly agreed that the instructor demonstrates the knowledge of the subject; the course material is modern and updated and the instructor arrives on time. 95% of the students strongly agreed that the instructor is fair in examination; the instructor gives citations regarding current situations with reference to Pakistani context, the instructor provides additional material apart from the textbook, the instructor is prepared for each class and the course integrates theoretical course concepts real-world applications. 85% of the students strongly agreed that the instructor communicates the subject matters effectively. 83% of the

students strongly agreed that the assignments and exams covered the material presented in the course and the instructor leaves on time.



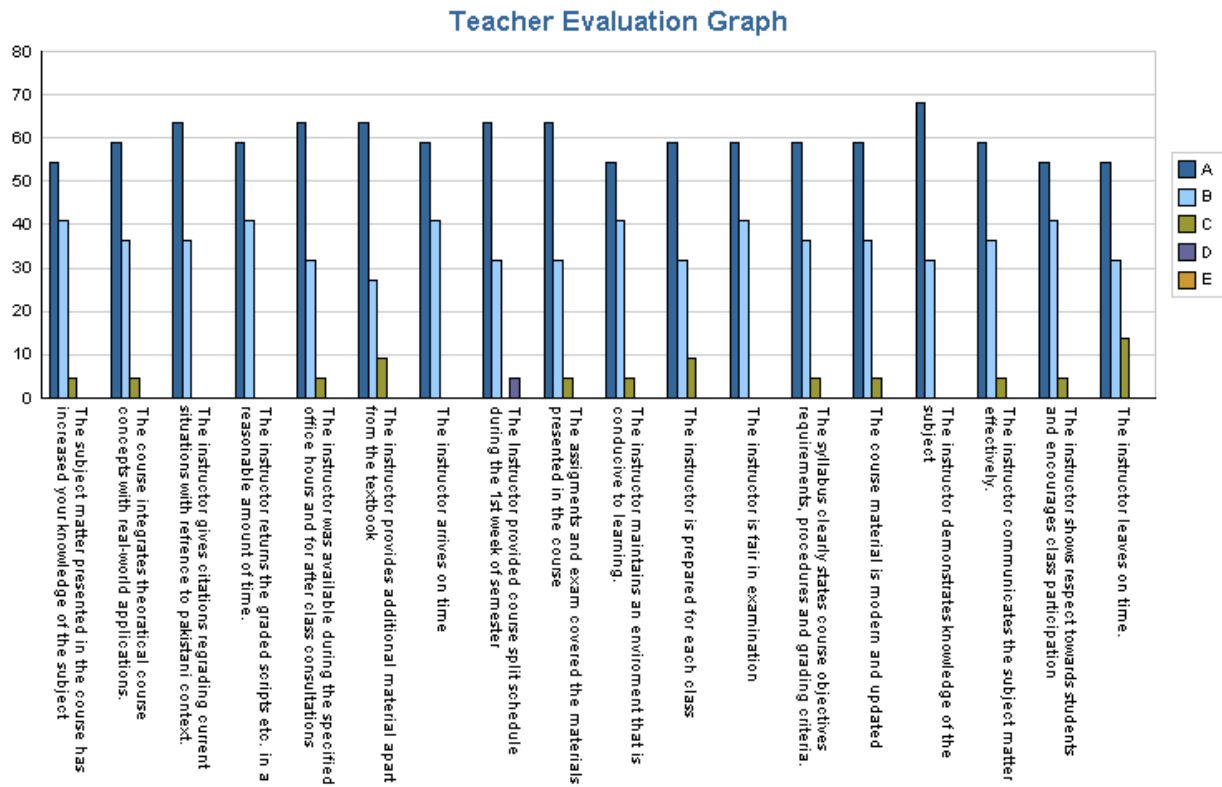
Teacher 2

Data shows that 90% of the students strongly agreed that the instructor demonstrates the knowledge of the subject. 80% the students strongly agreed that the instructor gives citations regarding current situations with reference to Pakistani context, the instructor provides additional material apart from the textbook, the instructor provided course split schedule during 1st week of the semester, the instructor was available during specified office hours and for after class consultations and the assignments and exams covered the material presented in the course. More than 70% of the students strongly agreed that the instructor maintains an environment that is conducive to learning, the subject matter presented in the course has increased your knowledge of the subject; the instructor shows respect towards students and encourages class participation, the instructor returns the graded scripts etc in reasonable amount of time, the syllabus clearly states course objectives, requirements, procedures and grading, the course material is modern and updated, the instructor arrives on time, the instructor is fair in examination, the instructor is prepared for each class, the course integrates theoretical course concepts real-world applications, the instructor communicates the subject matters effectively and the instructor leaves on time.



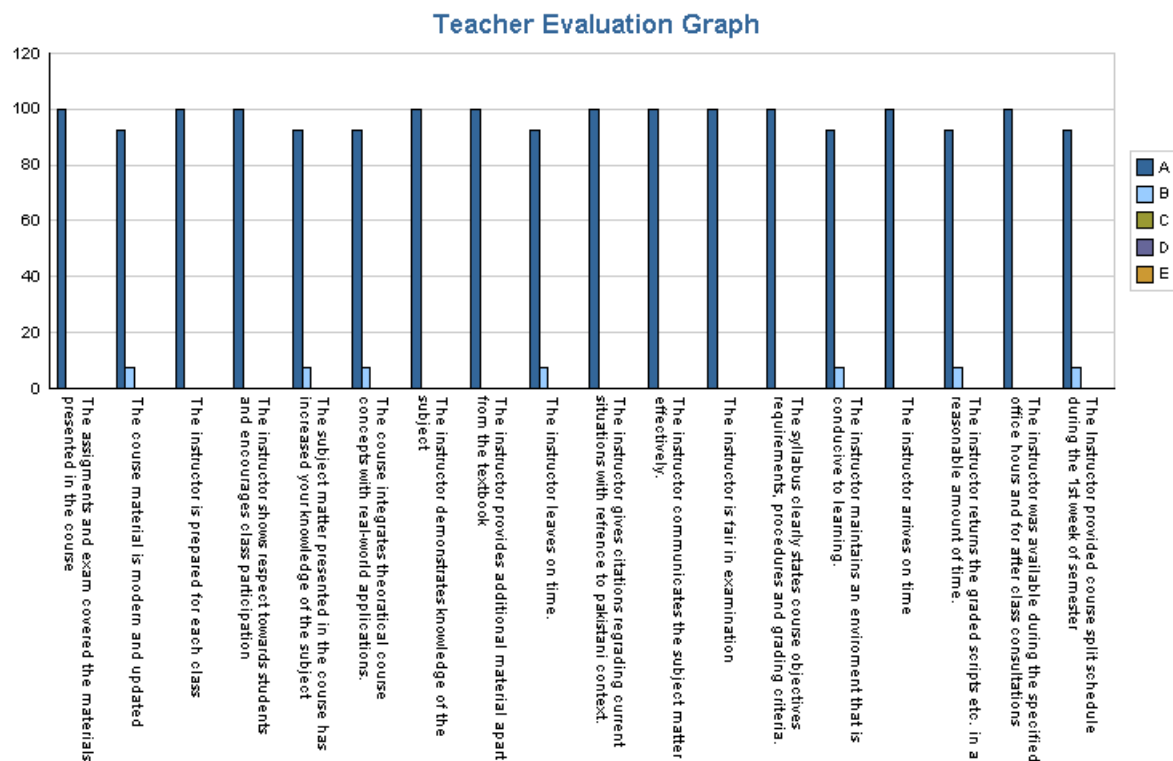
Teacher 3

Data shows that 69% of the students strongly agreed that the instructor demonstrates the knowledge of the subject. 64% the students strongly agreed that the instructor gives citations regarding current situations with reference to Pakistani context, the instructor provides additional material apart from the textbook, the instructor provided course split schedule during 1st week of the semester, the instructor was available during specified office hours and for after class consultations and the assignments and exams covered the material presented in the course. Below 60% of the students strongly agreed that the instructor maintains an environment that is conducive to learning, the subject matter presented in the course has increased your knowledge of the subject; the instructor shows respect towards students and encourages class participation, the instructor returns the graded scripts etc in reasonable amount of time, the syllabus clearly states course objectives, requirements, procedures and grading, the course material is modern and updated, the instructor arrives on time, the instructor is fair in examination, the instructor is prepared for each class, the course integrates theoretical course concepts real-world applications, the instructor communicates the subject matters effectively and the instructor leaves on time.



Teacher 4

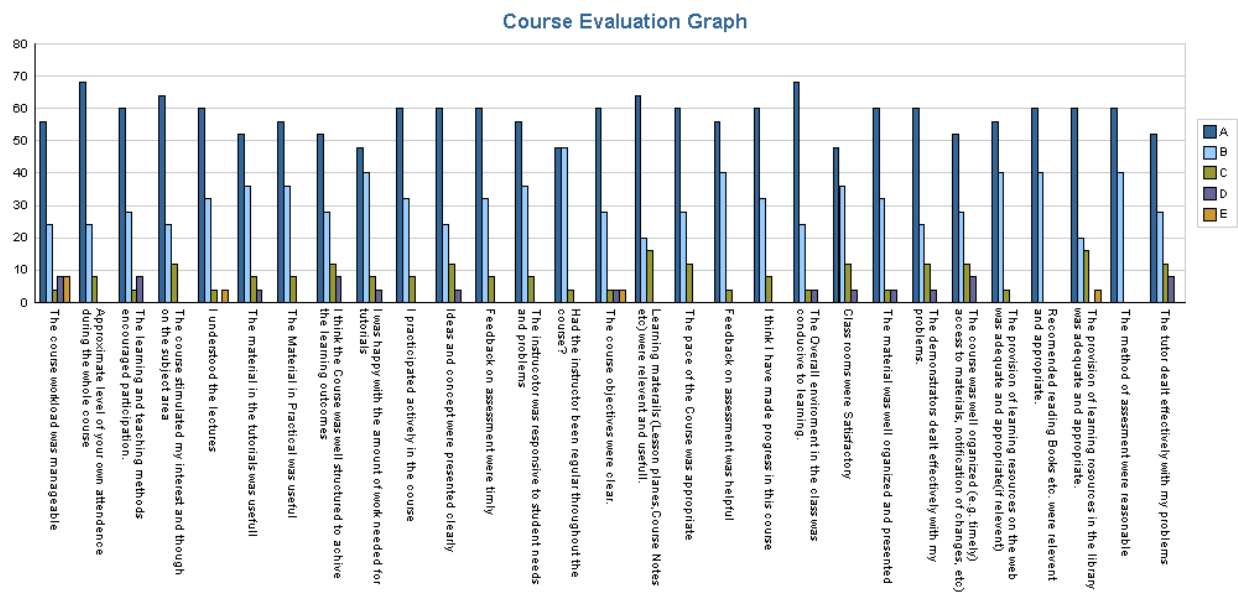
Data shows that 100 % of the students strongly agreed that the instructor provides additional material apart from the textbook, the instructor is fair in examination, the assignments and exams covered the material presented in the course, the instructor shows respect towards students and encourages class participation, the instructor demonstrates the knowledge of the subject, the instructor is prepared for each class, the syllabus clearly states course objectives, requirements, procedures and grading criteria, the instructor gives citations regarding current situations with reference to Pakistani context, the instructor communicates the subject matters effectively, the instructor arrives on time and the instructor was available during specified office hours and for after class consultations. 95 % of the students strongly agreed that the course material is modern and updated; the subject matter presented in the course has increased your knowledge of the subject, the course integrates theoretical course concepts real-world applications, the instructor leaves on time, the instructor maintains an environment that is conducive to learning, the instructor provided course split schedule during 1st week of the semester and the instructor returns the graded scripts etc in reasonable amount of time.



COURSES EVALUATION

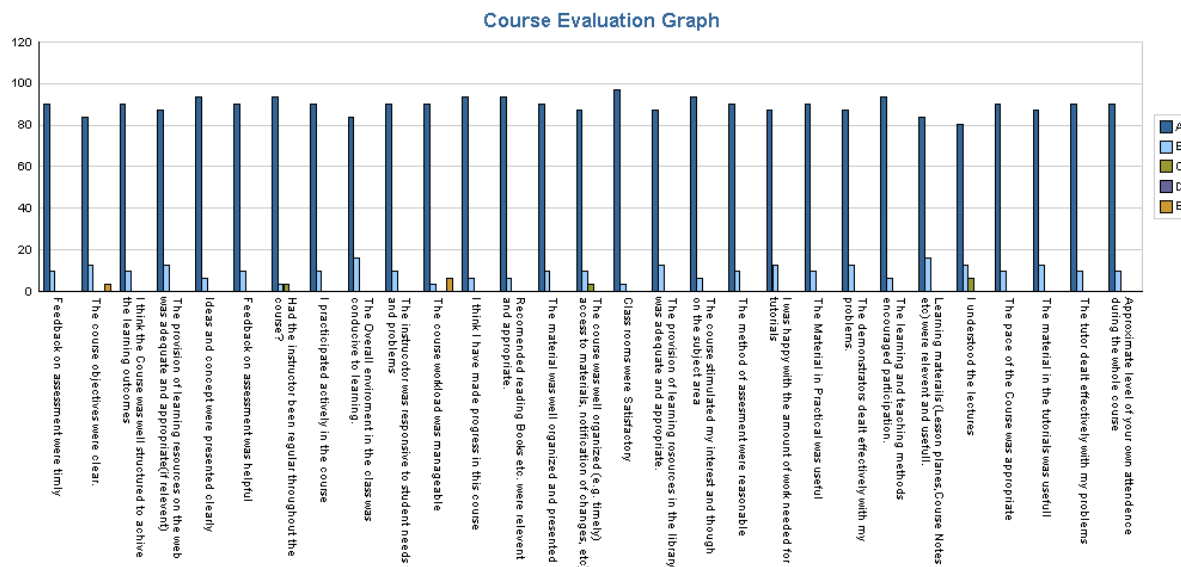
MICRO-202

Data shows that 68% of the students strongly agreed that the approximate level of students attendance during the whole course was higher and overall environment in the class was conducive to learning. 65 % of the students strongly agreed that the course stimulated their interest and though on the subject area and learning materials (lesson planes, course notes etc) relevant and useful. 60% of the students strongly agreed that they have understood the lectures, they have participated actively in the course, ideas and concepts presented clearly, feedback on assessment was timely, course objectives clear, the pace of the course was appropriate, they have made progress in the course, provision of learning resources in the library adequate and appropriate, method of assessment was reasonable, the learning and teaching methods encouraged the participation, the material was well organized and presented, recommended reading books etc relevant and appropriate and demonstrators dealt effectively with their problems. Below 60% of the students strongly agreed that the course workload was manageable, material in the practical was useful, material in tutorials was useful, classrooms satisfactory, the course was well structured to archive learning outcomes, they happy with the amount of work needed for the tutorials and the instructor had been regular throughout the course.



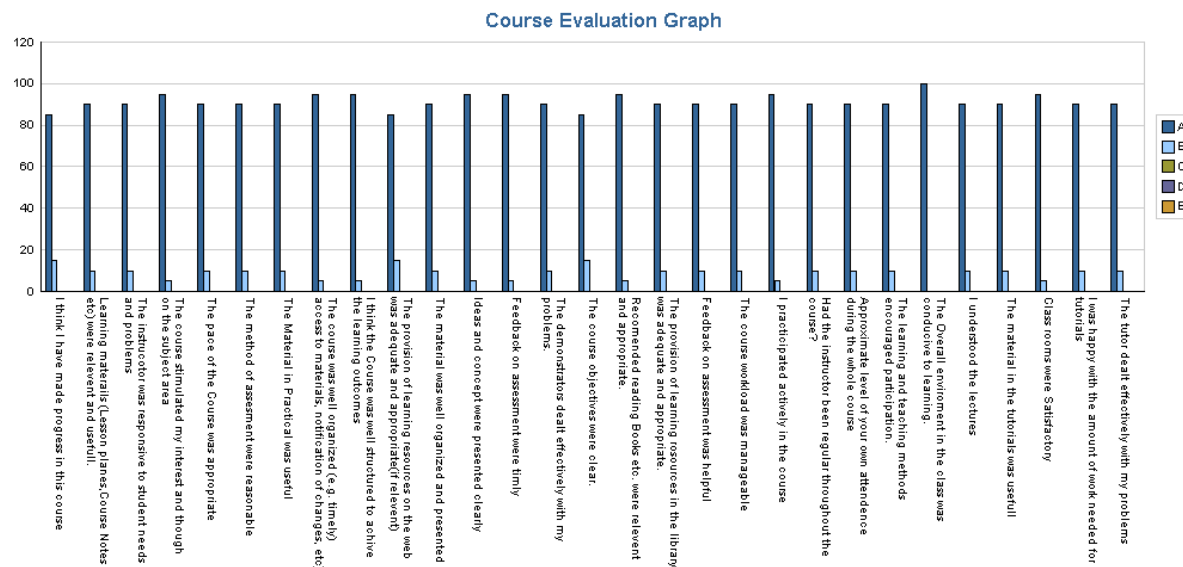
PARA-102

Data shows that 98 % of the students strongly agreed that the classrooms satisfactory. 96% of the students strongly agreed that the ideas and concepts presented clearly, they have made progress in this course, the learning and teaching methods encouraged the participation, recommended reading books relevant and appropriate and the course stimulated their interest and though on the subject area. 94 % of the students strongly agreed that the feedback on assessment was timely, feedback on assessment was helpful, they have participated actively in this course, course workload was manageable, method of assessment was reasonable, material in practical was helpful, pace of the course was appropriate, approximate level of student's attendance during the whole course was higher, the tutor dealt effectively with their problems, the course was well structured to archive learning outcomes, the instructor was responsive to their needs and problems and the material was well organized and presented. 92 % of the students strongly agreed that the provision of learning resources in the library adequate and appropriate, material in the tutorials was helpful, provision of learning resources on the web adequate and appropriate, the course was well organized (e.g. timely access to materials, notification of changes etc), demonstrators dealt effectively with their problems and they happy with the amount of work needed for the tutorials. 84 % of the students strongly agreed that the course objectives clear, the overall environment in the class was conducive to learning and the learning materials (lesson planes, course notes etc) relevant and useful while 80% of the students strongly agreed that they have understood the lectures.



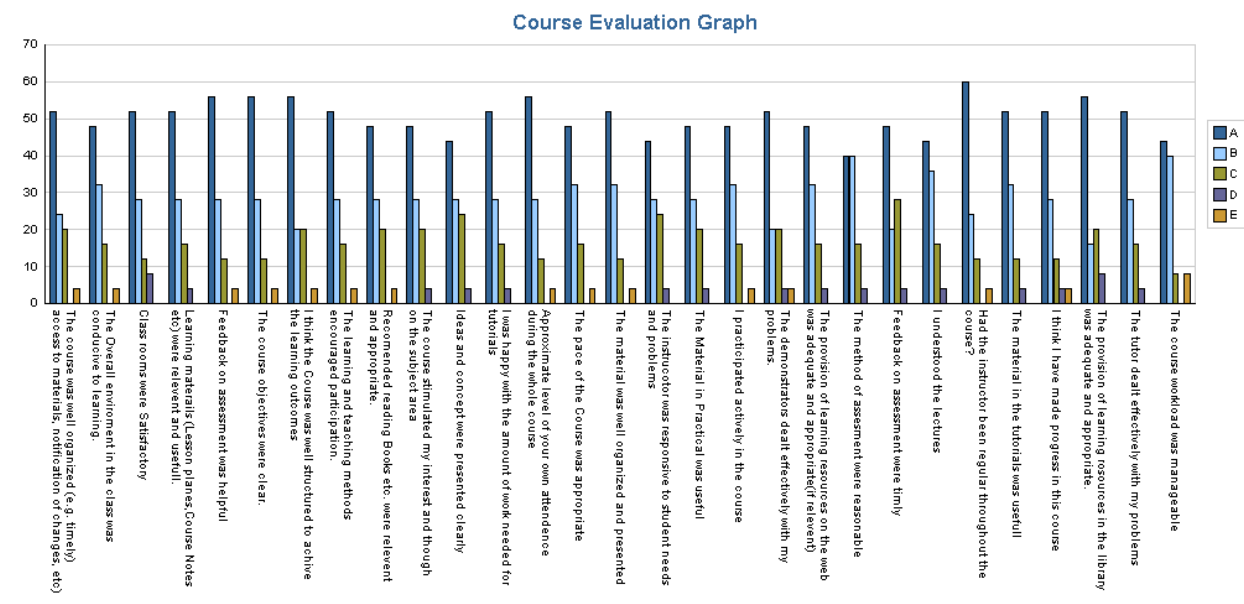
MICRO-102

Data shows that 100 % of the students were strongly agreed that the overall environment in the class was conducive to learning. 97% of the students were strongly agreed that the ideas and concepts were presented clearly, feedback on assessment was timely, they have participated actively in this course, the classrooms were satisfactory, the course stimulated their interest and though on the subject area, the course was well organized (e.g. timely access to materials, notification of changes etc), the course was well structured to archive learning outcomes and recommended reading books were relevant and appropriate. 90 % of the students were strongly agreed that the material in practical was helpful, feedback on assessment was helpful, course workload was manageable, material in the tutorials was helpful, they have understood the lectures, provision of learning resources in the library were adequate, the learning materials (lesson planes, course notes etc) were relevant and useful, the pace of the course was appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, method of assessment was reasonable, the material was well organized and presented, the instructor had been regular throughout the course, they were happy with the amount of work needed for the tutorials, approximate level of student's attendance during the whole course was higher, the learning and teaching methods encouraged the participation and the tutor dealt effectively with their problems. 84 % of the students were strongly agreed that they have made progress in this course, the course objectives were clear and provision of learning resources on the web were adequate and appropriate.



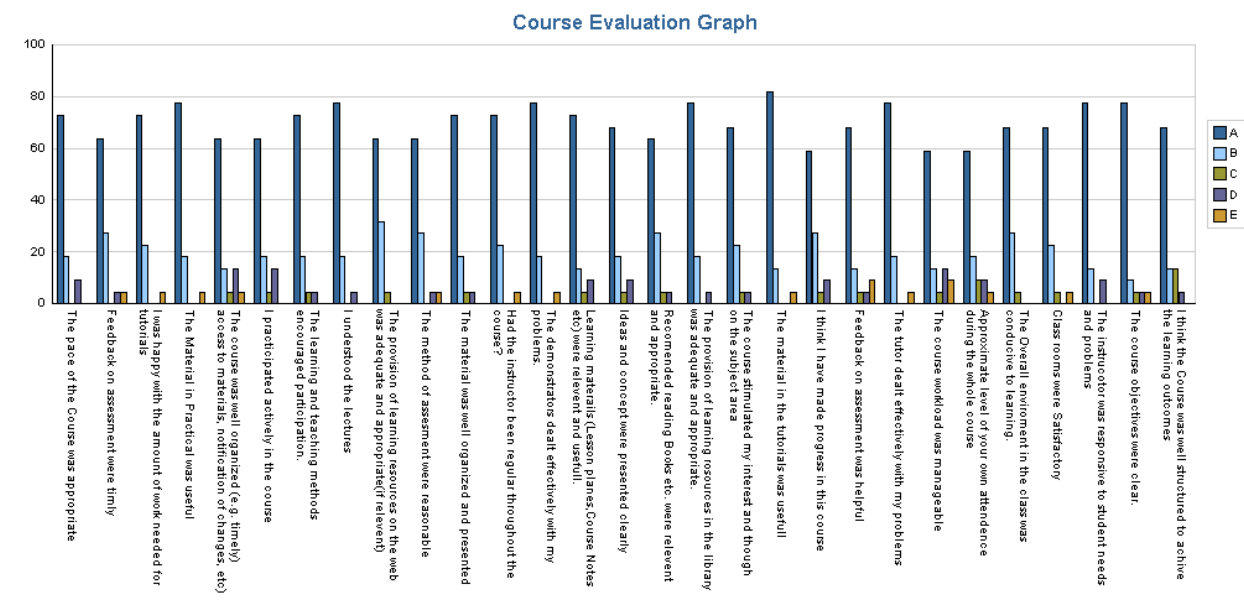
PARA-202

Data shows that 55 % of the students strongly agreed that the tutor dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), provision of learning resources in the library adequate and appropriate, they participated actively in the course, ideas and concepts presented clearly, the course stimulated their interest and thought on the subject area and they understood the lectures. 65% of the students strongly agreed that the overall environment in the class was conducive to learning, recommended reading books relevant and appropriate, the material was well organized and presented, the material in the tutorials was useful, they have made progress in this course, the course was well structured to archive learning outcomes, the learning materials (lesson planes, course notes etc) relevant and useful, the pace of the course was appropriate, provision of learning resources on the web adequate and appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, course workload was manageable, approximate level of student's attendance during the whole course was higher, course objectives clear and feedback on assessment was timely. 45 % of the students strongly agreed that the instructor had been regular throughout the course, they happy with the amount of work needed for the tutorials, method of assessment was reasonable, the material in the practical was useful, the classrooms satisfactory and feedback on assessment was helpful while 80% of the students strongly think that the learning and teaching methods encouraged the participation.



PATH-202

Data shows that 75 % of the students strongly agreed that the tutor dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), provision of learning resources in the library adequate and appropriate, they participated actively in the course, ideas and concepts presented clearly, the course stimulated their interest and though on the subject area and they understood the lectures. 65% of the students strongly agreed that the overall environment in the class was conducive to learning, recommended reading books relevant and appropriate, the material was well organized and presented, the material in the tutorials was useful, they have made progress in this course, the course was well structured to archive learning outcomes, the learning materials (lesson planes, course notes etc) relevant and useful, the pace of the course was appropriate, provision of learning resources on the web adequate and appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, course workload was manageable, approximate level of student's attendance during the whole course was higher, course objectives clear and feedback on assessment was timely. 75 % of the students strongly agreed that the instructor had been regular throughout the course, they happy with the amount of work needed for the tutorials, method of assessment was reasonable, the material in the practical was useful, the classrooms satisfactory and feedback on assessment was helpful while 80% of the students strongly think that the learning and teaching methods encouraged the participation.

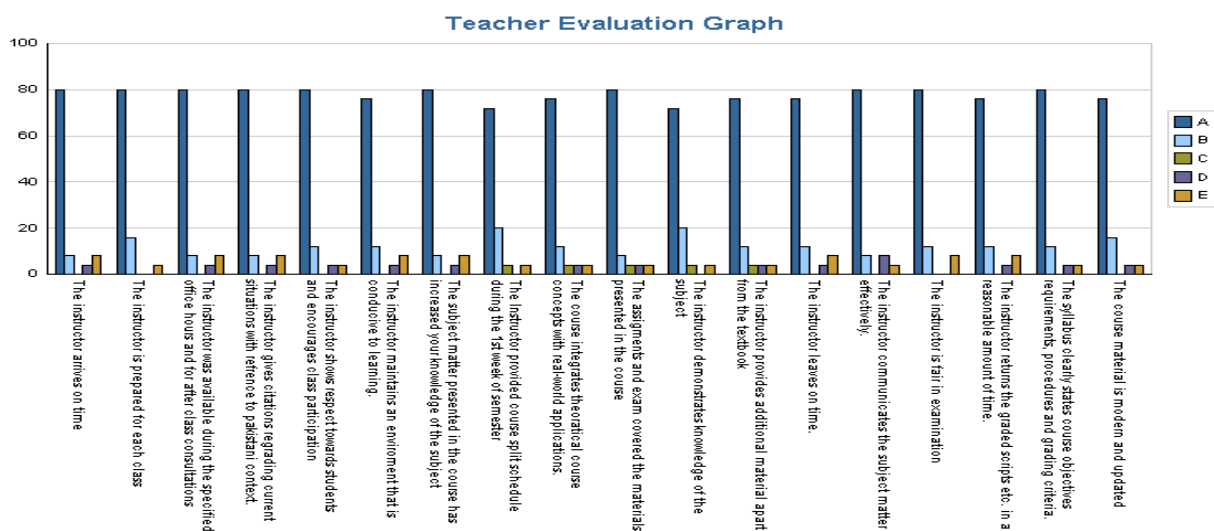


Spring-2014

The three teachers in the department numbered from 1-3 were evaluated during spring semester 2014. The names of the teachers along with their allotted numbers are Dr. Imtiaz Ahmed Khan (1) Dr. Murtaz-ul-Hasan (2), Dr. Saif-ur-Rehman (3). The details of evaluation are given in the preceding paragraphs.

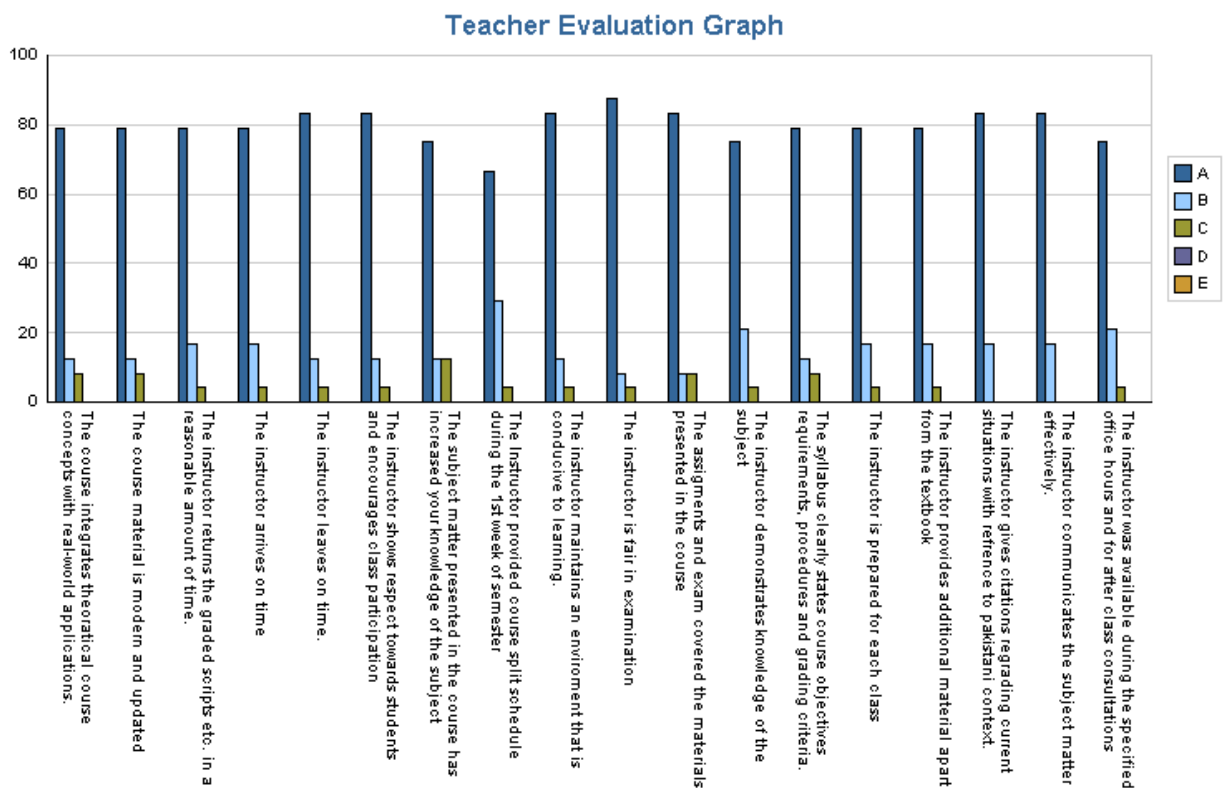
Teacher 1

Data shows that 80 % of the students strongly agreed that the tutor dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), provision of learning resources in the library adequate and appropriate, they participated actively in the course, ideas and concepts presented clearly, the course stimulated their interest and though on the subject area and they understood the lectures. 80% of the students strongly agreed that the overall environment in the class was conducive to learning, recommended reading books relevant and appropriate, the material was well organized and presented, the material in the tutorials was useful, they have made progress in this course, the course was well structured to archive learning outcomes, the learning materials (lesson planes, course notes etc) relevant and useful, the pace of the course was appropriate, provision of learning resources on the web adequate and appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, course workload was manageable, approximate level of student's attendance during the whole course was higher, course objectives clear and feedback on assessment was timely. Below 80 % of the students strongly agreed that the instructor had been regular throughout the course, they happy with the amount of work needed for the tutorials, method of assessment was reasonable, the material in the practical was useful, the classrooms satisfactory and feedback on assessment was helpful while 80% of the students strongly think that the learning and teaching methods encouraged the participation.



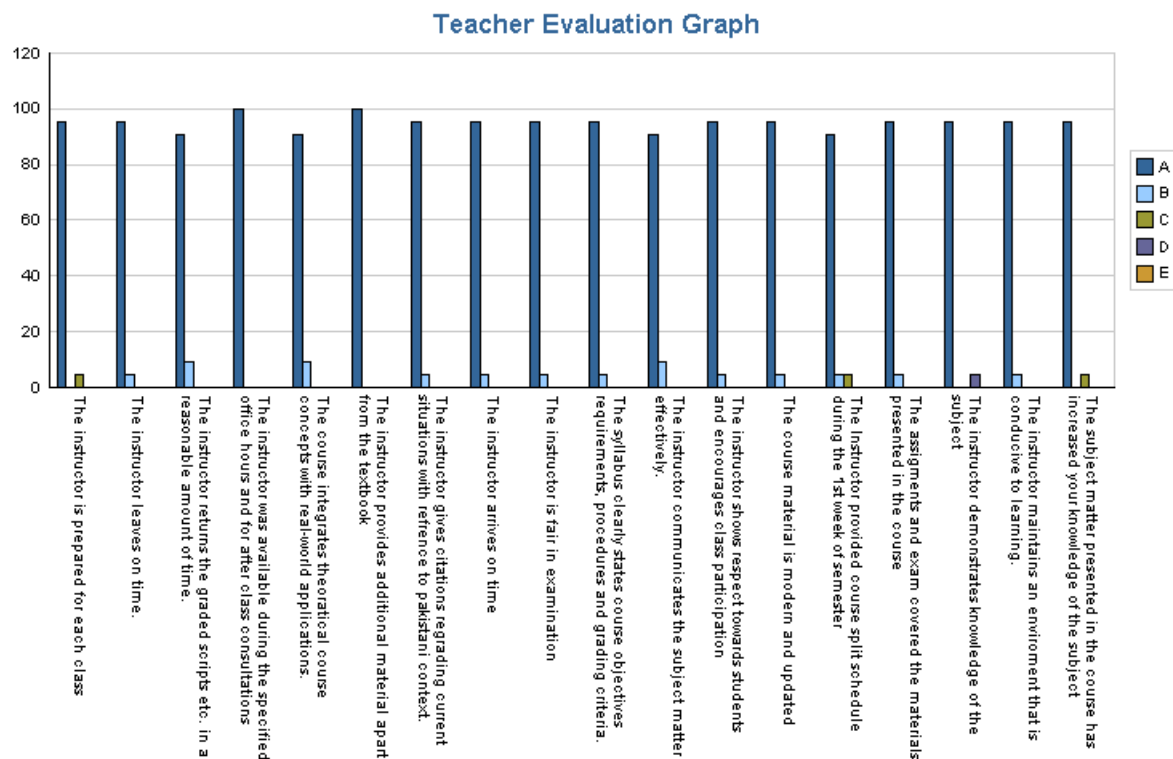
Teacher 2

Data shows that 80 % of the students strongly agreed that the tutor dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), provision of learning resources in the library adequate and appropriate, they participated actively in the course, ideas and concepts presented clearly, the course stimulated their interest and though on the subject area and they understood the lectures. 80% of the students strongly agreed that the overall environment in the class was conducive to learning, recommended reading books relevant and appropriate, the material was well organized and presented, the material in the tutorials was useful, they have made progress in this course, the course was well structured to archive learning outcomes, the learning materials (lesson planes, course notes etc) relevant and useful, the pace of the course was appropriate, provision of learning resources on the web adequate and appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, course workload was manageable, approximate level of student's attendance during the whole course was higher, course objectives clear and feedback on assessment was timely. Below 80 % of the students strongly agreed that the instructor had been regular throughout the course, they happy with the amount of work needed for the tutorials, method of assessment was reasonable, the material in the practical was useful, the classrooms satisfactory and feedback on assessment was helpful while 80% of the students strongly think that the learning and teaching methods encouraged the participation.



Teacher 3

Data shows that 100% of the students were agreed strongly that the instructor provides additional material apart from the textbook and the instructor was available during specified office hours and for after class consultations. 96% of the students were agreed strongly that the instructor leaves on time, the instructor is prepared for each class, instructor is fair in examination, the instructor arrives on time, the instructor gives citations regarding current situations with reference to Pakistani context, the syllabus clearly states course objectives, requirements, procedures and grading criteria, the instructor shows respect towards students and encourages class participation, the course material is modern and updated, instructor maintains an environment that is conducive to learning, the instructor demonstrates the knowledge of the subject, the assignments and exams covered the material presented in the course and the subject matter presented in the course has increased your knowledge of the subject. 94 % of the students were agreed strongly that the instructor returns the graded scripts etc in reasonable amount of time, the course integrates theoretical course concepts real-world applications, the instructor communicates the subject matters effectively and the instructor provided course split schedule during 1st week of the semester.

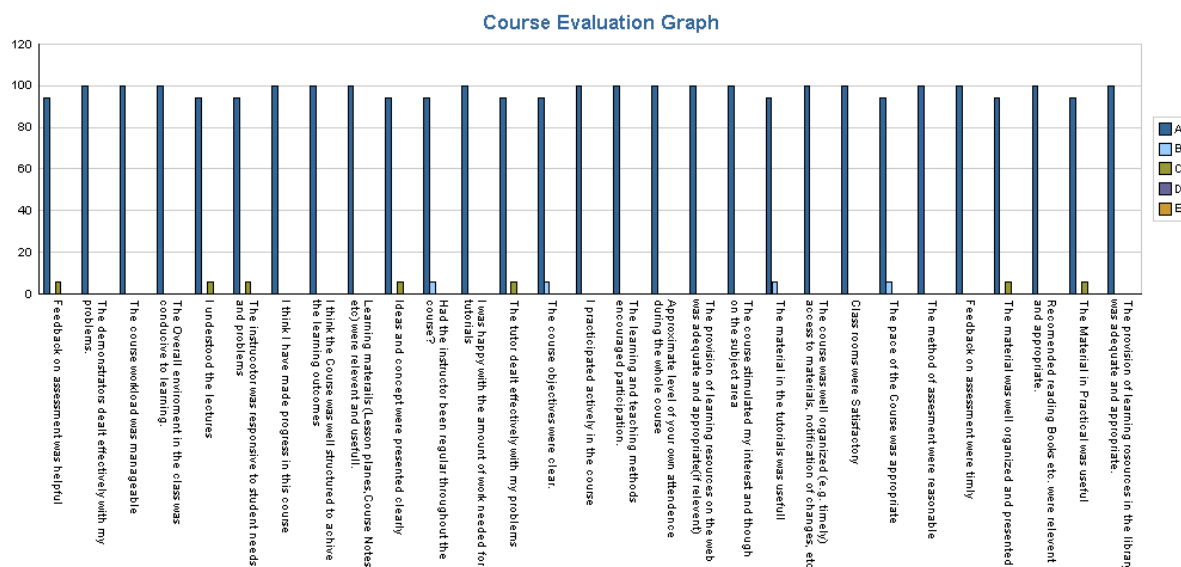


COURSES EVALUTION

MICRO-102

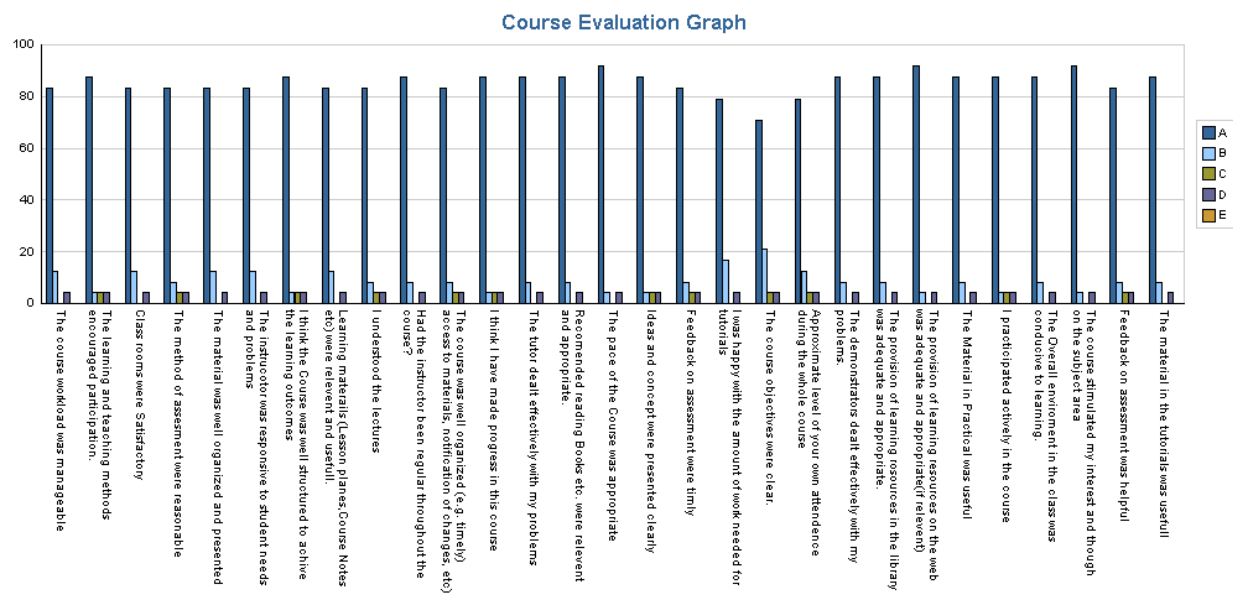
Data shows that the students are strongly agreed (100 %) that the provision of learning resources in the library was adequate and appropriate, recommended reading books were relevant and appropriate, feedback on assessment was timely, the method of assessment was reasonable, classrooms were satisfactory, the course was well organized (e.g. Timely access to materials, notification of changes etc), the course stimulated their interest and though on the subject area, the provision of learning resources on the web was adequate and appropriate (if relevant). The students are strongly agreed that approximate level of students attendance during the whole course was higher, the learning and teaching methods encouraged the participation, they participated actively in the course, they were happy with the amount of work needed for the tutorials, learning materials (lesson planes, course notes etc) were relevant and useful. Most of the students think the course was well structured to archive learning outcomes, they have made progress in this course, the overall environment in the class was conducive to learning, the course workload was manageable and the demonstrators dealt effectively with their problems. More than 80 % of the students were strongly agreed that the material in the practical was useful, the material was well organized and presented, the pace of the course was appropriate, the material in the tutorials was useful, the course objectives were clear, the tutor dealt effectively with their problems, ideas and concepts were presented clearly and feedback on assessment was

helpful. Most of the students think that the instructor had been regular throughout the course and was responsive to their needs and problems and they understood the lectures.



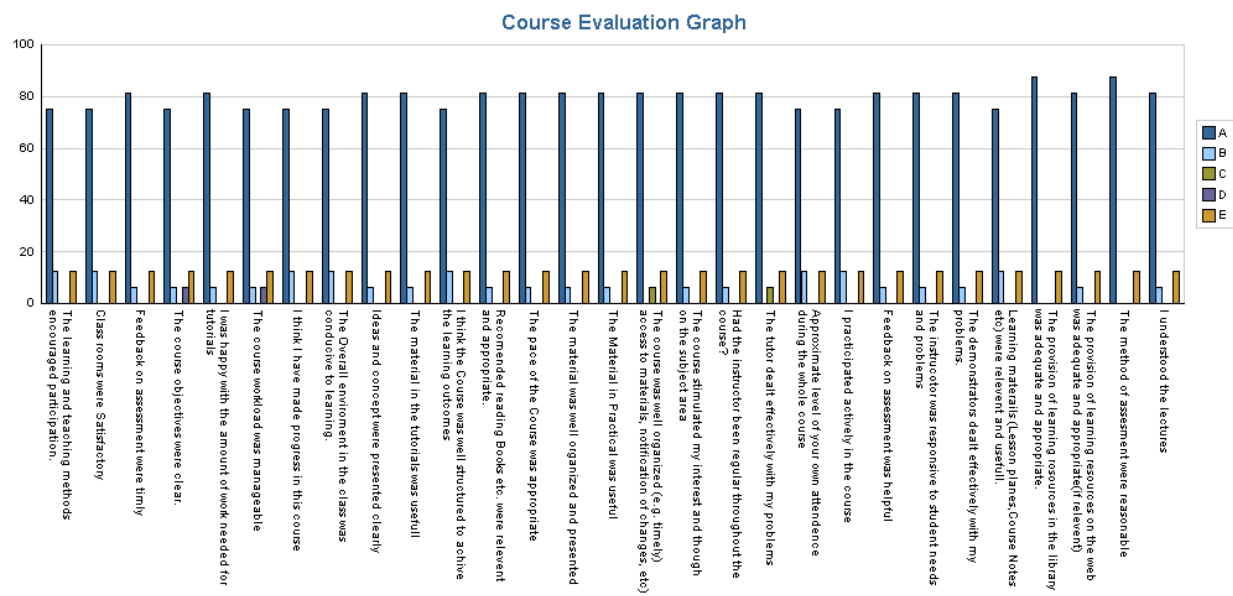
PARA-202

Data shows that the students are strongly agreed (80 %) that the provision of learning resources in the library was adequate and appropriate, recommended reading books were relevant and appropriate, feedback on assessment was timely, the method of assessment was reasonable, classrooms were satisfactory, the course was well organized (e.g. Timely access to materials, notification of changes etc), the course stimulated their interest and thought on the subject area, the provision of learning resources on the web was adequate and appropriate (if relevant). The students are strongly agreed that approximate level of students attendance during the whole course was higher, the learning and teaching methods encouraged the participation, they participated actively in the course, they were happy with the amount of work needed for the tutorials, learning materials (lesson planes, course notes etc) were relevant and useful. Most of the students think the course was well structured to archive learning outcomes, they have made progress in this course, the overall environment in the class was conducive to learning, the course workload was manageable and the demonstrators dealt effectively with their problems. More than 85 % of the students were strongly agreed that the material in the practical was useful, the material was well organized and presented, the pace of the course was appropriate, the material in the tutorials was useful, the course objectives were clear, the tutor dealt effectively with their problems, ideas and concepts were presented clearly and feedback on assessment was helpful. Most of the students think that the instructor had been regular throughout the course and was responsive to their needs and problems and they understood the lectures.



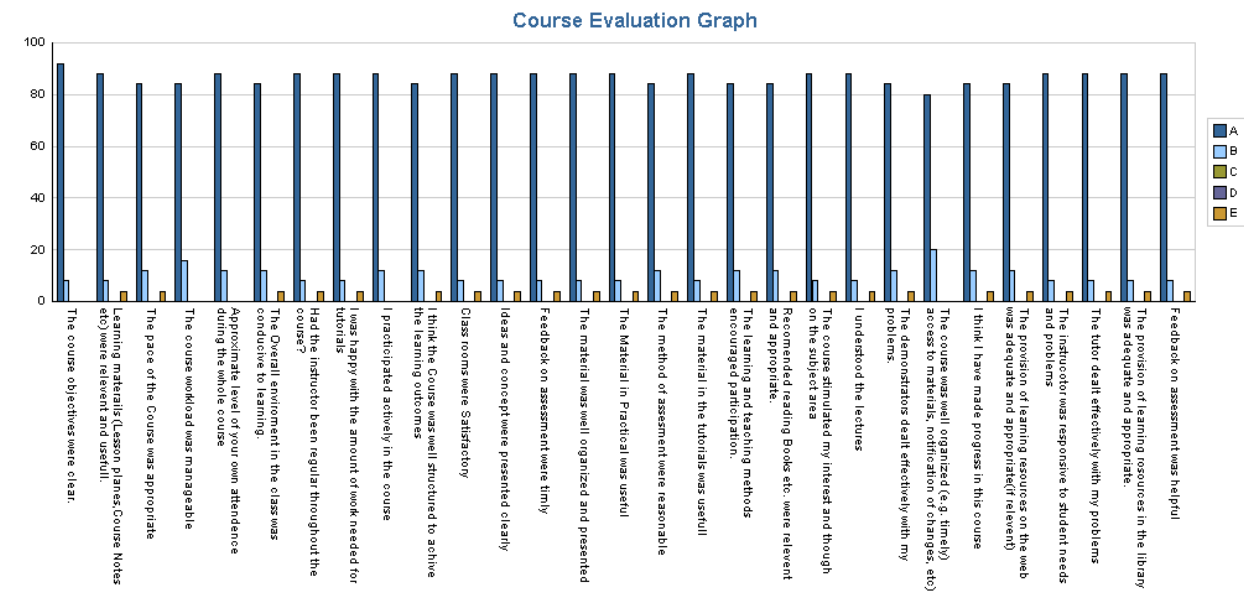
PARA-102

Data shows that the students are strongly agreed (75 %) that the provision of learning resources in the library was adequate and appropriate, recommended reading books were relevant and appropriate, feedback on assessment was timely, the method of assessment was reasonable, classrooms were satisfactory, the course was well organized (e.g. Timely access to materials, notification of changes etc), the course stimulated their interest and though on the subject area, the provision of learning resources on the web was adequate and appropriate (if relevant). The students are strongly agreed that approximate level of students attendance during the whole course was higher, the learning and teaching methods encouraged the participation, they participated actively in the course, they were happy with the amount of work needed for the tutorials, learning materials (lesson planes, course notes etc) were relevant and useful. Most of the students think the course was well structured to archive learning outcomes, they have made progress in this course, the overall environment in the class was conducive to learning, the course workload was manageable and the demonstrators dealt effectively with their problems. More than 75 % of the students were strongly agreed that the material in the practical was useful, the material was well organized and presented, the pace of the course was appropriate, the material in the tutorials was useful, the course objectives were clear, the tutor dealt effectively with their problems, ideas and concepts were presented clearly and feedback on assessment was helpful. Most of the students think that the instructor had been regular throughout the course and was responsive to their needs and problems and they understood the lectures.



PATH-202

Data shows that the students are strongly agreed (95 %) that the provision of learning resources in the library was adequate and appropriate, recommended reading books were relevant and appropriate, feedback on assessment was timely, the method of assessment was reasonable, classrooms were satisfactory, the course was well organized (e.g. Timely access to materials, notification of changes etc), the course stimulated their interest and thought on the subject area, the provision of learning resources on the web was adequate and appropriate (if relevant). The students are strongly agreed that approximate level of students attendance during the whole course was higher, the learning and teaching methods encouraged the participation, they participated actively in the course, they were happy with the amount of work needed for the tutorials, learning materials (lesson plans, course notes etc) were relevant and useful. Most of the students think the course was well structured to archive learning outcomes, they have made progress in this course, the overall environment in the class was conducive to learning, the course workload was manageable and the demonstrators dealt effectively with their problems. More than 7 % of the students were strongly agreed that the material in the practical was useful, the material was well organized and presented, the pace of the course was appropriate, the material in the tutorials was useful, the course objectives were clear, the tutor dealt effectively with their problems, ideas and concepts were presented clearly and feedback on assessment was helpful. Most of the students think that the instructor had been regular throughout the course and was responsive to their needs and problems and they understood the lectures.



PROGRAM ASSESSMENT RESULTS

Teacher's Evaluation

Teacher's performance was assessed through student's comments on prescribed evaluation Performa. This evaluation was done for different courses of the individual teachers filling in Performa 10 through Campus Management System.

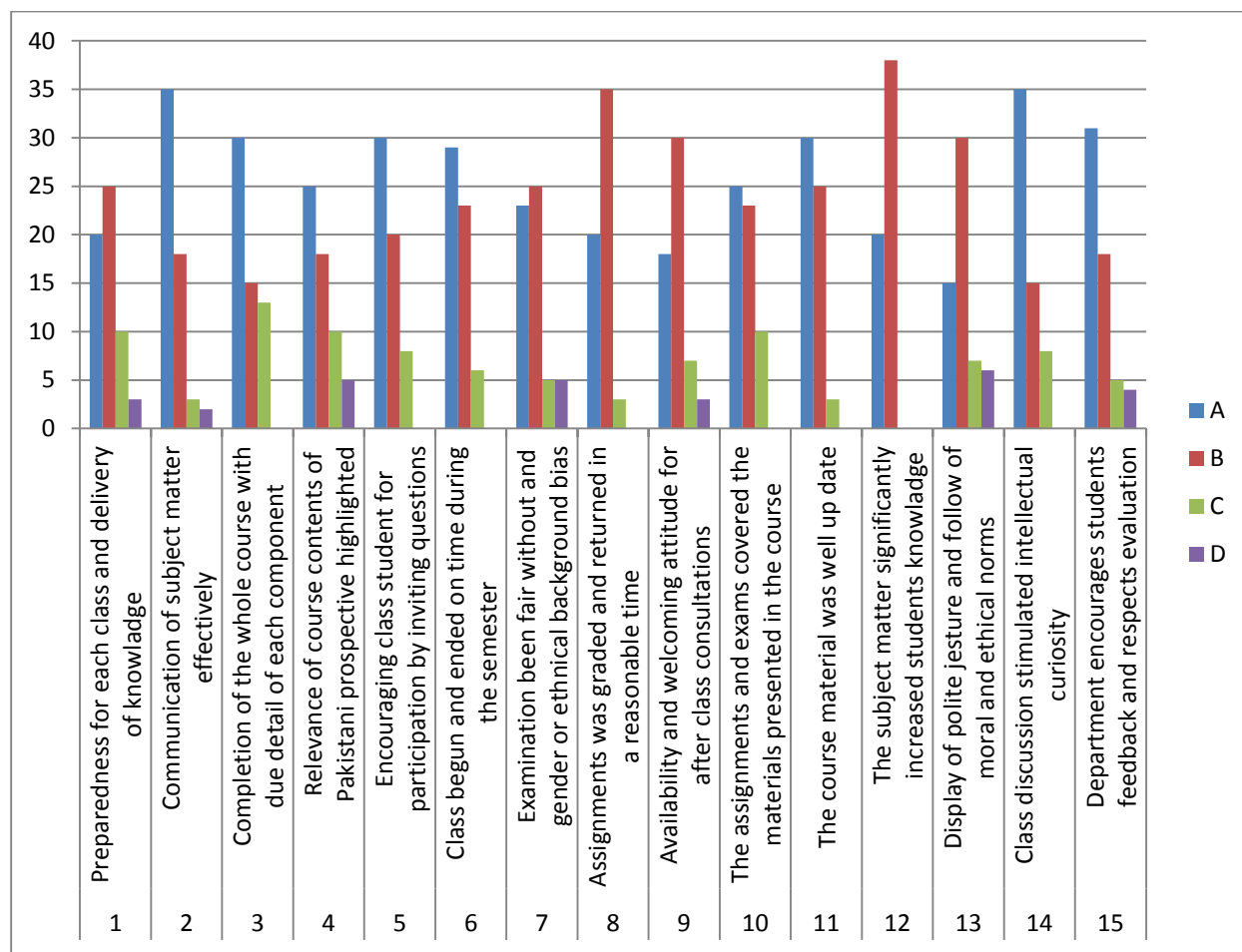
Fall-2012

The four teachers in the department numbered from 1-4 were evaluated during fall semester 2012. The names of the teachers along with their allotted numbers are Dr. Imtiaz Ahmed Khan (1) Dr. Murtaz-ul-Hasan (2), Dr. Saif-ur-Rehman (3), Mr. SajidUmer (4). The details of evaluation are given in the preceding paragraphs.

Teacher 1

Data shows that 30% of the students strongly agreed that the instructor maintains an environment that is conducive to learning and the instructor provided course split schedule during 1st week of the semester. 20% of the students strongly agreed that the subject matter presented in the course has increased your knowledge of the subject; the instructor shows respect towards students and encourages class participation, the instructor was available during specified office hours and for after class consultations, the instructor returns the graded scripts etc in reasonable amount of time and the syllabus clearly states course objectives, requirements, procedures and grading criteria. 35% of the students strongly agreed that the instructor demonstrates the knowledge of the subject; the course material is modern and updated and the instructor arrives on time. Above 30% of the students strongly agreed that the instructor is fair in examination; the instructor gives citations regarding current situations with reference to Pakistani context, the instructor provides additional material apart from the textbook, the instructor is prepared for each class and the course integrates theoretical course concepts real-world applications. 28% of the students

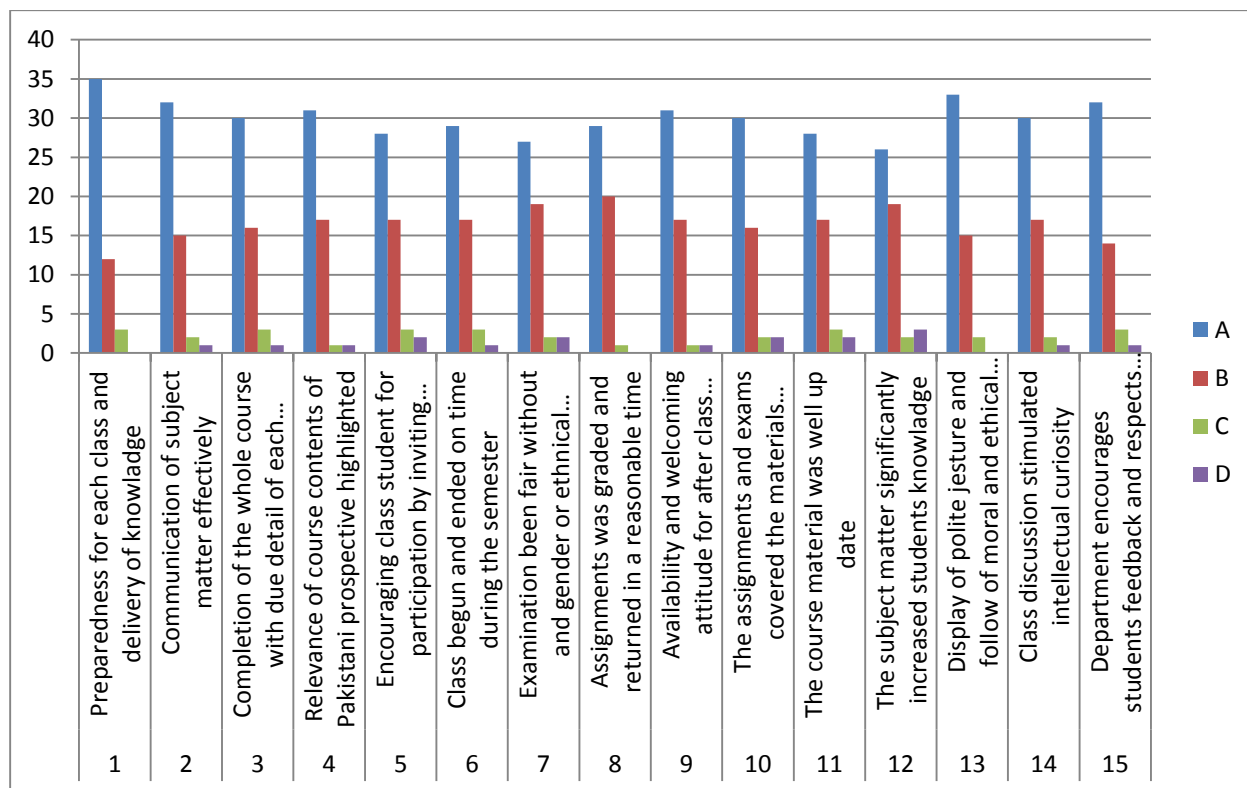
strongly agreed that the instructor communicates the subject matters effectively. 30% of the students strongly agreed that the assignments and exams covered the material presented in the course and the instructor leaves on time.



Teacher 2

Data shows that 35% of the students strongly agreed that the instructor maintains an environment that is conducive to learning and the instructor provided course split schedule during 1st week of the semester. 30% of the students strongly agreed that the subject matter presented in the course has increased your knowledge of the subject; the instructor shows respect towards students and encourages class participation, the instructor was available during specified office hours and for after class consultations, the instructor returns the graded scripts etc in reasonable amount of time and the syllabus clearly states course objectives, requirements, procedures and grading criteria. 35% of the students strongly agreed that the instructor demonstrates the knowledge of the subject; the course material is modern and updated and the instructor arrives on time. Above 32% of the students strongly agreed that the instructor is fair in examination; the instructor gives citations regarding current situations with reference to Pakistani context, the instructor provides additional material apart from the textbook, the instructor is prepared for each class and the course integrates theoretical course concepts real-world applications. 35% of the students

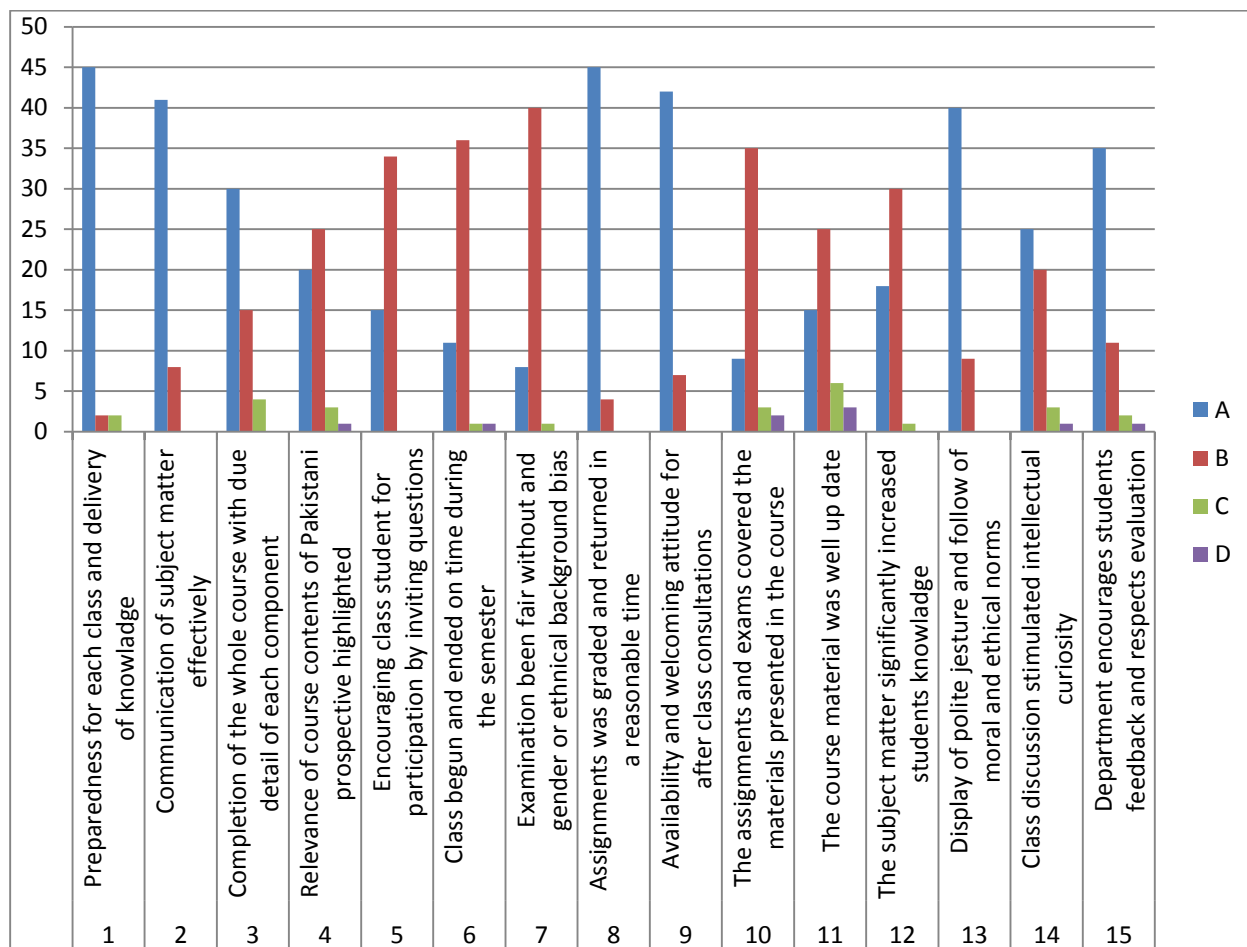
strongly agreed that the instructor communicates the subject matters effectively. 30% of the students strongly agreed that the assignments and exams covered the material presented in the course and the instructor leaves on time.



Teacher 3

Data shows that 45% of the students strongly agreed that the instructor maintains an environment that is conducive to learning and the instructor provided course split schedule during 1st week of the semester. 42% of the students strongly agreed that the subject matter presented in the course has increased your knowledge of the subject; the instructor shows respect towards students and encourages class participation, the instructor was available during specified office hours and for after class consultations, the instructor returns the graded scripts etc in reasonable amount of time and the syllabus clearly states course objectives, requirements, procedures and grading criteria. 30% of the students strongly agreed that the instructor demonstrates the knowledge of the subject; the course material is modern and updated and the instructor arrives on time. Above 28% of the students strongly agreed that the instructor is fair in examination; the instructor gives citations regarding current situations with reference to Pakistani context, the instructor provides additional material apart from the textbook, the instructor is prepared for each class and the course integrates theoretical course concepts real-world applications. 25% of the students strongly agreed that the instructor communicates the subject matters effectively. 20% of the

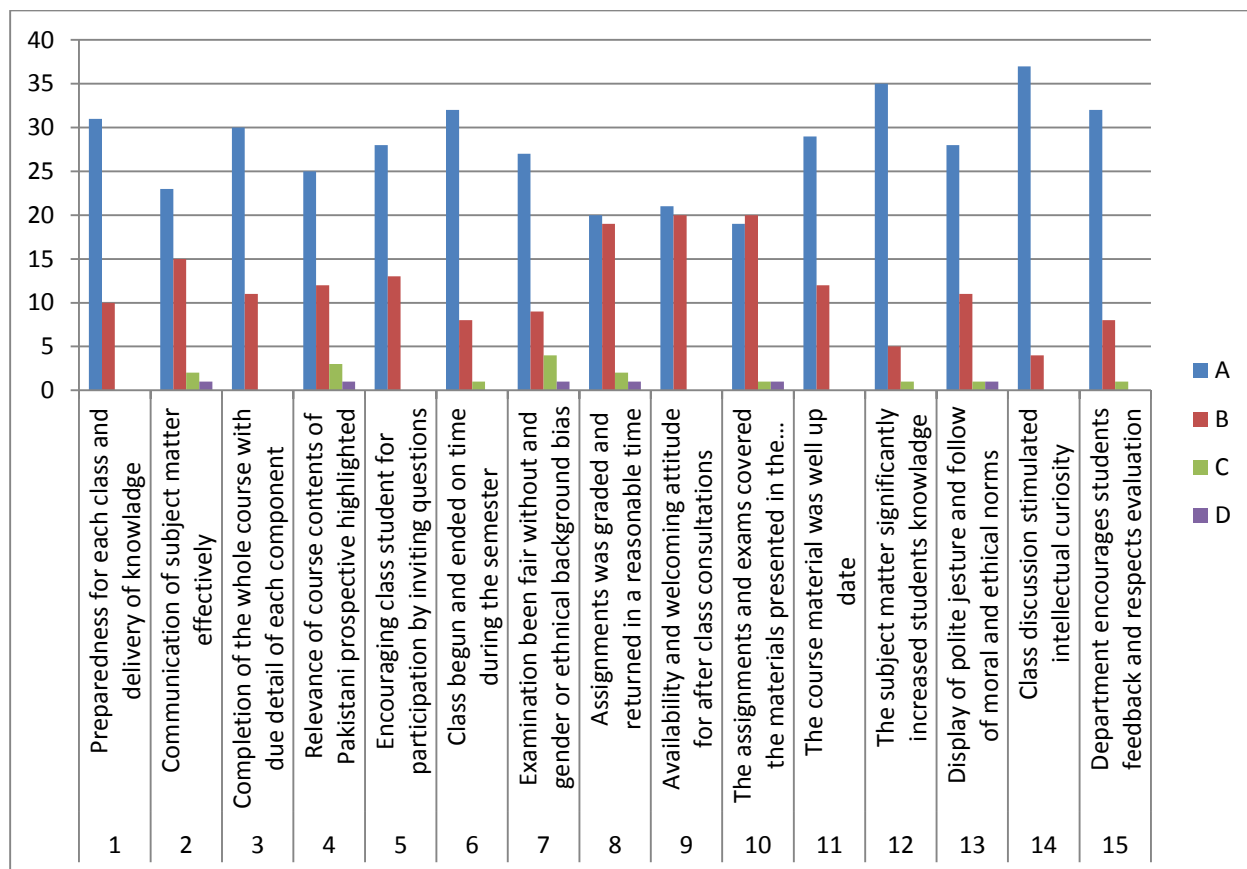
students strongly agreed that the assignments and exams covered the material presented in the course and the instructor leaves on time.



Teacher 4

Data shows that 32% of the students strongly agreed that the instructor maintains an environment that is conducive to learning and the instructor provided course split schedule during 1st week of the semester. 28% of the students strongly agreed that the subject matter presented in the course has increased your knowledge of the subject; the instructor shows respect towards students and encourages class participation, the instructor was available during specified office hours and for after class consultations, the instructor returns the graded scripts etc in reasonable amount of time and the syllabus clearly states course objectives, requirements, procedures and grading criteria. 30% of the students strongly agreed that the instructor demonstrates the knowledge of the subject; the course material is modern and updated and the instructor arrives on time. Above 25% of the students strongly agreed that the instructor is fair in examination; the instructor gives citations regarding current situations with reference to Pakistani context, the instructor provides additional material apart from the textbook, the instructor is prepared for each class and the course integrates theoretical course concepts real-world applications. 28% of the students strongly agreed that the instructor communicates the subject matters effectively. 28% of the

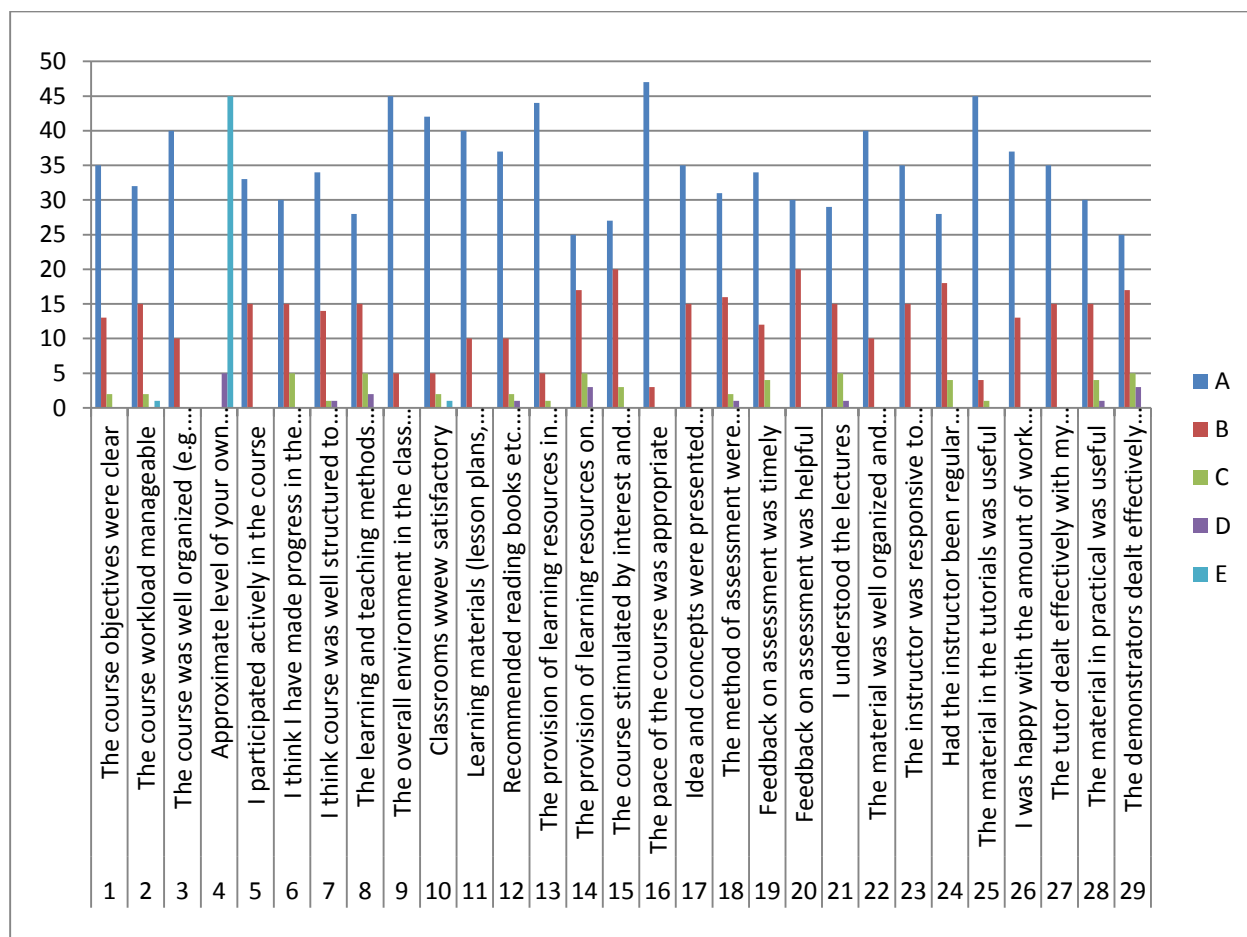
students strongly agreed that the assignments and exams covered the material presented in the course and the instructor leaves on time.



PATH-403

Data shows that 45 % of the students strongly agreed that the tutor dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), provision of learning resources in the library adequate and appropriate, they participated actively in the course, ideas and concepts presented clearly, the course stimulated their interest and though on the subject area and they understood the lectures. 40% of the students strongly agreed that the overall environment in the class was conducive to learning, recommended reading books relevant and appropriate, the material was well organized and presented, the material in the tutorials was useful, they have made progress in this course, the course was well structured to archive learning outcomes, the learning materials (lesson planes, course notes etc) relevant and useful, the pace of the course was appropriate, provision of learning resources on the web adequate and appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, course workload was manageable, approximate level of student's attendance during the whole course was higher, course objectives clear and feedback on assessment was timely. 45 % of the students strongly agreed that the instructor had been regular throughout the course, they are happy with the amount of work

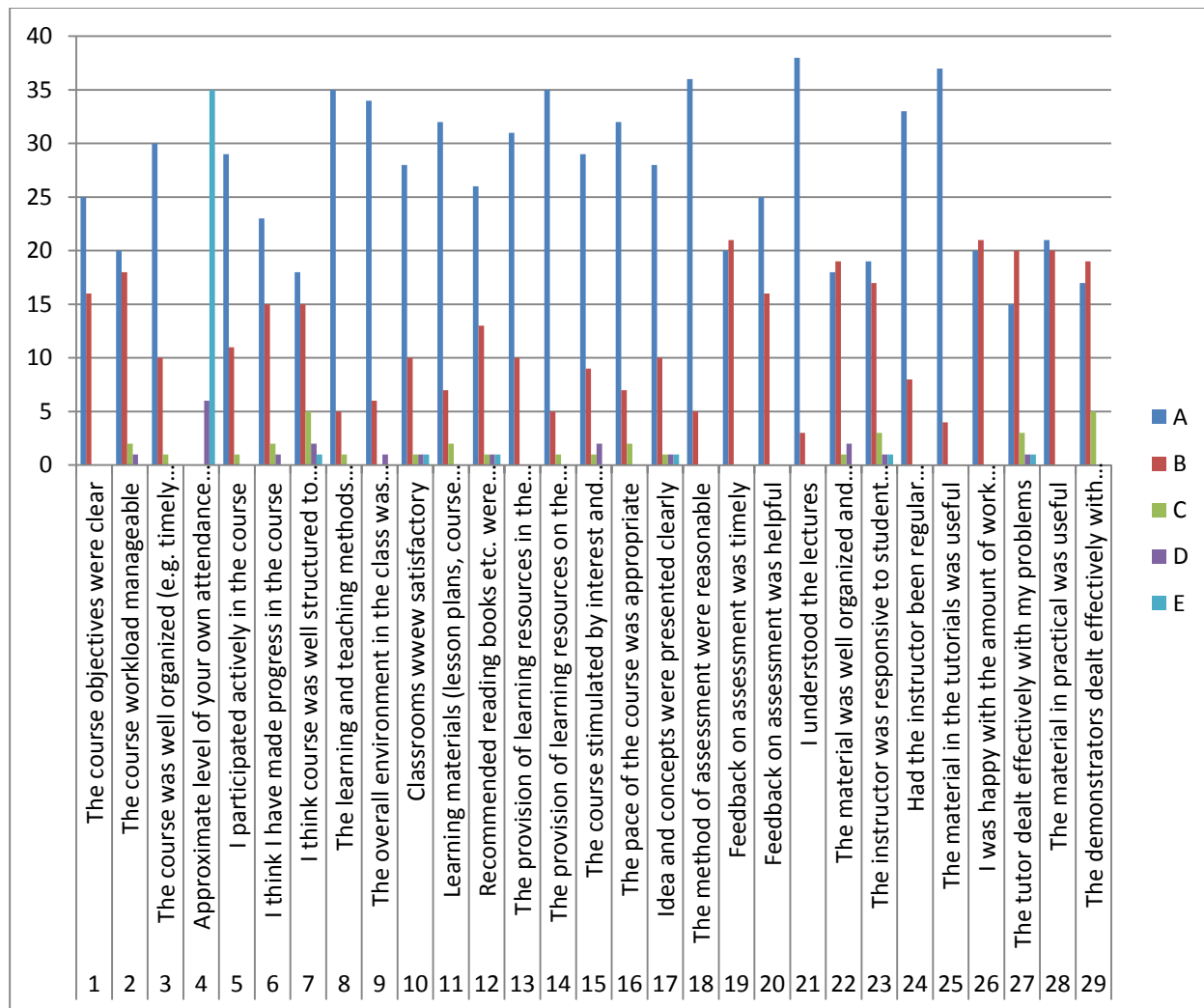
needed for the tutorials, method of assessment was reasonable, the material in the practical was useful, the classrooms satisfactory and feedback on assessment was helpful while 80% of the students strongly think that the learning and teaching methods encouraged the participation.



PATH-501

Data shows that 25 % of the students strongly agreed that the tutor dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), provision of learning resources in the library adequate and appropriate, they participated actively in the course, ideas and concepts presented clearly, the course stimulated their interest and though on the subject area and they understood the lectures. 30% of the students strongly agreed that the overall environment in the class was conducive to learning, recommended reading books relevant and appropriate, the material was well organized and presented, the material in the tutorials was useful, they have made progress in this course, the course was well structured to archive learning outcomes, the learning materials (lesson planes, course notes etc) relevant and useful, the pace of the course was appropriate, provision of learning resources on the web adequate and appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, course workload was manageable, approximate level of student's attendance during the whole course was higher, course objectives

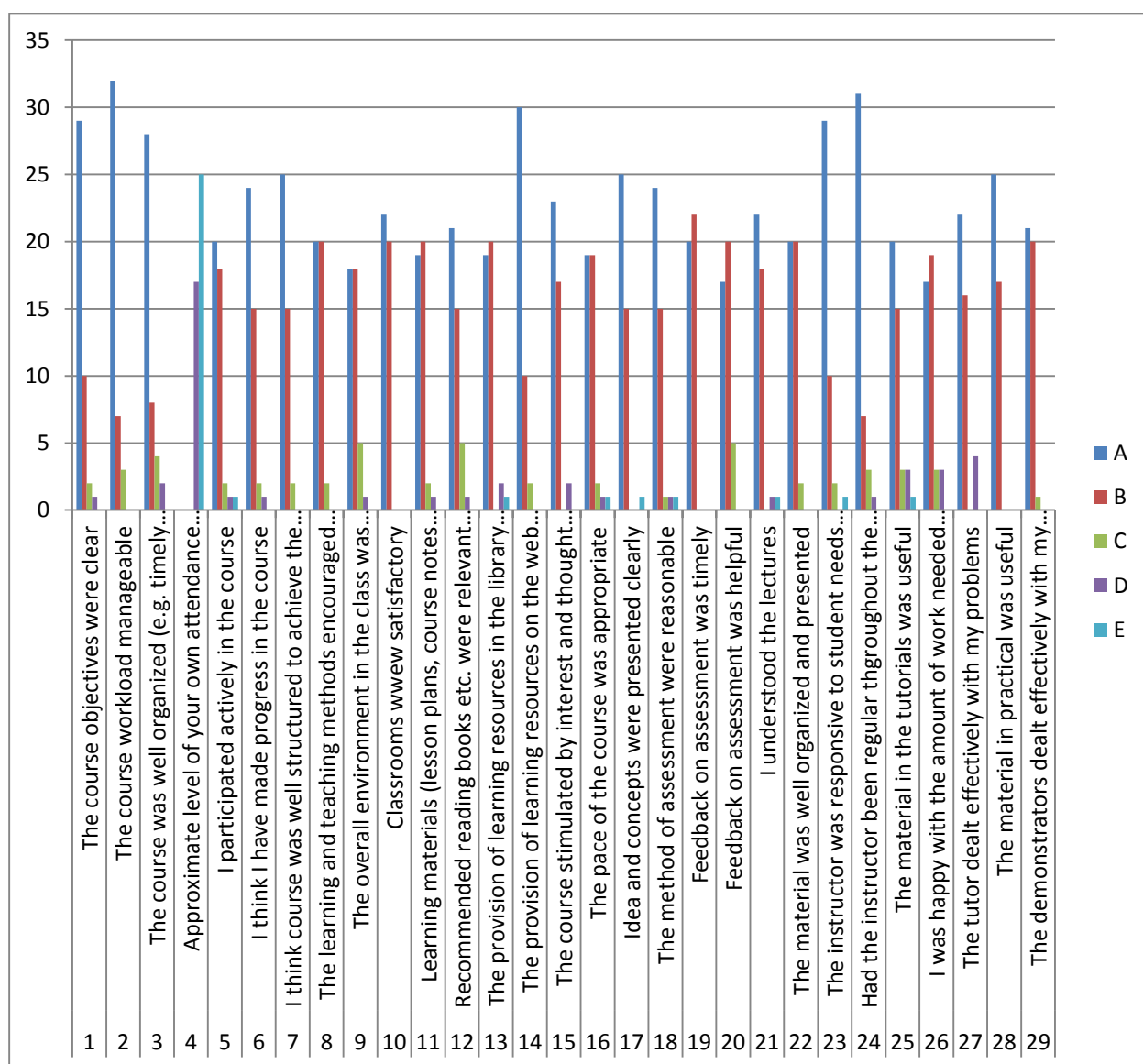
clear and feedback on assessment was timely. 35 % of the students strongly agreed that the instructor had been regular throughout the course, they are happy with the amount of work needed for the tutorials, method of assessment was reasonable, the material in the practical was useful, the classrooms satisfactory and feedback on assessment was helpful while 80% of the students strongly think that the learning and teaching methods encouraged the participation.



PATH-503

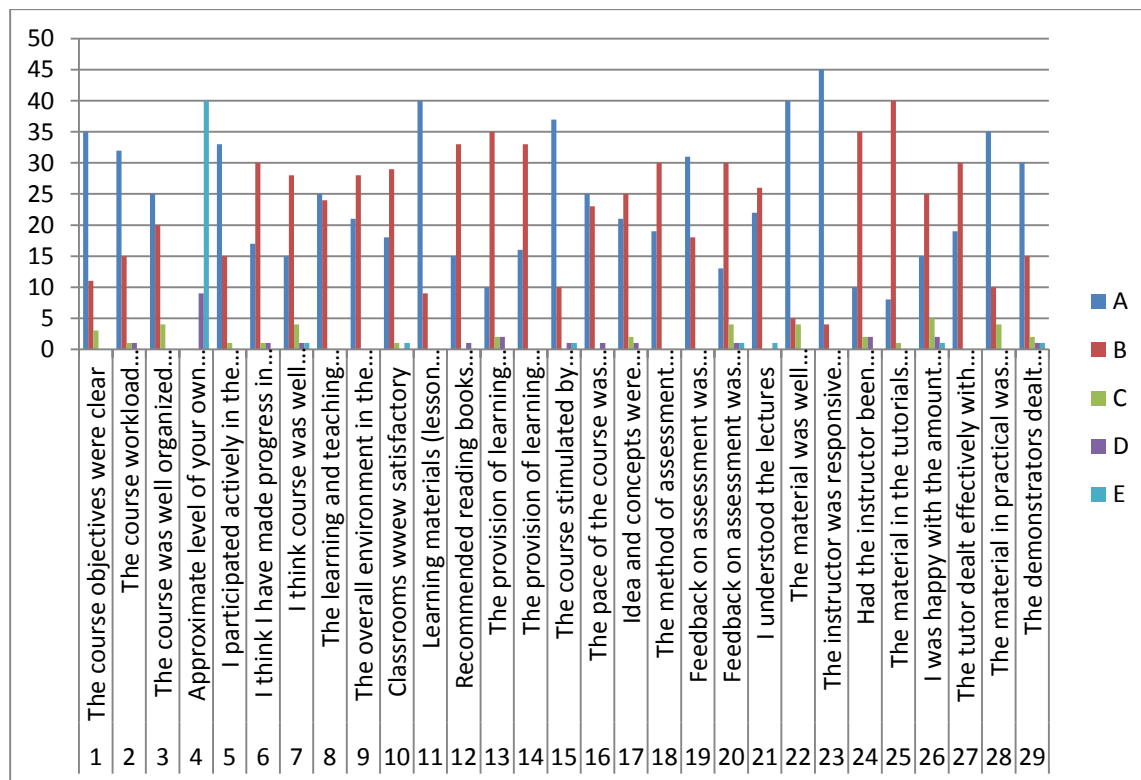
Data shows that 32 % of the students strongly agreed that the tutor dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), provision of learning resources in the library adequate and appropriate, they participated actively in the course, ideas and concepts presented clearly, the course stimulated their interest and though on the subject area and they understood the lectures. 28% of the students strongly

agreed that the overall environment in the class was conducive to learning, recommended reading books relevant and appropriate, the material was well organized and presented, the material in the tutorials was useful, they have made progress in this course, the course was well structured to archive learning outcomes, the learning materials (lesson planes, course notes etc) relevant and useful, the pace of the course was appropriate, provision of learning resources on the web adequate and appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, course workload was manageable, approximate level of student's attendance during the whole course was higher, course objectives clear and feedback on assessment was timely. 27 % of the students strongly agreed that the instructor had been regular throughout the course, they are happy with the amount of work needed for the tutorials, method of assessment was reasonable, the material in the practical was useful, the classrooms satisfactory and feedback on assessment was helpful while 80% of the students strongly think that the learning and teaching methods encouraged the participation.



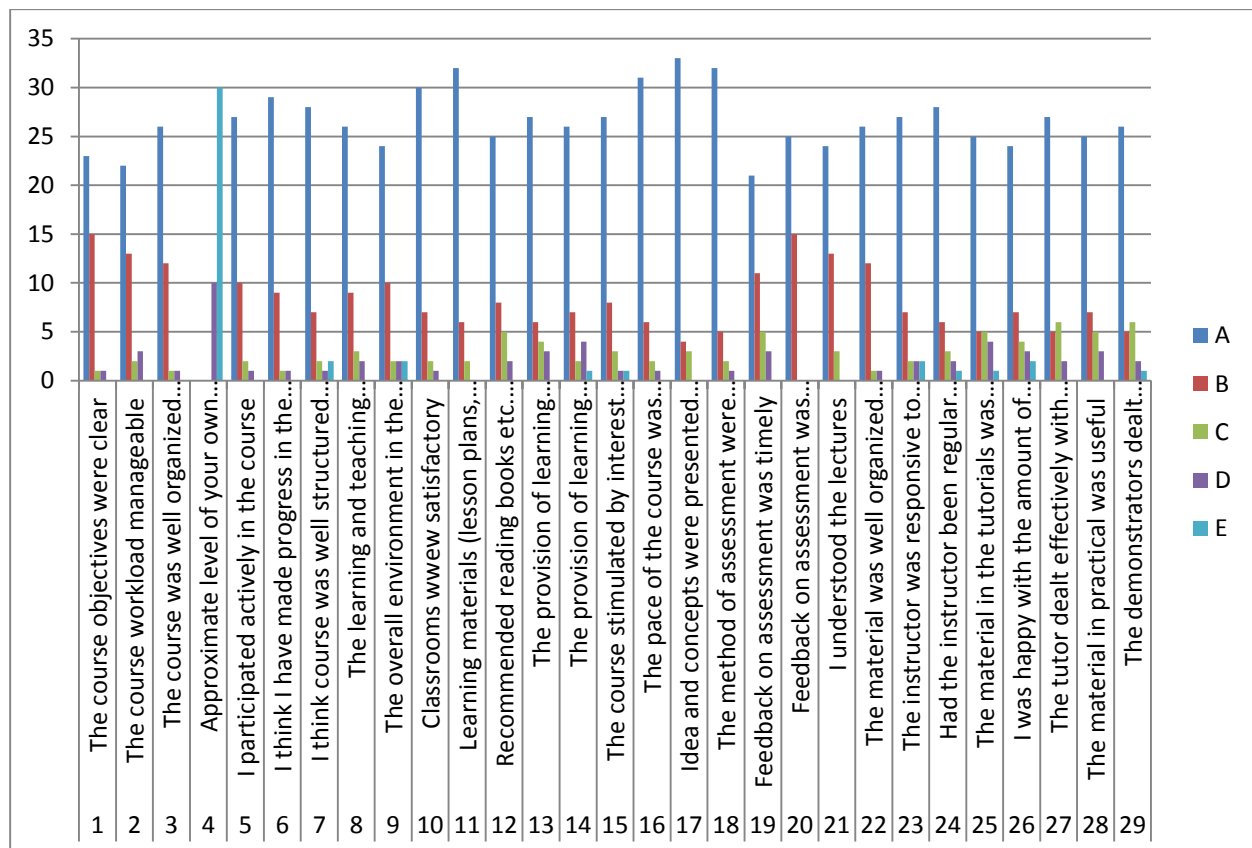
MICRO-201

Data shows that 40 % of the students strongly agreed that the tutor dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), provision of learning resources in the library adequate and appropriate, they participated actively in the course, ideas and concepts presented clearly, the course stimulated their interest and though on the subject area and they understood the lectures. 35% of the students strongly agreed that the overall environment in the class was conducive to learning, recommended reading books relevant and appropriate, the material was well organized and presented, the material in the tutorials was useful, they have made progress in this course, the course was well structured to archive learning outcomes, the learning materials (lesson planes, course notes etc) relevant and useful, the pace of the course was appropriate, provision of learning resources on the web adequate and appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, course workload was manageable, approximate level of student's attendance during the whole course was higher, course objectives clear and feedback on assessment was timely. 28 % of the students strongly agreed that the instructor had been regular throughout the course, they are happy with the amount of work needed for the tutorials, method of assessment was reasonable, the material in the practical was useful, the classrooms satisfactory and feedback on assessment was helpful while 80% of the students strongly think that the learning and teaching methods encouraged the participation.



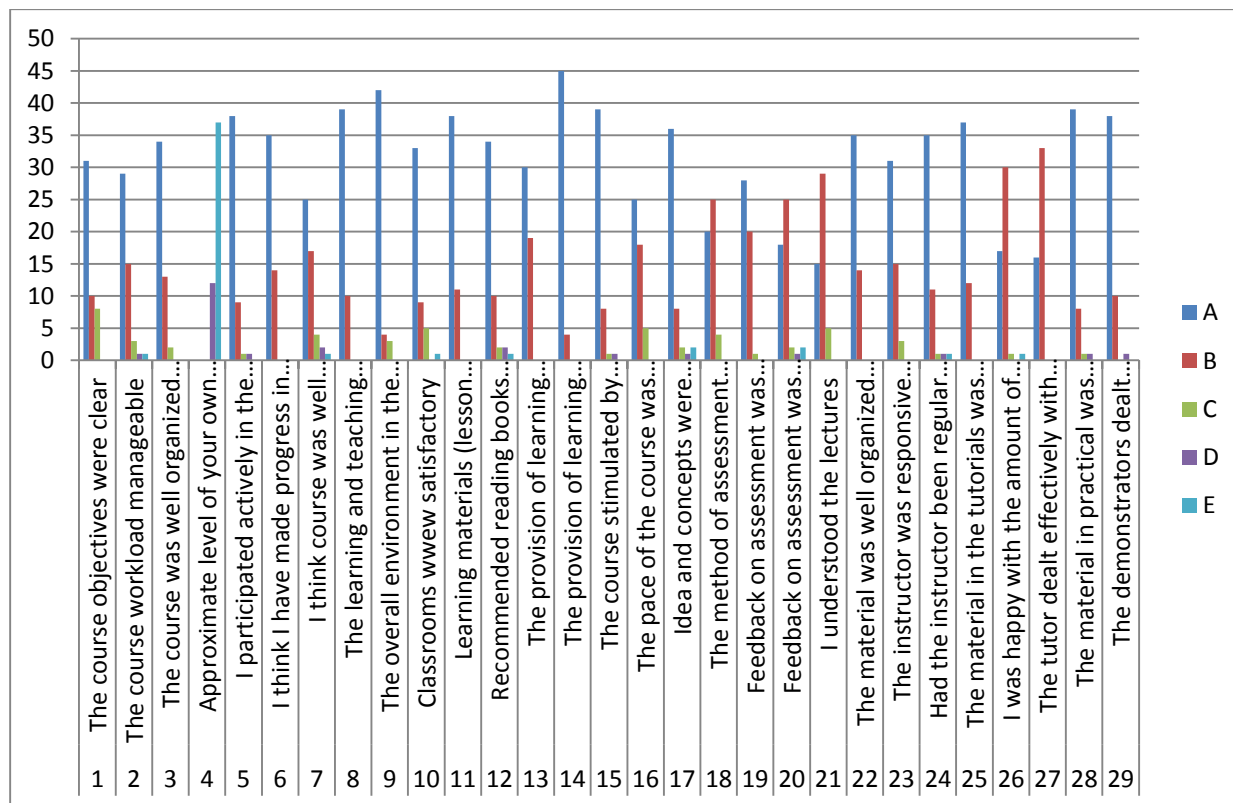
MICRO-301

Data shows that 40 % of the students strongly agreed that the tutor dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), provision of learning resources in the library adequate and appropriate, they participated actively in the course, ideas and concepts presented clearly, the course stimulated their interest and though on the subject area and they understood the lectures. 35% of the students strongly agreed that the overall environment in the class was conducive to learning, recommended reading books relevant and appropriate, the material was well organized and presented, the material in the tutorials was useful, they have made progress in this course, the course was well structured to archive learning outcomes, the learning materials (lesson planes, course notes etc) relevant and useful, the pace of the course was appropriate, provision of learning resources on the web adequate and appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, course workload was manageable, approximate level of student's attendance during the whole course was higher, course objectives clear and feedback on assessment was timely. 28 % of the students strongly agreed that the instructor had been regular throughout the course, they are happy with the amount of work needed for the tutorials, method of assessment was reasonable, the material in the practical was useful, the classrooms satisfactory and feedback on assessment was helpful while 80% of the students strongly think that the learning and teaching methods encouraged the participation.



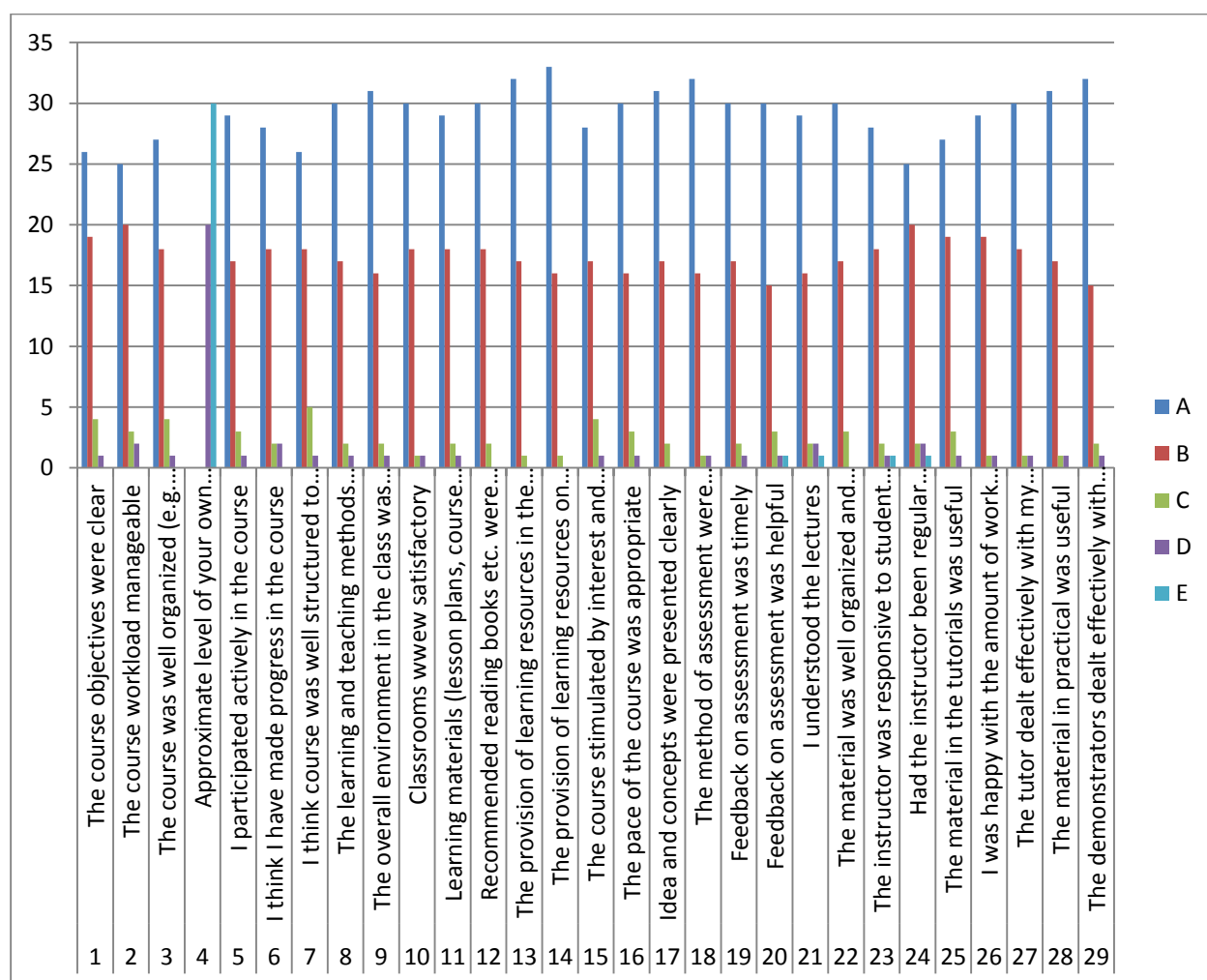
MICRO-401

Data shows that 34 % of the students strongly agreed that the tutor dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), provision of learning resources in the library adequate and appropriate, they participated actively in the course, ideas and concepts presented clearly, the course stimulated their interest and though on the subject area and they understood the lectures. 28% of the students strongly agreed that the overall environment in the class was conducive to learning, recommended reading books relevant and appropriate, the material was well organized and presented, the material in the tutorials was useful, they have made progress in this course, the course was well structured to archive learning outcomes, the learning materials (lesson planes, course notes etc) relevant and useful, the pace of the course was appropriate, provision of learning resources on the web adequate and appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, course workload was manageable, approximate level of student's attendance during the whole course was higher, course objectives clear and feedback on assessment was timely. 32 % of the students strongly agreed that the instructor had been regular throughout the course, they are happy with the amount of work needed for the tutorials, method of assessment was reasonable, the material in the practical was useful, the classrooms satisfactory and feedback on assessment was helpful while 80% of the students strongly think that the learning and teaching methods encouraged the participation.



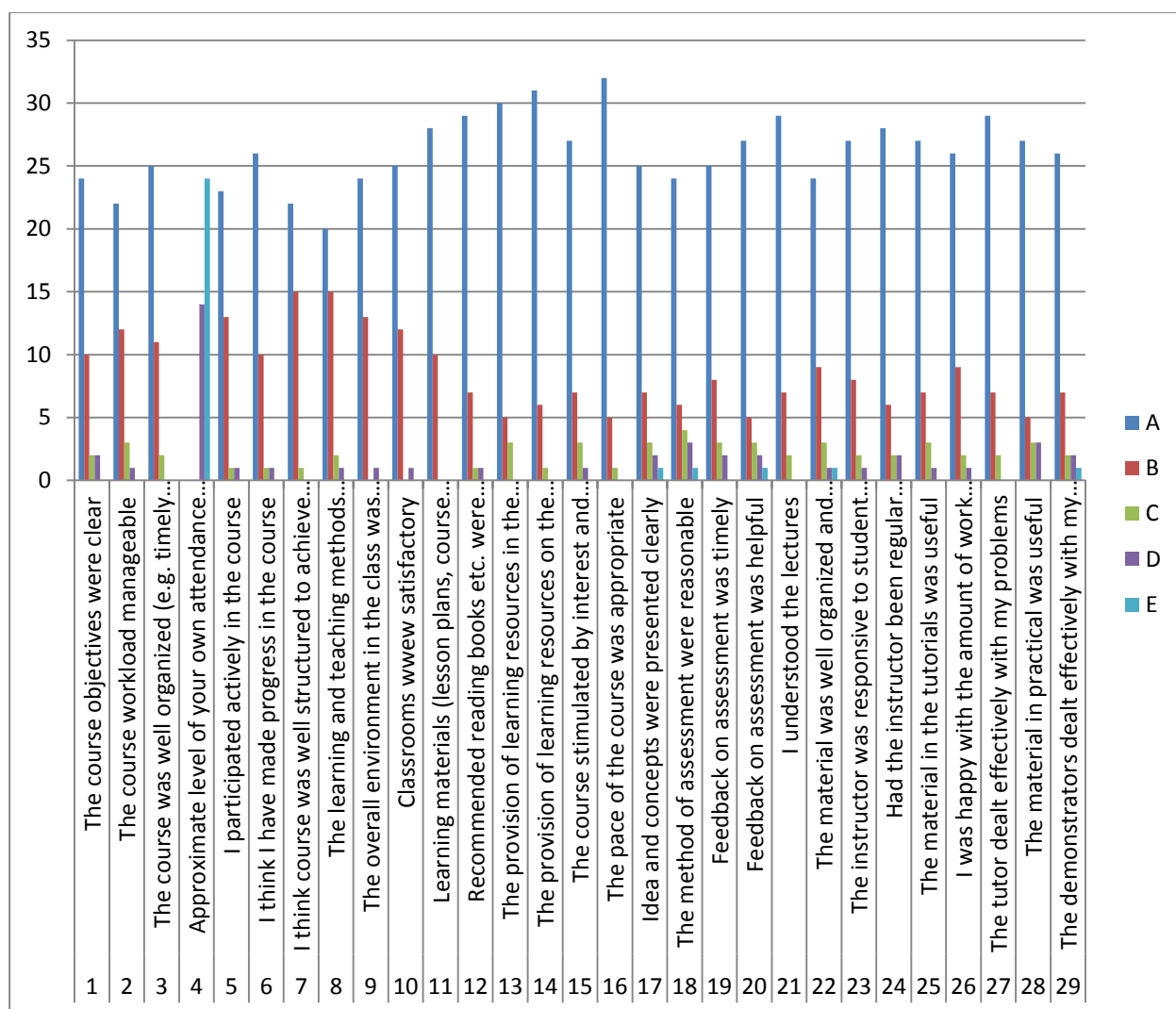
PARA-201

Data shows that 26 % of the students strongly agreed that the tutor dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), provision of learning resources in the library adequate and appropriate, they participated actively in the course, ideas and concepts presented clearly, the course stimulated their interest and though on the subject area and they understood the lectures. 35% of the students strongly agreed that the overall environment in the class was conducive to learning, recommended reading books relevant and appropriate, the material was well organized and presented, the material in the tutorials was useful, they have made progress in this course, the course was well structured to archive learning outcomes, the learning materials (lesson planes, course notes etc) relevant and useful, the pace of the course was appropriate, provision of learning resources on the web adequate and appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, course workload was manageable, approximate level of student's attendance during the whole course was higher, course objectives clear and feedback on assessment was timely. 25 % of the students strongly agreed that the instructor had been regular throughout the course, they are happy with the amount of work needed for the tutorials, method of assessment was reasonable, the material in the practical was useful, the classrooms satisfactory and feedback on assessment was helpful while 28% of the students strongly think that the learning and teaching methods encouraged the participation.



PARA-301

Data shows that 24 % of the students strongly agreed that the tutor dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), provision of learning resources in the library adequate and appropriate, they participated actively in the course, ideas and concepts presented clearly, the course stimulated their interest and though on the subject area and they understood the lectures. 35% of the students strongly agreed that the overall environment in the class was conducive to learning, recommended reading books relevant and appropriate, the material was well organized and presented, the material in the tutorials was useful, they have made progress in this course, the course was well structured to archive learning outcomes, the learning materials (lesson planes, course notes etc) relevant and useful, the pace of the course was appropriate, provision of learning resources on the web adequate and appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, course workload was manageable, approximate level of student's attendance during the whole course was higher, course objectives clear and feedback on assessment was timely. 24 % of the students strongly agreed that the instructor had been regular throughout the course, they are happy with the amount of work needed for the tutorials, method of assessment was reasonable, the material in the practical was useful, the classrooms satisfactory and feedback on assessment was helpful while 25% of the students strongly think that the learning and teaching methods encouraged the participation.



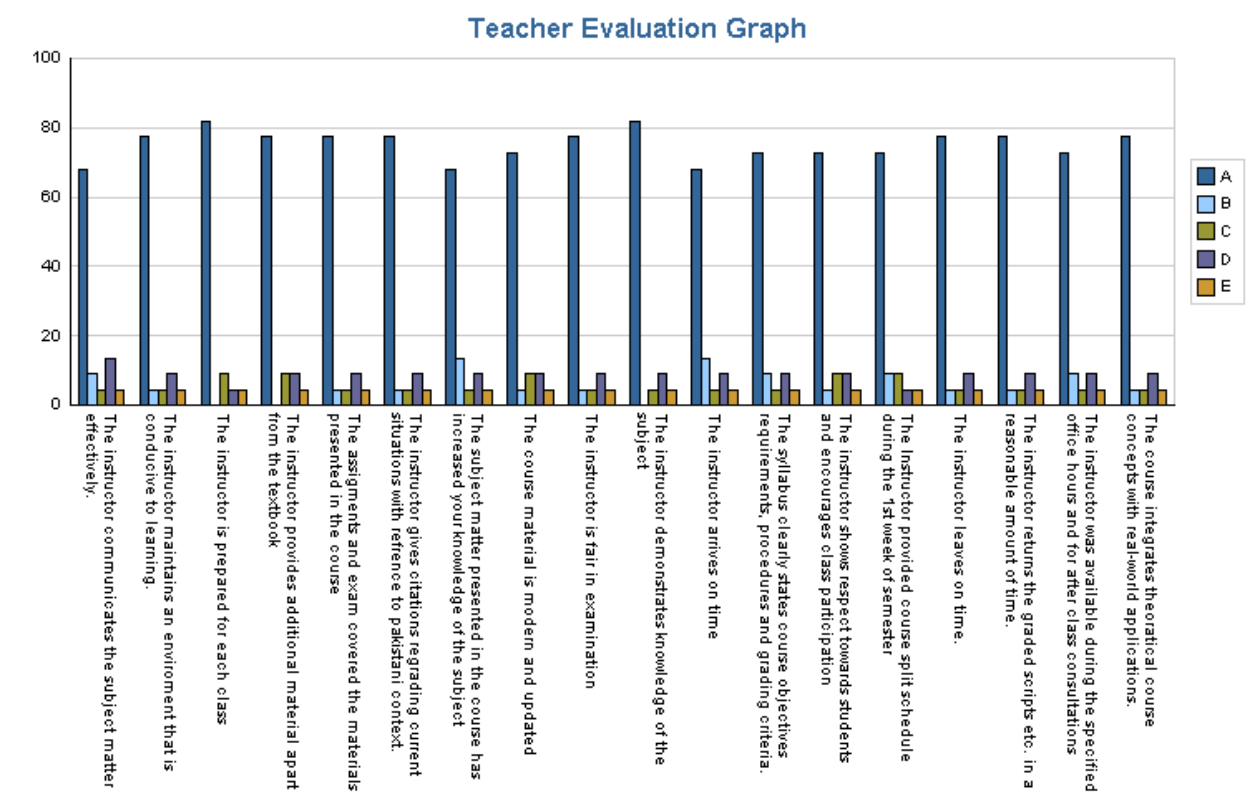
Fall-2013

The four teachers in the department numbered from 1-4 were evaluated during fall semester 2013. The names of the teachers along with their allotted numbers are Dr. Imtiaz Ahmed Khan (1) Dr. Murtaz-ul-Hasan (2), Dr. Saif-ur-Rehman (3), Mr. SajidUmer (4). The details of evaluation are given in the preceding paragraphs.

Teacher 1

Data shows that 70% of the students strongly agreed that the instructor maintains an environment that is conducive to learning and the instructor provided course split schedule during 1st week of the semester. 98% of the students strongly agreed that the subject matter presented in the course has increased your knowledge of the subject; the instructor shows respect towards students and

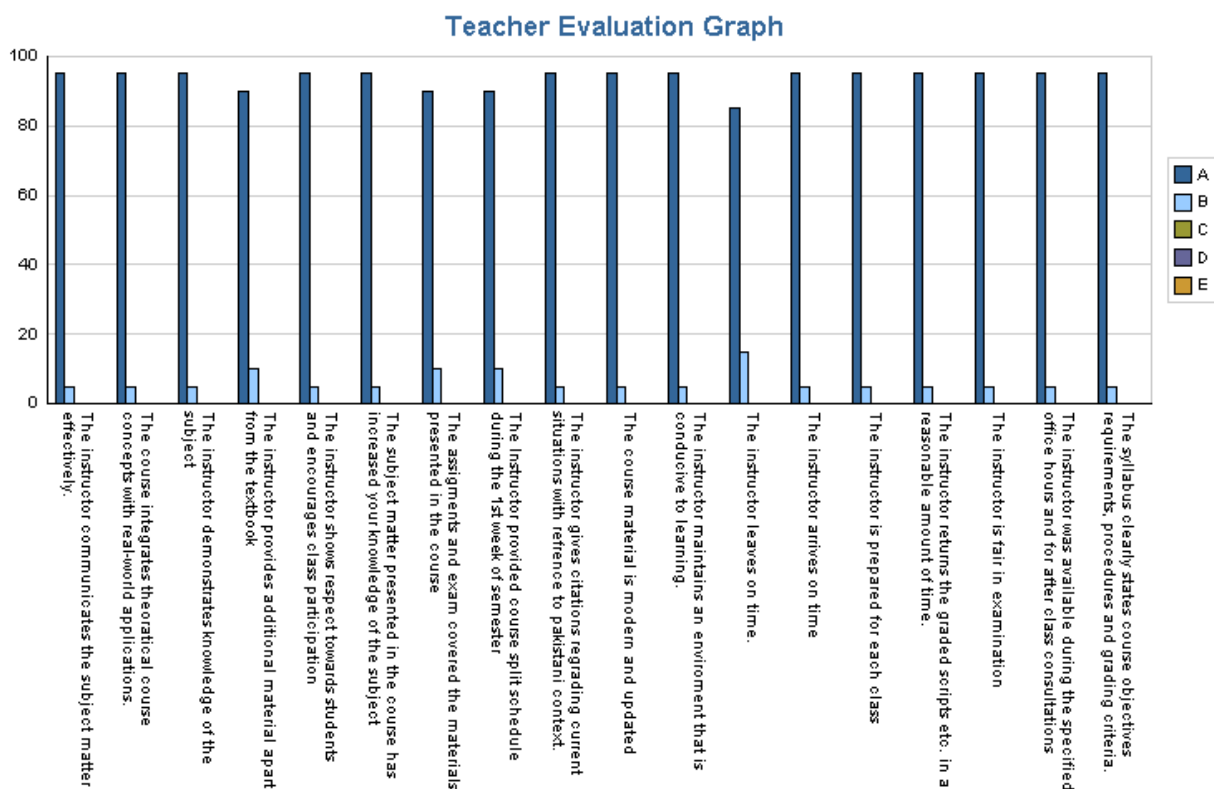
encourages class participation, the instructor was available during specified office hours and for after class consultations, the instructor returns the graded scripts etc in reasonable amount of time and the syllabus clearly states course objectives, requirements, procedures and grading criteria. 80% of the students strongly agreed that the instructor demonstrates the knowledge of the subject; the course material is modern and updated and the instructor arrives on time. Above 80% of the students strongly agreed that the instructor is fair in examination; the instructor gives citations regarding current situations with reference to Pakistani context, the instructor provides additional material apart from the textbook, the instructor is prepared for each class and the course integrates theoretical course concepts real-world applications. 90% of the students strongly agreed that the instructor communicates the subject matters effectively. 95% of the students strongly agreed that the assignments and exams covered the material presented in the course and the instructor leaves on time.



Teacher 2

Data shows that 95% of the students strongly agreed that the instructor maintains an environment that is conducive to learning and the instructor provided course split schedule during 1st week of the semester. 95% of the students strongly agreed that the subject matter presented in the course has increased your knowledge of the subject; the instructor shows respect towards students and encourages class participation, the instructor was available during specified office hours and for after class consultations, the instructor returns the graded scripts etc in reasonable amount of

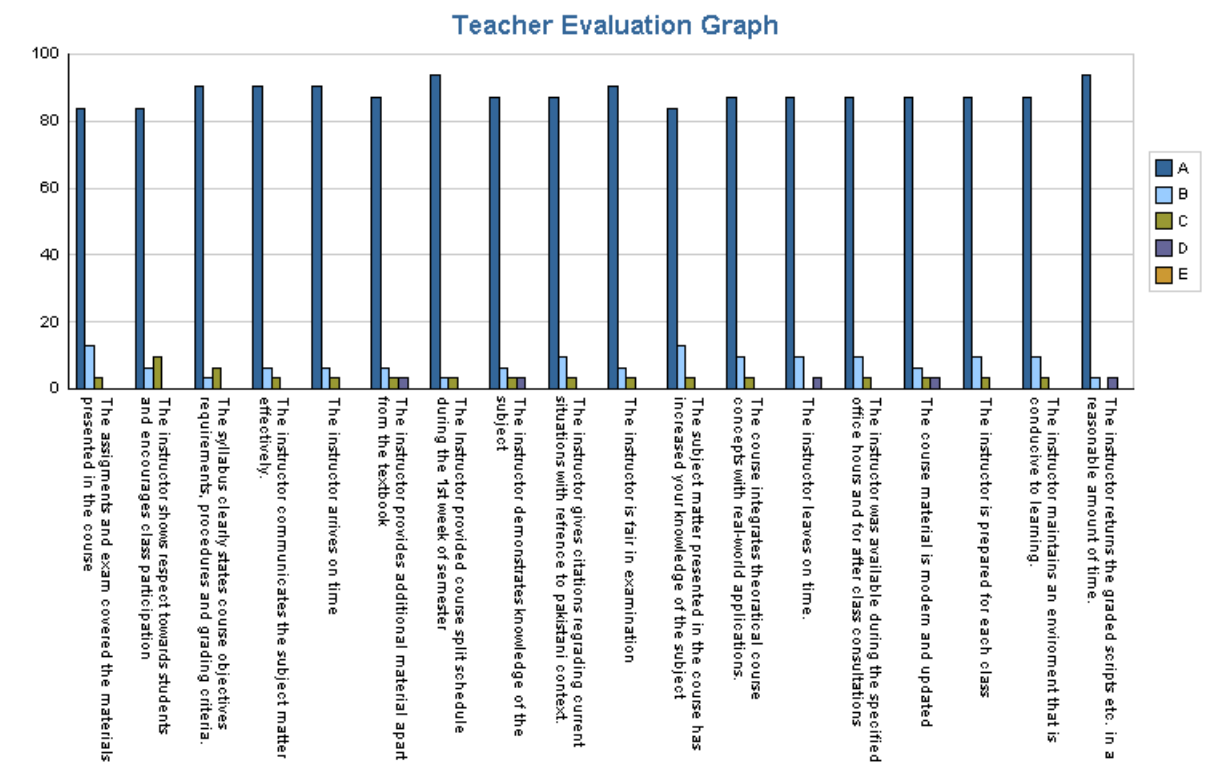
time and the syllabus clearly states course objectives, requirements, procedures and grading criteria. About 93% of the students strongly agreed that the instructor demonstrates the knowledge of the subject; the course material is modern and updated and the instructor arrives on time. Above 90% of the students strongly agreed that the instructor is fair in examination; the instructor gives citations regarding current situations with reference to Pakistani context, the instructor provides additional material apart from the textbook, the instructor is prepared for each class and the course integrates theoretical course concepts real-world applications. 95% of the students strongly agreed that the instructor communicates the subject matters effectively. 95% of the students strongly agreed that the assignments and exams covered the material presented in the course and the instructor leaves on time.



Teacher 3

Data shows that 90 % of the students were strongly agreed that the instructor returns the graded scripts etc in reasonable amount of time and the instructor provided course split schedule during 1st week of the semester. 85 % of the students were strongly agreed that the instructor is fair in examination; the instructor arrives on time, the syllabus clearly states course objectives, requirements, procedures and grading criteria and the instructor communicates the subject matters effectively. 83 % of the students were strongly agreed that the subject matter presented in the course has increased your knowledge of the subject, the assignments and exams covered the material presented in the course and the instructor shows respect towards students and

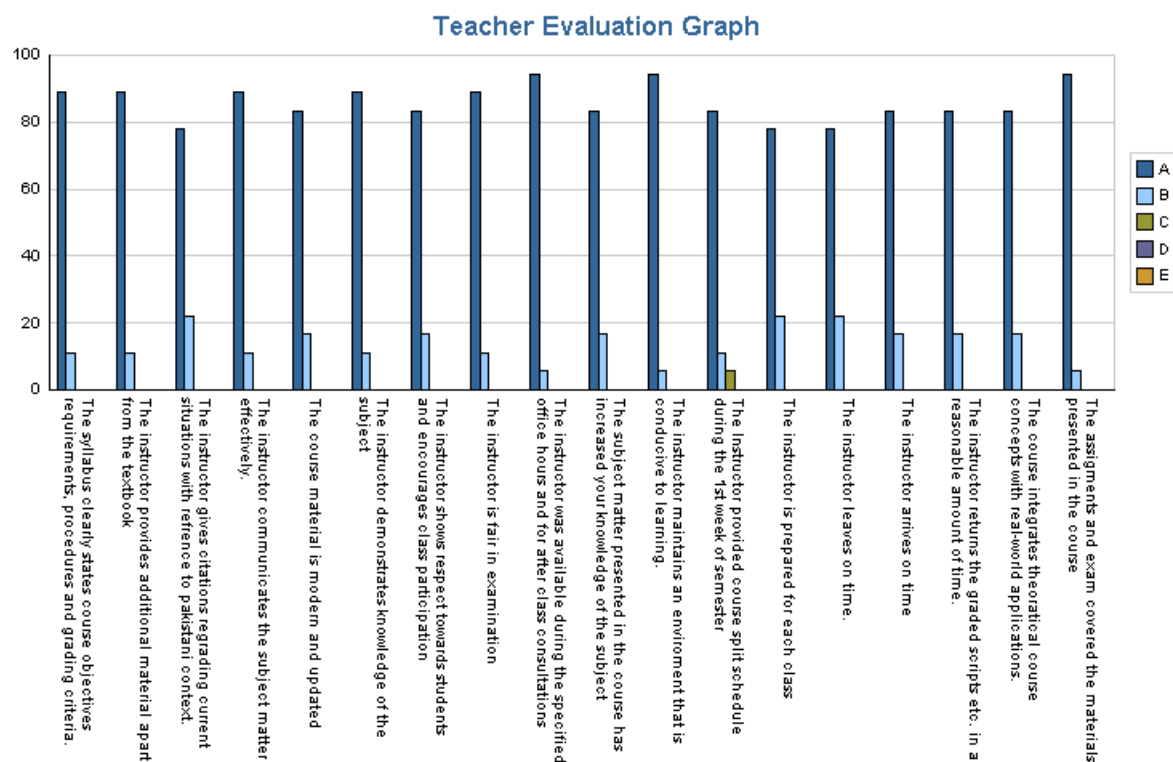
encourages class participation. 85 % of the students were strongly agreed that the instructor was available during specified office hours and for after class consultations, the instructor provides additional material apart from the textbook, the course integrates theoretical course concepts real-world applications, the instructor leaves on time, the instructor demonstrates the knowledge of the subject, the instructor gives citations regarding current situations with reference to Pakistani context, the instructor is prepared for each class, the course material is modern and updated and the instructor maintains an environment that is conducive to learning.



Teacher 4

Data shows that 95% of the students strongly agreed that the instructor maintains an environment that is conducive to learning, the instructor demonstrates the knowledge of the subject, the assignments and exams covered the material presented in the course and the instructor was available during specified office hours and for after class consultations. 84% of the students strongly agreed that the instructor demonstrates the knowledge of the subject, the instructor communicates the subject matters effectively, the instructor is fair in examination, the syllabus clearly states course objectives, requirements, procedures and grading criteria and the instructor provides additional material apart from the textbook. 82% of the students strongly agreed that the subject matter presented in the course has increased your knowledge of the subject, the instructor shows respect towards students and encourages class participation, the course material is modern and updated, the instructor returns the graded scripts etc in reasonable amount of time, the instructor arrives on time, the course integrates theoretical course concepts real-world applications and the instructor provided course split schedule during 1st week of the semester.

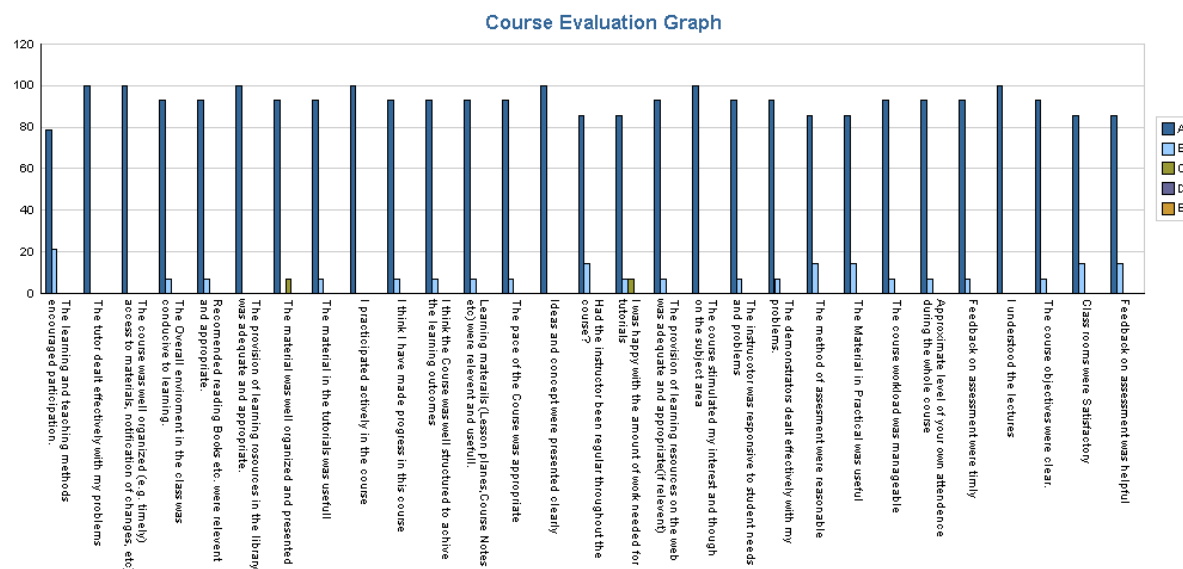
Below 80% of the students strongly agreed that the instructor arrives on time, the instructor gives citations regarding current situations with reference to Pakistani context, the instructor leaves on time and the instructor is prepared for each class.



PATH-401

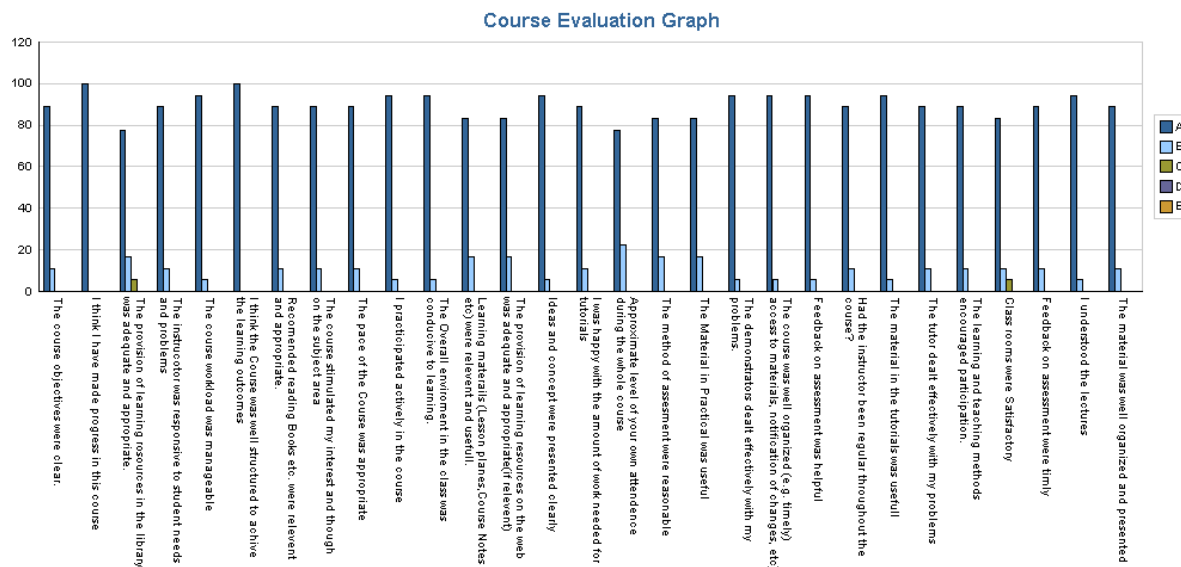
Data shows that 100 % of the students strongly agreed that the tutor dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), provision of learning resources in the library adequate and appropriate, they participated actively in the course, ideas and concepts presented clearly, the course stimulated their interest and though on the subject area and they understood the lectures. 95% of the students strongly agreed that the overall environment in the class was conducive to learning, recommended reading books relevant and appropriate, the material was well organized and presented, the material in the tutorials was useful, they have made progress in this course, the course was well structured to archive learning outcomes, the learning materials (lesson planes, course notes etc) relevant and useful, the pace of the course was appropriate, provision of learning resources on the web adequate and appropriate, the instructor was responsive to their needs and problems, the demonstrators dealt effectively with their problems, course workload was manageable, approximate level of student's attendance during the whole course was higher, course objectives clear and feedback on assessment was timely. 84 % of the students strongly agreed that the instructor had been regular throughout the course, they happy with the amount of work needed for the tutorials, method of assessment was reasonable, the material in the practical was useful,

the classrooms satisfactory and feedback on assessment was helpful while 80% of the students strongly think that the learning and teaching methods encouraged the participation.



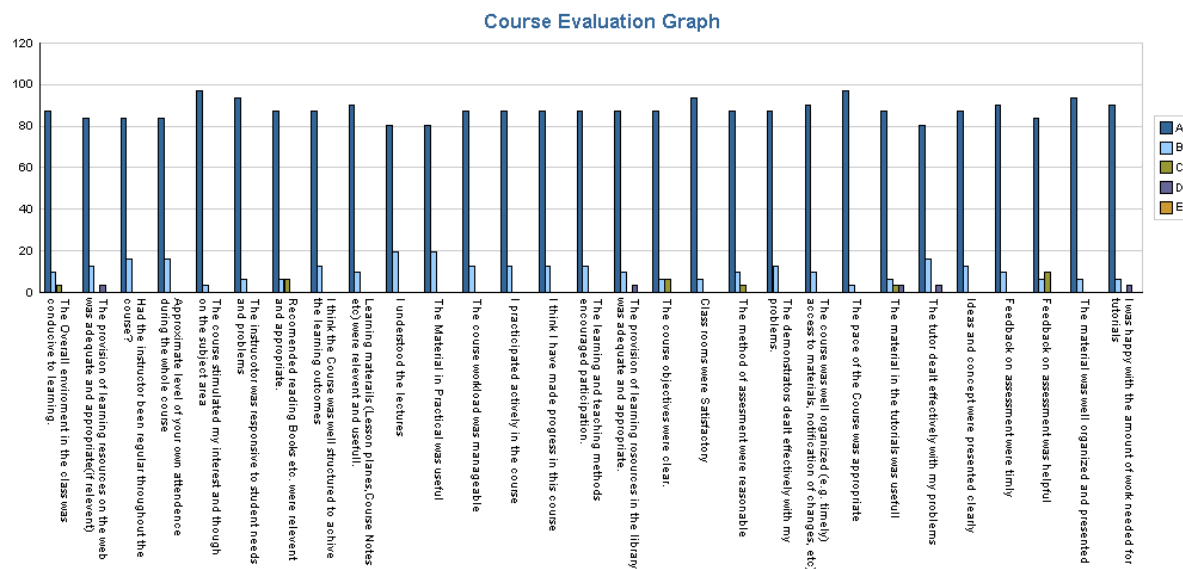
PATH-501

Data shows that the students are strongly agreed (100 %) that the course was well structured to archive learning outcomes and they have made progress in this course. 90 % of the students strongly agreed that the course workload was manageable; they participated actively in the course, the overall environment in the class was conducive to learning, ideas and concepts were presented clearly, the demonstrators dealt effectively with their problems, the course was well organized (e.g. Timely access to materials, notification of changes etc), feedback on assessment was helpful, the material in the tutorials was useful and they understood the lectures. 85 % of the students strongly think that the course objectives were clear, the instructor was responsive to their needs and problems, recommended reading books were relevant and appropriate, the course stimulated their interest and though on the subject area, the pace of the course was appropriate, they were happy with the amount of work needed for the tutorials, instructor had been regular throughout the course, the tutor dealt effectively with their problems, The learning and teaching methods encouraged the participation, feedback on assessment was timely and the material was well organized and presented. 82 % of the students were strongly agreed that the provision of learning resources in the library was adequate and appropriate, the learning materials (lesson planes, course notes etc) were relevant and useful, method of assessment was reasonable, the material in the practical was useful and the classrooms were satisfactory. Below 80 %, the students think that approximate level of student's attendance during the whole course was higher and provision of learning resources in the library was adequate and appropriate.



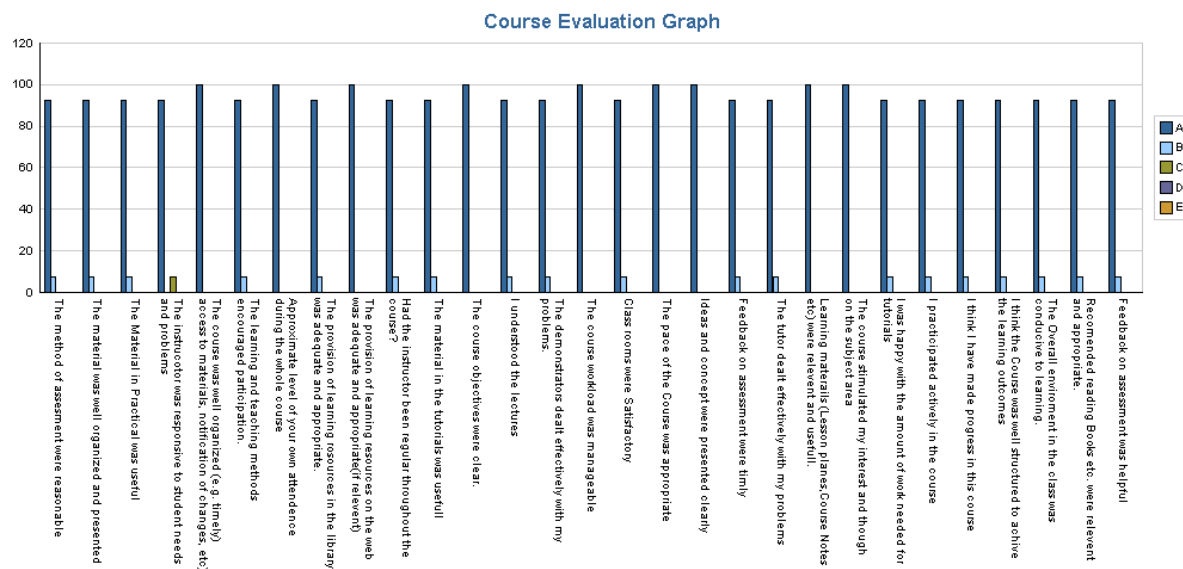
MICRO-201

Data shows that 99 % of the students were strongly agreed that the course stimulated their interest and though on the subject area and pace of the course was appropriate. 97 % of the students were strongly agreed that the instructor was responsive to their needs and problems, the material was well organized and presented and the classrooms were satisfactory. 95 % of the students were strongly agreed that the course was well organized (e.g. timely access to materials, notification of changes etc), the feedback on assessment was timely, the learning materials (lesson planes, course notes etc) were relevant and useful and they were happy with the amount of work needed for the tutorials. 82 % of the students were strongly agreed that feedback on assessment was helpful, provision of learning resources on the web were adequate and appropriate, approximate level of student's attendance during the whole course was higher. 80 % of the students were strongly agreed that the tutor dealt effectively with their problems, they have understood the lectures and material in practical was helpful. 85 % of the students were strongly agreed that the ideas and concepts were presented clearly, they have made progress in this course, the learning and teaching methods encouraged the participation, recommended reading books were relevant and appropriate, they have participated actively in this course, course workload was manageable, method of assessment was reasonable, the course was well structured to archive learning outcomes, the provision of learning resources in the library were adequate and appropriate, material in the tutorials was helpful, demonstrators dealt effectively with their problems, the course objectives were clear and the overall environment in the class was conducive to learning.



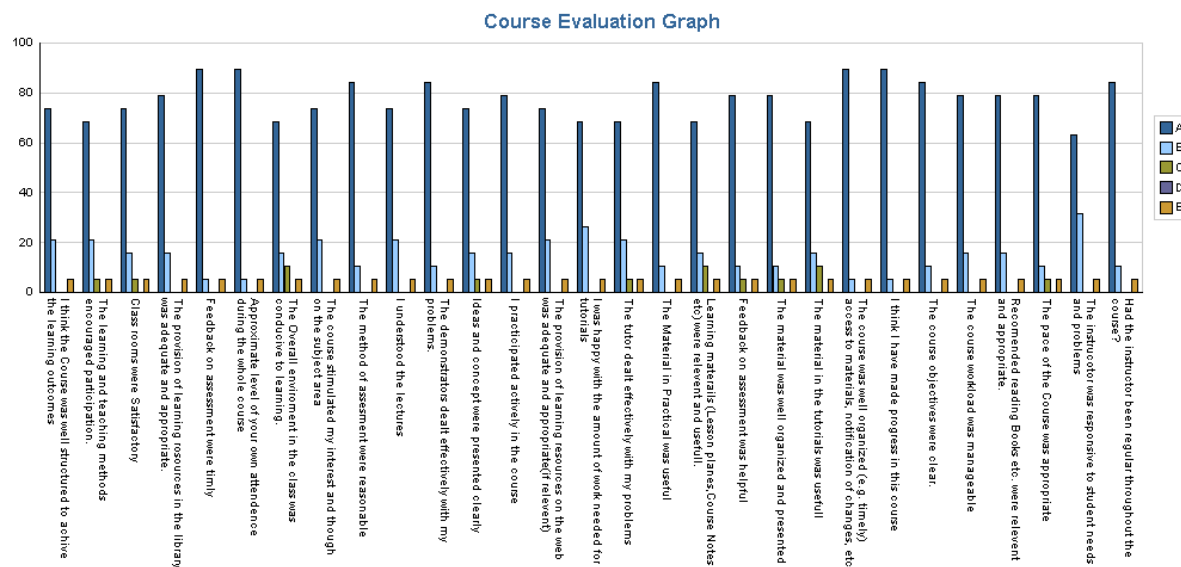
MICRO-401

Data shows that 100 % of the students were strongly agreed that the course was well organized (e.g. Timely access to materials, notification of changes etc), approximate level of student's attendance during the whole course was higher; provision of learning resources on the web were adequate and appropriate, course workload was manageable, course objectives were clear, ideas and concepts were presented clearly, the course stimulated their interest and thought on the subject area, , the pace of the course was appropriate and the learning materials (lesson planes, course notes etc) were relevant and useful. 94 % of the students were strongly agreed that they have made progress in this course, the course was well structured to archive learning outcomes, method of assessment was reasonable, they participated actively in the course, they understood the lectures, the material in the practical was useful, the material in the tutorials was useful, feedback on assessment was helpful, instructor had been regular throughout the course, recommended reading books were relevant and appropriate, the instructor was responsive to their needs and problems, the tutor dealt effectively with their problems, the material was well organized and presented, the classrooms were satisfactory, the provision of learning resources in the library was adequate and appropriate, they were happy with the amount of work needed for the tutorials, the demonstrators dealt effectively with their problems, feedback on assessment was timely and learning and teaching methods encouraged the participation.



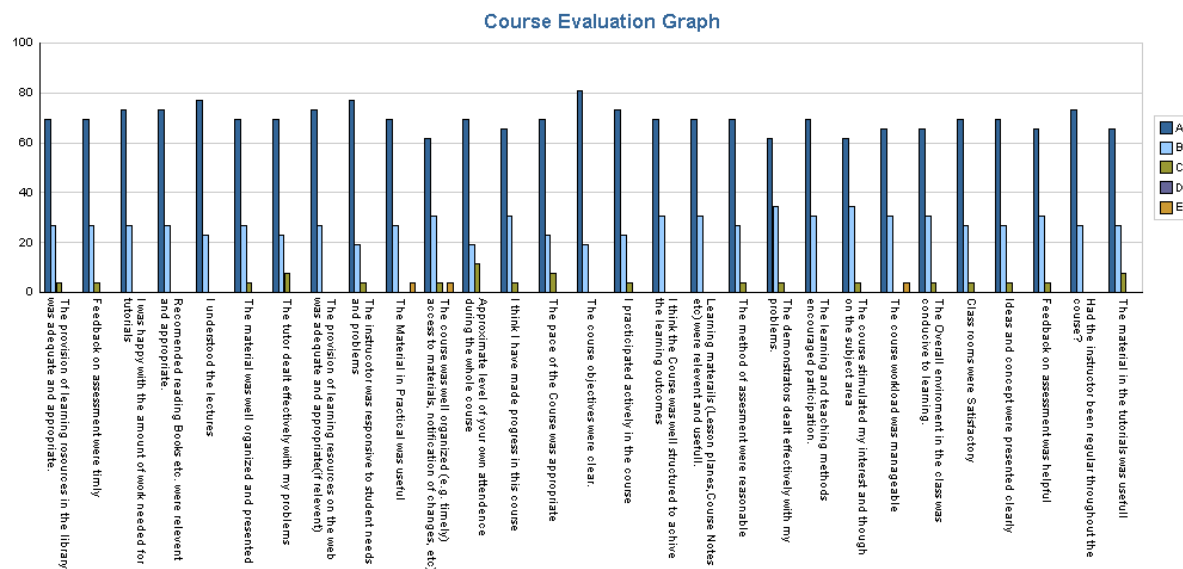
MICRO-301

Data shows that 95 % of the students were strongly agreed that the course was well organized (e.g. Timely access to materials, notification of changes etc), approximate level of student's attendance during the whole course was higher, feedback on assessment was timely and they have made progress in this course. 84 % of the students were strongly agreed that method of assessment was reasonable, course objectives were clear, ideas and concepts were presented clearly, instructor had been regular throughout the course, the demonstrators dealt effectively with their problems and the material in the practical was useful. Below 80 % of the students were strongly agreed that the course was well structured to archive learning outcomes, the course stimulated their interest and though on the subject area, course workload was manageable, they participated actively in the course, they understood the lectures, the learning materials (lesson planes, course notes etc) were relevant and useful, the material in the tutorials was useful, feedback on assessment was helpful, recommended reading books were relevant and appropriate, the instructor was responsive to their needs and problems, the tutor dealt effectively with their problems, the material was well organized and presented, the classrooms were satisfactory, the provision of learning resources in the library was adequate and appropriate, they were happy with the amount of work needed for the tutorials, the pace of the course was appropriate, learning and teaching methods encouraged the participation and provision of learning resources on the web was adequate and appropriate.



PARA-201

Data shows that 80 % of the students were strongly agreed that the course objectives were clear. Below 80 % of the students were strongly agreed that the course was well organized (e.g. Timely access to materials, notification of changes etc) and they have made progress in this course. 82% of the students were strongly agreed that the course was well structured to archive learning outcomes, course objectives were clear, ideas and concepts were presented clearly, approximate level of student's attendance during the whole course was higher, the course stimulated their interest and though on the subject area, method of assessment was reasonable, course workload was manageable, they participated actively in the course, they understood the lectures and the material in the practical was useful. 80 % of the students were strongly agreed that the learning materials (lesson planes, course notes etc) were relevant and useful, the material in the tutorials was useful, feedback on assessment was helpful, instructor had been regular throughout the course, recommended reading books were relevant and appropriate, the instructor was responsive to their needs and problems and the tutor dealt effectively with their problems. Less than 80 % of the students were strongly agreed that the material was well organized and presented, the classrooms were satisfactory, the provision of learning resources in the library was adequate and appropriate, they were happy with the amount of work needed for the tutorials, the demonstrators dealt effectively with their problems, the pace of the course was appropriate, feedback on assessment was timely, learning and teaching methods encouraged the participation and provision of learning resources on the web was adequate and appropriate.



Department of Bio Medical Sciences

The six teachers in the department numbered from 1-6 were evaluated during 2012-2013. The names of the teachers along their allotted numbers are (1) Dr. Mansur Abdullah (2) Miss Sumaira Hassan, (3) Mr. Mujeebur Rehman, (4) Mr. Asif Riaz (5) Mr. Zeeshan Akbar (6) Dr. Riaz Hussain Pasha. The results showed that the teacher 2 was on top scoring 4.21. The lowest performance with a score of 3.55 was observed in case of teacher 5 (Figure-1).

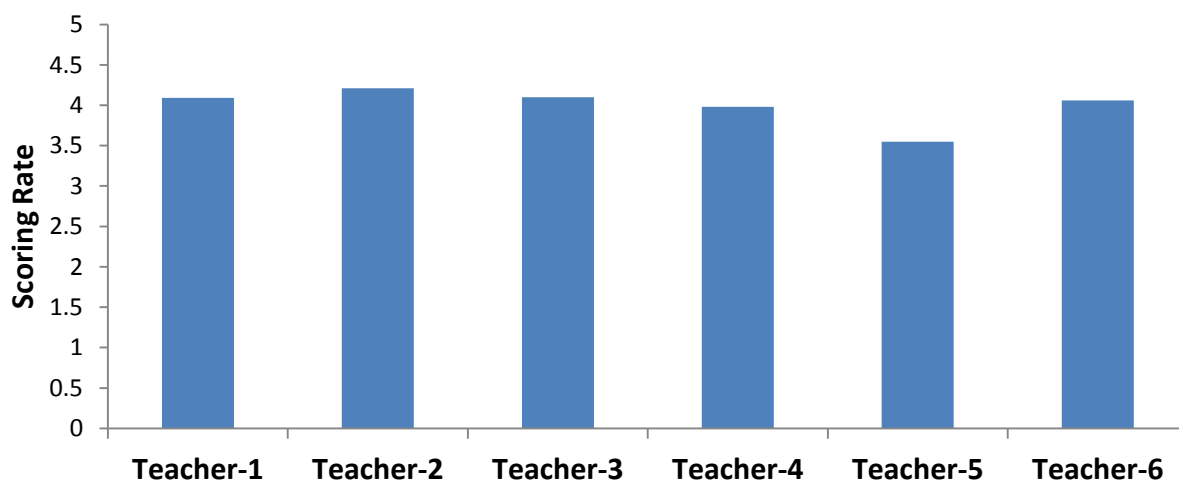
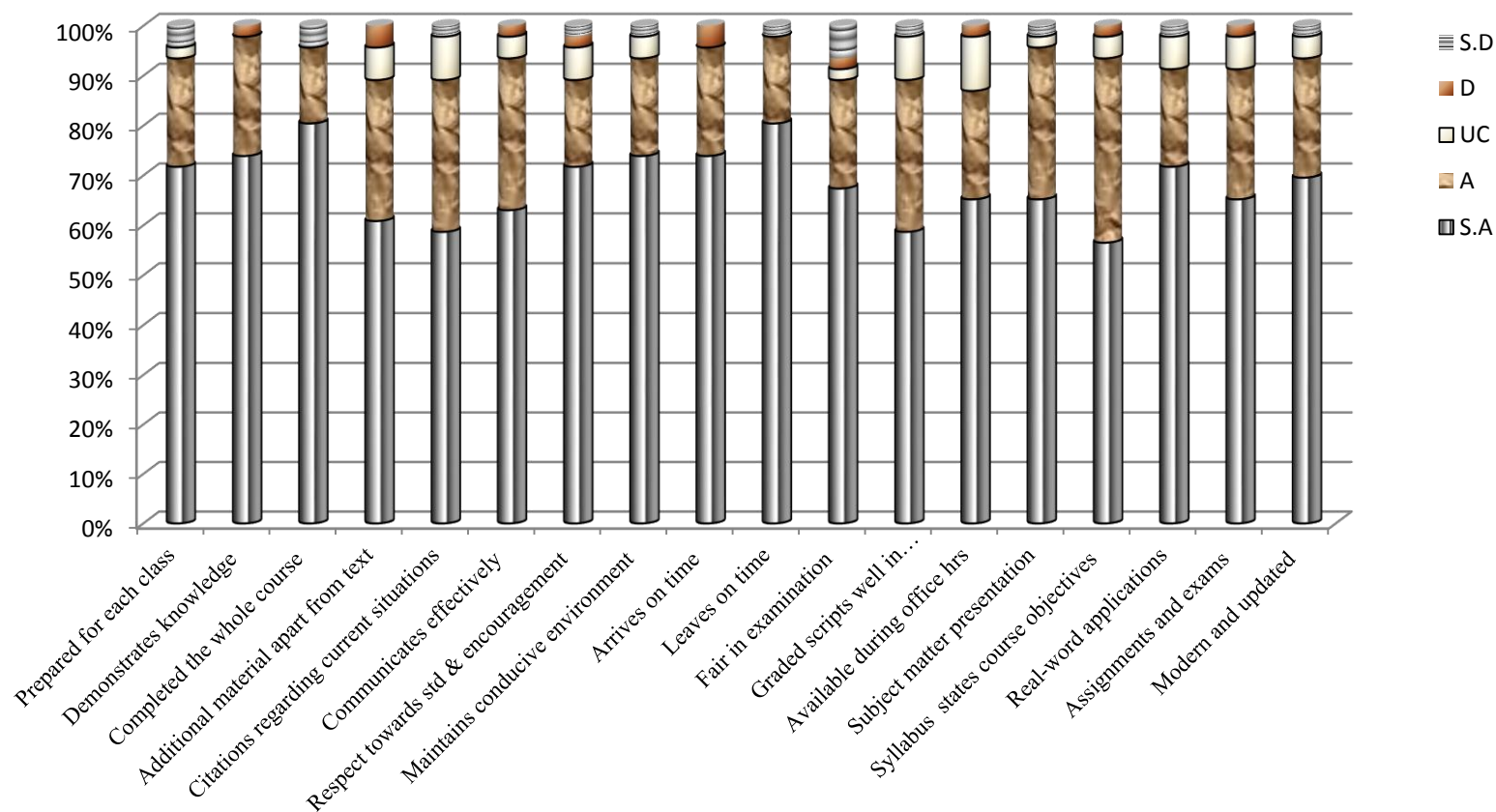


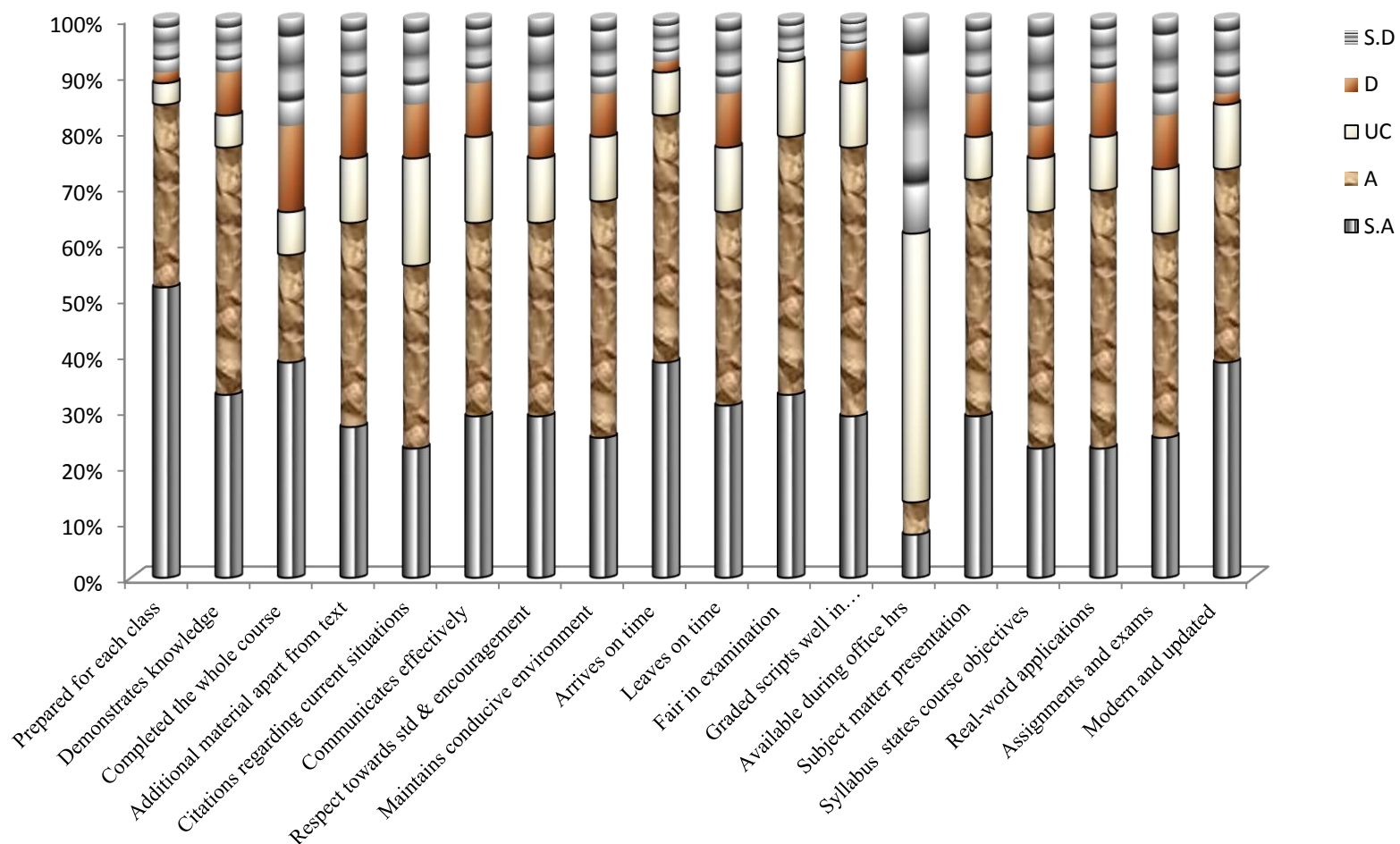
Figure 1: Performance level of different teachers in the Department of Bio-Medical Sciences



Evaluation of Teacher 1

Teacher evaluation data shows that the students are strongly agreed (90%) that the teacher is prepared for each class and more than 80% of the students strongly agreed that teacher maintains the environment conducive for learning.

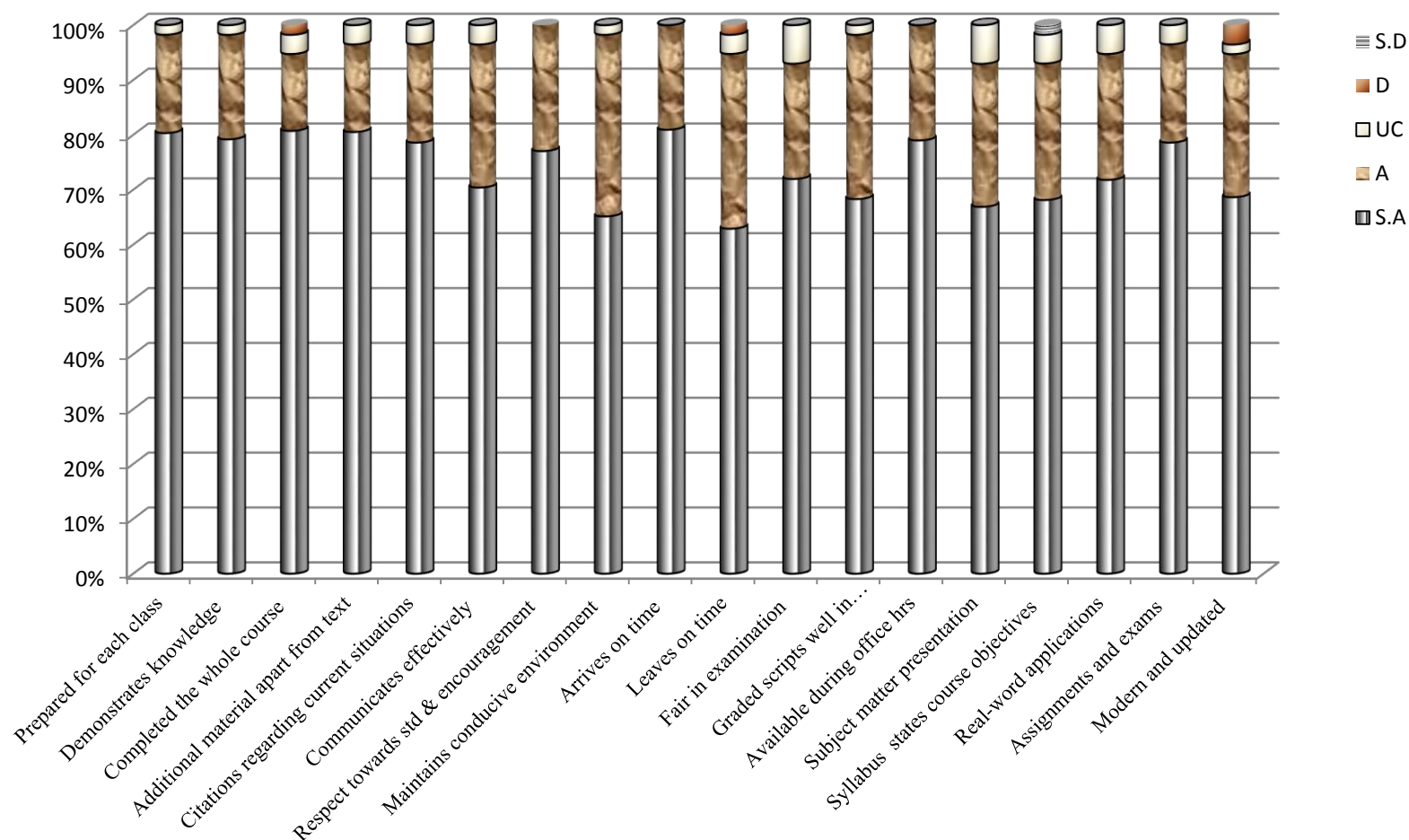
Department of Bio Medical Sciences



Evaluation of Teacher - 2

Graph elaborates that most of the students (85%) agreed with respect to teacher preparedness, well in time, effective communication and uptodate course material.

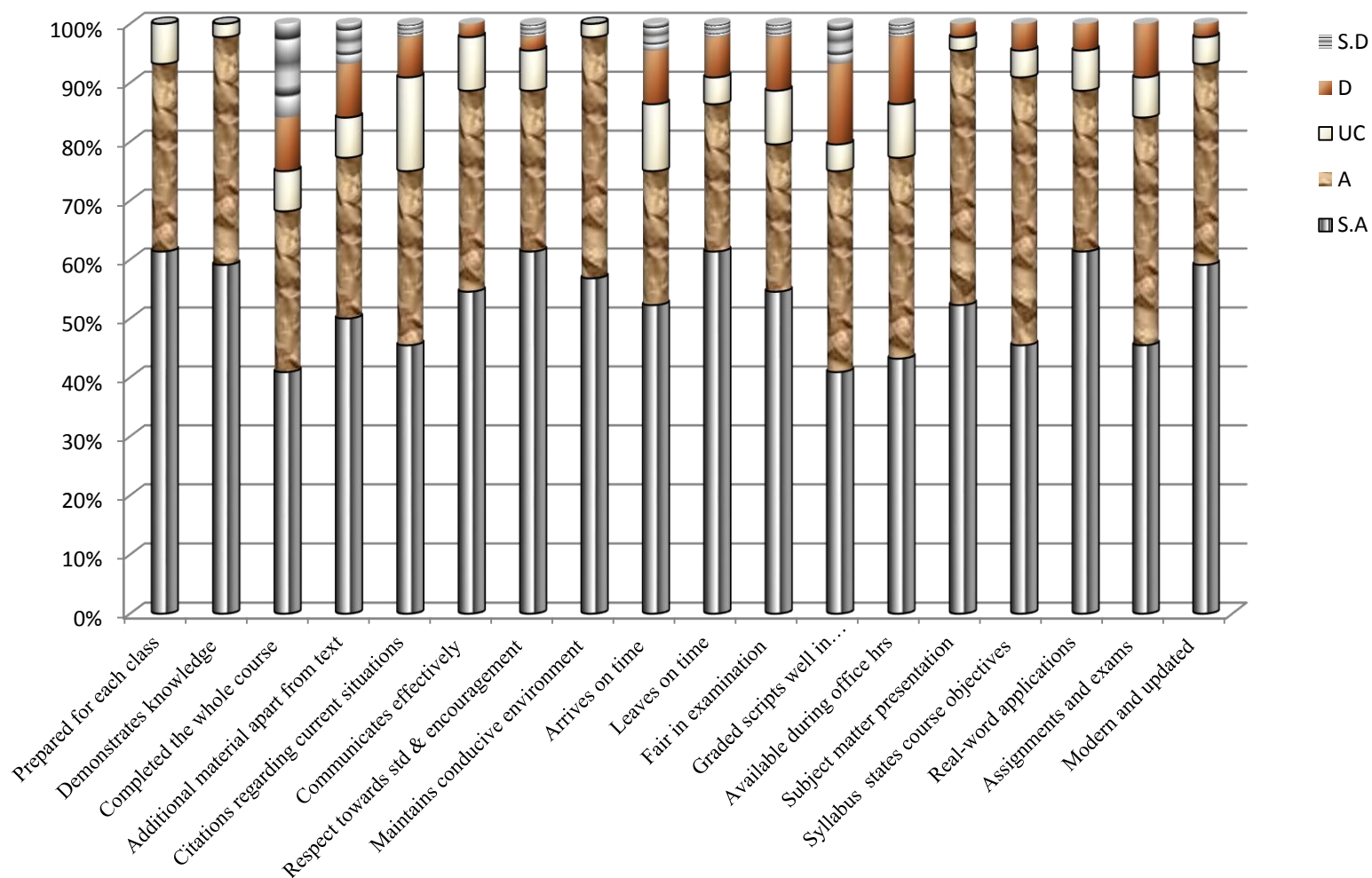
Department of Bio Medical Sciences



Evaluation of Teacher -3

The graph represented that more than 80% of the student's strongly agreed with respect to different observations. This indicates an excellent performance of the teacher.

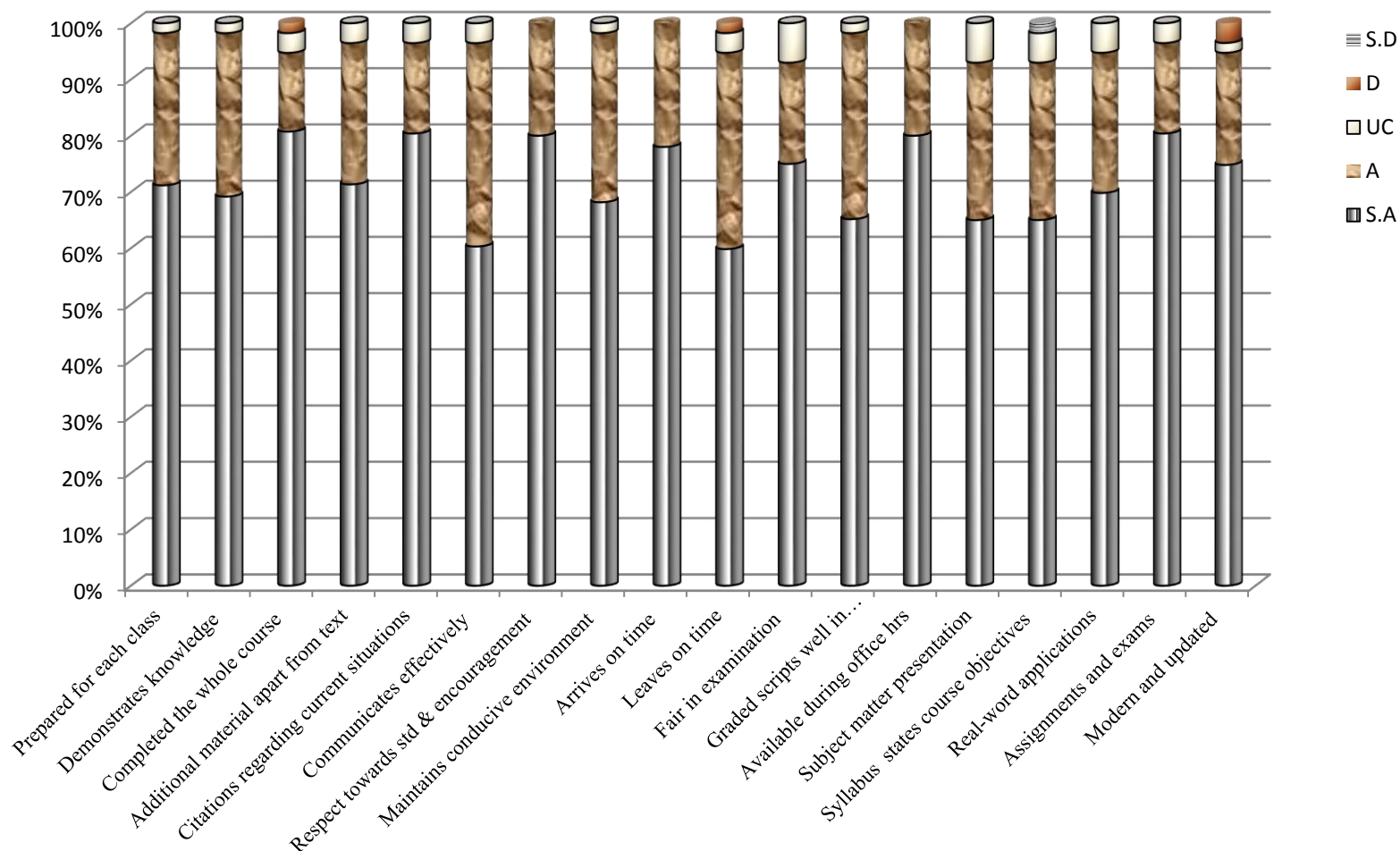
Department of Bio Medical Sciences



Evaluation of Teacher -4

The performance of teacher is good with regard to its punctuality, modern and updated method of teaching, respect towards students and encouragement for participation.

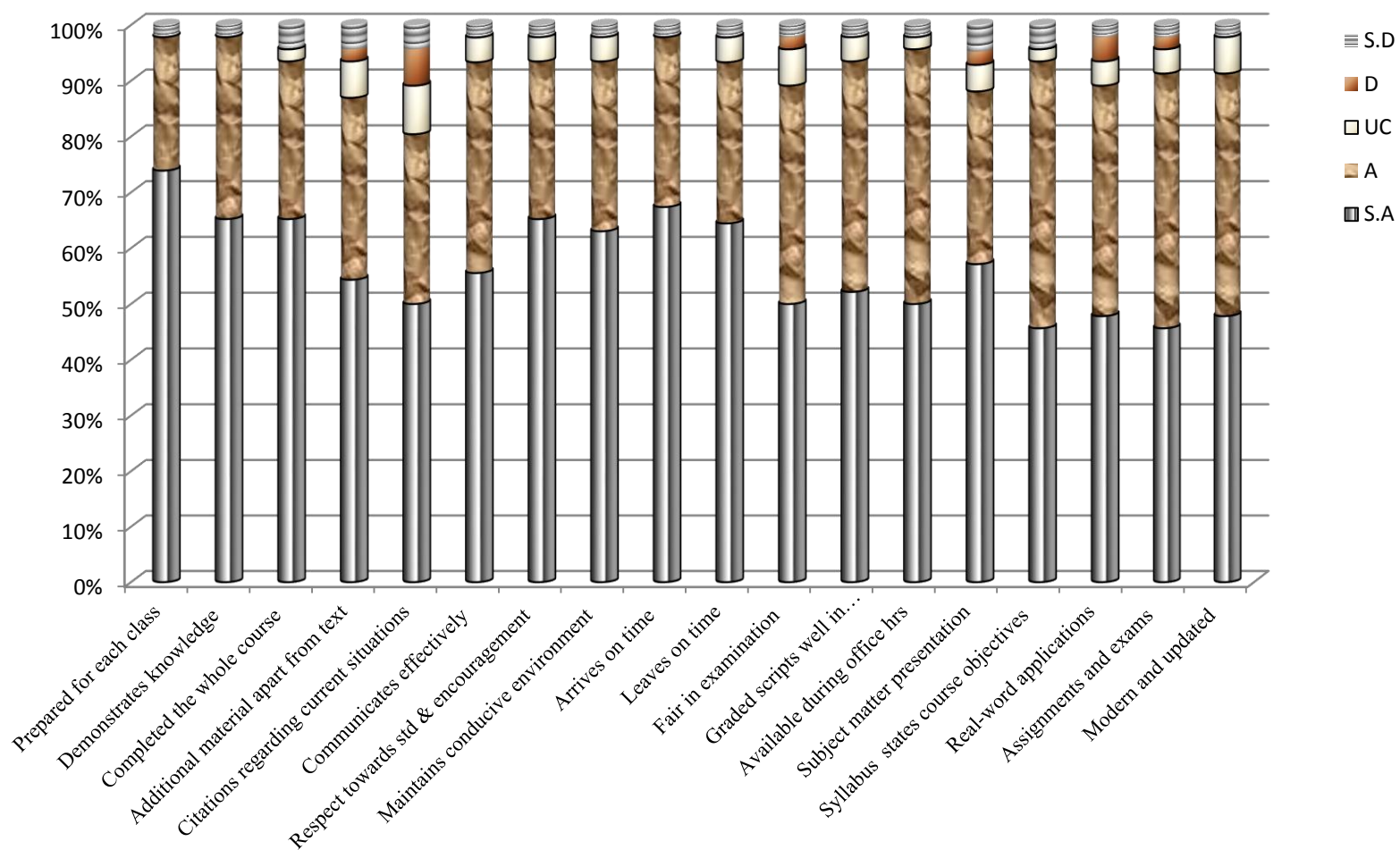
Department of Bio Medical Sciences



Evaluation of Teacher - 5

More than 70% of the students strongly agreed, that teacher was prepaed for classes, completed the course work, give citations regarding current situation, and taught modern and updated course.

Department of Bio Medical Sciences

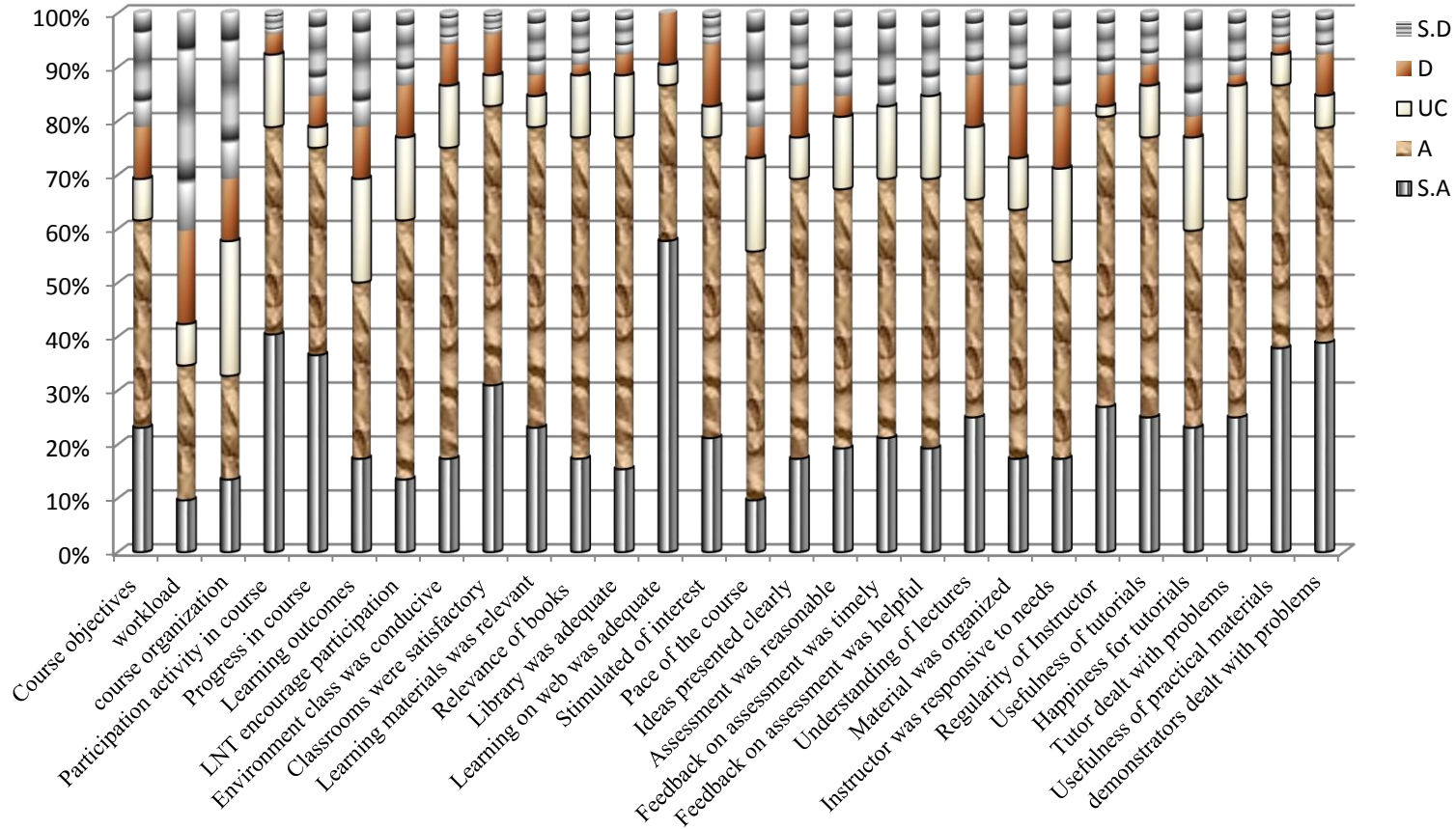


Evaluation of Teacher - 6

More than 70% of the students strongly agreed that the teacher was fully prepared for each class and above 60% of the students commented that the instructor delivered the related knowledge of the subject.

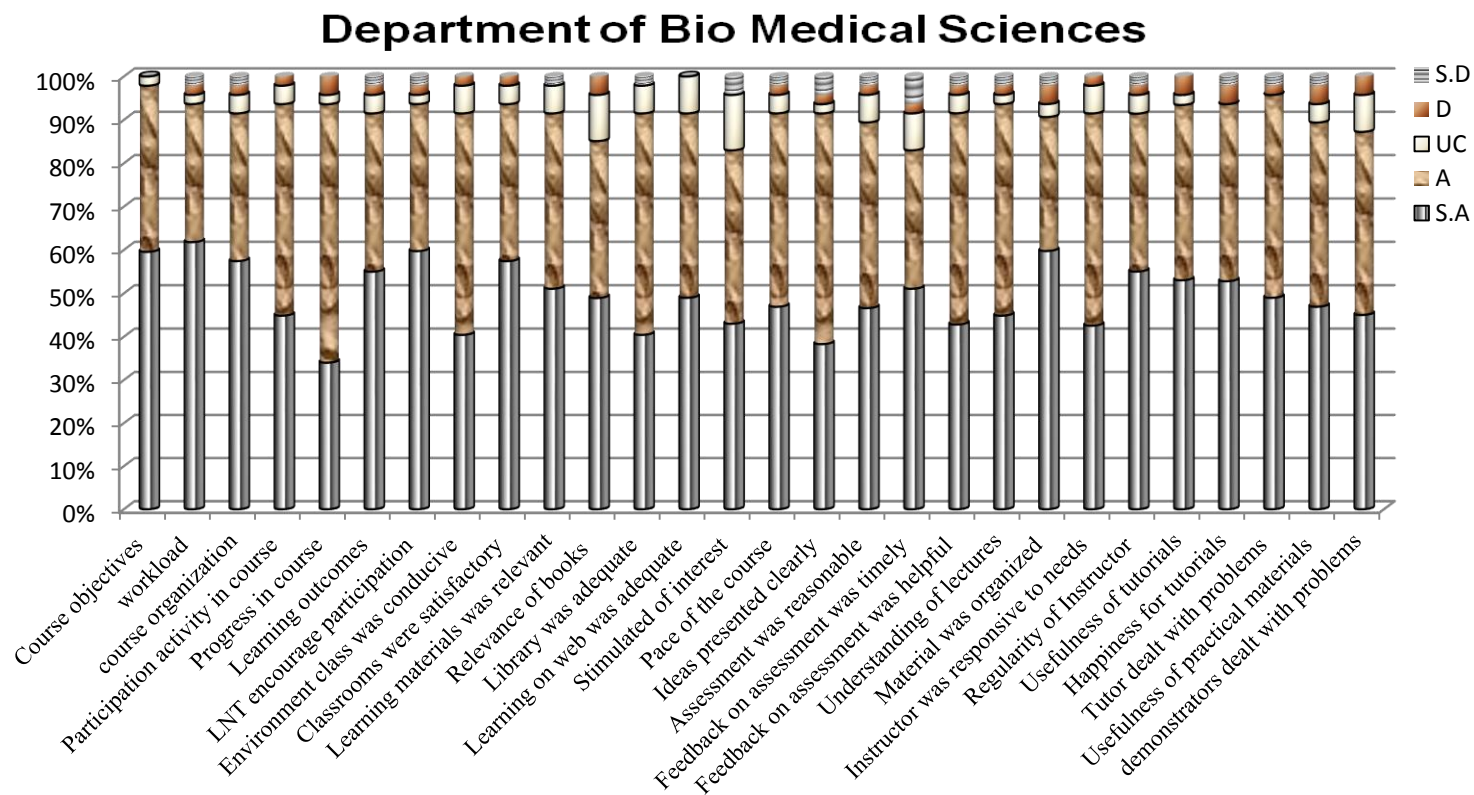
Courses Evaluation

Department of Bio Medical Sciences



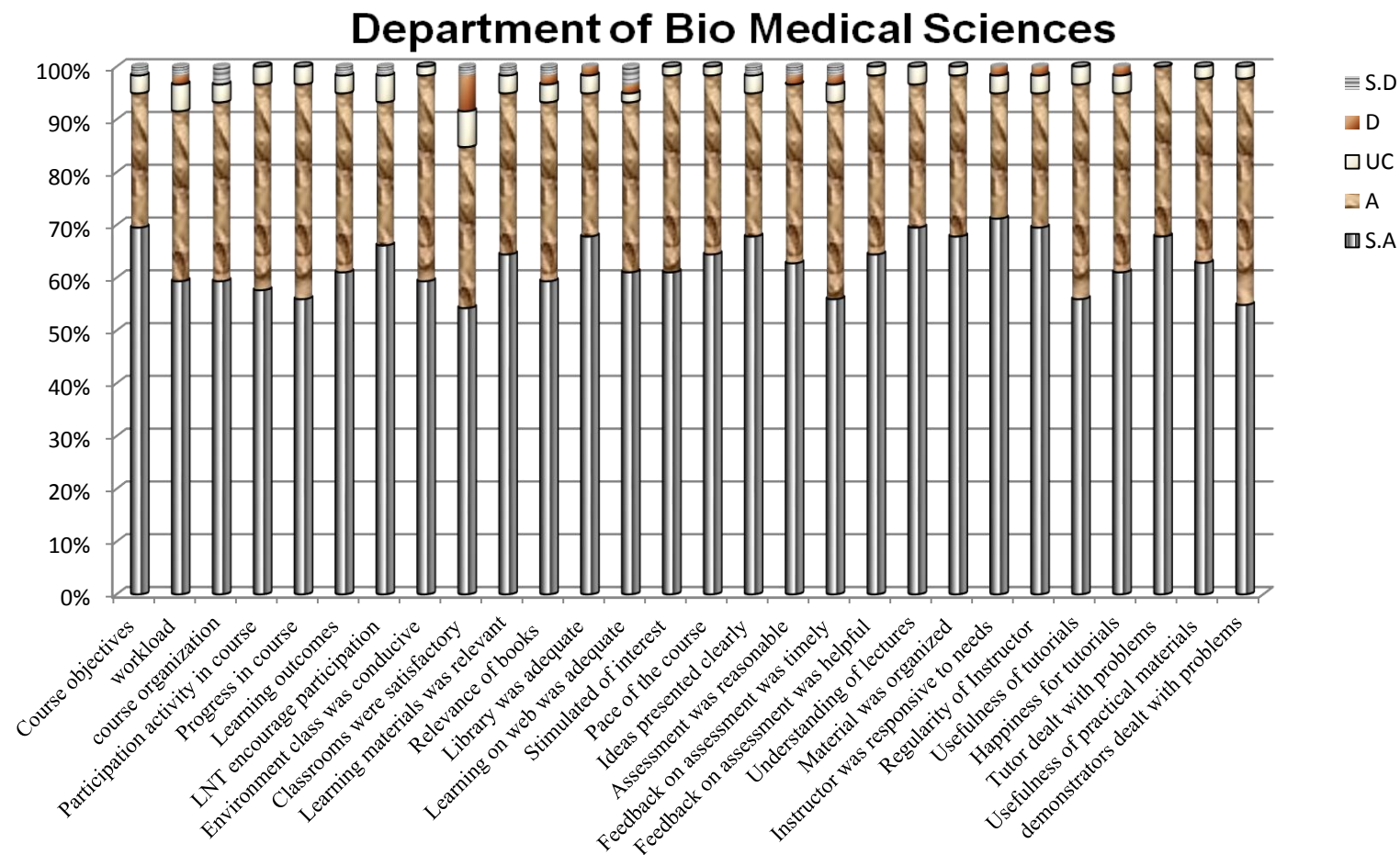
COURSE PHYS-101 (Teacher -2)

Round about 70% students strongly agreed that that learning was adequate, however, about 35% students strongly disagree that the workload was manageable due to lengthy course work. Along with that more than 70% students strongly agreed and agreed that they have made progress in the course.



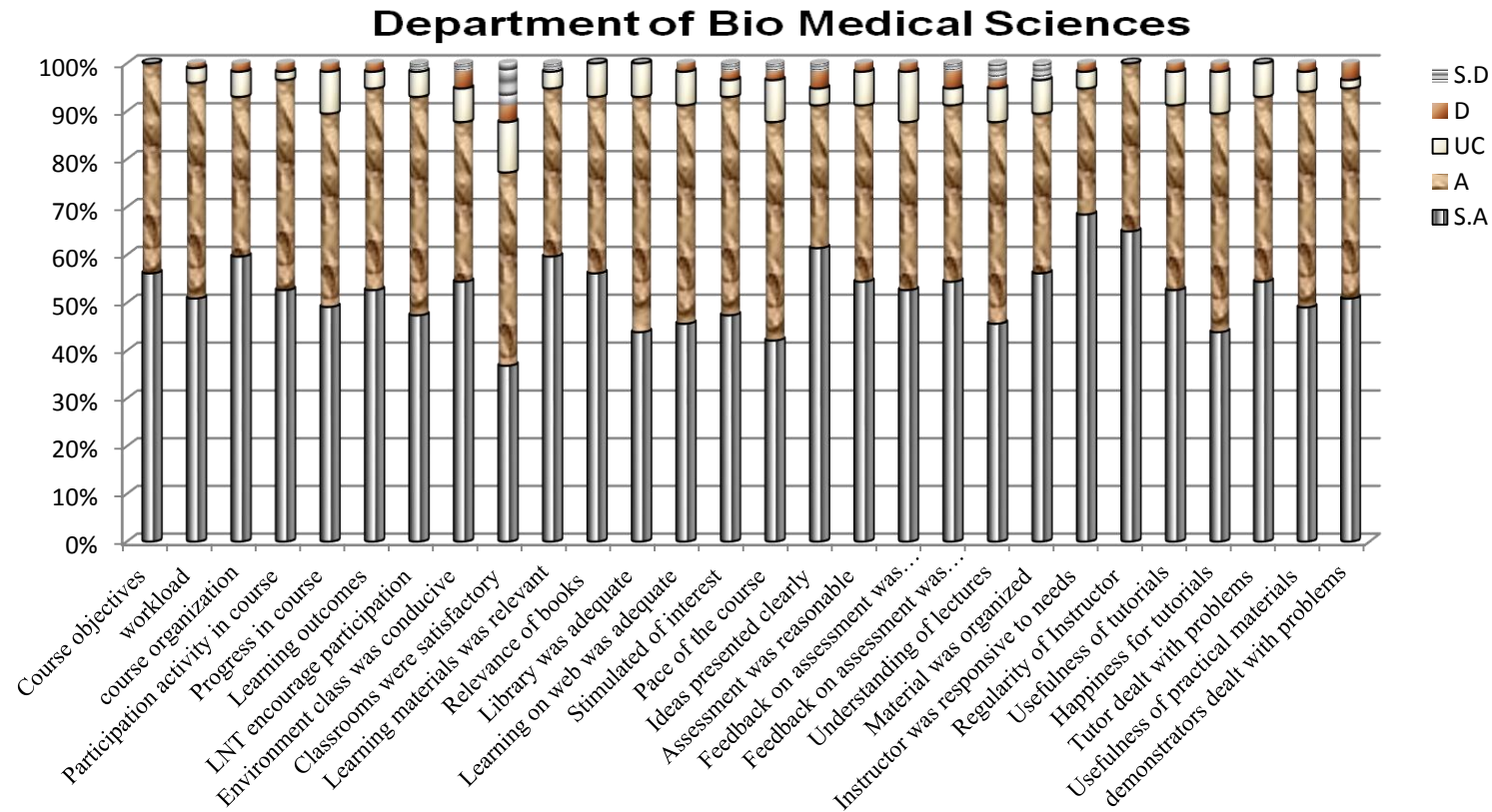
Course PHYS-102 (Teacher-1)

About 80% students stated that course objectives are clear and workload is manageable. Along with 33% strongly agreed and 59% agreed that they have made progress in the respective course and the material was organized by the teacher was stated by more than 60% students.



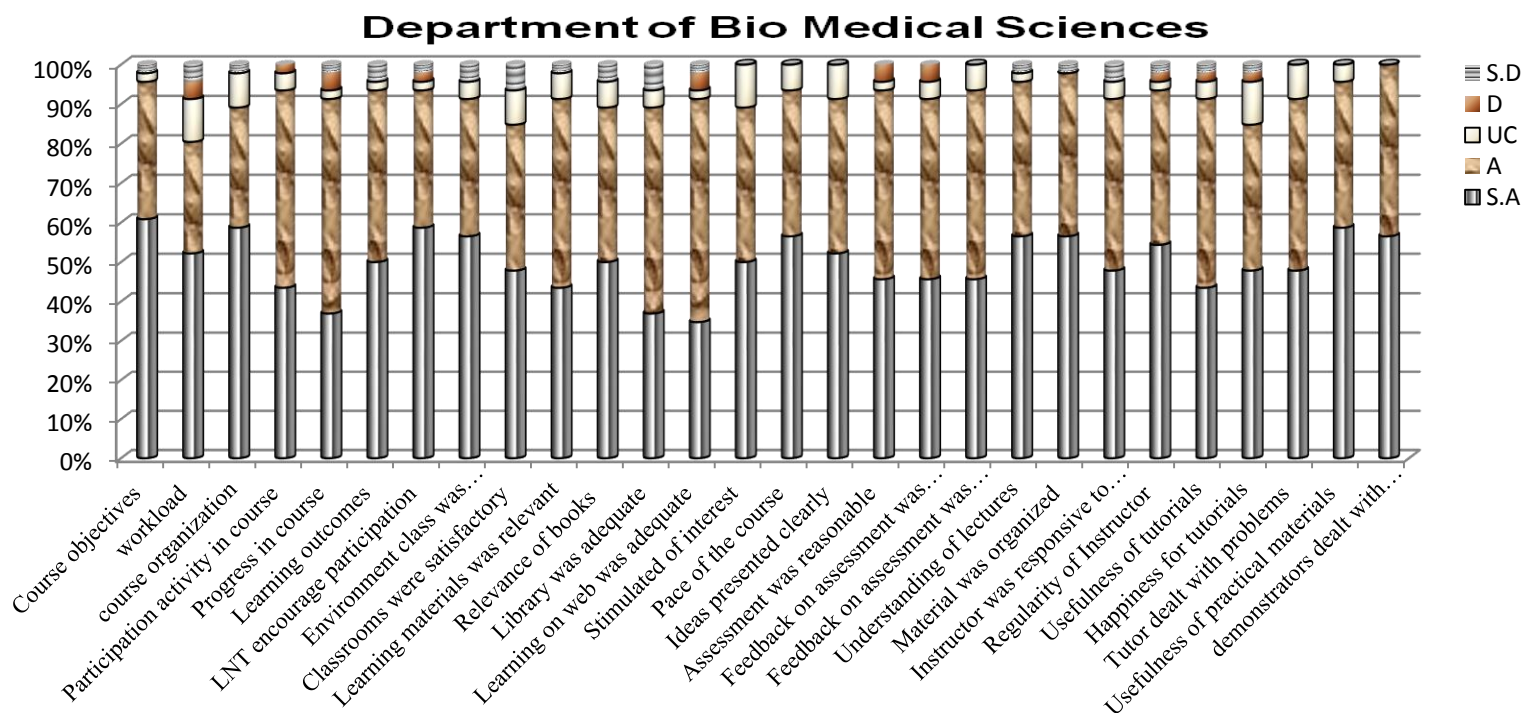
COURSE ANAT-101 (Teacher -3)

The students were satisfied that the course load was manageable and course objectives were clear (70%). Most of the students strongly agree that the course was organized and they have made progress in the course 58% and 54% respectively.



COURSE ANAT-103 (Teacher – 4)

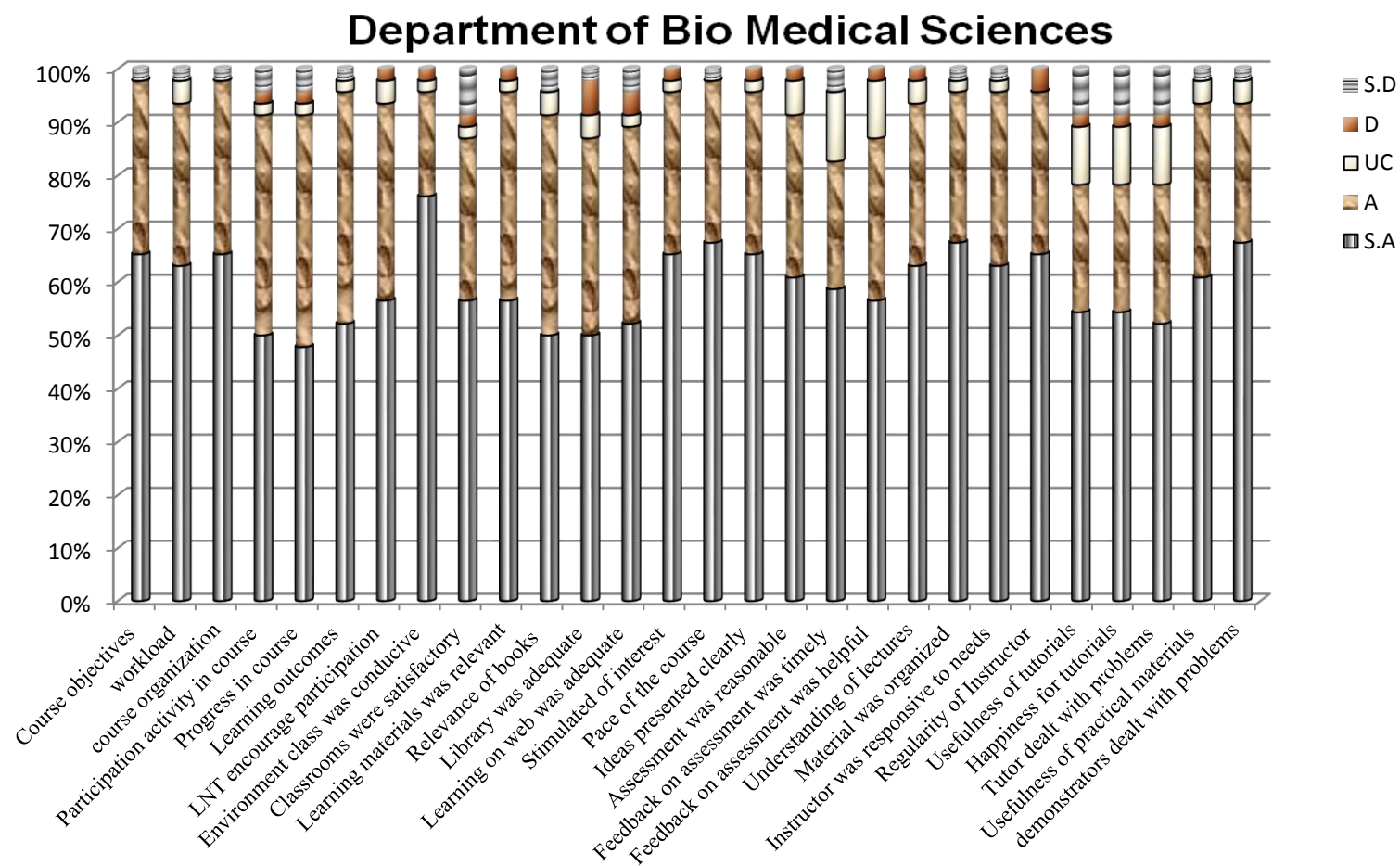
Most of the students strongly agreed with instructor's responsiveness to the needs (68%) and about 2% strongly disagreed that they have participated actively in the course. While most of the students have either strongly agreed or agreed that they have made progress in the course.



Course Evaluation

ANAT-104

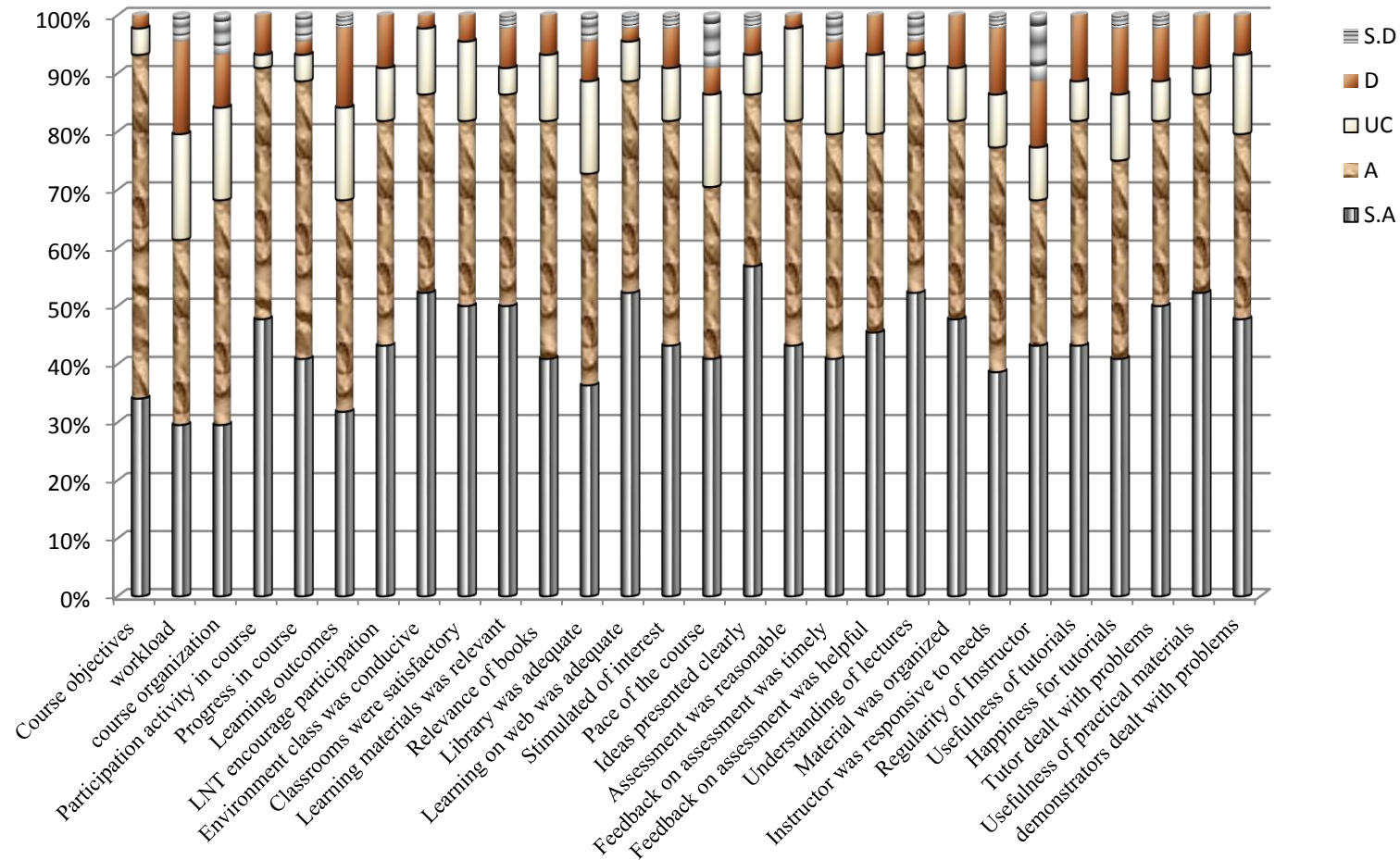
In this course 90% of students strongly agree with clearness of course objectives and 80% state that the course workload was manageable while others agree with that and 10% remained uncertain. However, overall 100% students have made progress in the course.



COURSE PHARM-201

In the course evaluation about 70% of students' state that the course objectives were clear and 70% say that the course load was manageable. More than 80% state that the class environment was conducive for study while only 1% students state that they have not made progress in the course.

Department of Bio Medical Sciences



Course Evaluation PHRAM-301

About 80% students strongly agree with clearness of course objective while others agree and only 3% disagree. More than 70% state that the ideas presented were clear awhile others agree and about 90% of students strongly agree and agreed that they have made progress in the course.

PROGRAM ASSESSMENT RESULTS

Teacher's Evaluation (spring 2013& spring 2014)

Teacher's performance was assessed through students' comments on prescribed evaluation Performa. This evaluation was done for different courses of the individual teachers filling in Performa 10 through Campus Management System.

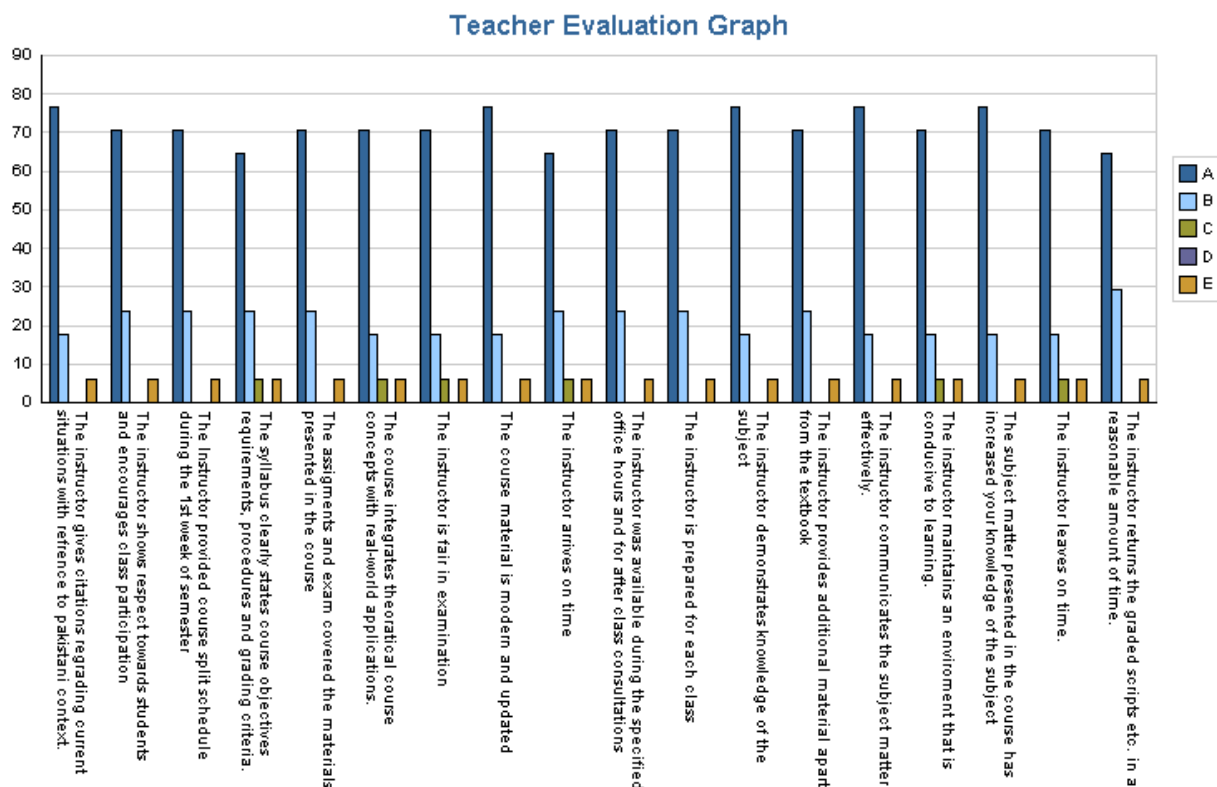
Department of Veterinary Biomedical Sciences

Spring 2013

The four teachers in the department numbered from 1-4 were evaluated during spring 2013. The names of the teachers along their allotted numbers are Dr. Mansur Abdulla (1) Dr. Riaz Hussain (2) Dr. Asif Riaz (3) Dr. Zeeshan Akbar (4). The details of evaluation are given in the preceding paragraphs.

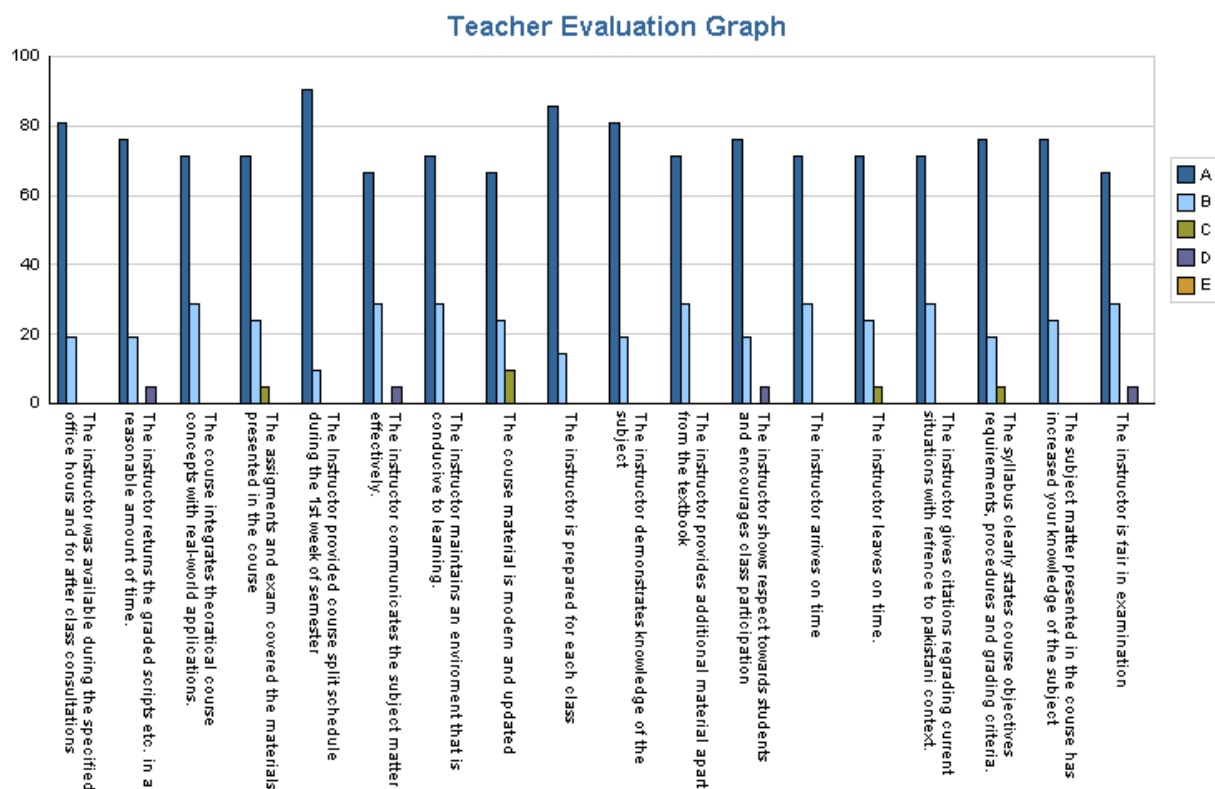
Teacher 1

Teacher evaluation by students during Spring-2013 is demonstrated in graphs given below. Most of the students (80%) agreed that the instructor was up to date, delivered his knowledge with full preparation and regular. More than 70% students agreed that the teacher demonstrated the knowledge of the subject very well and always arrive on time in the class.



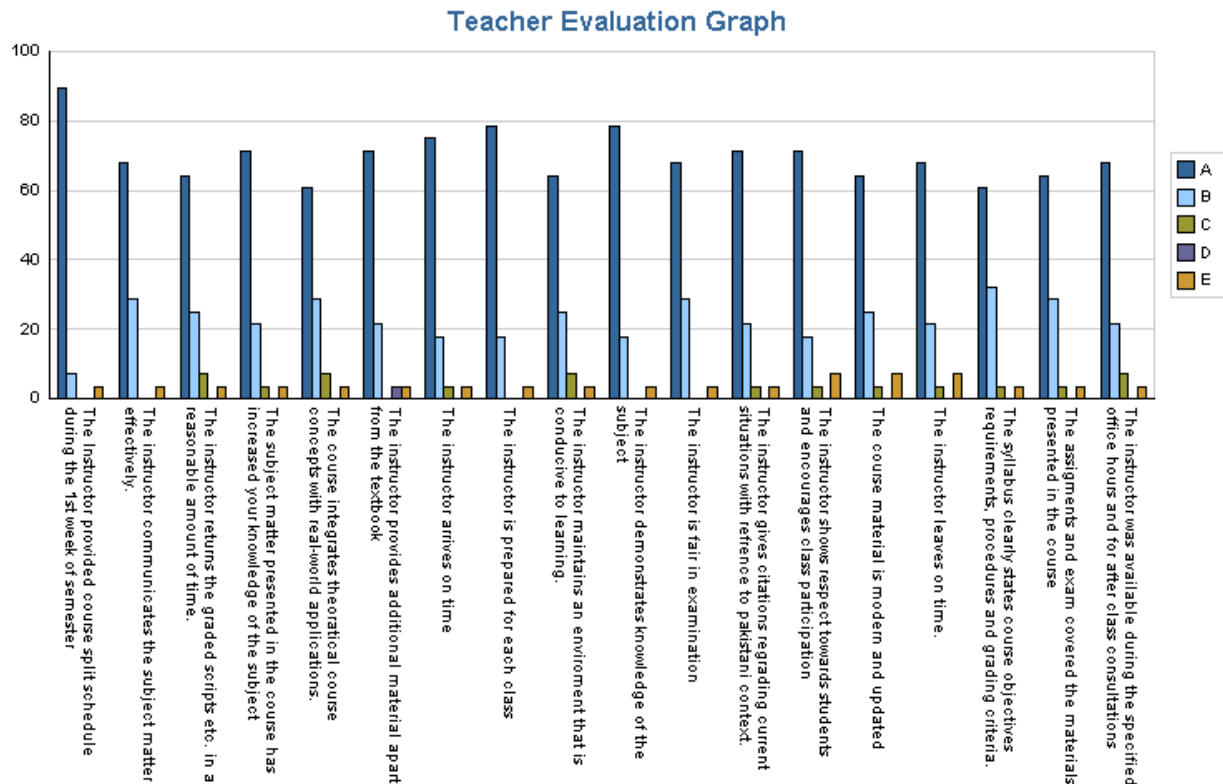
Teacher 2

It is very much obvious from the graph that more than 85% students agreed that the instructor remained punctual, up to date, well organized and friendly. He delivered adequate knowledge with provision of modern & relevant material. 80% students agreed that the teacher responded well to all queries and fair in the exams.



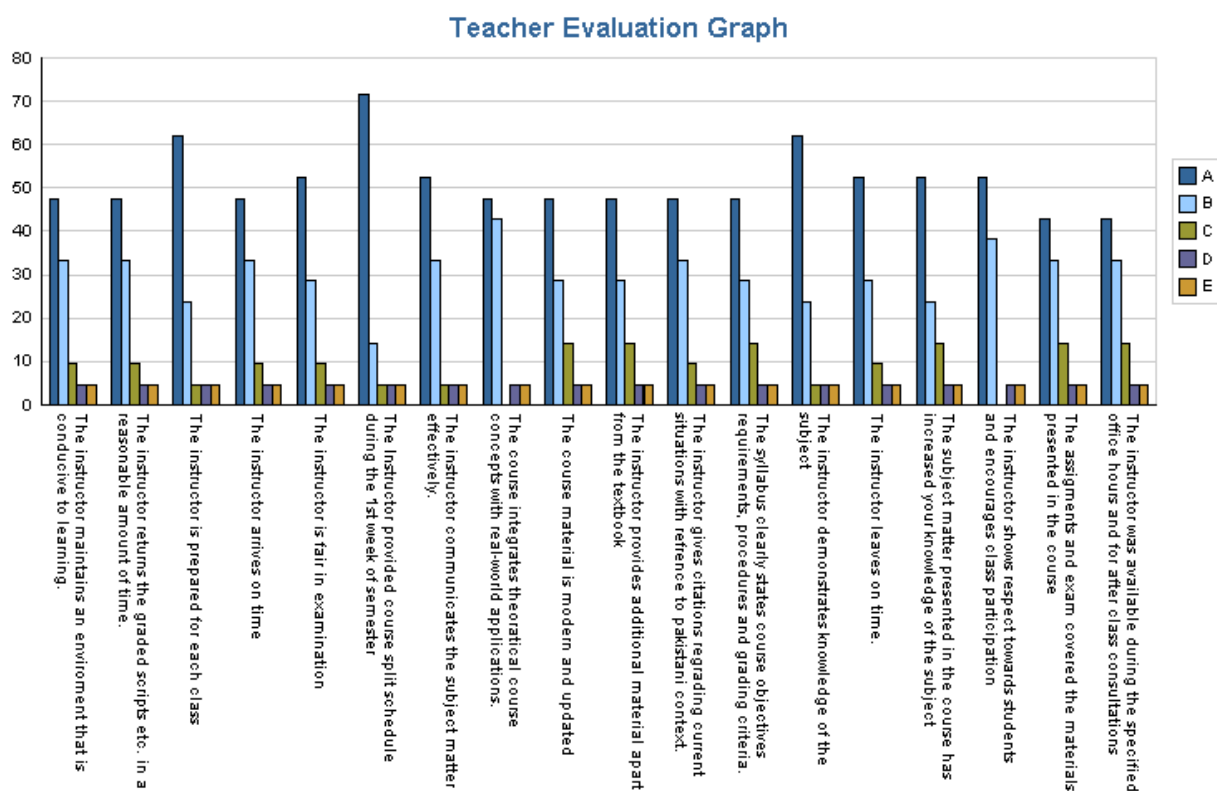
Teacher 3

Most of the students (80%) agreed that the instructor was punctual and provided conducive environment for learning. He enhanced the skill and capability of students through arranging practical oriented activities and assignments. The attitude of teacher was friendly with students. However, 4% students graded him poor and not fair in examination.



Teacher 4

The graph is depicting that 70% students agreed that the instructor delivered excellently his knowledge and enhance the skill of students through performing practical oriented activities in the class. He maintained good conducive environment for learning. The teacher remained up to date, regular and gave excellent assignments and responded very well to all the problems of students through friendly attitude.

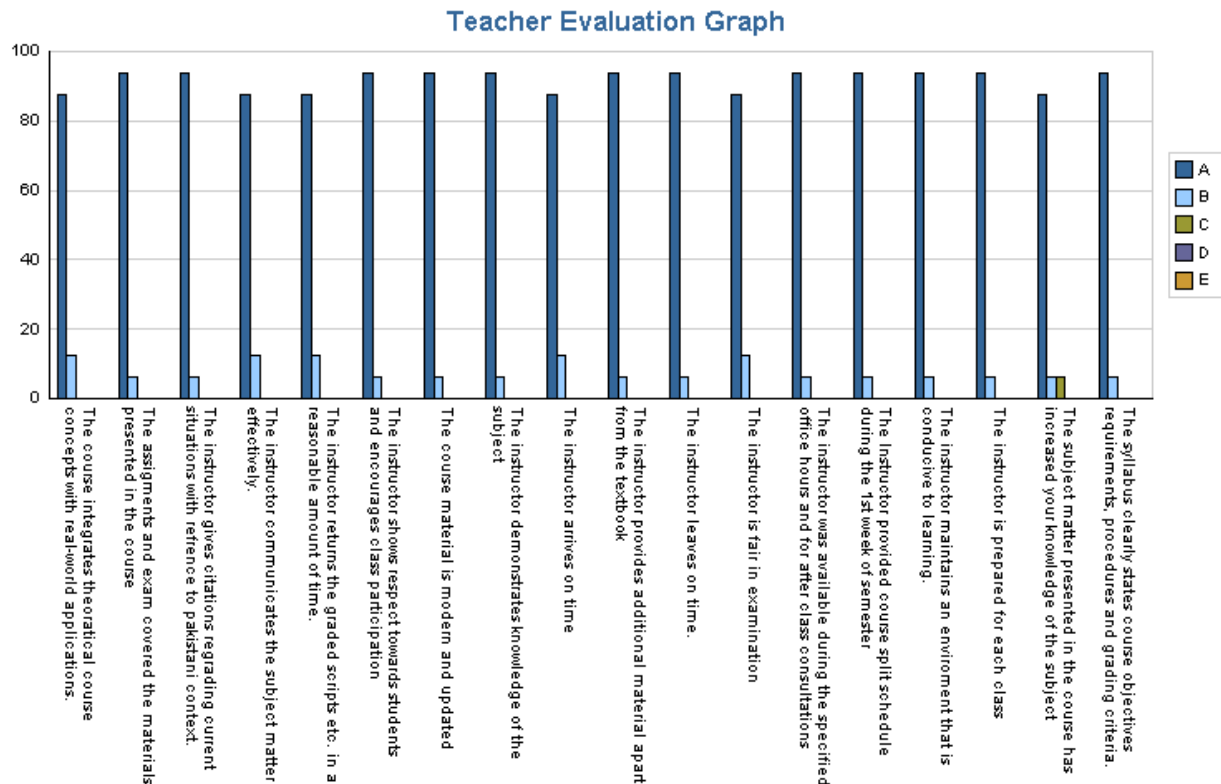


Spring 2014

The four teachers in the department numbered from 1-4 were evaluated during spring 2013. The names of the teachers along with their allotted numbers are Dr. Mansur Abdulla (1) Dr. Riaz Hussain (2), Dr. Asif Riaz (3), and Dr. Zeeshan Akbar (4). The details of evaluation are given in the preceding paragraphs.

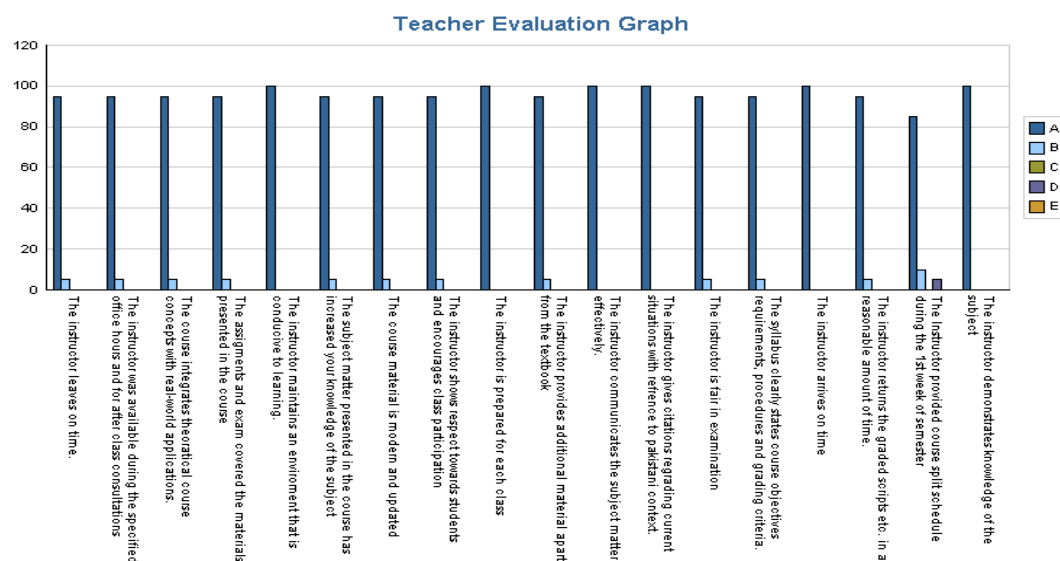
Teacher 1

Most of the students (more than 94%), agreed that the instructor arrives on time, communicates the subject matter effectively and also provides additional material apart from the text book. More than 95% of the students agreed that the teacher was available for the students even after class for consultation and the subject matter taught during the course resulted in increase the intellectual merit of the students. More than 80 % students thought that the teacher communicated subject material effectively.



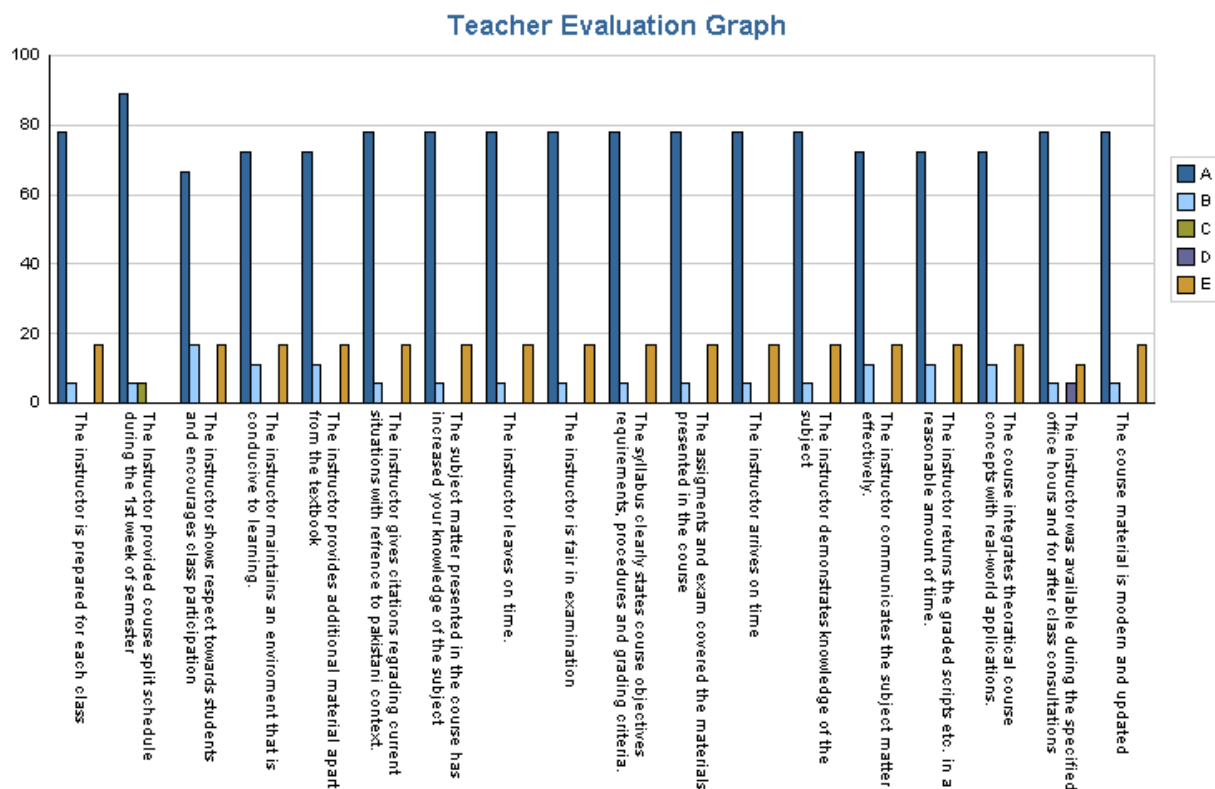
Teacher 2

Most of the students (98%) strongly agreed that the course material was modern and updated, instructor was well prepared for each class and communicated the subject matter effectively. It was further stated that the syllabus clearly stated course objectives, requirements, procedures and grading criteria. Around 90% of the students stated that instructor was fair in examination. More than 80% of the respondents agreed that the teacher arrived and left the class on time and maintained an environment that was conducive to learning for the students. Overall there were no negative comments on the teacher with a couple of neutral remarks.



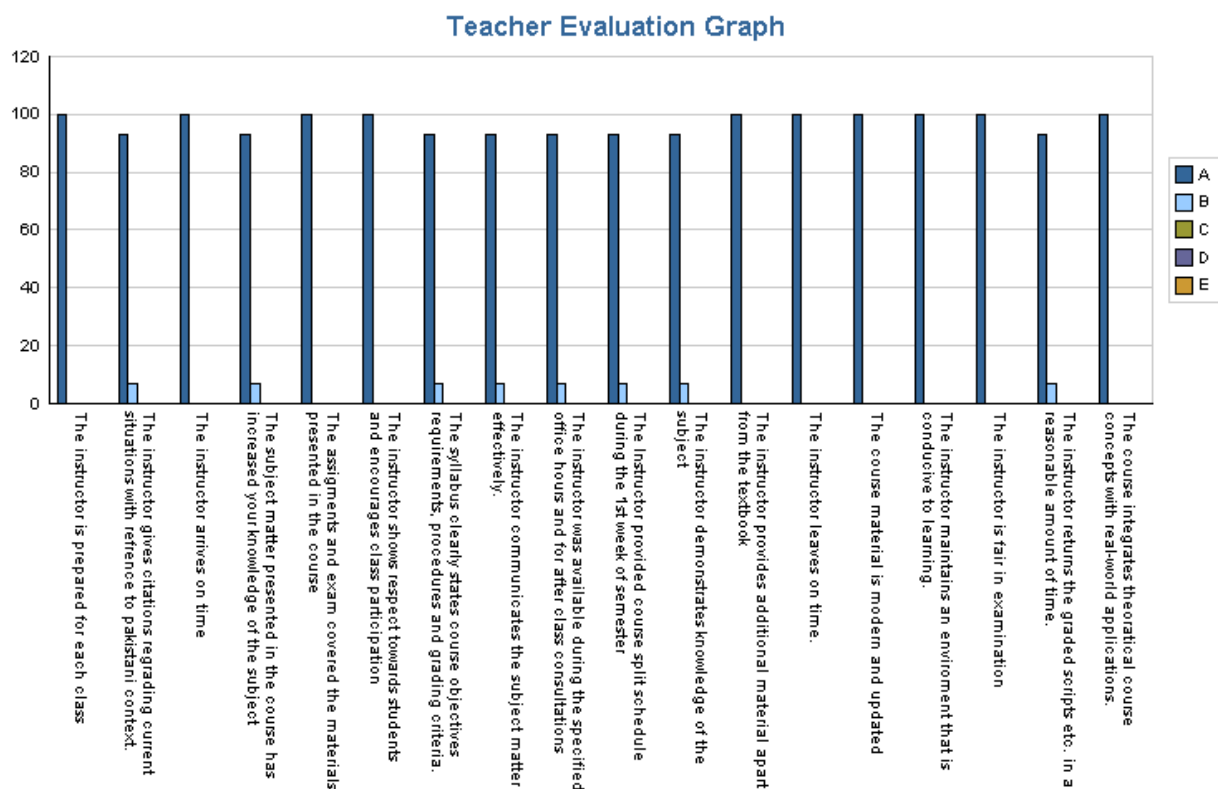
Teacher 3

More than 85% of the students agreed that the instructor demonstrates knowledge of the subject matter effectively & provides additional material apart from the text book and the teacher was prepared for each class. More than 90% of the students were satisfied with the availability of the instructor during the specified office hours and for after class consultation. The instructor communicated the subject matter effectively.



Teacher 4

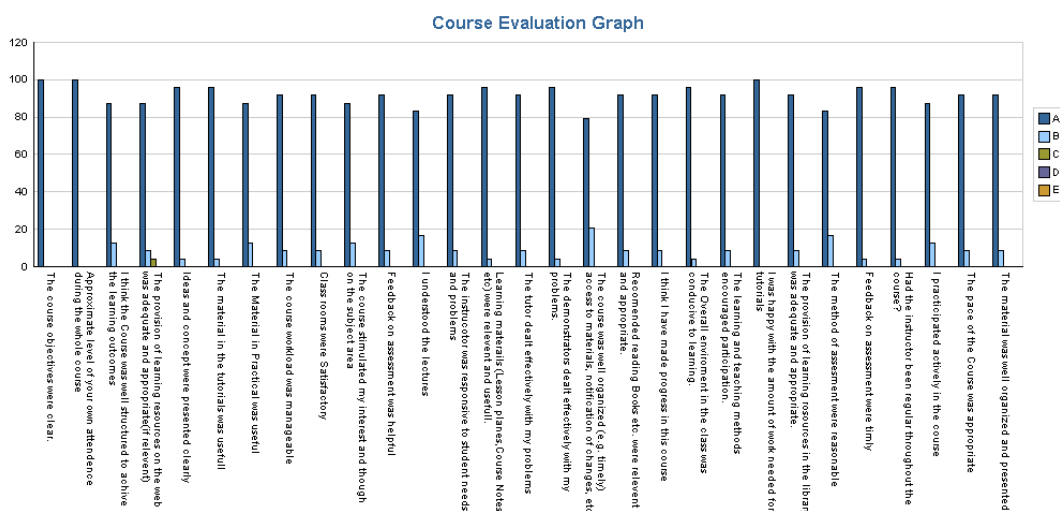
About 95 % students stated that the instructor arrive on time in the class and fair in examination. More than 90% students agreed with the punctuality of the teacher and the teacher was available for after class consultation. Overall there were no negative or even neutral comments on the teacher evaluation aspects and most students seem satisfied with the teacher's approach.



Courses Evaluation (Spring 2013)

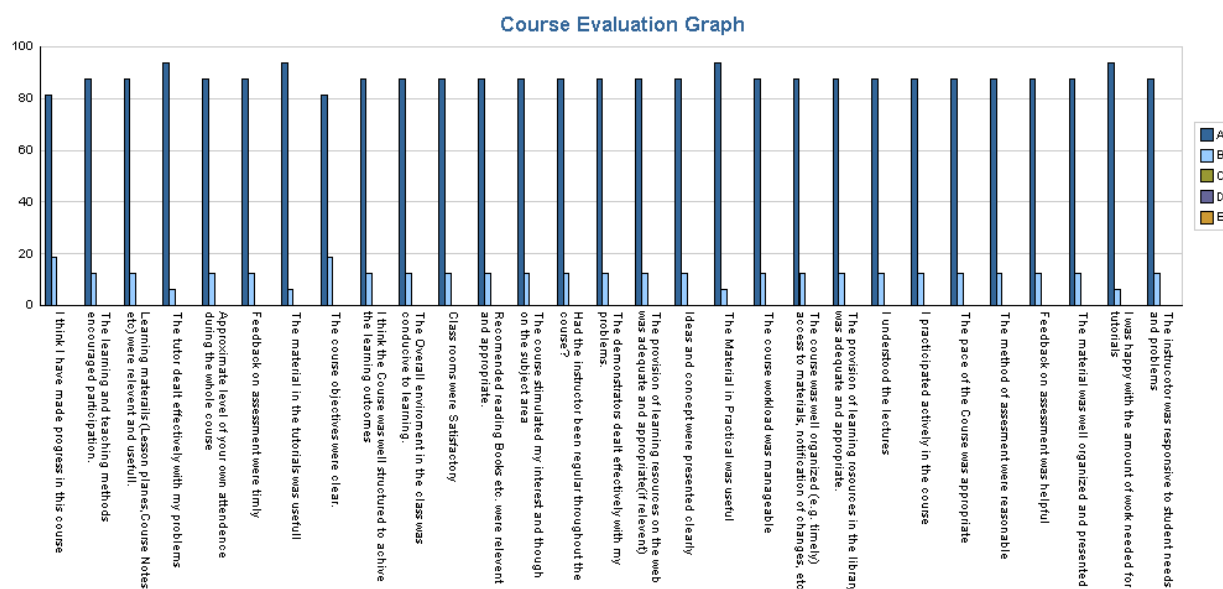
PHYS-102

Over 95% of the students agreed that the method of assessment was reasonable and course was organized and ideas and concepts were presented clearly. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes. Moreover 80% students agreed that instructor was responsive to student's problems and queries.



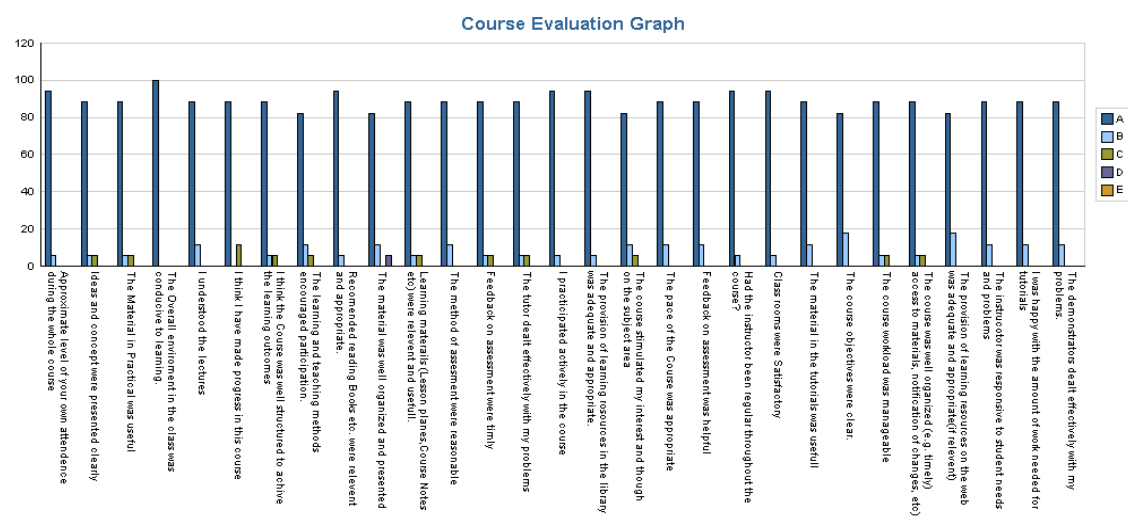
ANAT-104

More than 90% of the students agreed that the instructor dealt effectively with their problems. Over 85% student stated that course load was manageable. More than 80% of the students responded that the instructor was regular throughout the class, material in the practical was useful and course objectives were clear. More than 80% of the students responded that methods of assessments were reasonable, class rooms were satisfactory, course was well organized to achieve the learning outcomes and the course stimulated their interest and thought on the subject matter.



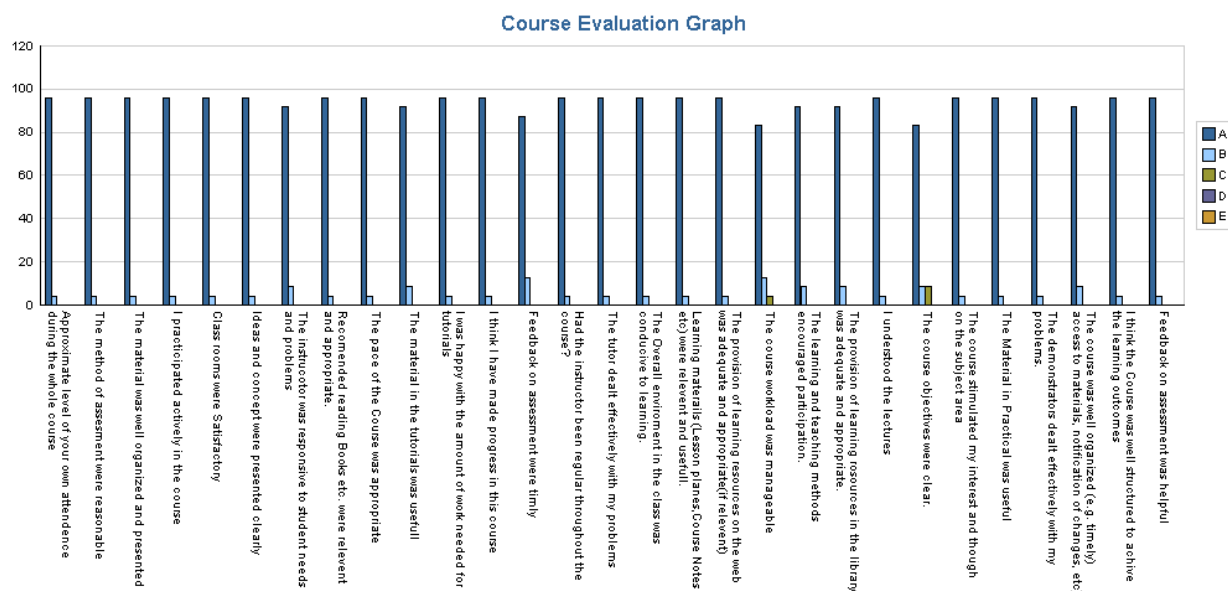
ANAT-102

More than 90% students agreed that the course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



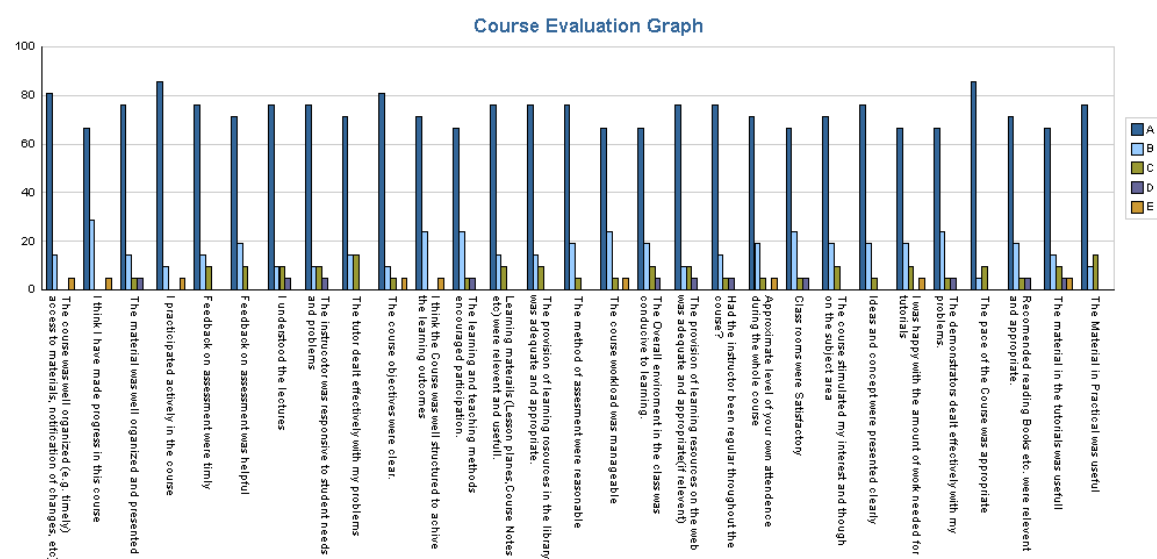
PHARM-202

Majority of the students (90%) agreed that the course was well structured to achieve the learning outcomes, learning material was relevant and useful and the instructor had been regular throughout the course. They also responded that the pace of the course was appropriate, feedbacks on the assessments were timely and helpful and ideas and concepts were presented clearly during the course delivery. Additionally, most students understood the lectures and participated actively in the course.



PHARM-302

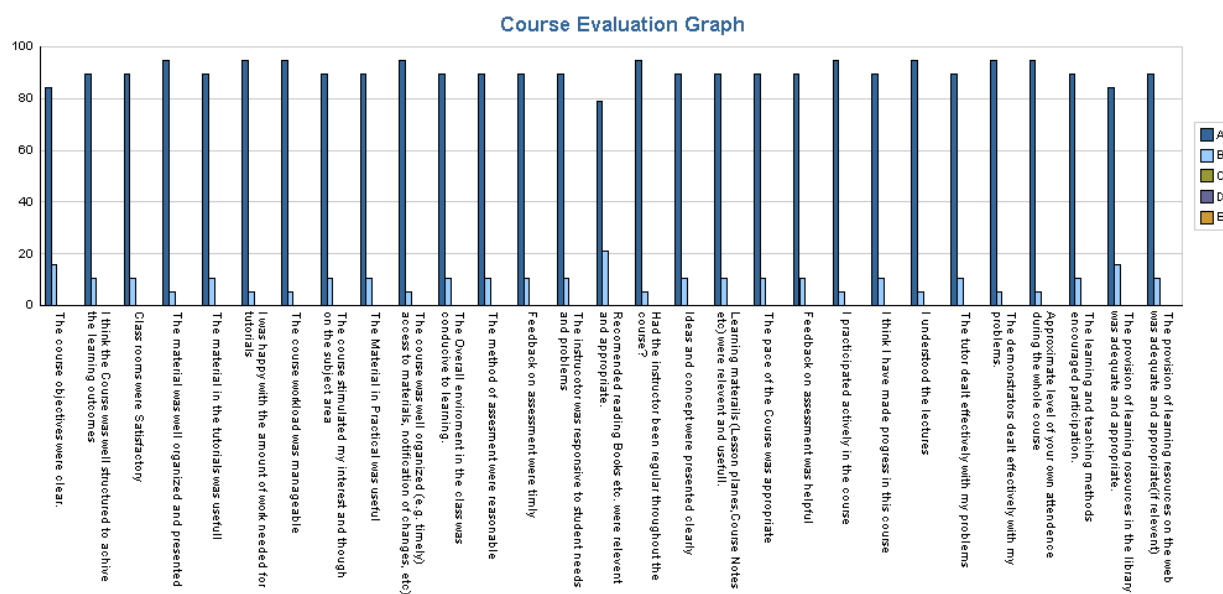
Over 80% of the students agreed that the course was organized and ideas and concepts were presented clearly. Moreover 60% students agreed that instructor was responsive to student's problems and queries and pace of the course was acceptable. 5% students questioned the learning outcomes of the course.



Courses Evaluation (Spring 2014)

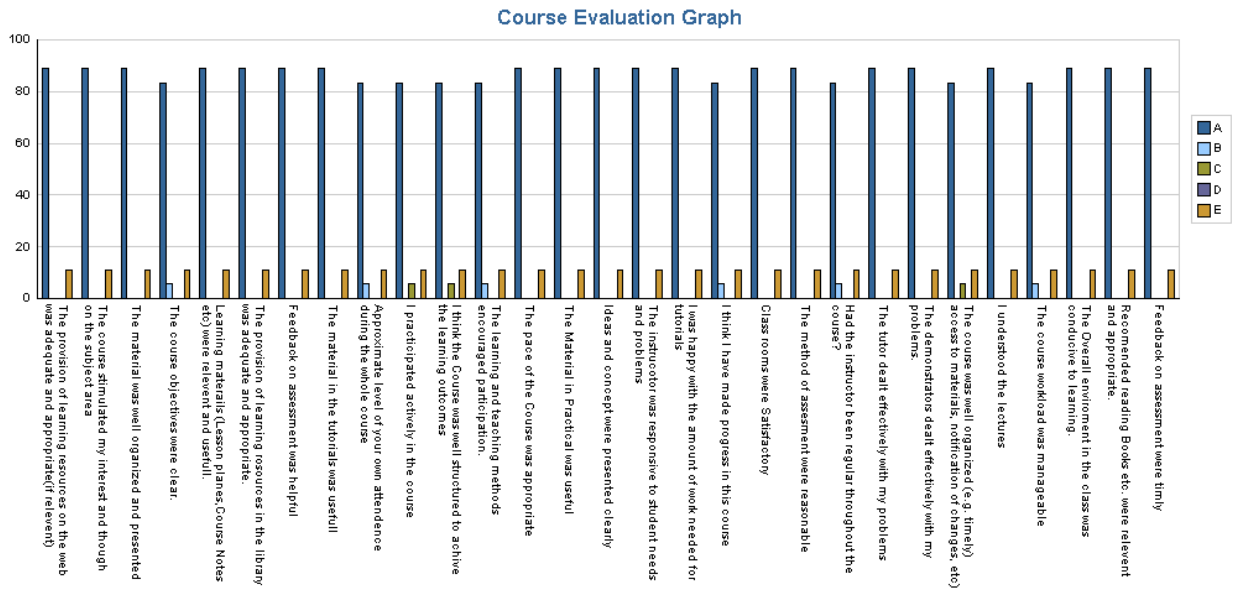
PHYS-102

More than 90% of the students agreed that they participated actively in the class, have made progress in course and course load was manageable and the course was well structured to achieve the learning outcomes. They also felt that they understood the lectures, feedback on the assessments were timely and helpful and the demonstrator dealt with their problems and needs.



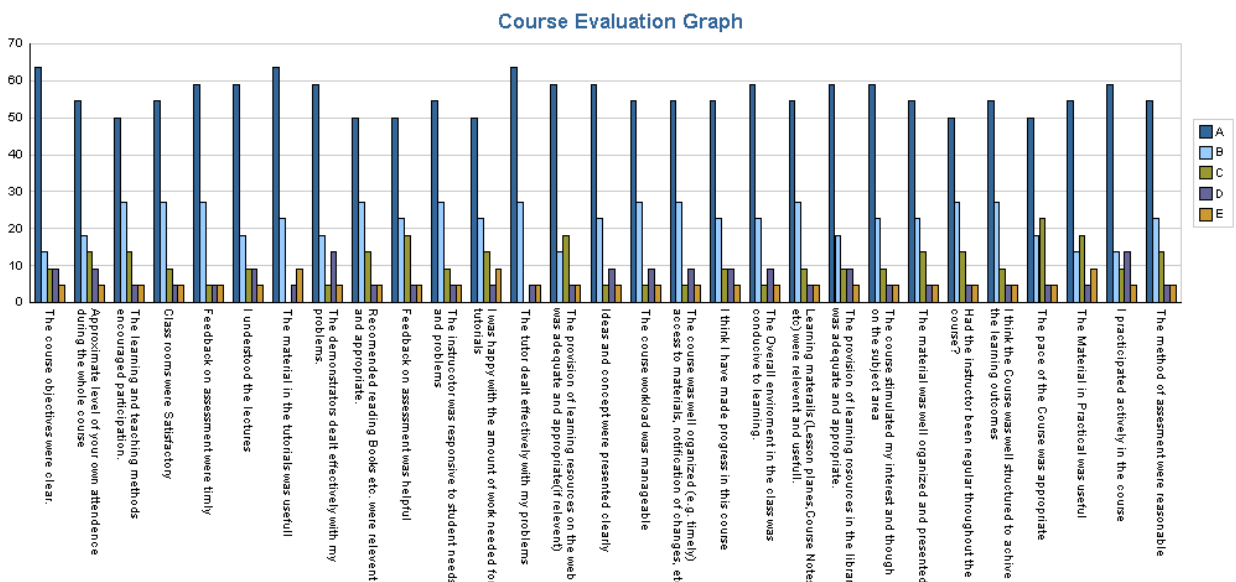
ANAT-104

More than 90% of the students agreed that the overall environment of the class was conducive to learning and the material in the practical was useful. Moreover around 90% of the students agreed that the course was well organized and the instructor was responsive to student needs and problems. More than 8% of the students feel that the feedback on the assessments was helpful and course workload was manageable.



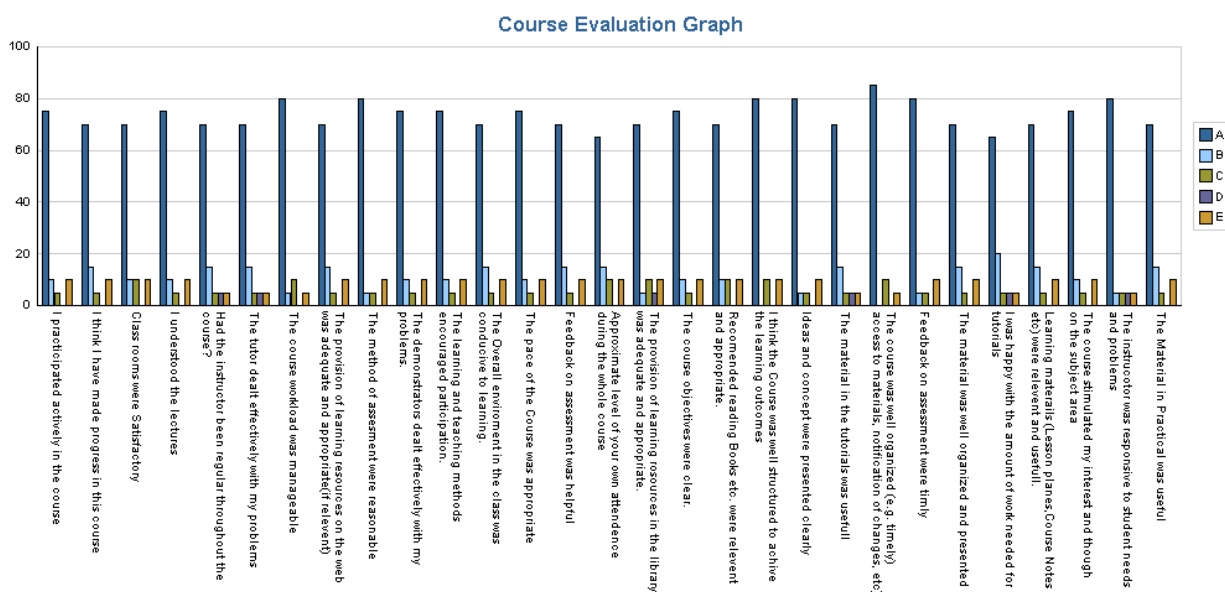
ANAT-102

More than 70% students agreed that the course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



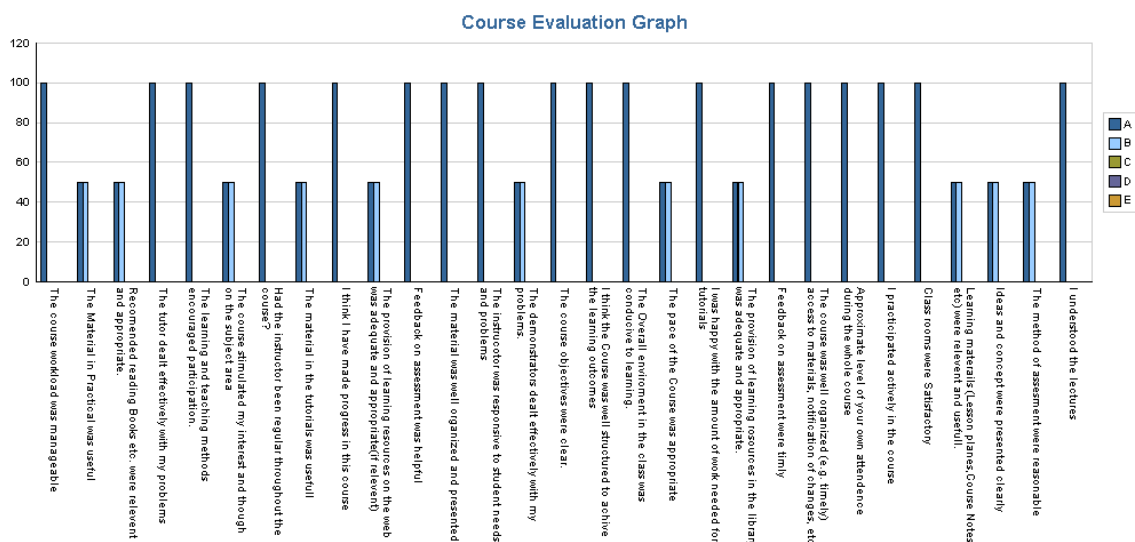
PHARM-202

Most of the students agreed (80%) that course work load was manageable and course objectives were clear, course was well organized to achieve the learning outcomes. More than 60% of the respondents felt that the pace of the course was appropriate, class rooms were satisfactory and the tutor dealt effectively with their problems. Nearly 70% of the respondents agreed that they had made progress in the course and overall attendance of the students was more than 70%.



PHARM-302

Most of the students were of the opinion that they understood the lectures, class rooms were satisfactory, participated actively in the course, the course was well organized, well structured to achieve the learning outcomes, feedback on the assessments were timely and helpful and overall environment in the class was conducive to learning.



PROGRAM ASSESSMENT RESULTS

Teacher's Evaluation (Fall-2012 & Fall 2013)

Teacher's performance was assessed through students' comments on prescribed evaluation Performa. This evaluation was done for different courses of the individual teachers filling in Performa 10 through Campus Management System.

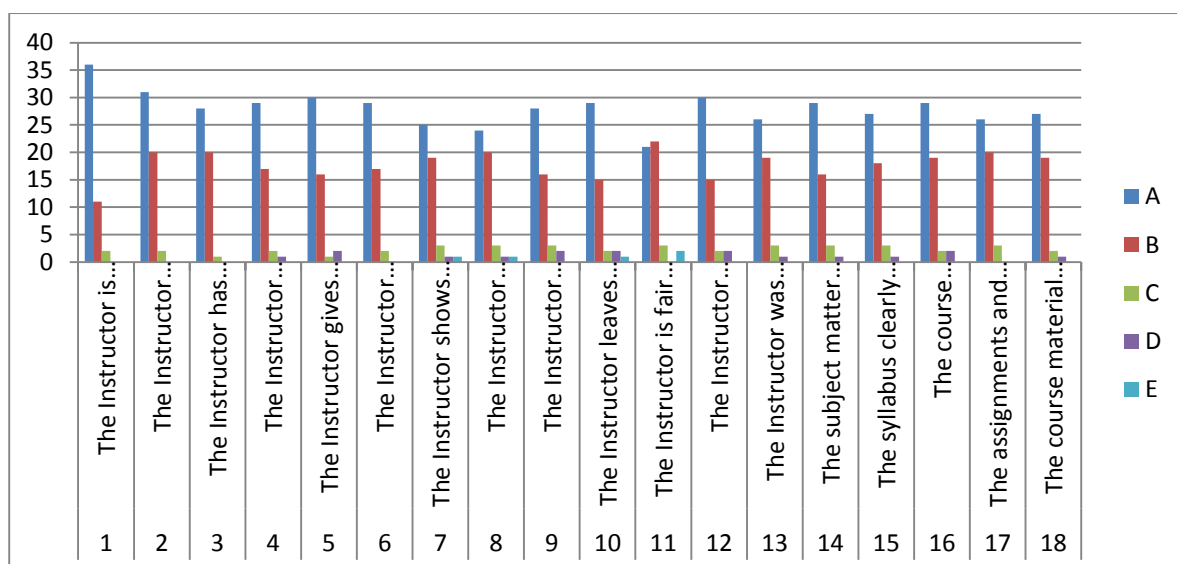
Department of Clinical Studies

Fall-2012

The four teachers in the department numbered from 1-4 were evaluated during Fall2012. The names of the teachers along their allotted numbers are Prof. Dr. Arfan Yousaf (1), Dr. Arif Zafar (2) Dr. Muhammad Yaqoob (3), Mudassar Nawaz (4). The details of evaluation are given in the preceding paragraphs.

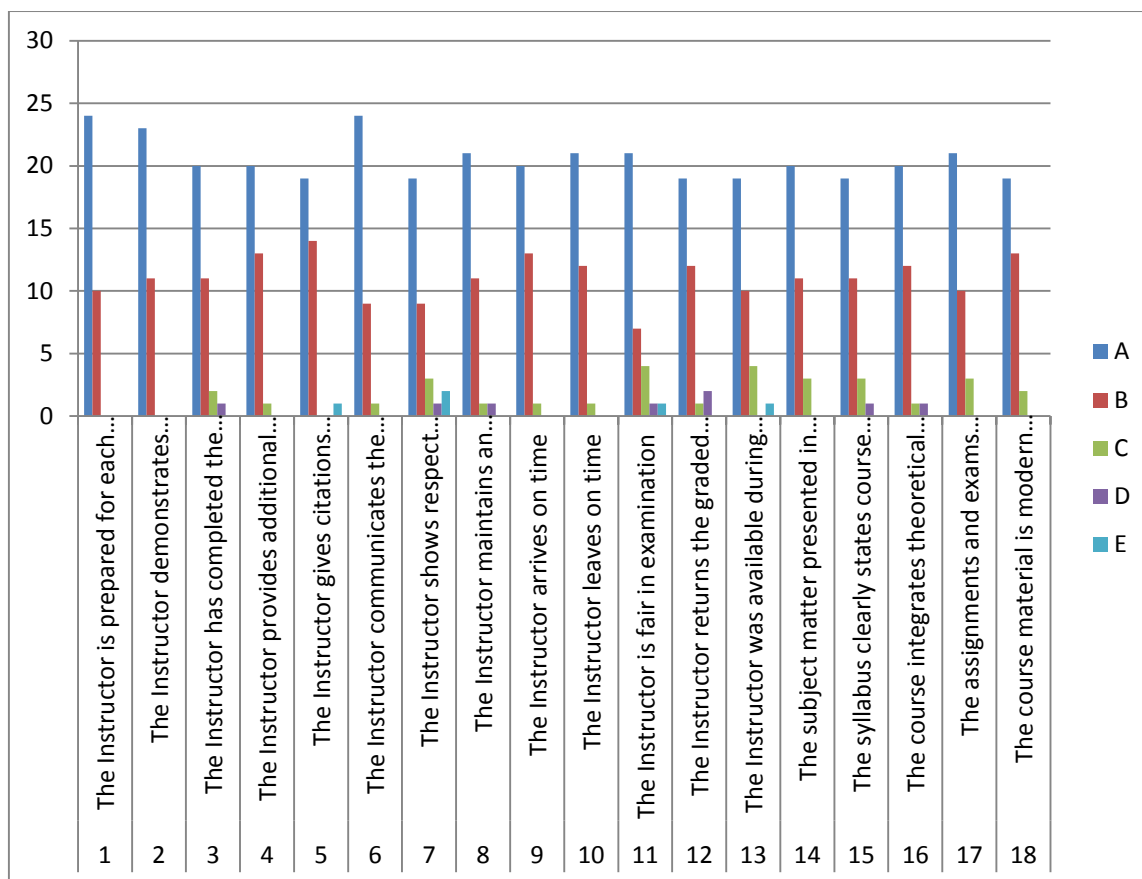
Teacher 1

The graph showed that over 90% students graded excellent, very good, good, and fair in all parameters, respectively. The overall performance of teacher was excellent. More than 75% students reported that the teacher communicates the subject matter effectively. Likewise, the class was happy that teacher encouraged student's participation. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



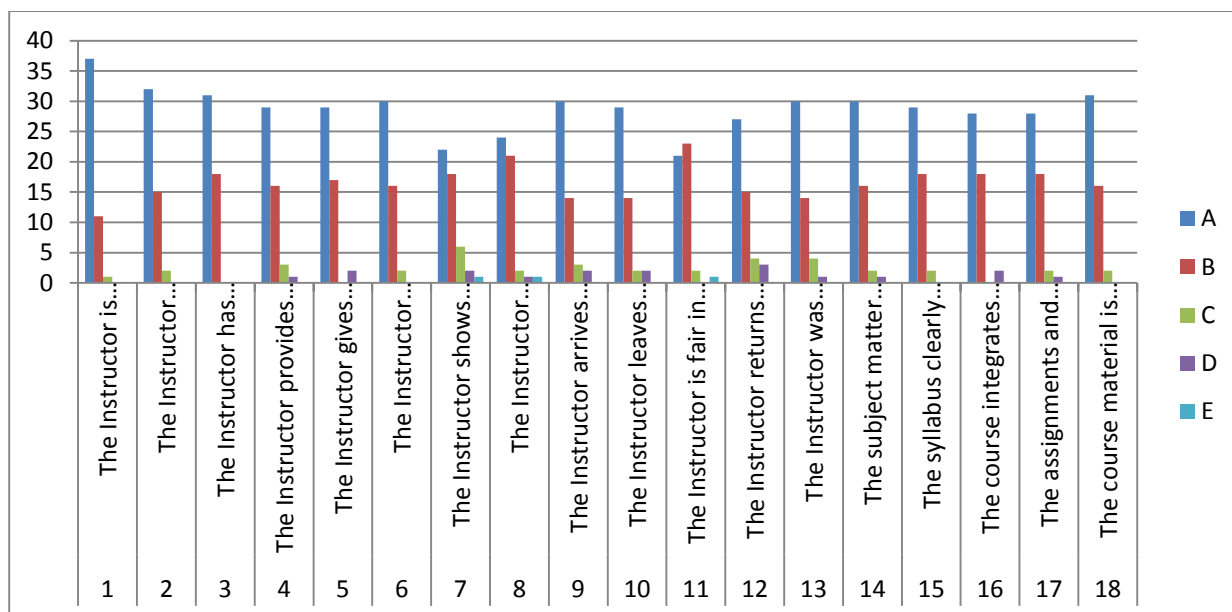
Teacher 2:

The graph showed that over 70% students graded excellent, very good, good, and fair in all parameters, respectively. The overall performance of teacher was excellent. More than 75% students reported that the teacher communicates the subject matter effectively. Likewise, the class was happy that teacher encouraged students participation. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



Teacher 3

Results indicated that 90% students graded excellent, very good, good, and fair in all parameters, respectively. Teacher communicated knowledge and organized the course through provision of relevant material and assignments. He was fair in exams and classes. He was always available during official time for student's guidance and showed friendly behaviour. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.

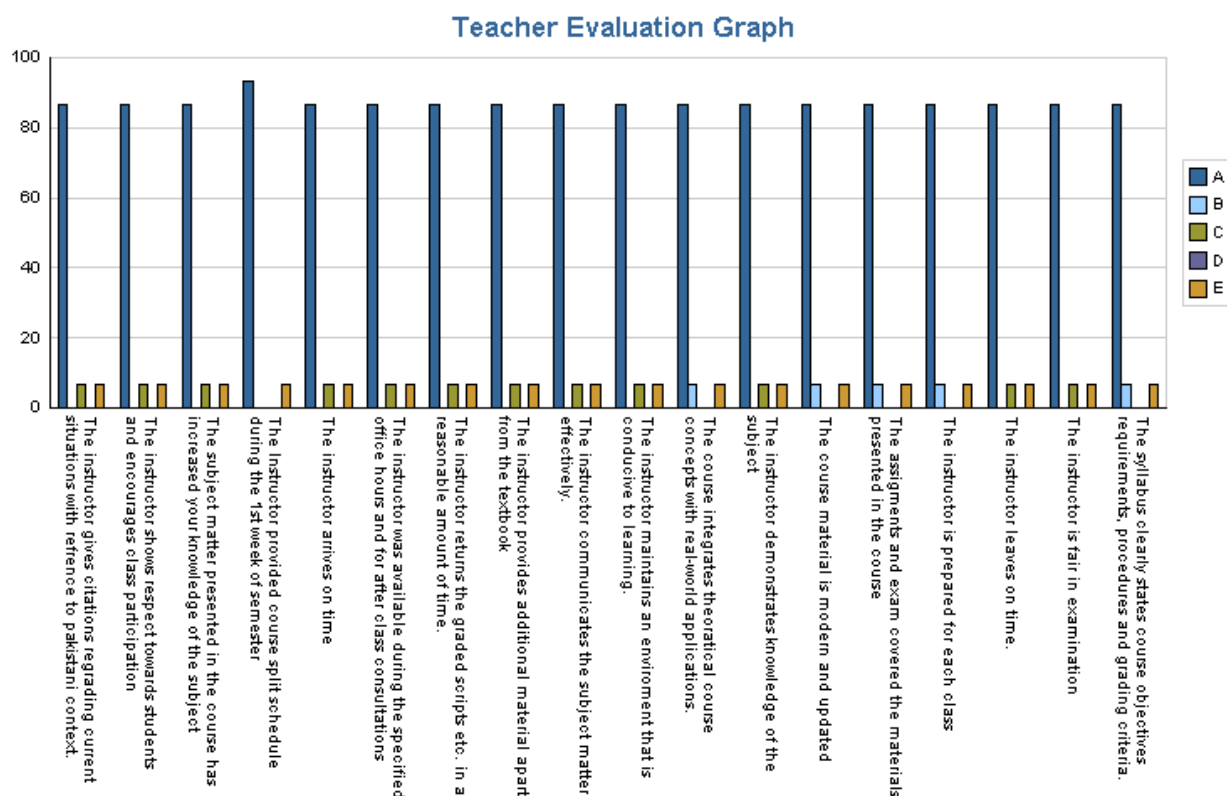


Fall 2013

The four teachers in the department numbered from 1-4 were evaluated during Fall2012. The names of the teachers along their allotted numbers are Prof. Dr. Arfan Yousaf (1), Dr. Arif Zafar (2) Dr. Muhammad Yaqoob (3), Mudassar Nawaz (4). The details of evaluation are given in the preceding paragraphs.

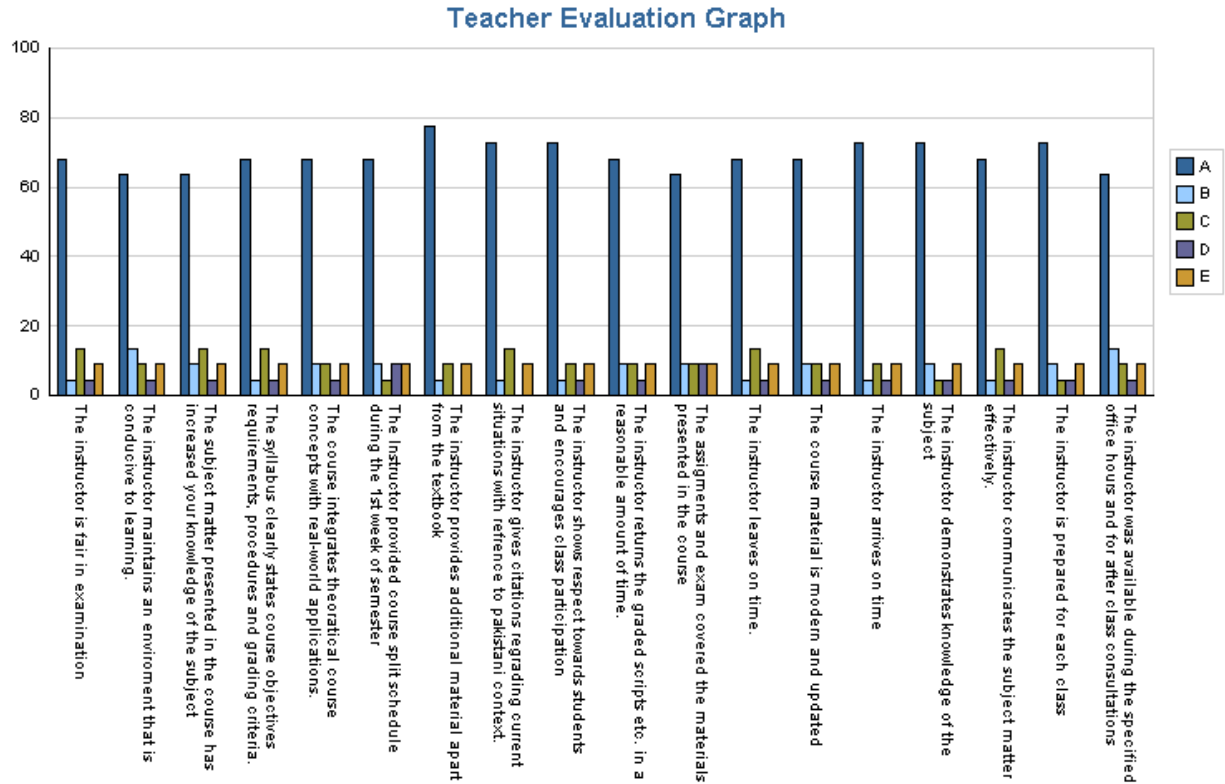
Teacher 1

The graph showed that over 80, 5-10, ≥ 10 , $\sim 10\%$ students graded excellent, very good, good, fair, and poor in all parameters, respectively. The teacher evaluation graph showed that 85% of the class was satisfied with the performance of teacher. He was regular and delivered good presentations. His knowledge and concepts about the subject were up to the mark. The course material given by teacher was relevant and satisfactory. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



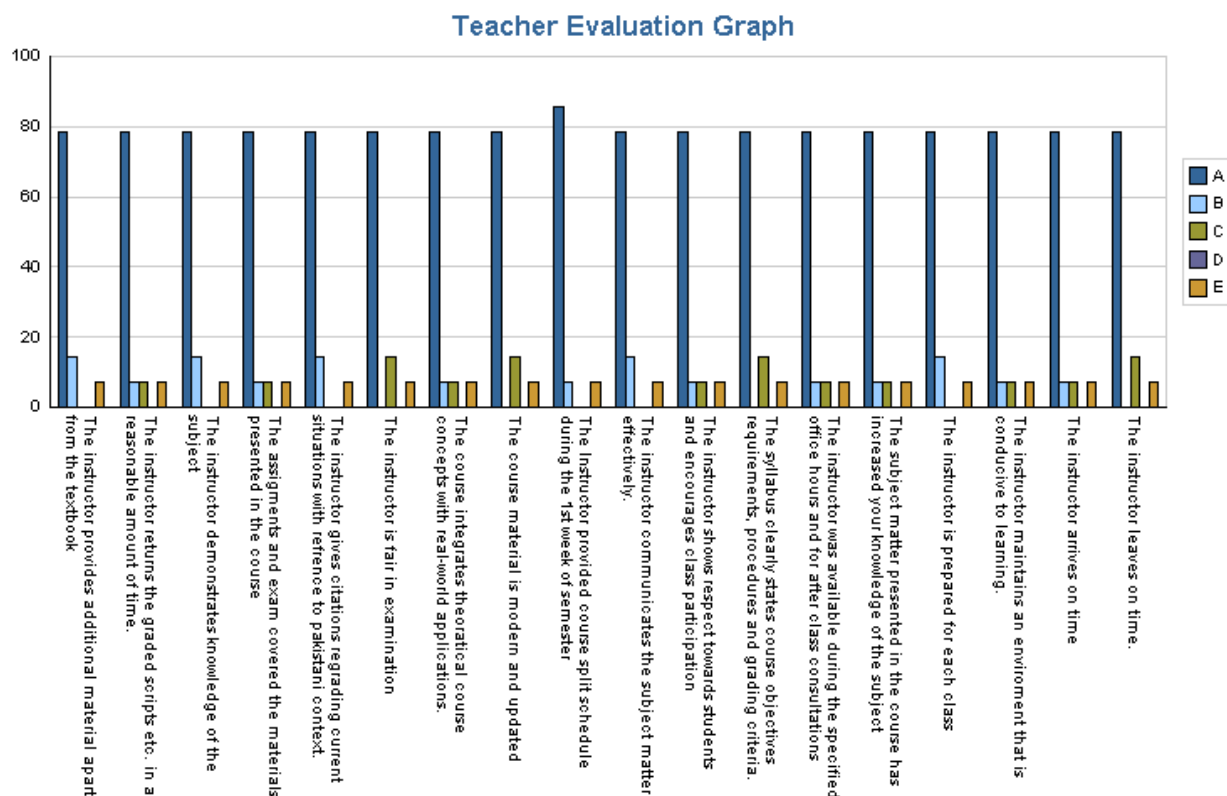
Teacher 2:

The graph showed that over 70, 5-10, ≥ 10 , $\sim 10\%$ students graded excellent, very good, good, fair, and poor in all parameters, respectively. The teacher evaluation graph showed that 70% of the class was satisfied with the performance of teacher. He was regular and delivered good presentations. His knowledge and concepts about the subject were up to the mark. The course material given by teacher was relevant and satisfactory. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



Teacher 3

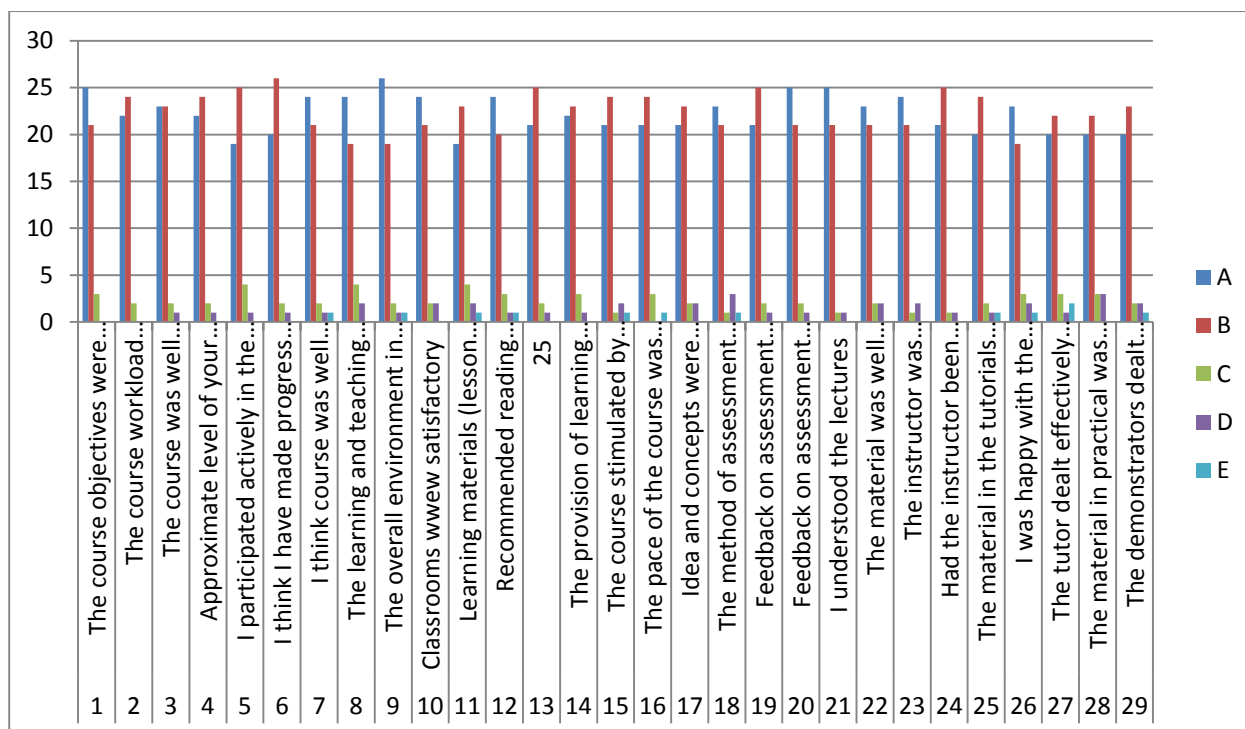
It is shown in the graph that 78% of students in the class appreciated the efforts made by teacher for enhancing the knowledge and skills of class participants. Teacher delivered positively and satisfied students in their queries and tackled all problems of students raised during the course. The practical work was addressed by the teacher. Few students complained that the instructor did not provide split schedule for classes



Courses Evaluation (Fall 2012)

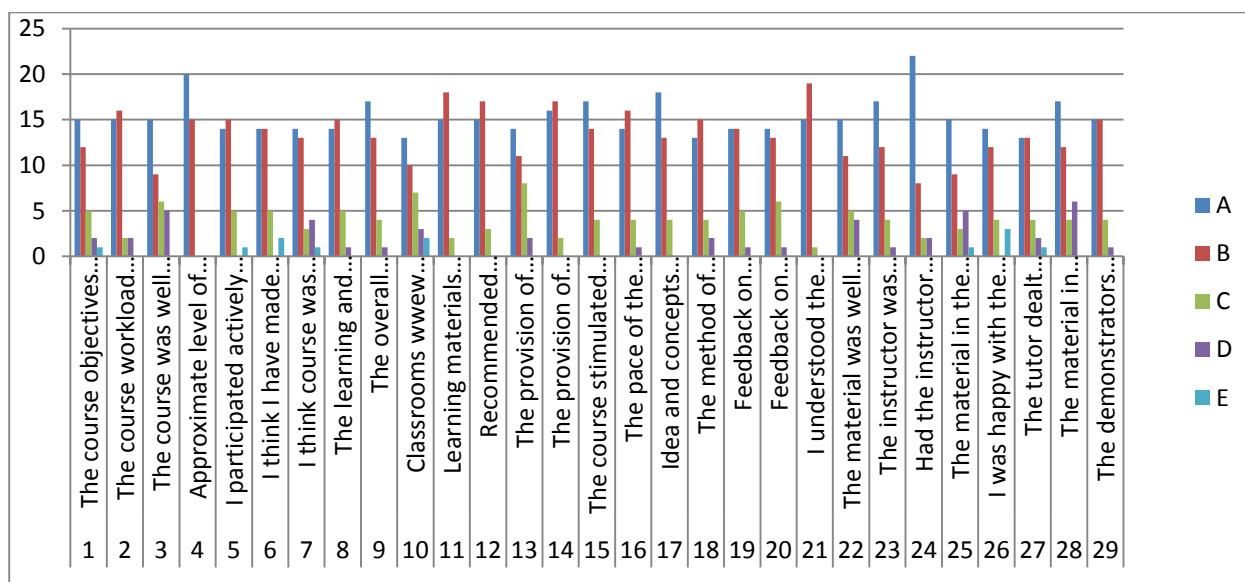
Course SURG-403

Results regarding course evaluations are mentioned in the graph given below. The graph showed that 70% of the students strongly agreed with clearness of course objectives and students stated that the course workload was manageable and overall 80% students have made progress in the course. Likewise, over 80% students agreed that the course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear were claimed by more than 80% of students. Moreover a high percentage agreed that the learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



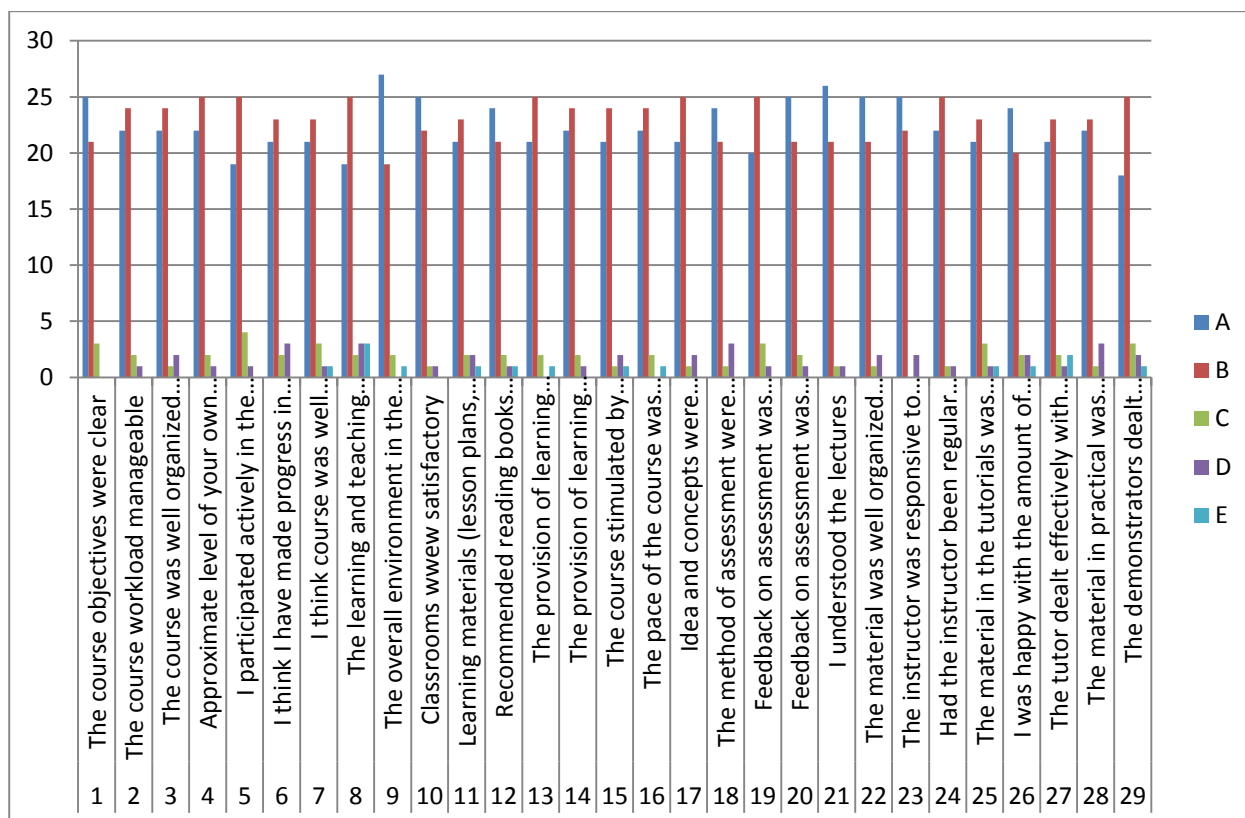
SURG-501

The graph provided below shows the progress during the course. The course evaluation graph showed that the course material was adequate and present in excellent manner. The course was well organized by the teacher who was regular in classes. The 70% students reported that student participation in the course was encouraged. All students appreciated organization of the course. Maximum students participated actively in the course. Ideas and concepts were clearly presented.



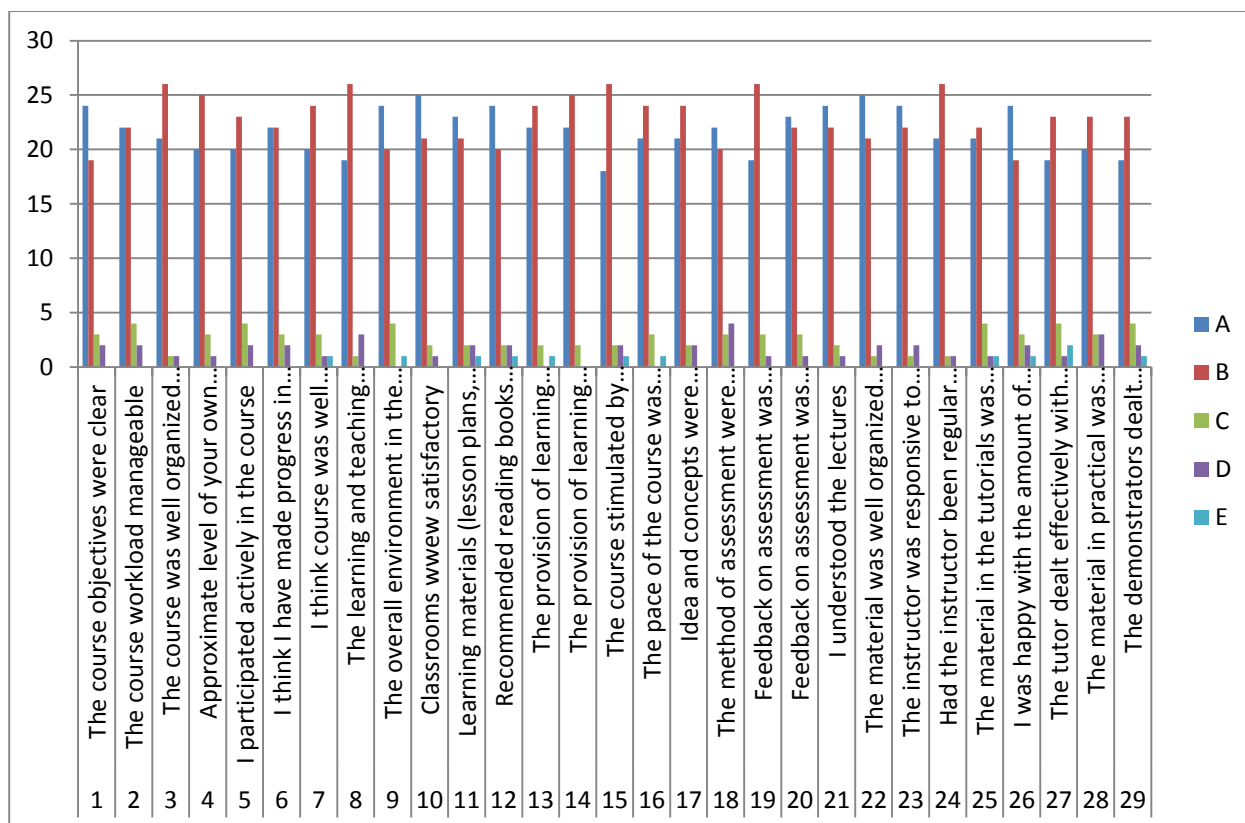
MED-403

The said course was offered during fall 2013. The stats about course evaluation are provided below in the graph. The course was well organized and presented by the teacher in such a way that students availed opportunities to learn and comprehend. The workload was well managed and executed in time. Recommended books were relevant for enhancing knowledge. The feedback on assessment was timely in opinion of majority of students. The pace of the course was appropriate. 90% students stated that the objectives of the course were clear. 80% students stated that the course stimulated their thought and interest in the subject. 5% students criticized the environment in the class. Additional 5% students questioned the objectives of the course.



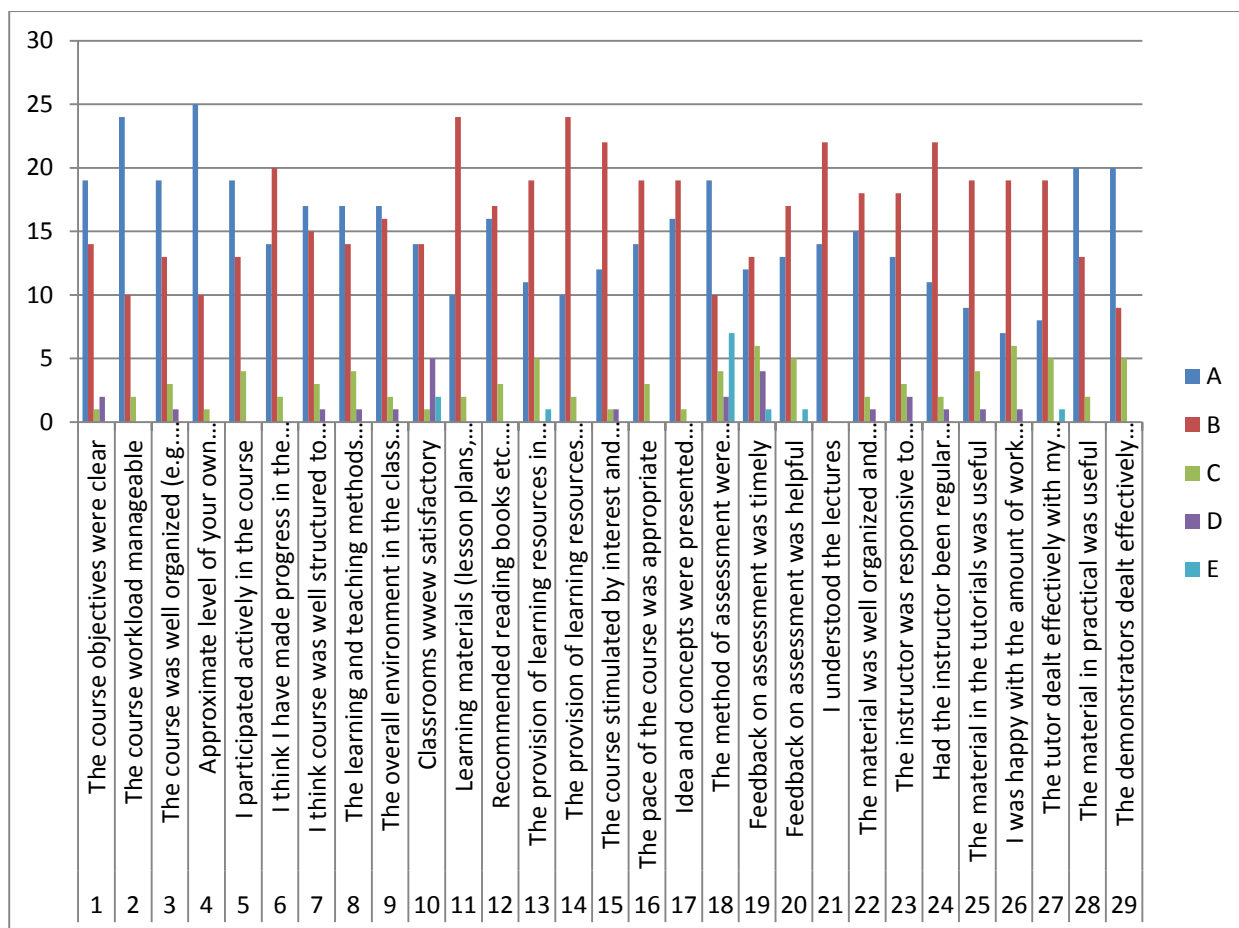
MED-401

The course evaluation graph depicted that 80% of students enrolled were agreed with the course aim and objectives. The learning material was very good for this introductory course. It was well organized and delivered as per required. The method of assessment and instruction was also very good enough. Students participated well and their problems were solved. The course was very helpful for students in enhancing their basic knowledge about livestock. The course stimulated their thought and interest in the relevant field.



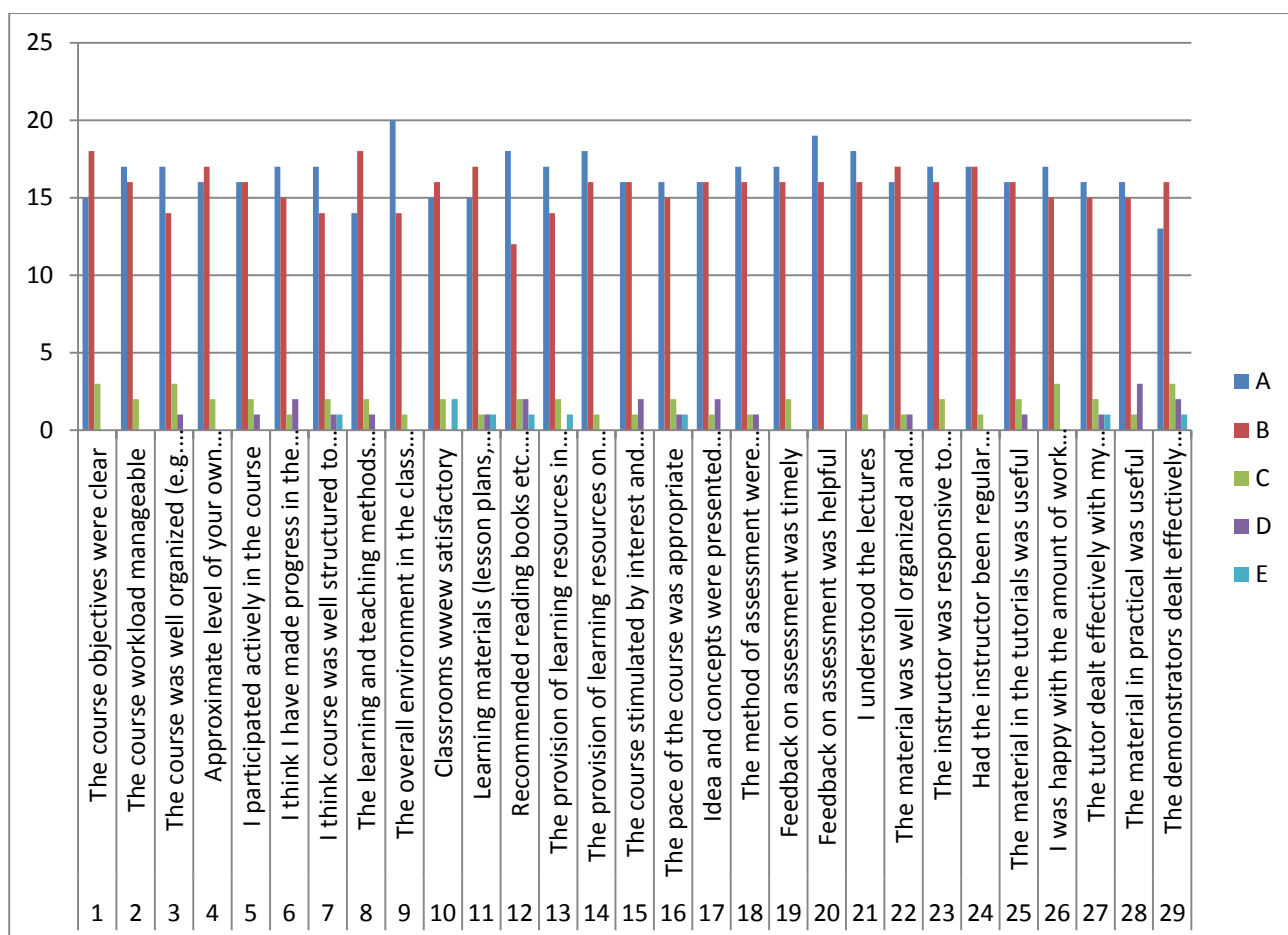
MED-503

Graph provided below shows the course evaluation. Sixty percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About sixty percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning.



MED-505

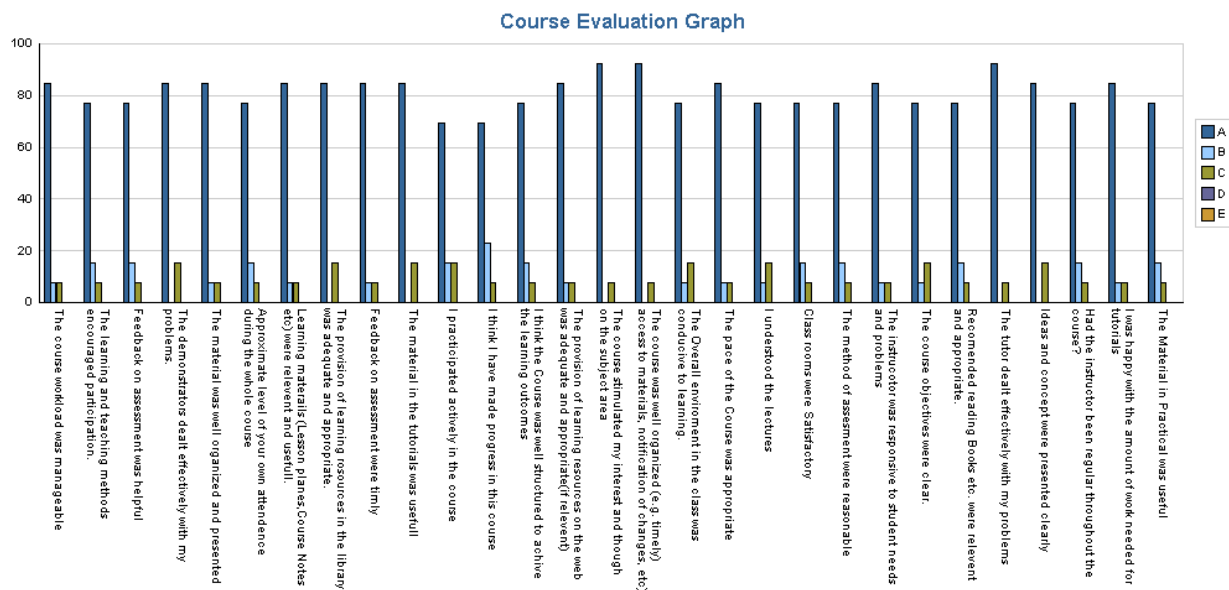
Graph provided below shows the course evaluation. Sixty percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About sixty percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning and the helping material.



Courses Evaluation (Fall 2013)

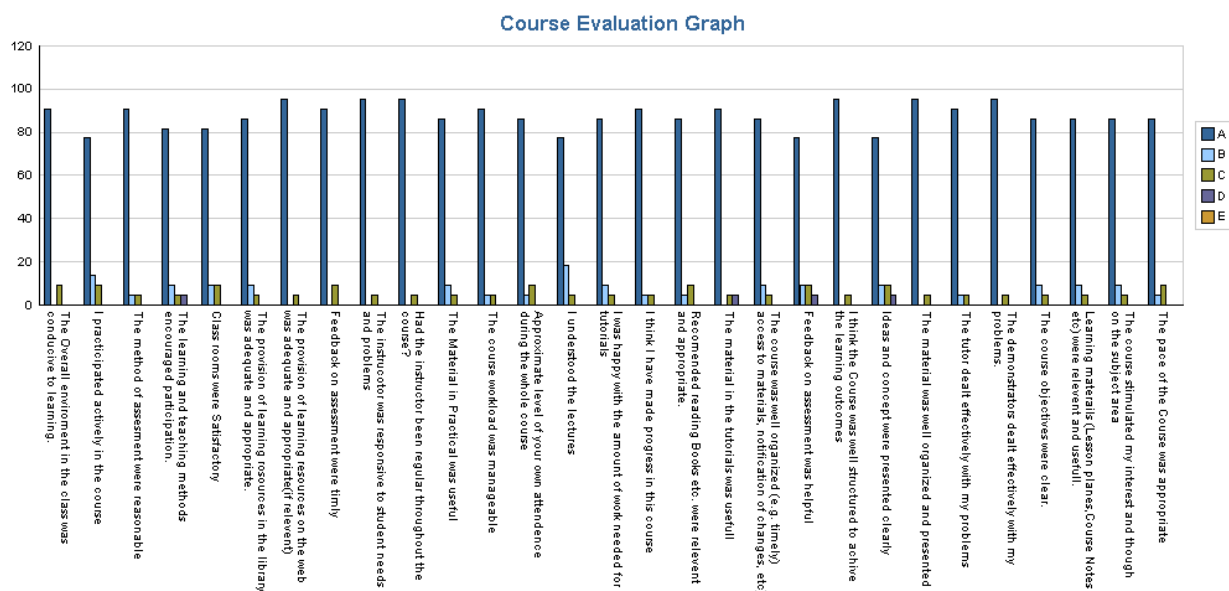
Course No. SURG-403

The results are indicated below in graph. The overall course evaluation indicated excellent course delivery. A major portion of the students (80%) strongly agreed that course was well organized, method of assessment was reasonable and teacher encouraged student's participation. Majority of students stated that the ideas and concepts were presented clearly. About 95 % students agreed with the availability of the recommended books and helping material. The work load was manageable in opinion of 80% students. About 15 % students criticized that the materials in practical was not useful. Additional 10% students said materials in tutorial was not useful.



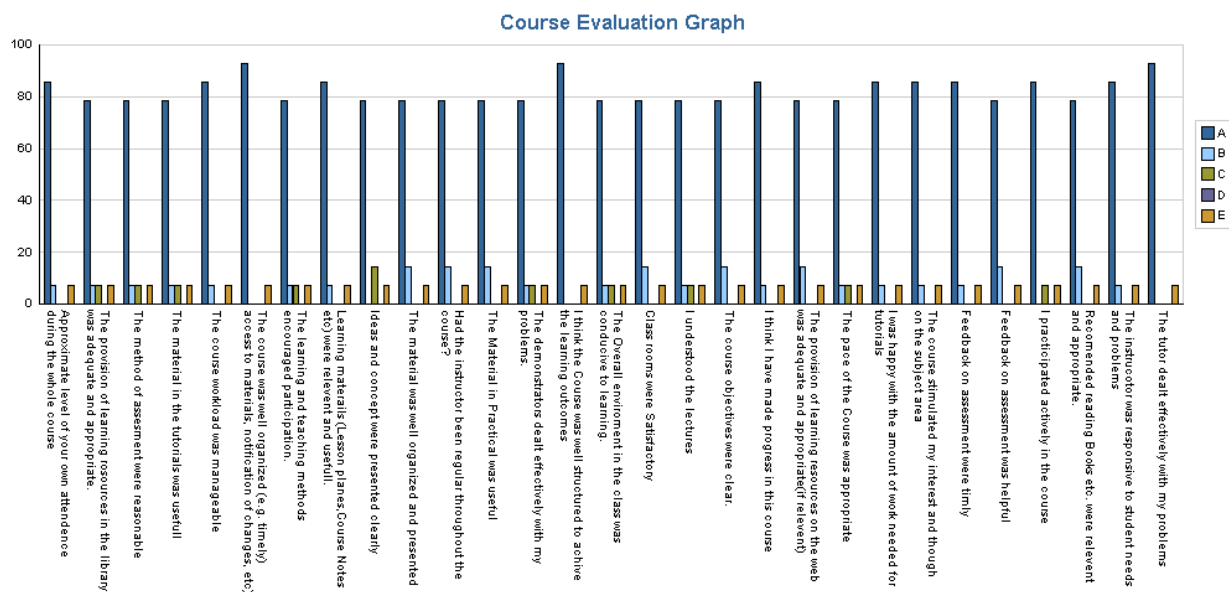
SURG-501

Graph provided below shows the course evaluation. Seventy percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About eight percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning. Few students questioned the relevancy of the helping material. Additional 10 % students criticized the workload of the course.



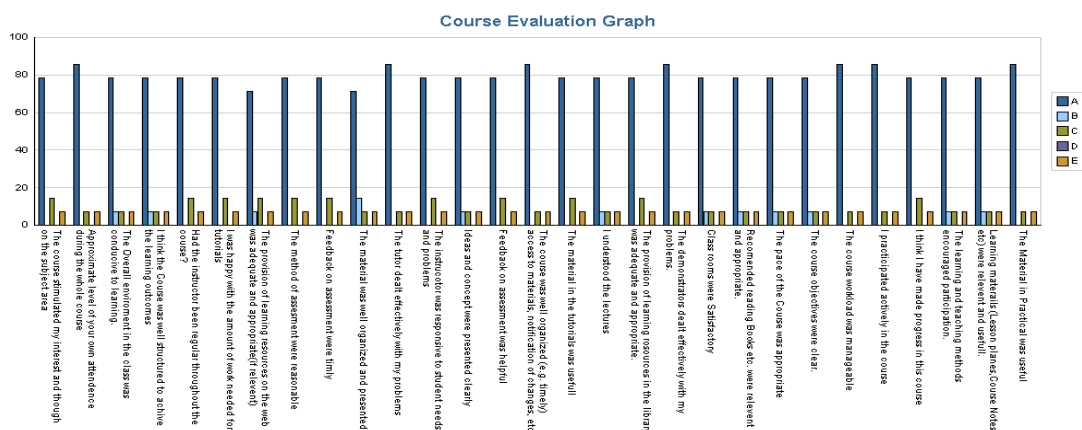
Course No. MED 403

The objectives of course were concise and clear. The students enrolled learnt a lot through effective teaching and presentation. The assessment of students was also up to the mark. Students stated that the course stimulated their interest in the subject. Majority of students stated the materials provided on web were relevant and useful. Other relevant material was provided by the instructor which was very helpful for students in learning. The instructor responded well to all students who demand any guidance. Feedback assessment was timely in opinion of 95 % student. 85% students stated that they have made progress in the course. 10 % showed students objection workload of the course. Additional 5% students raised objection the pace of the course.



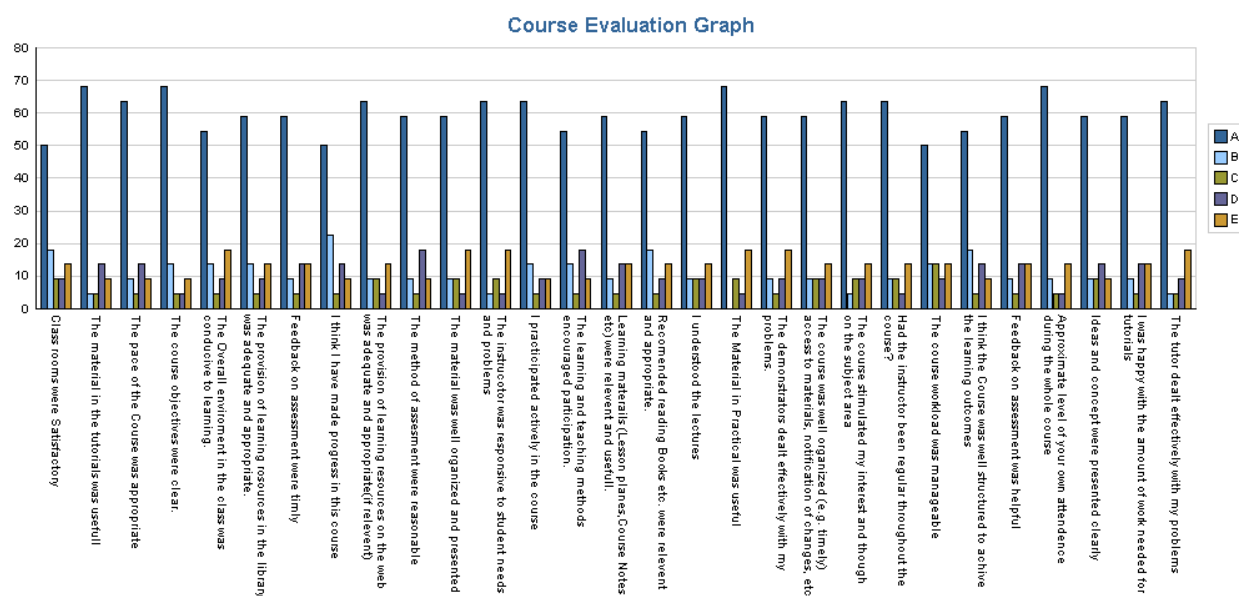
MED-401

The course evaluation graph depicted that 90% of students enrolled were agreed with the course aim and objectives. The learning material was very good for this introductory course. It was well organized and delivered as per required. The method of assessment and instruction was also very good enough. Students participated well and their problems were solved. The course was very helpful for students in enhancing their basic knowledge about livestock. Maximum students participated actively in the course. Feedback was timely.



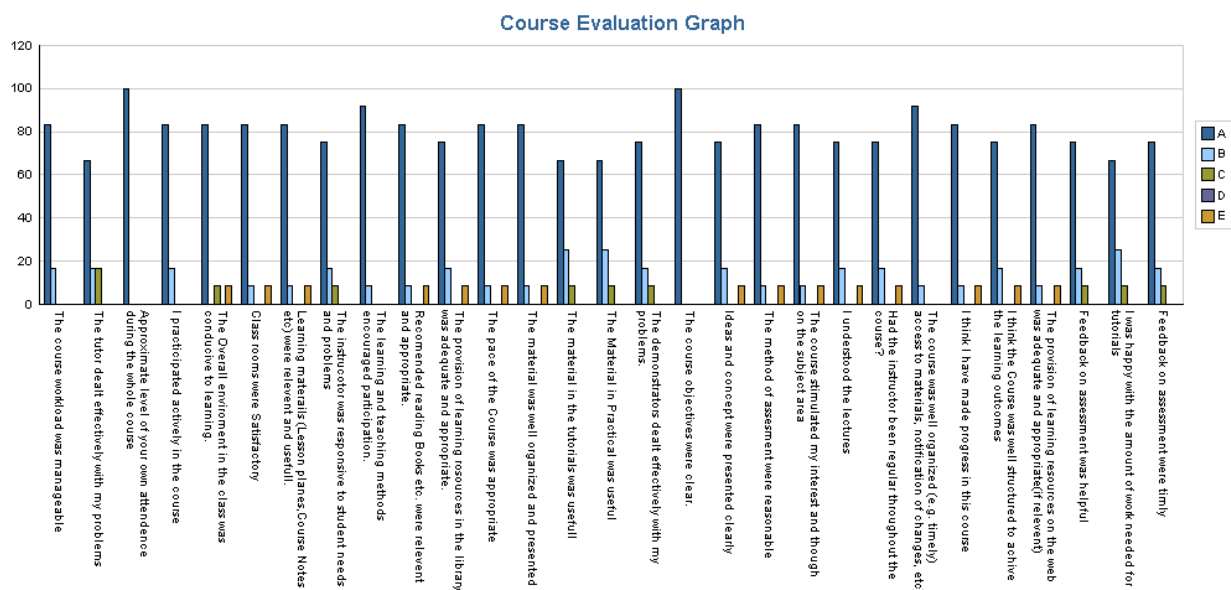
MED-505

Graph provided below shows the course evaluation. Seventy percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About seventy percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning and helping material. Additional 10 % students criticized the different criteria.



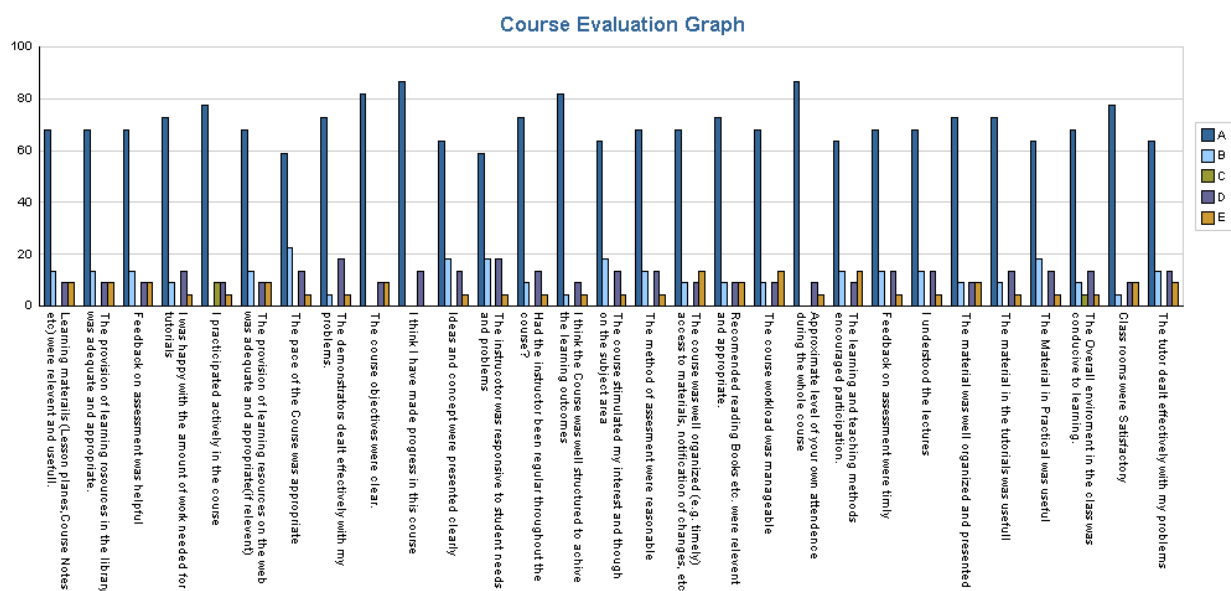
SURG-401

Graph provided below shows the course evaluation. Eighty percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About eighty percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning and the helping material.



MED-405

Graph provided below shows the course evaluation. Seventy percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About seventy percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning and helping material. Additional 5 % students criticized the different criteria.



PROGRAM ASSESSMENT RESULTS

Teacher's Evaluation (Spring 2013&Spring 2014)

Teacher's performance was assessed through students' comments on prescribed evaluation Performa. This evaluation was done for different courses of the individual teachers filling in Performa 10 through Campus Management System.

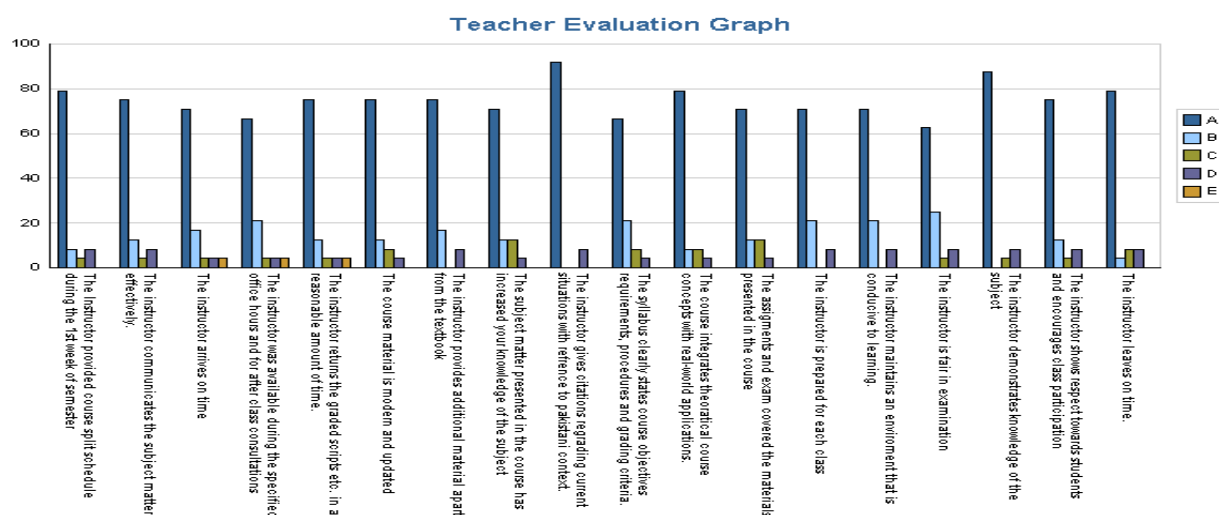
Department of Clinical Studies

Spring 2013

The four teachers in the department numbered from 1-4 were evaluated during Fall2012. The names of the teachers along their allotted numbers are Prof. Dr. Arfan Yousaf (1), Dr. Arif Zafar (2) Dr. Muhammad Yaqoob (3), Mudassar Nawaz (4). The details of evaluation are given in the preceding paragraphs.

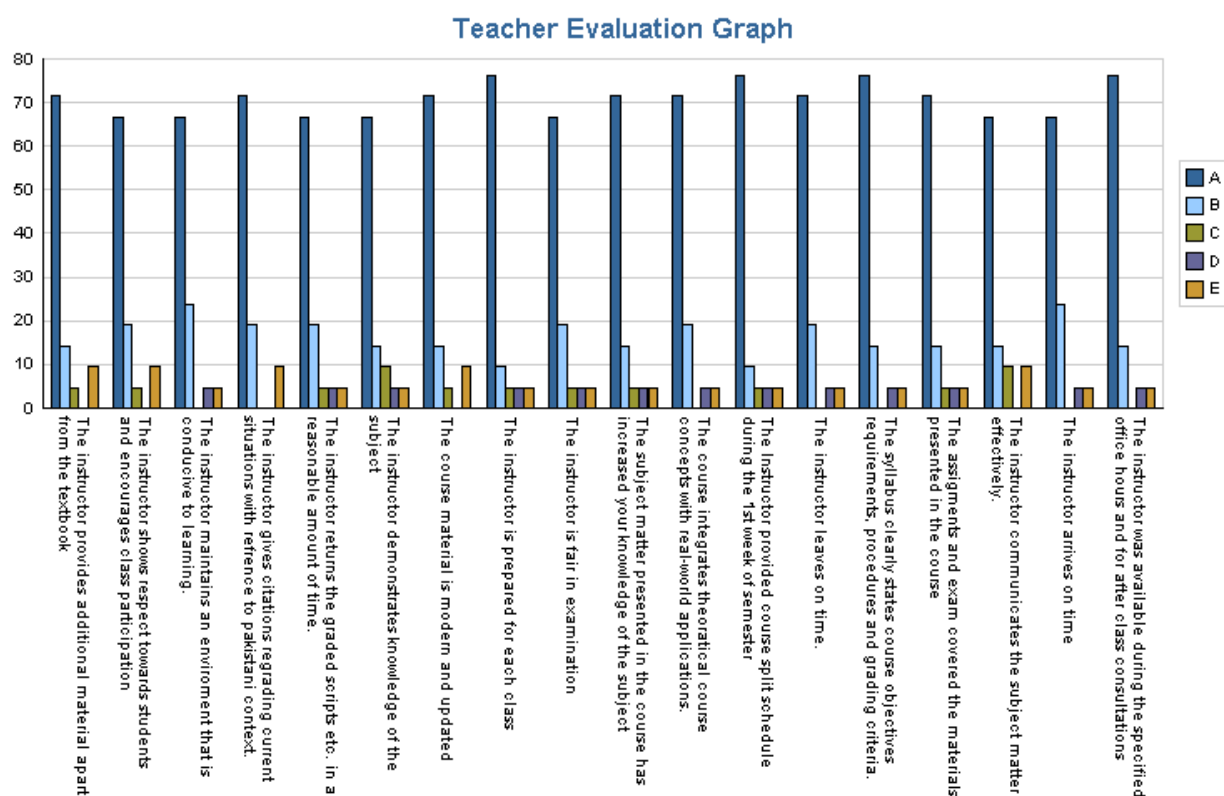
Teacher 1

Teacher evaluation by students during Spring-2013 is mentioned in the graph given below. It is hereby presented in the graph that 75% of students graded excellent, very good, good, fair and poor in terms of all parameters, respectively. The instructor was up to date and delivered his knowledge with full preparation. He was regular and communicated excellently. He responded very well to all the questions raised by students. The assignments given enhance the capability of students and modern & relevant material was provided. However, 5% students were not satisfied.



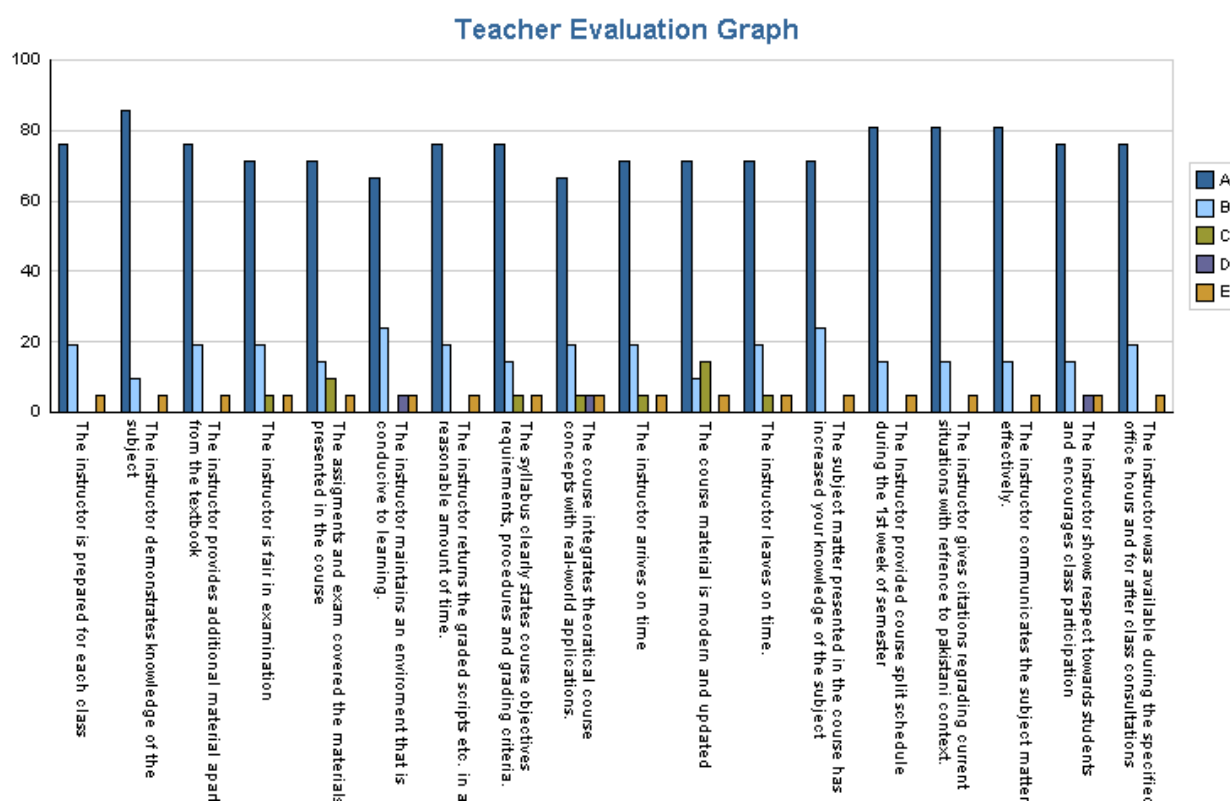
Teacher 2

Teacher evaluation by students during Spring-2013 is mentioned in the graph given below. It is hereby presented in the graph that 68% of students graded excellent, very good, good, fair and poor in terms of all parameters, respectively. The instructor was up to date and delivered his knowledge with full preparation. He was regular and communicated excellently. He responded very well to all the questions raised by students. The assignments given enhance the capability of students and modern & relevant material was provided. However, 5% students were not satisfied



Teacher 3

It is showed in the graph that 78% of enrolled students graded excellent, very good, good, fair and poor in terms of all parameters, respectively. The instructor was punctual and provided a good environment which was conducive for learning. He enhanced the skill and capability of students through arranging practical oriented activities and assignments. The attitude of teacher was friendly with students. However, 4% students graded him poor and not fair in examination.

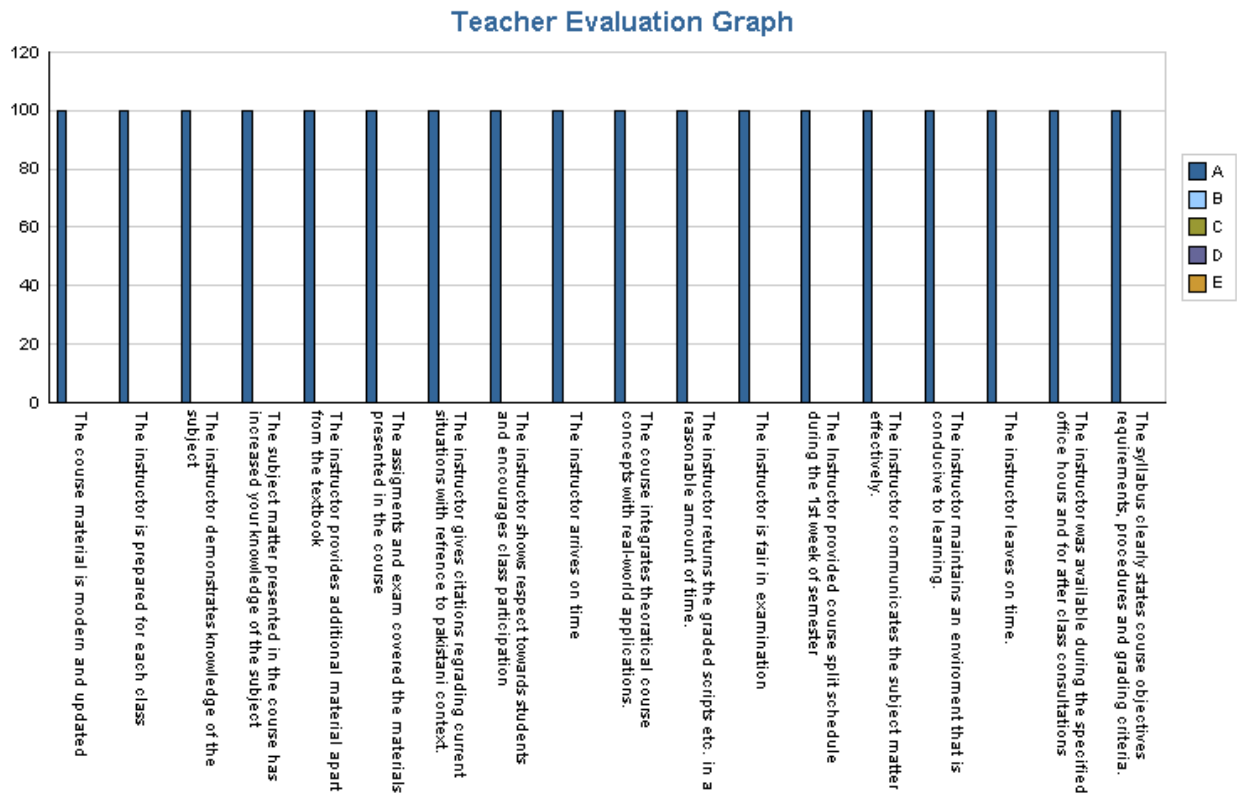


Spring 2014

The four teachers in the department numbered from 1-4 were evaluated during Fall2012. The names of the teachers along with their allotted numbers are Prof. Dr. Arfan Yousaf (1), Dr. Arif Zafar (2) Dr. Muhammad Yaqoob (3), Mudassar Nawaz (4). The details of evaluation are given in the preceding paragraphs.

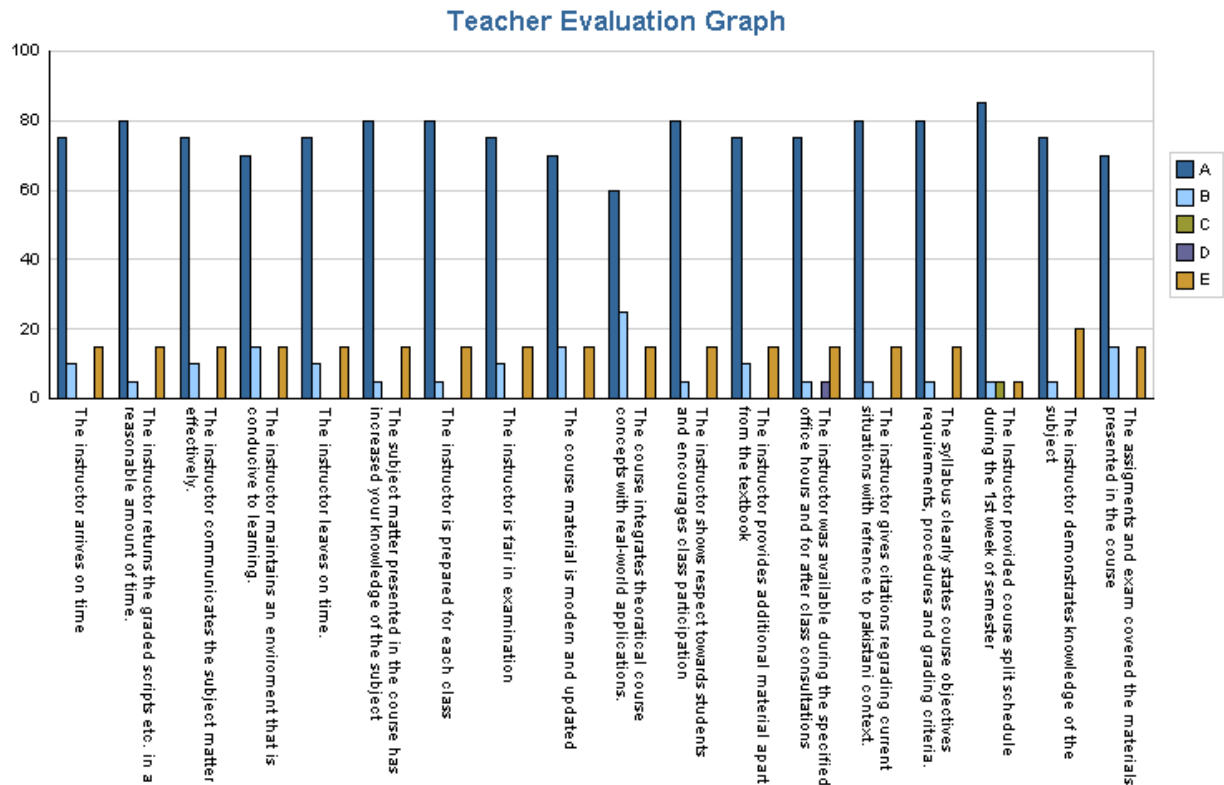
Teacher 1

More than 100% of the students agreed that the instructor arrives and leaves on time and communicates the subject matter effectively. They also agreed that the instructor provides additional material apart from the text book and the teacher was prepared for each class. Overall there was not negative comment on the teacher which shows the teacher is ok with almost everything. More than 90% of the students agreed that the teacher was available for after class consultation and the subject matter taught during the course resulted in increase the intellectual merit of the students. About 5 % students thought that the pace of the course was not appropriate and the class rooms were not satisfactory.



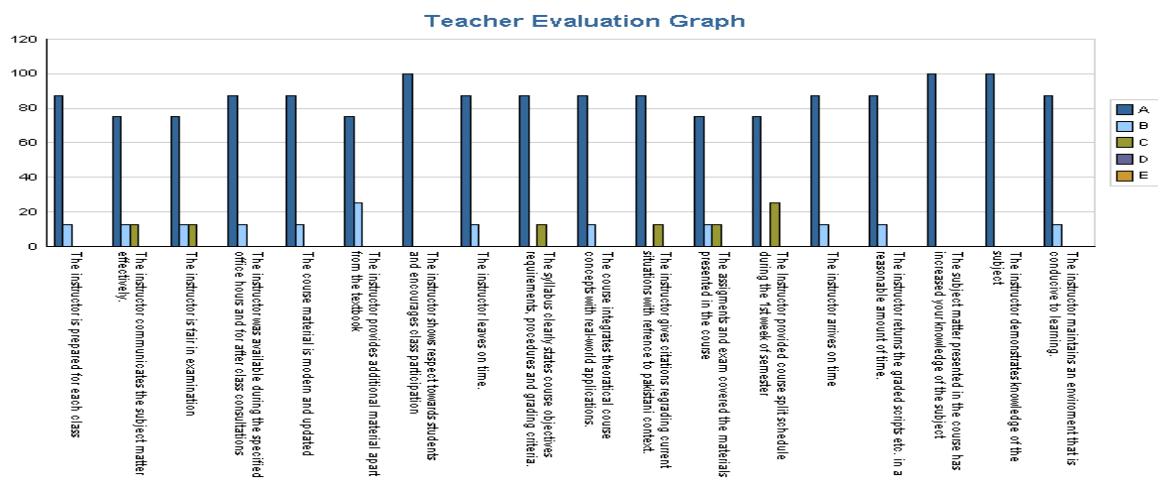
Teacher 2

.Teacher evaluation by students during Spring-2013 is mentioned in the graph given below. It is hereby presented in the graph that 70% of students graded excellent, very good, good, fair and poor in terms of all parameters, respectively. The instructor was up to date and delivered his knowledge with full preparation. He was regular and communicated excellently. He responded very well to all the questions raised by students. The assignments given enhance the capability of students and modern & relevant material was provided. However, 10% students were not satisfied



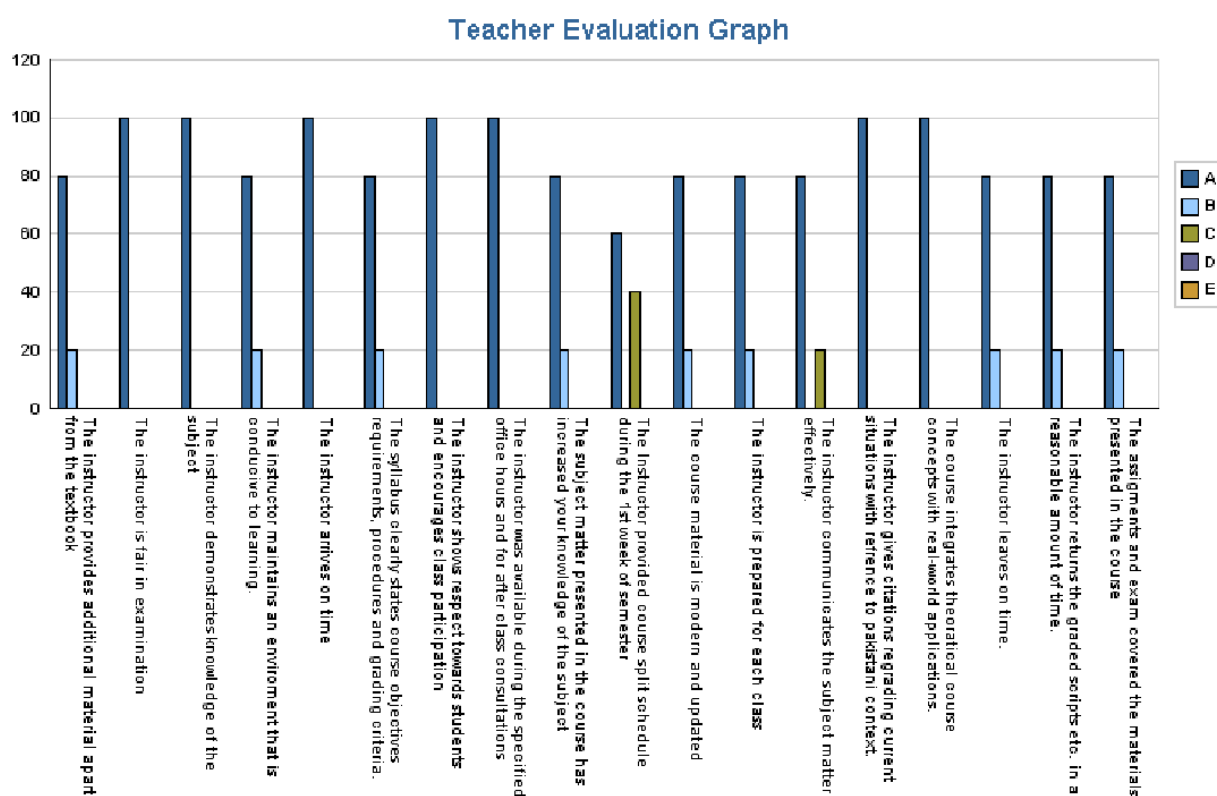
Teacher 3

More than 80% of the students agreed that the instructor demonstrates knowledge of the subject matter effectively. They also agreed that the instructor provides additional material apart from the text book and the teacher was prepared for each class. More than 20 % of the students felt that the course material is not modern and updated, the instructor does not arrive and leave on time and the instructor does not maintain an environment conducive to learning. About 80% of the students were ok with the availability of the instructor e during the specified office hours and for after class consultation. The instructor returns the graded scripts in a reasonable amount of time and the instructor communicated the subject matter effectively.



Teacher 4

More than 80% of the students agreed that the instructor demonstrates knowledge of the subject matter effectively. They also agreed that the instructor provides additional material apart from the text book and the teacher was prepared for each class. More than 80% of the students felt that the course material is modern and updated, the instructor arrive and leave on time and the instructor maintain an environment conducive to learning. About 80% of the students were ok with the availability of the instructor e during the specified office hours and for after class consultation. The instructor returns the graded scripts in a reasonable amount of time and the instructor communicated the subject matter effectively. About 60% student agreed the provision of split schedule at 1st week of the class.

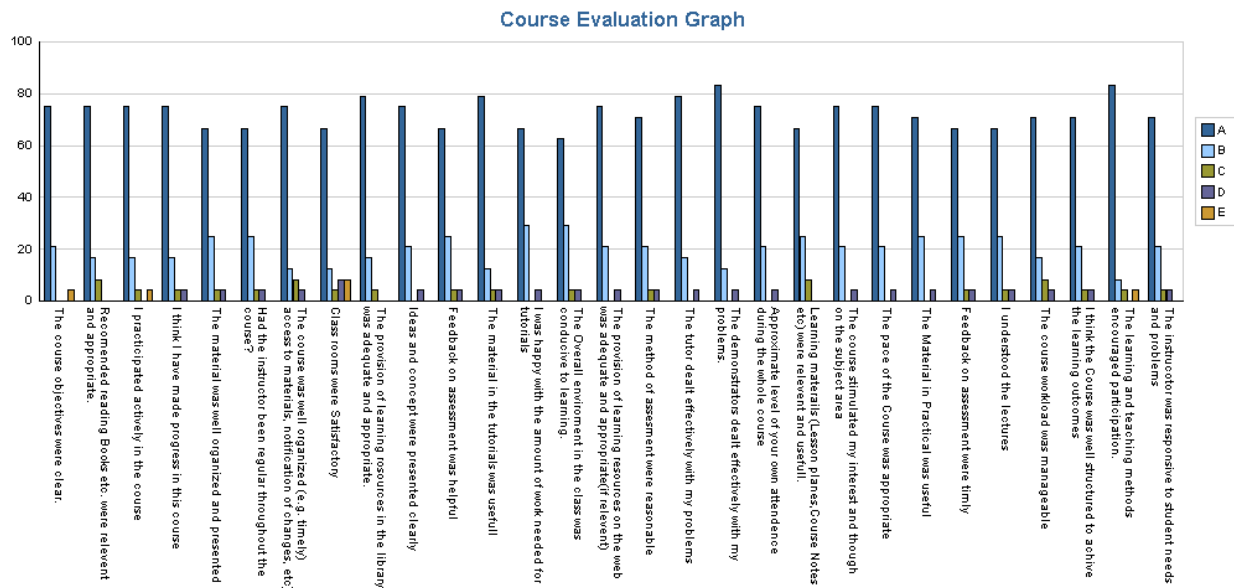


Courses Evaluation (Spring 2013)

MED-404

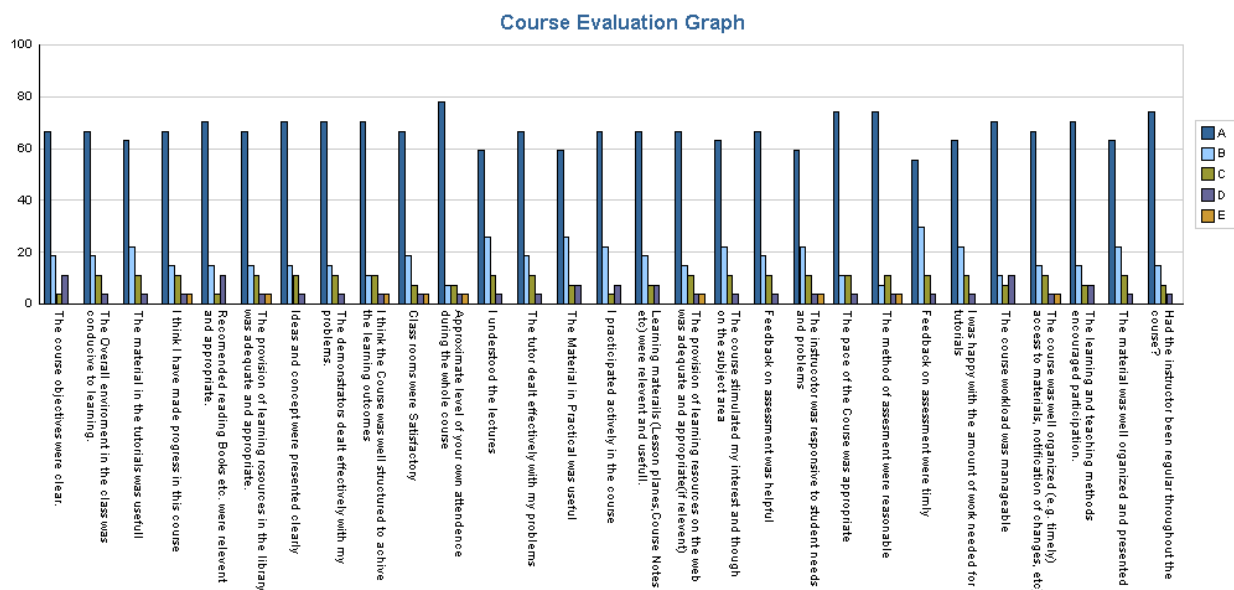
Over 75% of the students agreed that the course was organized and ideas and concepts were presented clearly. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes. Moreover 70% students agreed that instructor was responsive to student's problems and queries. 5 %

students complained about the condition of classrooms. Additionally 5 % students thought that the course was not helpful in stimulating their interest in the subject.



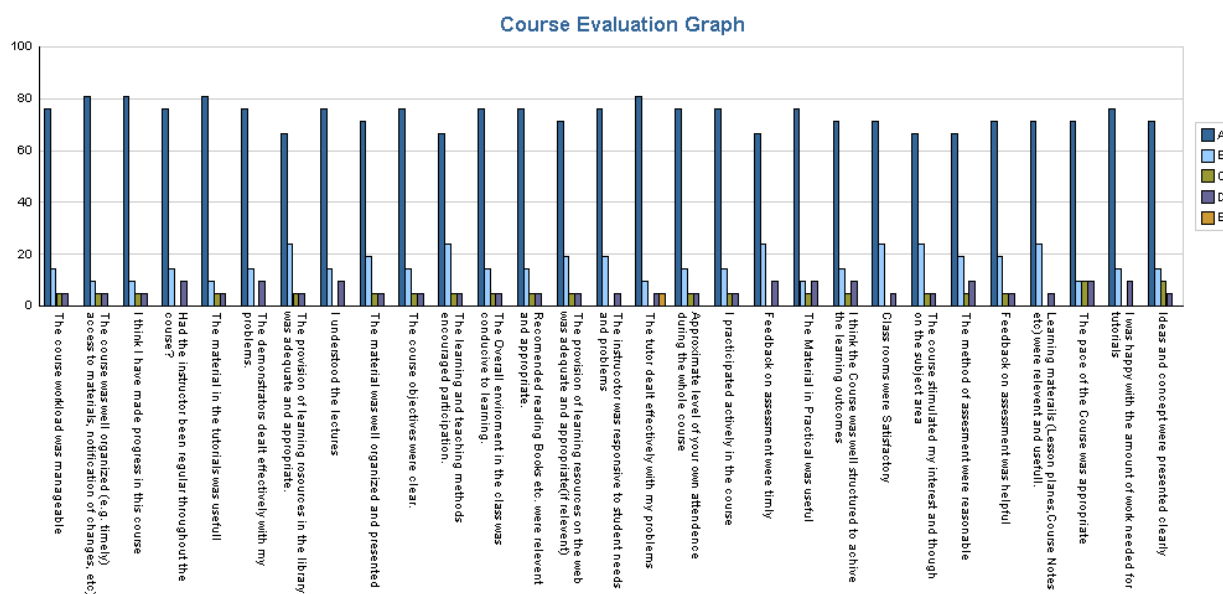
MED-406

Over 80% of the students agreed that the instructor dealt effectively with their problems. Over 70% student stated that course load was manageable. More than 70% of the respondents felt that the instructor was regular throughout the class, material in the practical was useful and course objectives were clear although less than 5% of the students felt that course objectives were not clear. More than 75% respondents were of the opinion that methods of assessments were reasonable, class rooms were satisfactory, course was well organized to achieve the learning outcomes and the course stimulated their interest and thought on the subject matter.



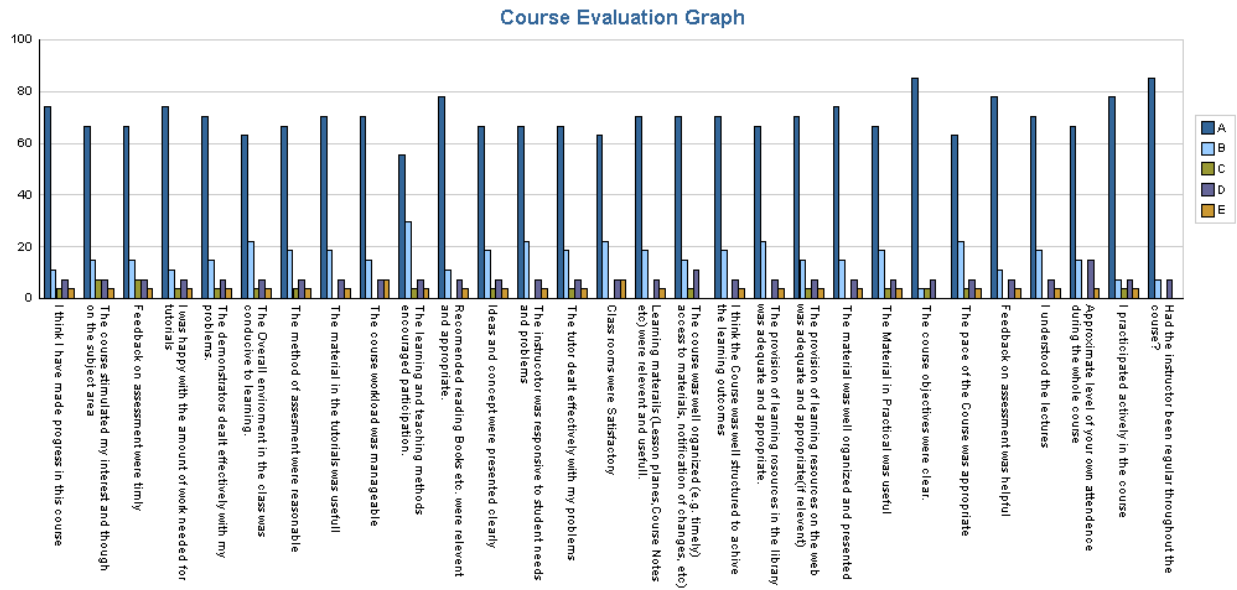
MED-302

It was reported that Over 75% of the students agreed that the course was organized and ideas and concepts were presented clearly. Moreover 70% students agreed that instructor was responsive to student's problems and queries and pace of the course was acceptable. 5% students questioned the learning outcomes of the course. Only 5% students complained about usefulness of materials in the tutorial. The objectives were clear and instructor made excellent efforts for making concepts of students clear. Students made progress in enhancing their knowledge and skill with adequate pace during the course.



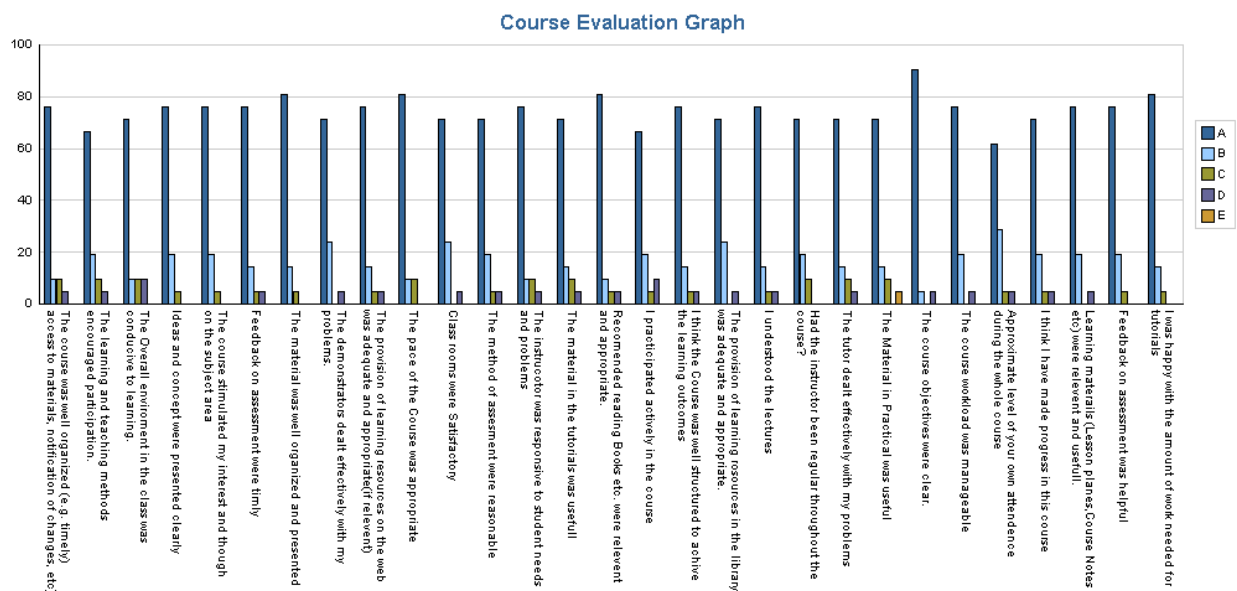
MED-402

Results regarding course evaluations are mentioned in the graph given below. The graph showed that over 70% of the students agreed that the material and practical was useful, recommended books were relevant and they participated in the course. Similar number of students agreed that course objectives were clear. However, 5% students questioned the regularity of instructor. The learning environment was maintained good in which student participated well. The demonstration was effective which enhanced the knowledge of students.



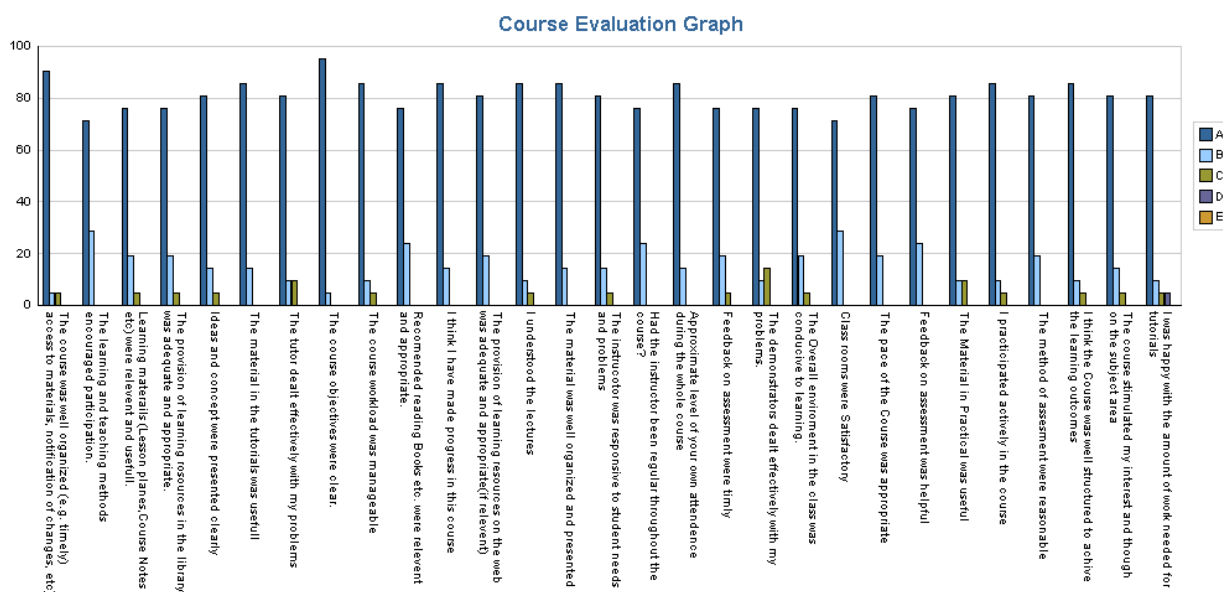
MED-304

The graph showed that Over 75% of the students agreed that the course workload was well managed, they understood the lectures, course was well organized and course objectives were clear. However, 5% students stated that the course is not well organized. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The demonstration used was very effective which ultimately enhance the knowledge and skill of students through continuous practical exposure and performance of livestock operation regularly.



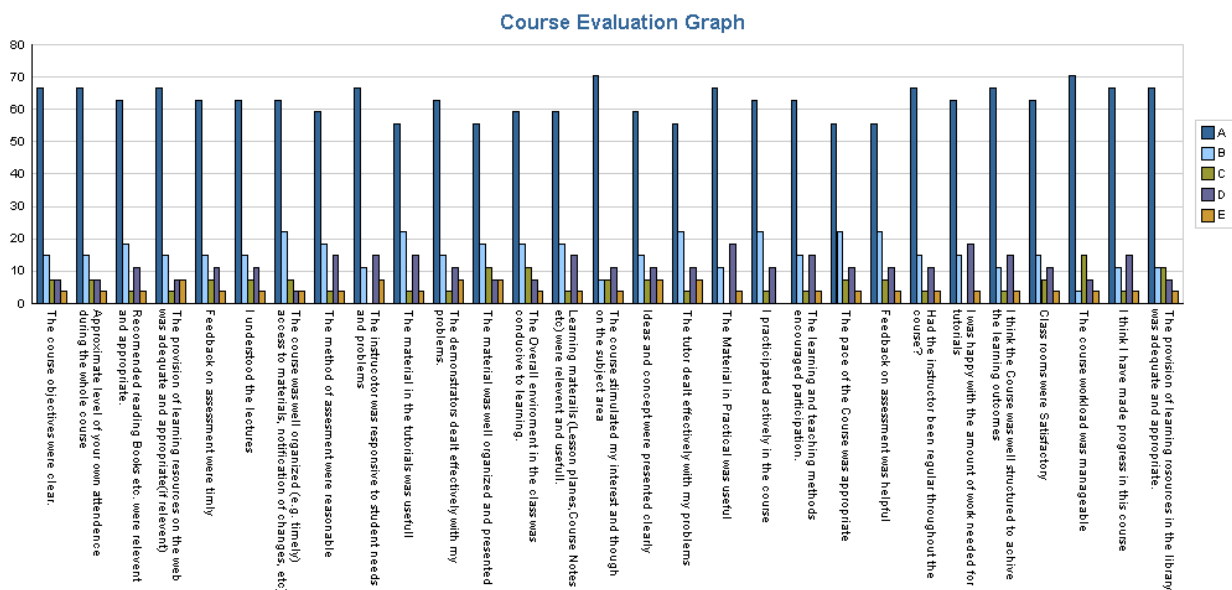
SURG-302

Graph provided below shows the course evaluation. More than Seventy percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About 70% percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning. Few students questioned the relevancy of the helping material. Additional 5 % students criticized in most of the criteria. .



SURG-402

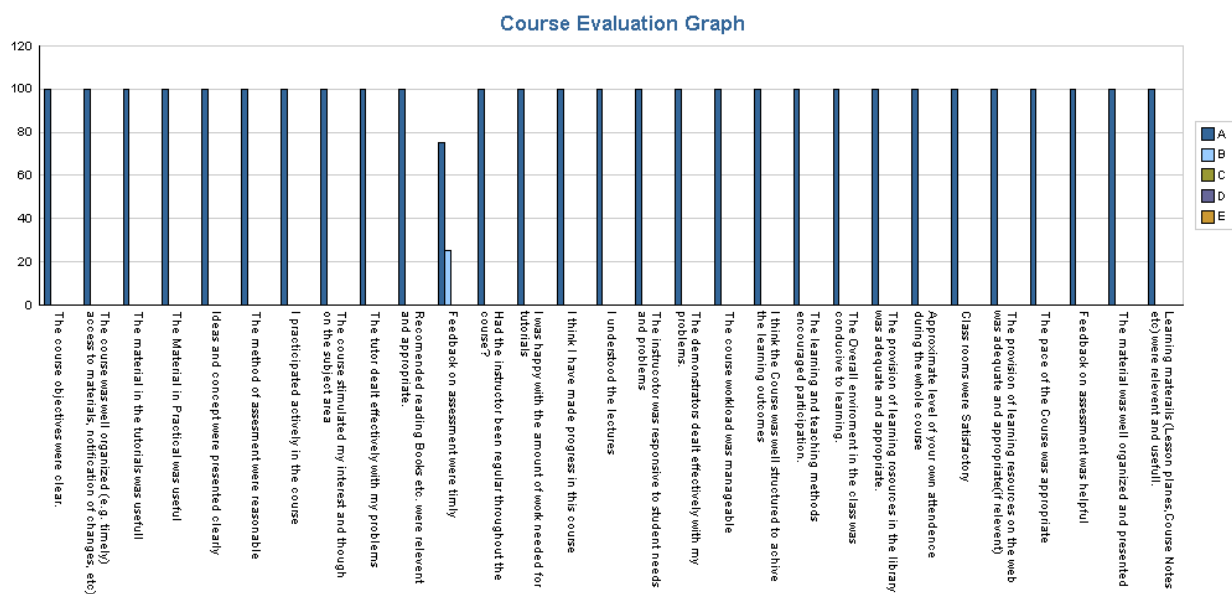
Graph provided below shows the course evaluation. More than sixty percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About sixty percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning. Few students questioned the relevancy of the helping material. Additional 5 % students criticized in all aspect of graph. .



Courses Evaluation (Spring 2014)

SURG-406

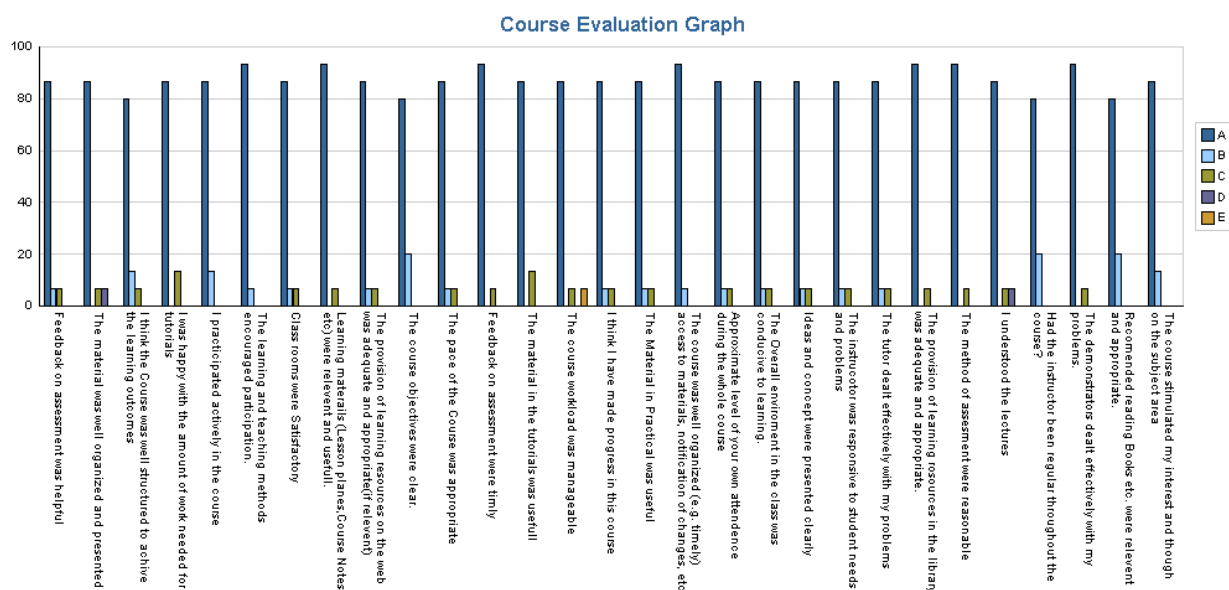
The graph showed that 100% students graded excellent, very good, good, fair and poor in all parameters, respectively. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



MED-304

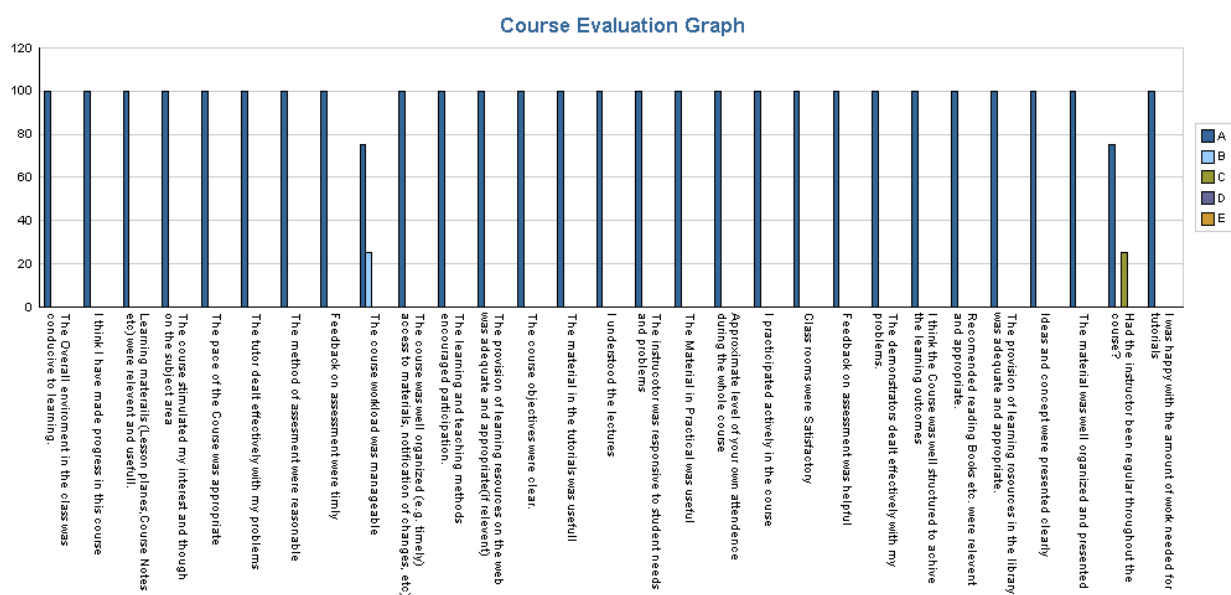
Majority of the about 90% students agreed that the course was well structured to achieve the learning outcomes, learning material was relevant and useful and the instructor had been regular throughout the course. They also responded that the pace of the course was appropriate, feedbacks on the assessments were timely and helpful and ideas and concepts

were presented clearly during the course delivery. Additionally, most students understood the lectures and participated actively in the course.



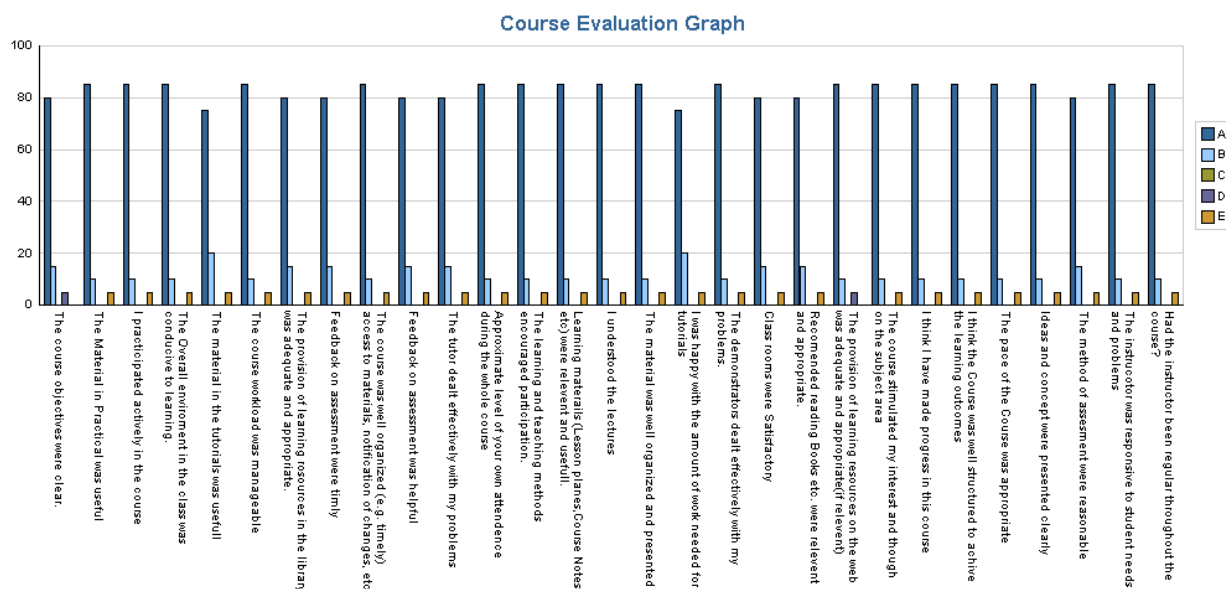
MED-402

Over 100% of the students agreed that they participated actively in the class, have made progress in course and course load was manageable and the course was well structured to achieve the learning outcomes. They also felt that they understood the lectures, feedback on the assessments were timely and helpful and the demonstrator dealt with their problems and needs. Nearly 10% of the students stated that course objectives were not clear and course work load was not manageable.



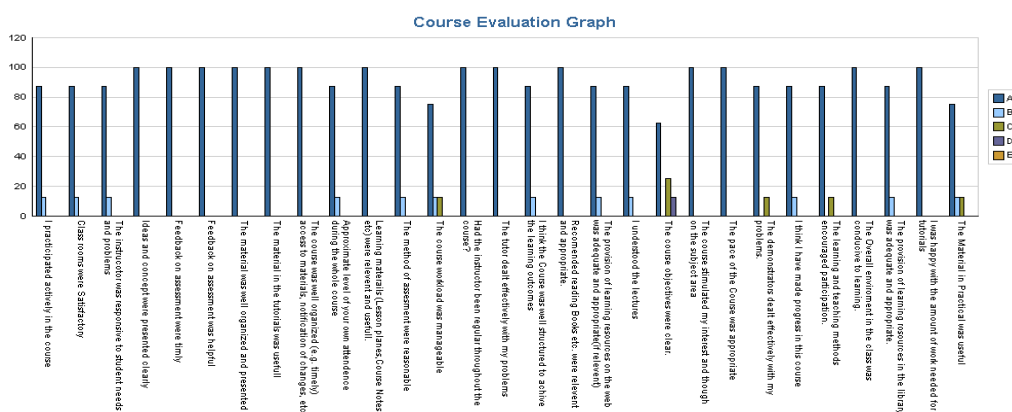
MED-302

Approximately 80% of the students agreed that the overall environment of the class was conducive to learning and the material in the practical was useful. Moreover around 90% of the students agreed that the course was well organized and the instructor was responsive to student needs and problems. More than 8% of the students feel that the feedback on the assessments was helpful and course workload was manageable. About 5 % students thought that the pace of the course was not appropriate and the class rooms were not satisfactory.



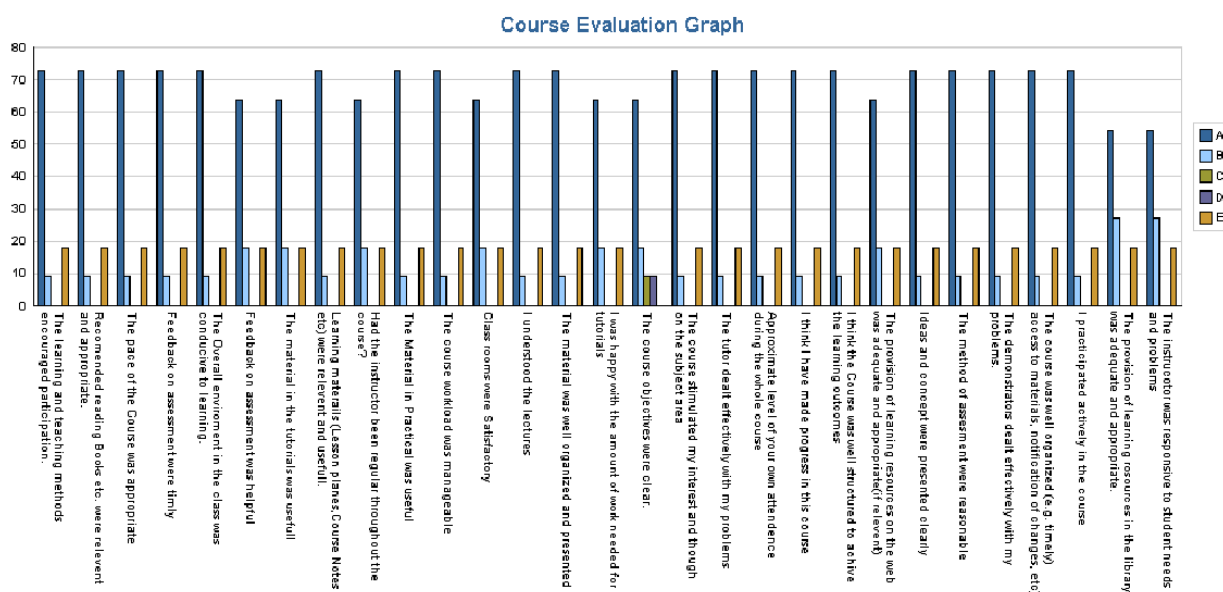
MED-404

Most of the students agreed that course work load was manageable and course objectives were clear. Nearly 10% student stated that the material provided in practical was not useful. 100 % of the respondents were of the opinion that ideas and concepts were presented clearly, course was well organized to achieve the learning outcomes. As students were present in the all categories of the graph, showing that, about 5% of the students were not satisfied with one aspect or the other of the given course on overall basis. More than 60% of the respondents felt that the pace of the course was appropriate, class rooms were satisfactory and the tutor dealt effectively with their problems. Nearly 70% of the respondents agreed that they had made progress in the course and overall attendance of the students was more than 70%.



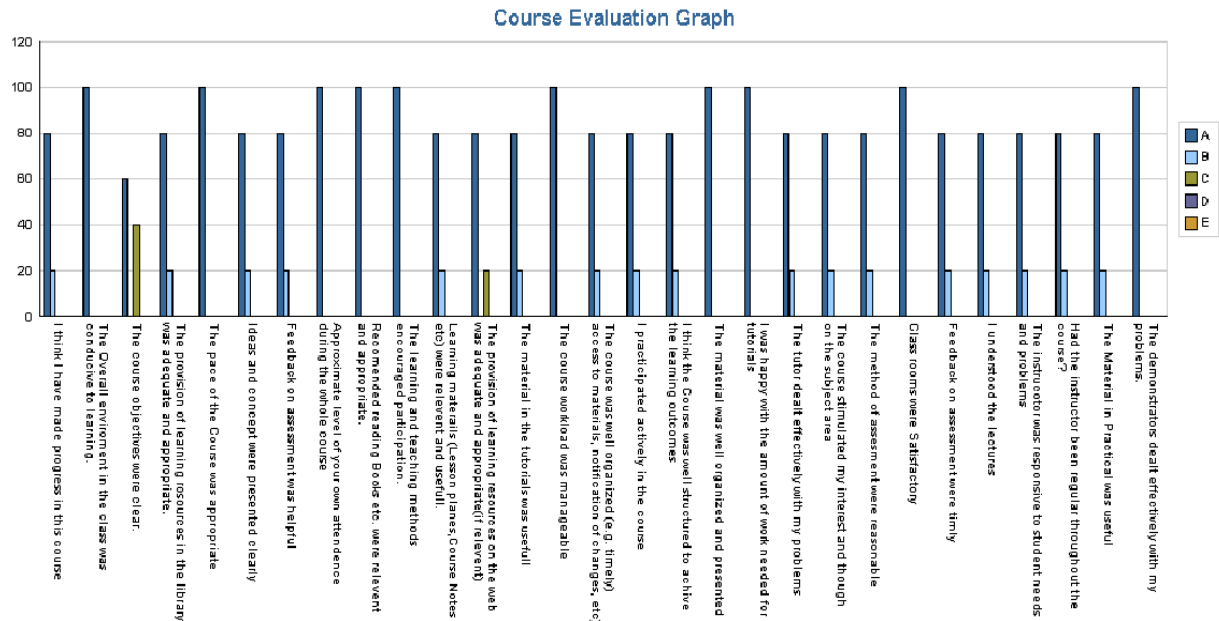
THER-302

More than 73% students agreed that learning methods, recommended books related to course, appropriate pace of course, learning class room environment and relevant learning material. About 73 students agreed that course work load was manageable, course objectives were clear and course was well organized to achieve the learning outcomes. More than 70% students agreed the clear ideas and concepts and reasonable method of assessment. Most of the students actively participate in this course. More than 60% students agreed that feedback on assessment was helpful, material in the tutorial was useful, classroom was satisfactory and course objective was clear.



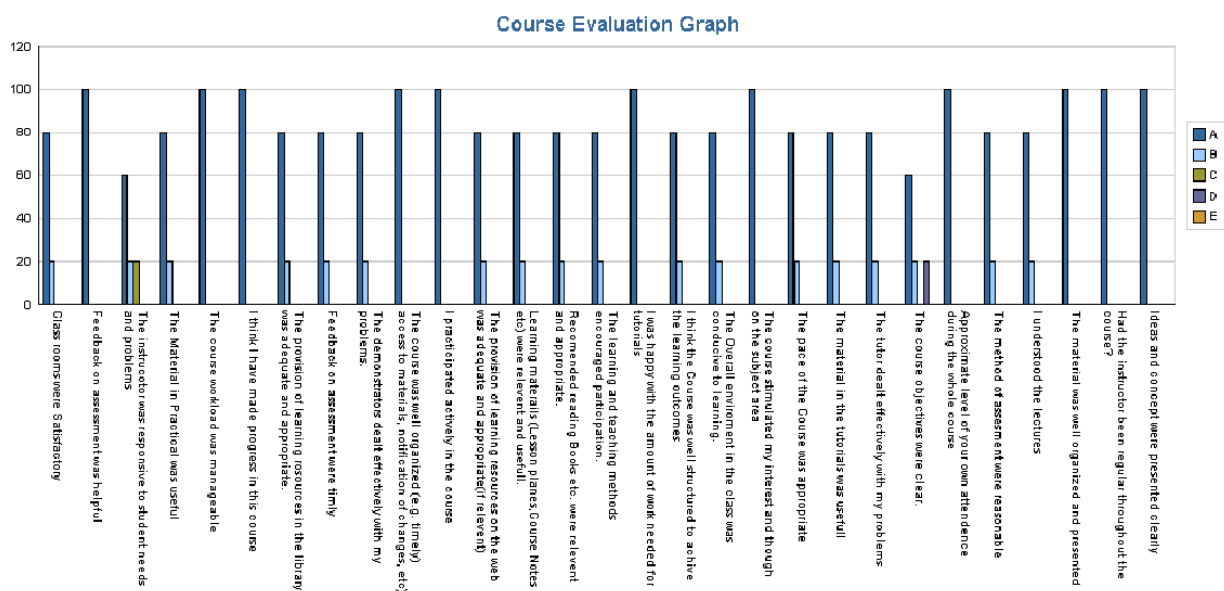
OBGY-404

Over 100% of the students agreed that overall environment in the class was conducive to learning, the pace of the course was appropriate, recommended reading books were relevant, approximate level of your own attendance and learning and teaching methods were encouraging participation. About 100% of respondent agreed that course workload was manageable, the material was well organized and class room was satisfactory. Nearly 80% students stated that they had made progress in this course, ideas and concepts were clearly presents, feedback on assessment was helpful, learning material were relevant and material in the tutorial was useful. More than 80% students agreed that course was well organized, well structured, useful practical material and regularity of instructor.



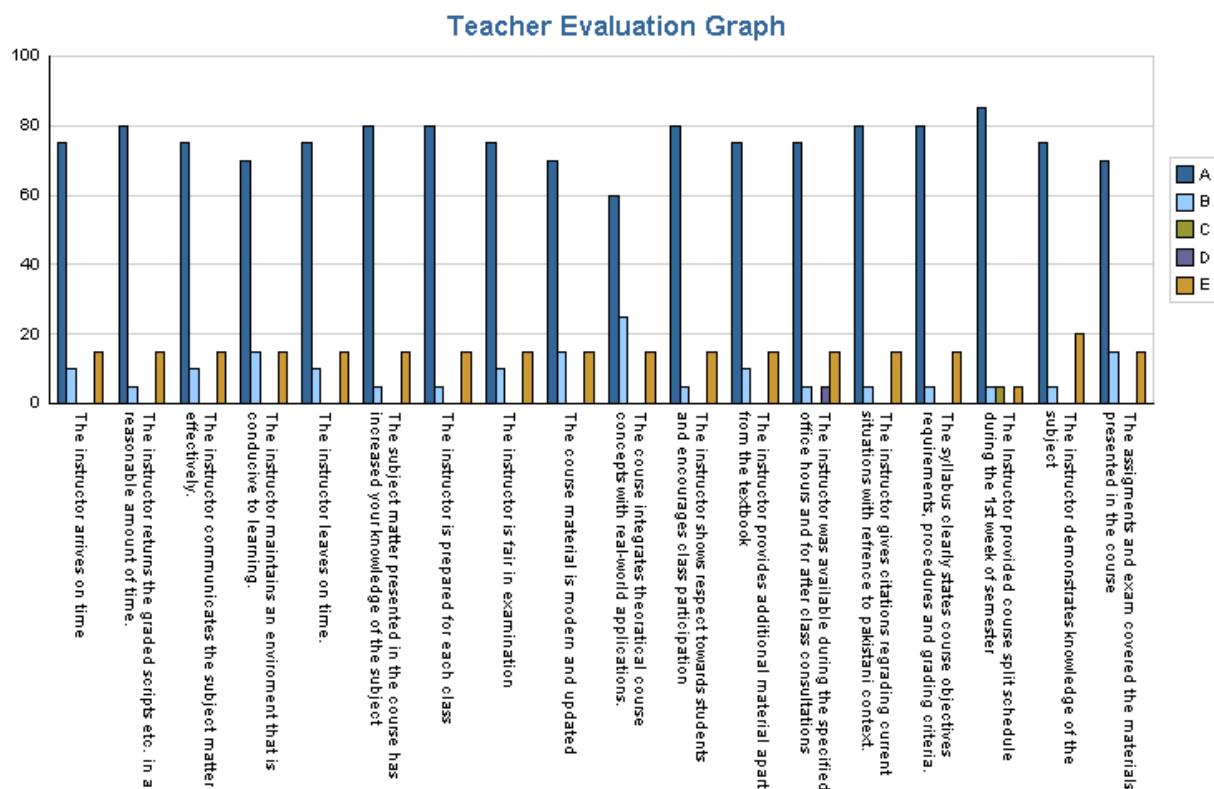
OBGY-402:

Over 100% of the students agreed that they had progress in this course, course workload was manageable, feedback on assessment was useful, course was well organized and course stimulated my interest. . About 100% of respondent agreed that ideas and concepts were clearly presented; instructor was regular, well organized material and approximate level of student attendance. Nearly 80% students stated that classroom was satisfactory, material in the practical was useful, feedback on assessment were timely, learning material and teaching methods encouraging student interest.



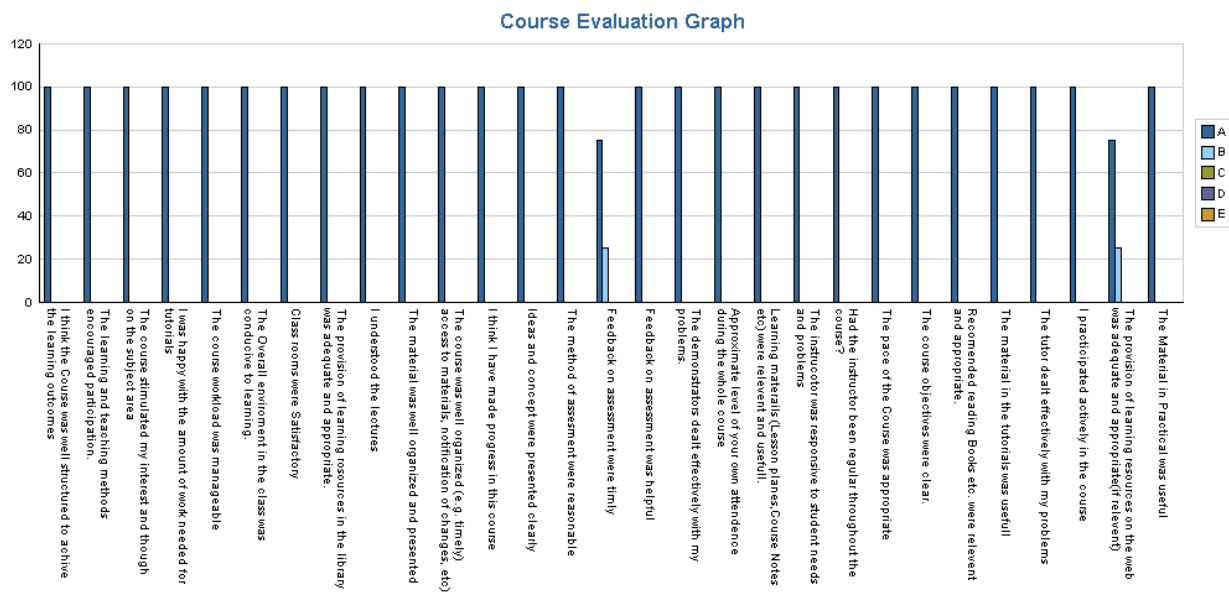
SURG-304

Graph provided below shows the course evaluation. Seventy percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About 70%percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning. Few students questioned the relevancy of the helping material. Additional 15 % students criticized in all aspects of graph.



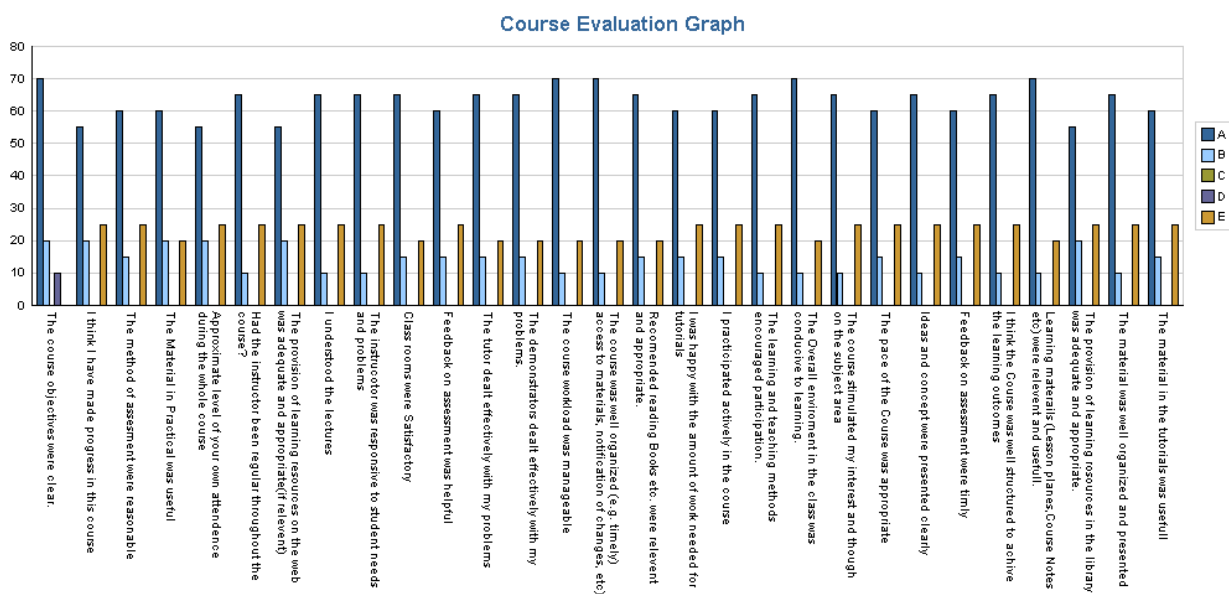
SURG-402

Graph provided below shows the course evaluation. Hundred percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About 100% percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning. Few students questioned the relevancy of the helping material.



SURG-302

Graph provided below shows the course evaluation. Sixty percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About sixty percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning. Few students questioned the relevancy of the helping material. Additional 20% students criticized in most of aspect of graph.



PROGRAM ASSESSMENT RESULTS

Teacher's Evaluation (Fall 2014)

Teacher's performance was assessed through students' comments on prescribed evaluation Performa. This evaluation was done for different courses of the individual teachers filling in Performa 10 through Campus Management System.

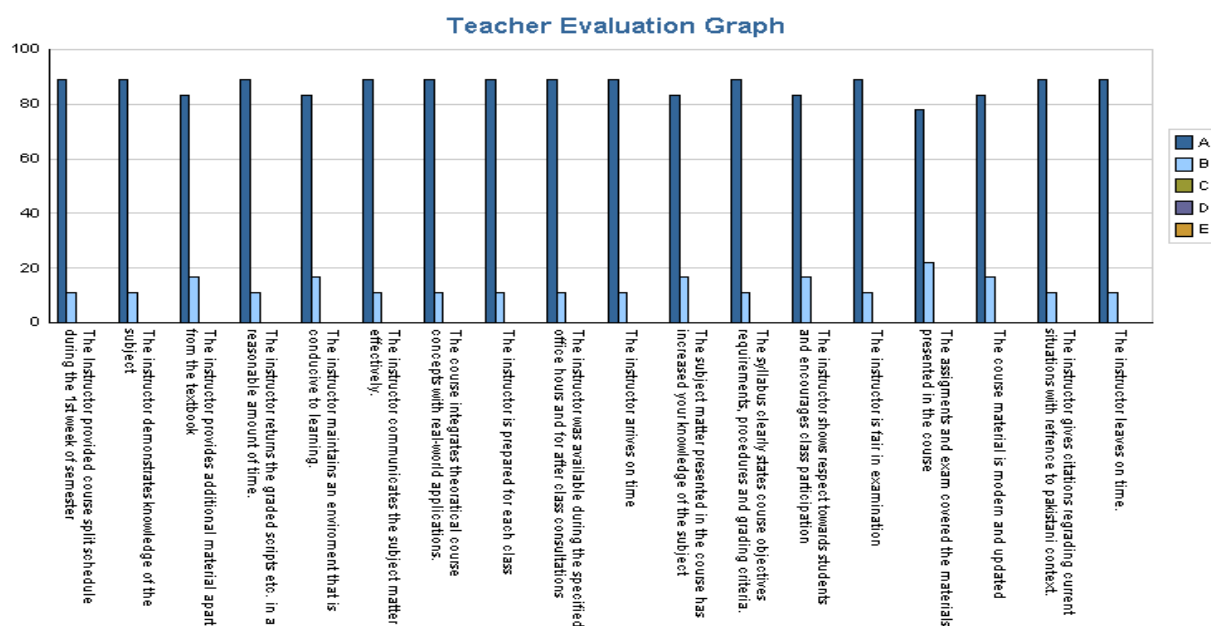
Department of Clinical Studies

Fall 2014

The four teachers in the department numbered from 1-4 were evaluated during Fall2012. The names of the teachers along their allotted numbers are Prof. Dr. Arfan Yousaf (1), Dr. Arif Zafar (2) Dr. Muhammad Yaqoob (3), Mudassar Nawaz (4). The details of evaluation are given in the preceding paragraphs.

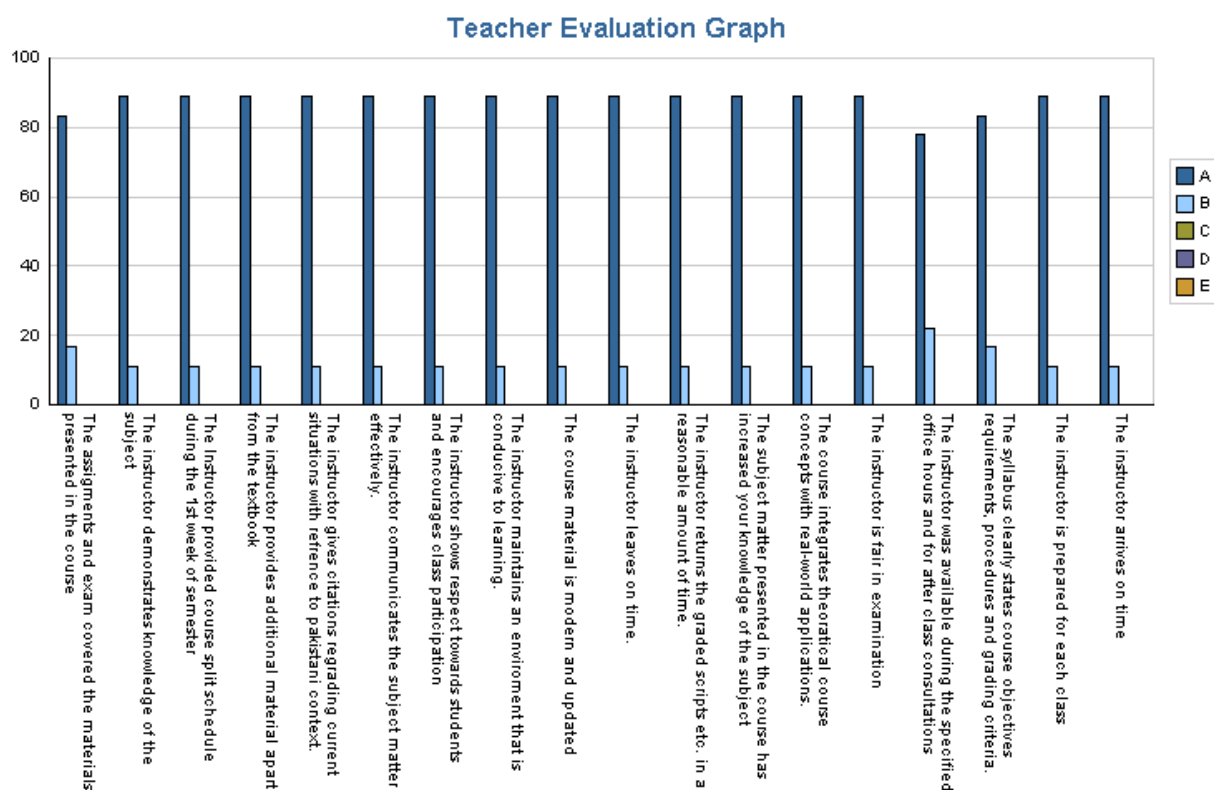
Teacher 1

The graph showed that over 80% students graded excellent, very good, good, fair, and poor in all parameters, respectively. The teacher evaluation graph showed that 85% of the class was satisfied with the performance of teacher. He was regular and delivered good presentations. His knowledge and concepts about the subject were up to the mark. The course material given by teacher was relevant and satisfactory. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes.



Teacher 2

The graph showed that over 80% students graded excellent, very good, good, fair, and poor in all parameters, respectively. The teacher evaluation graph showed that 80% of the class was satisfied with the performance of teacher. He was regular and delivered good presentations. His knowledge and concepts about the subject were up to the mark. The course material given by teacher was relevant and satisfactory. The course was well organized, structured and material given was useful. The objectives were clear and instructor made excellent efforts for making concepts of students clear. The learning environment was maintained good and teaching method adopted was satisfactory in which student participated well specially in practical classes



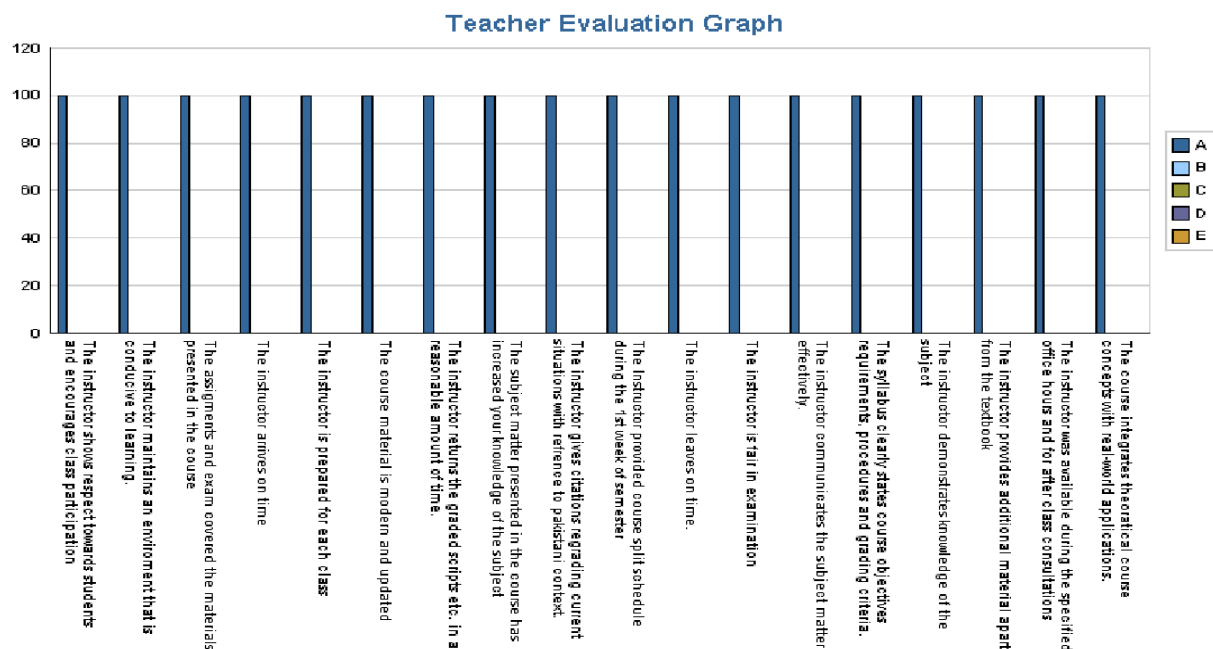
Teacher 3:

About 100% of the students agreed that the instructor demonstrates knowledge of the subject matter effectively. They also agreed that the instructor provides additional material apart from the text book and the teacher was prepared for each class. About 100% of the students felt that the course material is modern and updated, the instructor tarrive and leave on time and the instructor maintain an environment conducive to learning. About 100% of the students were ok with the availability of the instructor e during the specified office hours and for after class consultation. The instructor returns the graded scripts in a reasonable amount of time and the instructor communicated the subject matter effectively. About 100% student agreed the provision of split schedule at 1st week of the class.

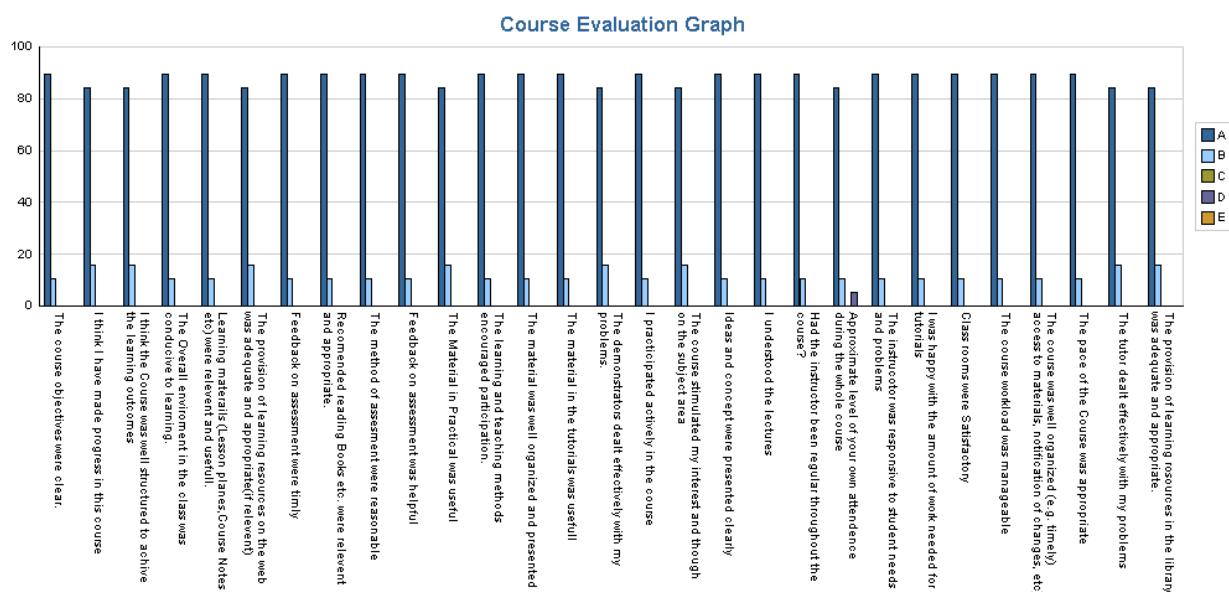
Courses Evaluation (Fall 2014)

Course No. MED-401

The results are indicated below in graph. The overall course evaluation indicated excellent course delivery. A major portion of the students (90%) strongly agreed that course was well organized, method of assessment was reasonable and teacher encouraged students

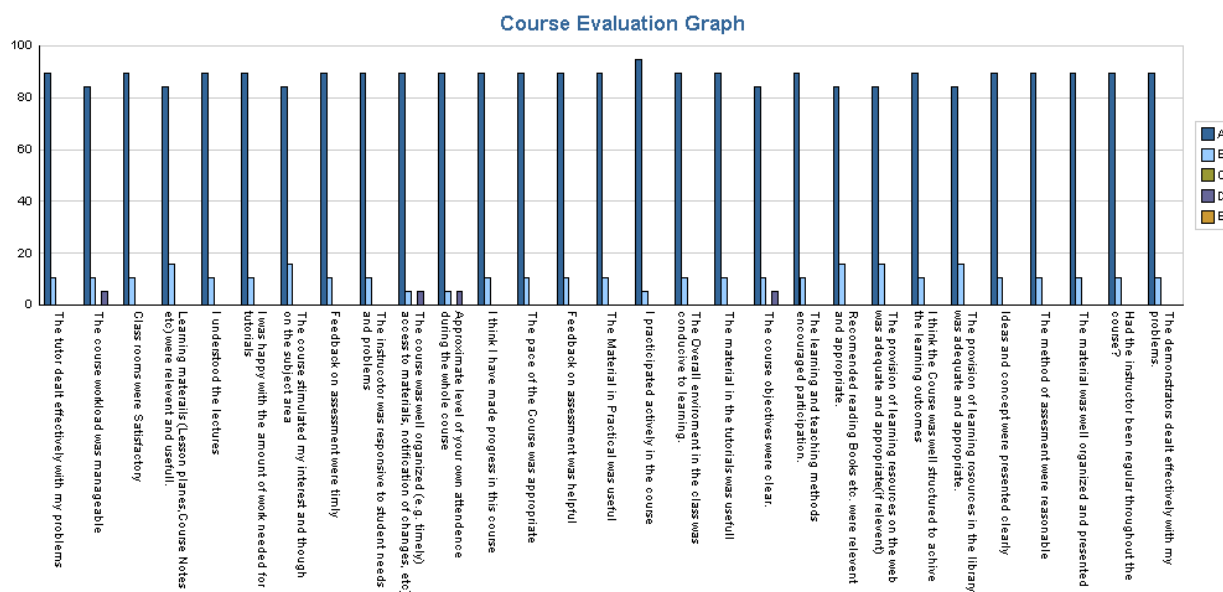


participation. Majority of students stated that the ideas and concepts were presented clearly. About 95 % students agreed with the availability of the recommended books and helping material. The work load was manageable in opinion of 80% students. About 15 % students criticized that the materials in practical was not useful. Additional 10% students said materials in tutorial was not useful.



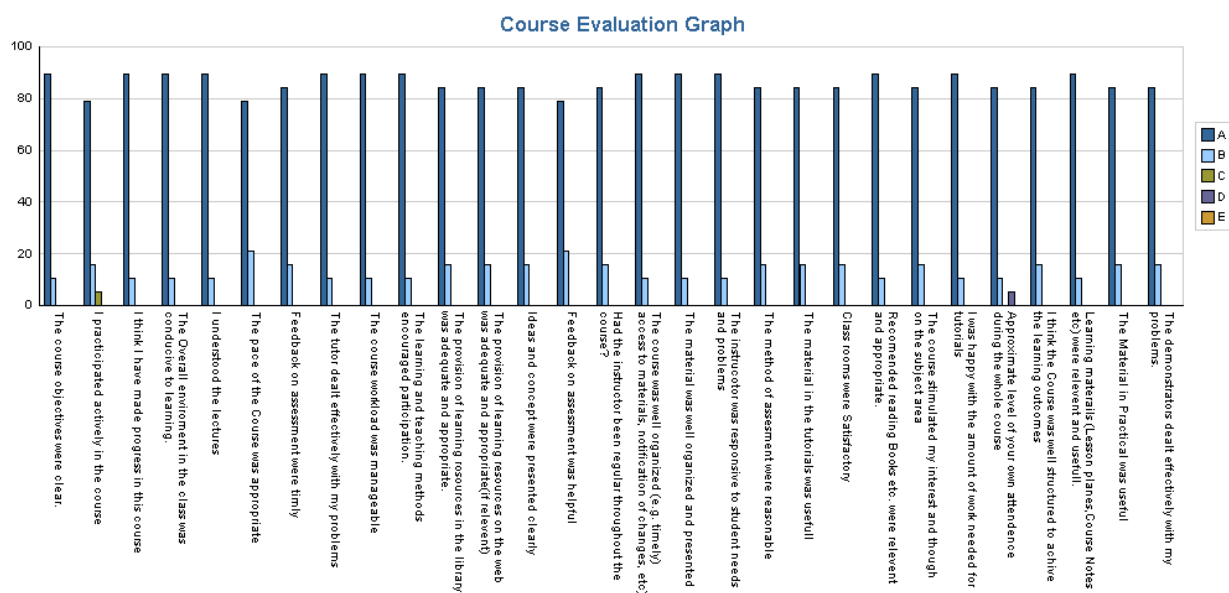
SURG-403

Graph provided below shows the course evaluation. Seventy percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About eight percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning. Few students questioned the relevancy of the helping material. Additional 10 % students criticized the workload of the course.



Course No. MED 403

The objectives of course were concise and clear. The students enrolled learnt a lot through effective teaching and presentation. The assessment of students was also up to the mark. Students stated that the course stimulated their interest in the subject. Majority of students stated the materials provided on web were relevant and useful. Other relevant material was provided by the instructor which was very helpful for students in learning. The instructor responded well to all students who demand any guidance. Feedback assessment was timely in opinion of 85 % student. 80% students stated that they have made progress in the course. 10 % students raised objection workload of the course. Additional 5% students showed objection the pace of the course.

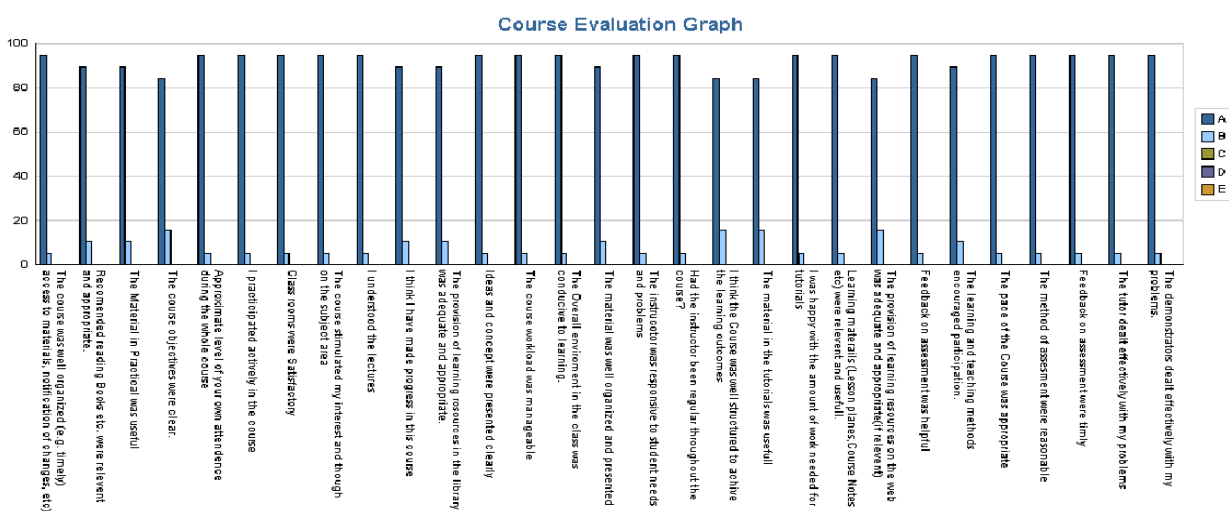


OBGY-501

About 100% of the students agreed that they had participated actively in the class, the overall environment in the class was conducive to learning, the material in the tutorial was useful, the course workload was manageable, ideas and concepts were clear, the learning and teaching method encouraging the students, the course objective was clear, class room was satisfactory, course was well organized, the material in practical was useful, the appropriate pace of course, the regularity of instructor, course material was well organized, recommended books were relevant.

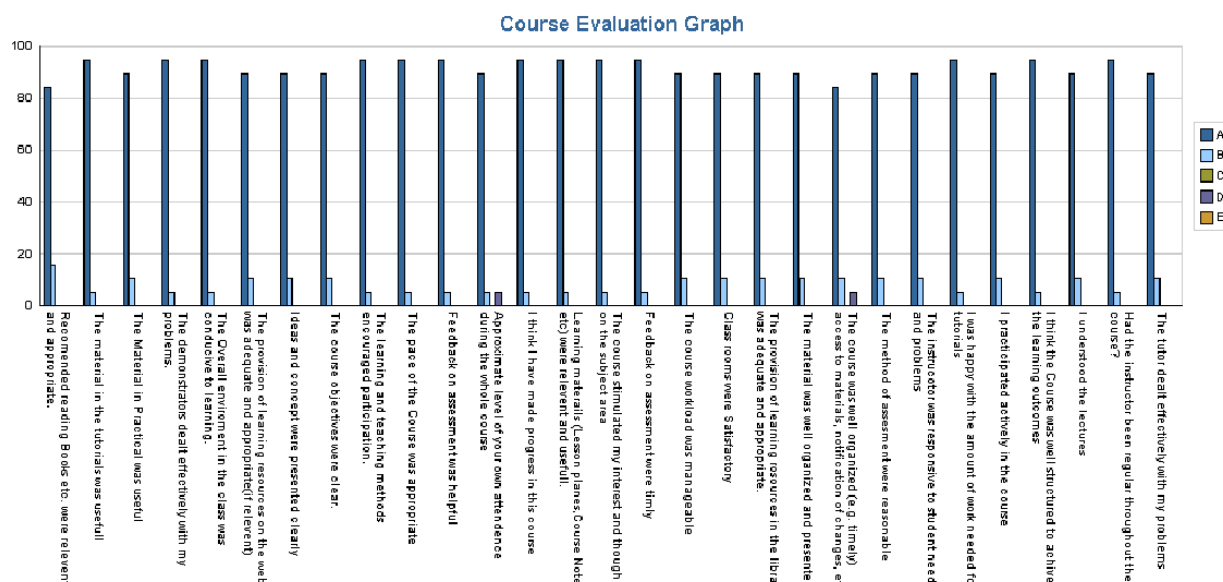
THER-403

More than 90% students agreed that course was well organized, recommended books were relevant, practical material was useful, students had actively participated in the class, ideas and concepts were presented clearly, course workload was manageable, the overall class environment was conducive to learning, the pace of the course was appropriate, the method of assessment was reasonable. More than 80% of students agreed that the course objective was clear, the course was well structured and the material of the tutorial was useful.



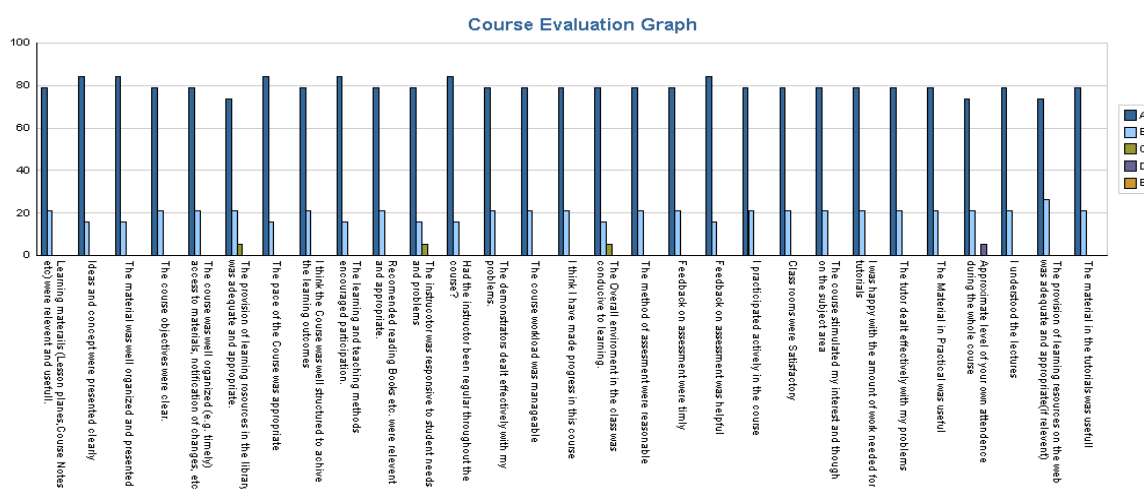
THER-401

More than 90% students agreed that the material of tutorial was useful, the overall environment was conducive to learning, the learning and teaching methods encouraging the participant, the pace of course was appropriate and the course material stimulated my interest. More than 80% agreed that recommended reading books were relevant to course, the material in practical was useful and the course was well organized.



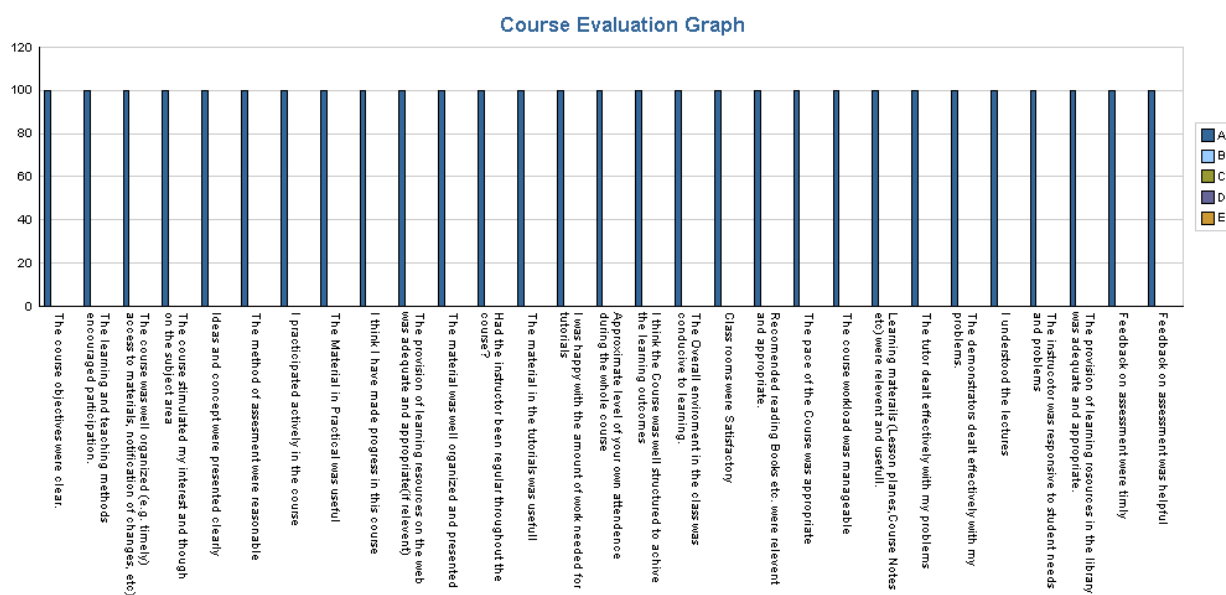
SURG-401

Graph provided below shows the course evaluation. Eighty percent of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About eighty percent students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning. Few students questioned the relevancy of the helping material. Additional 5 % students criticized the workload of the course.



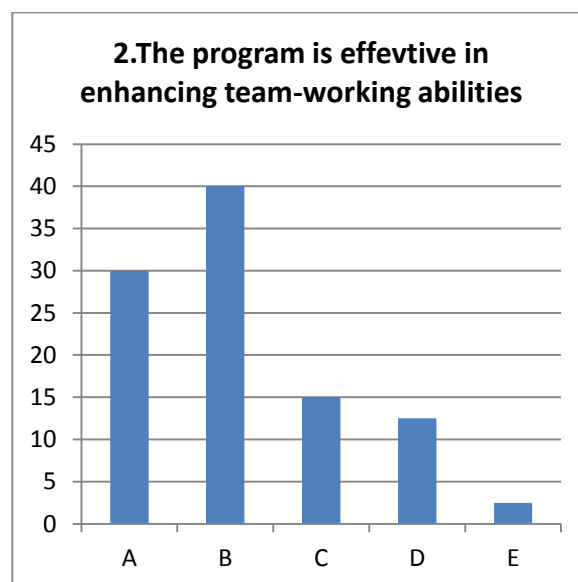
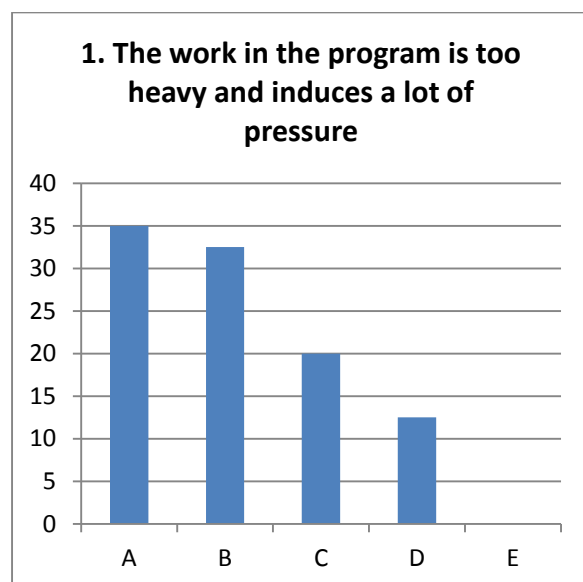
MED-505

Graph provided below shows the course evaluation. 100 % of the class reported that the course taught was good as per expectations of students. The class rooms and practical work/ assignments were satisfactory. Ideas and concepts of students were improved and learning material was given in time. Students made progress in addition of their knowledge and capability. About 100% students actively participated in the course. The overall environment in the class was satisfactory and conducive to learning. Few students questioned the relevancy of the helping material.



Survey of graduating students

The graduating survey graphs depicted that 70% of students were satisfied & very satisfied with the program workload, its effectiveness in team working, learning, problem solving and independent thinking. However, 10% of students showed unsatisfactory. Similarly, 67% of students reported that they were satisfied & highly satisfied with program effectiveness in written communication & planning capabilities and statement that objectives of program were achieved through advanced curriculum provided and capable faculty members. However, only 12% students were not satisfied. In the same way, 67% of graduating students appreciated the program was good in provision of suitable environment for learning, extracurricular activities, team work under adequate infra-structure, whereas only 20% students showed unsatisfactory report. A huge percentage of graduating students 93% mentioned that they had very good & good experiences while independent thinking, maintaining ethical values & discipline, professional development, time management, judgment and creating link of theoretical knowledge with practical work.



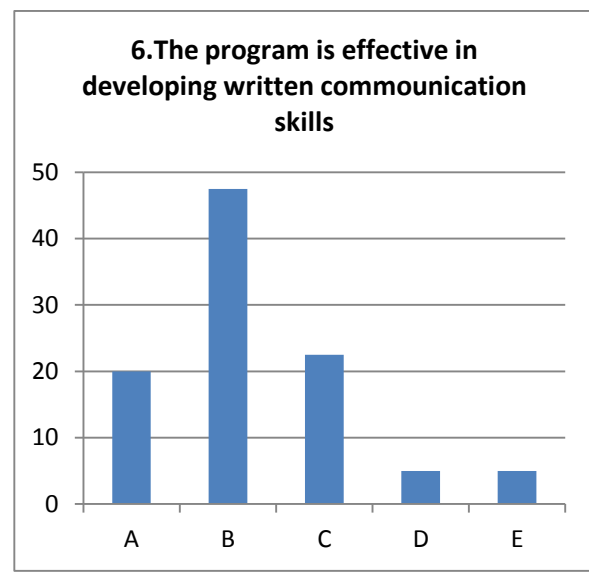
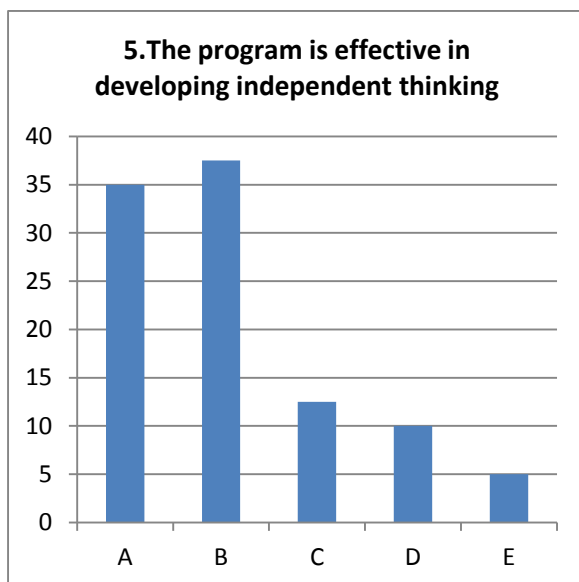
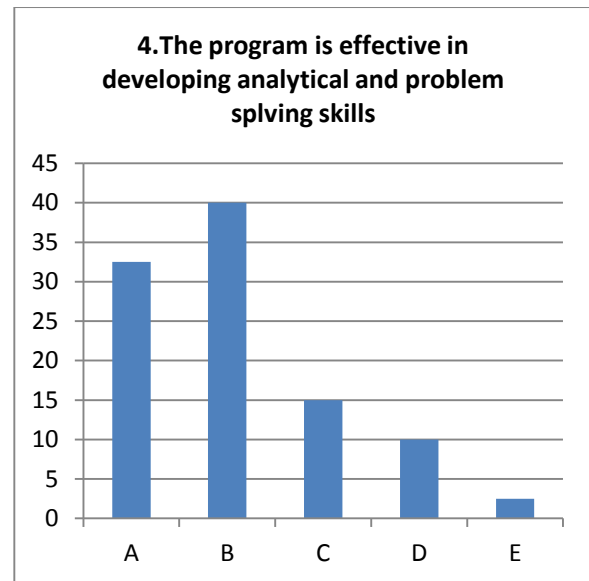
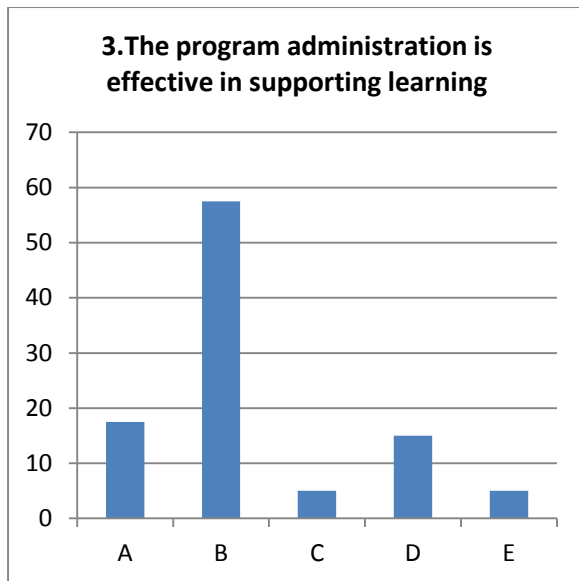
A = Very satisfactory

C = Uncertain

E = Very Unsatisfactory

B = Satisfactory

D = Unsatisfactory



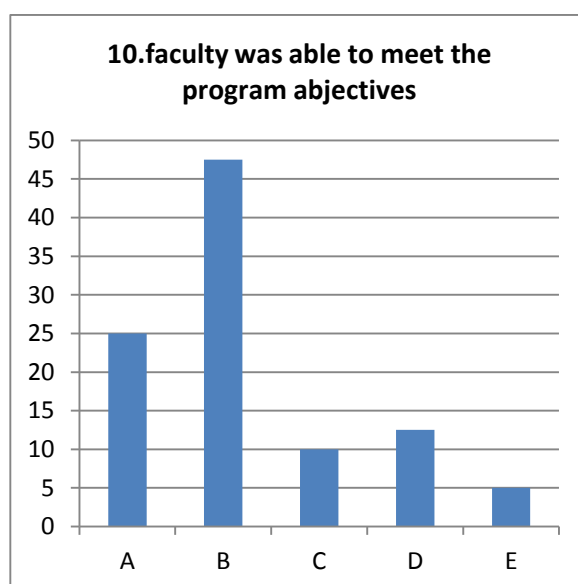
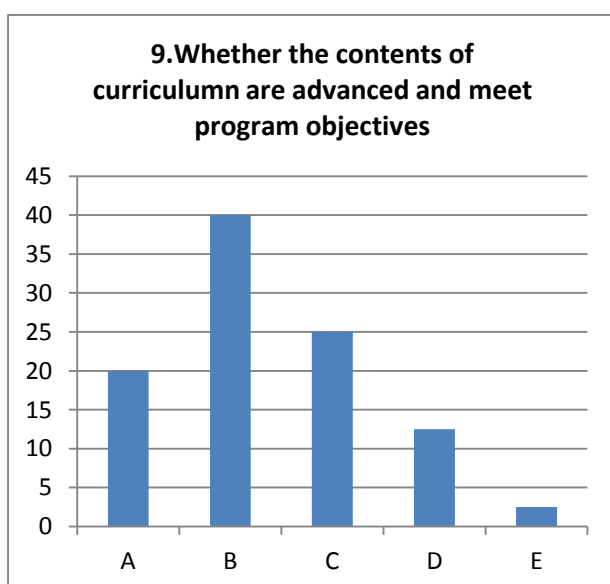
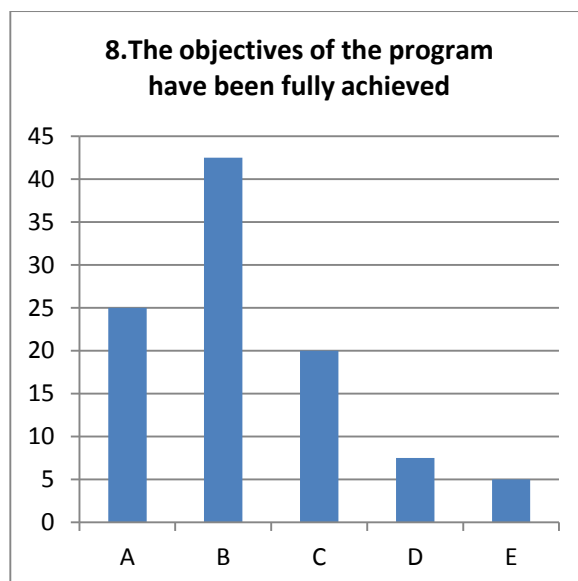
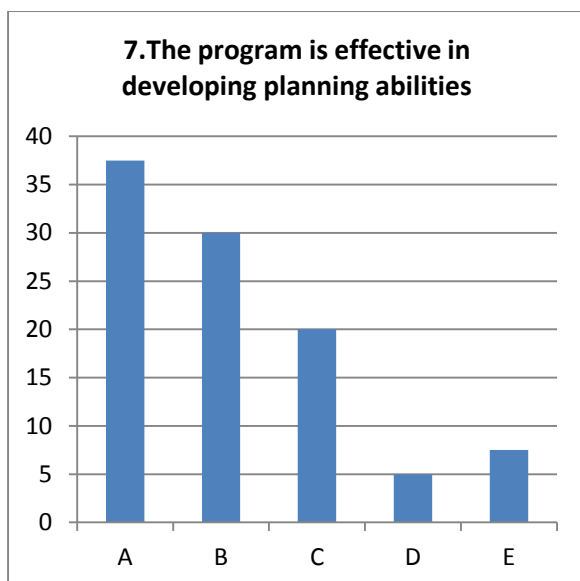
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C = Uncertain

E = Very Unsatisfactory

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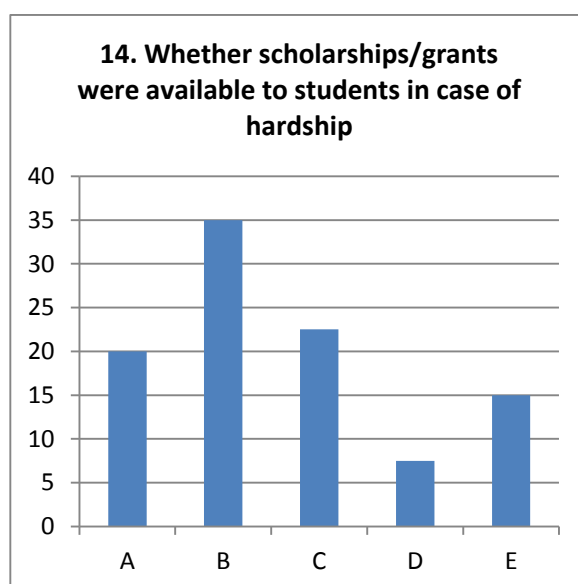
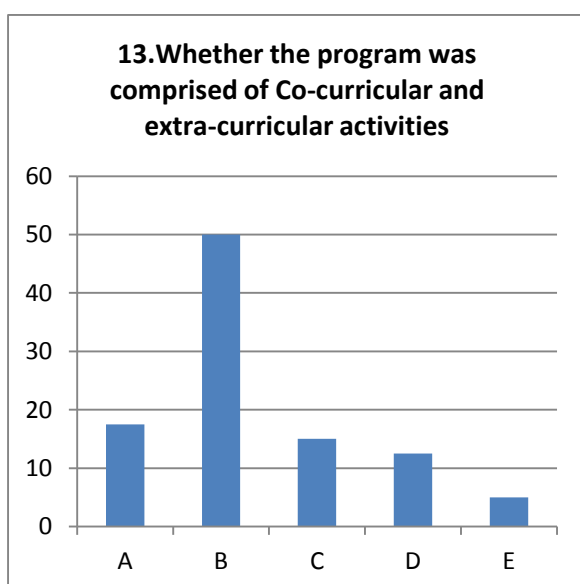
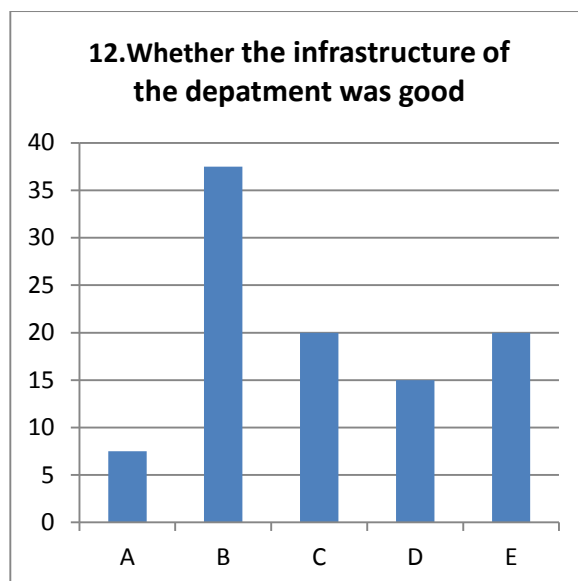
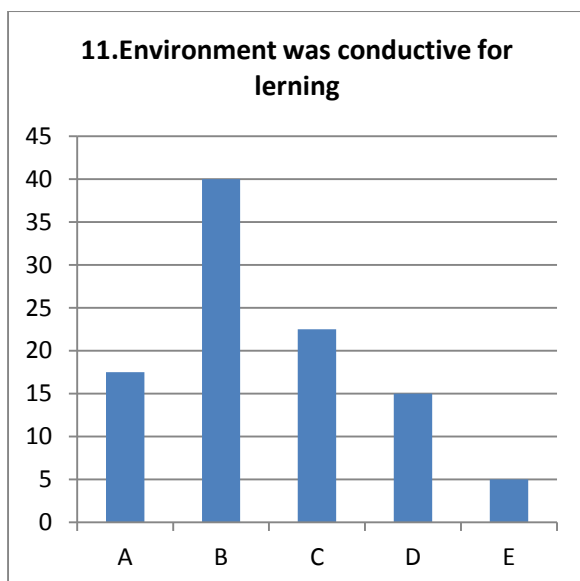
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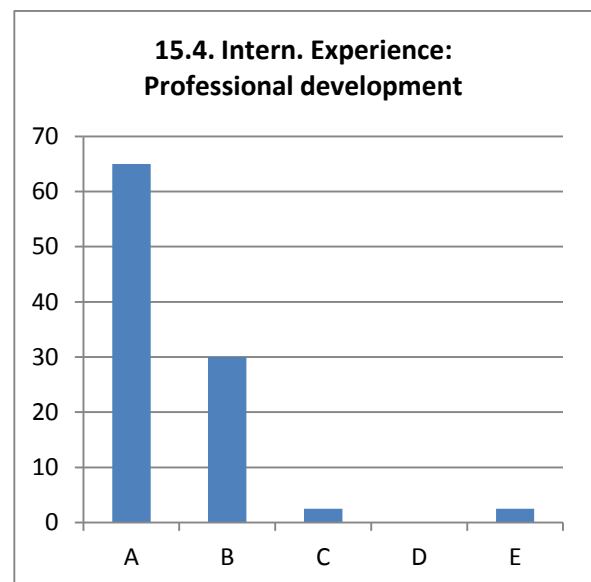
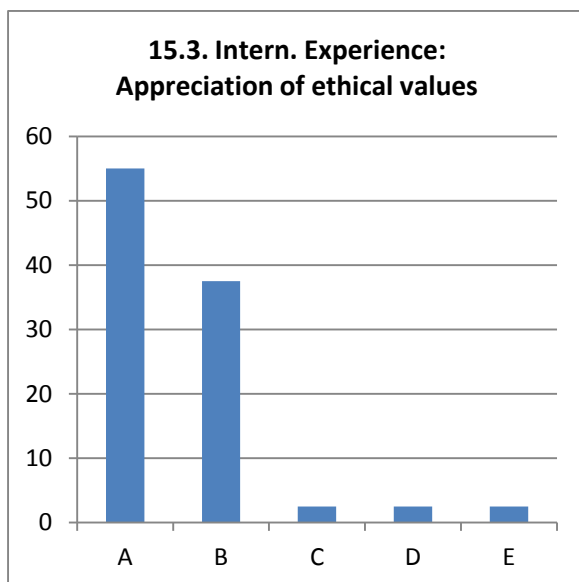
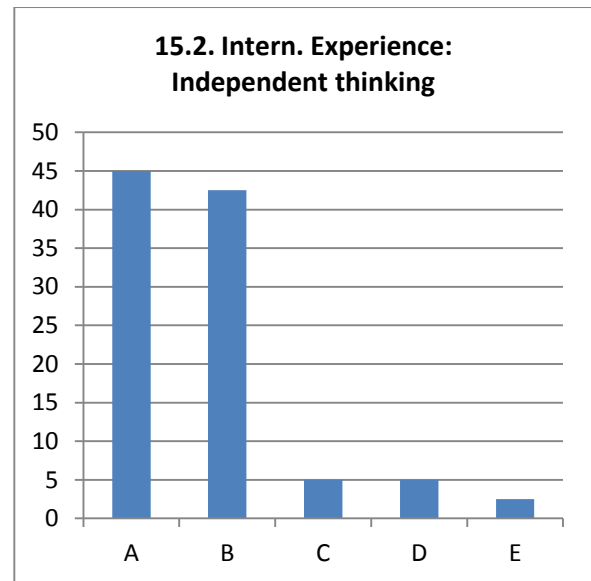
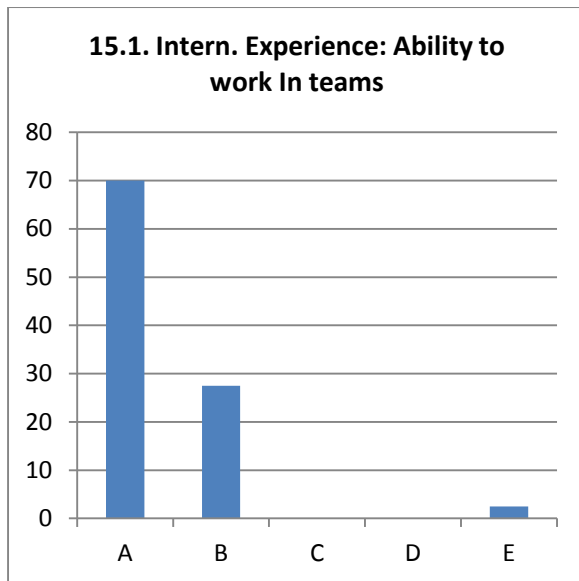
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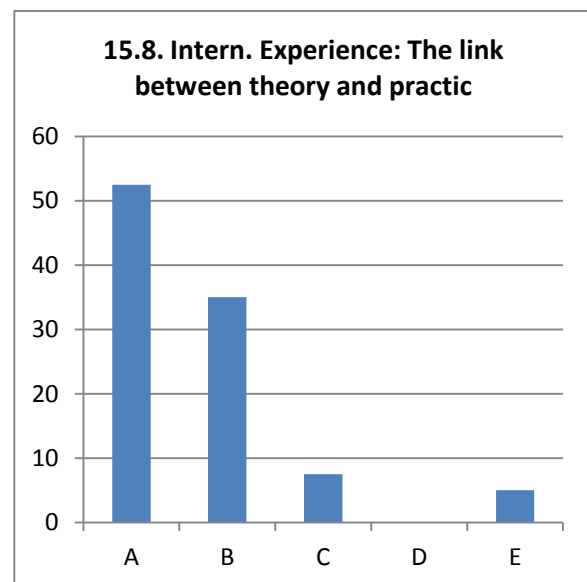
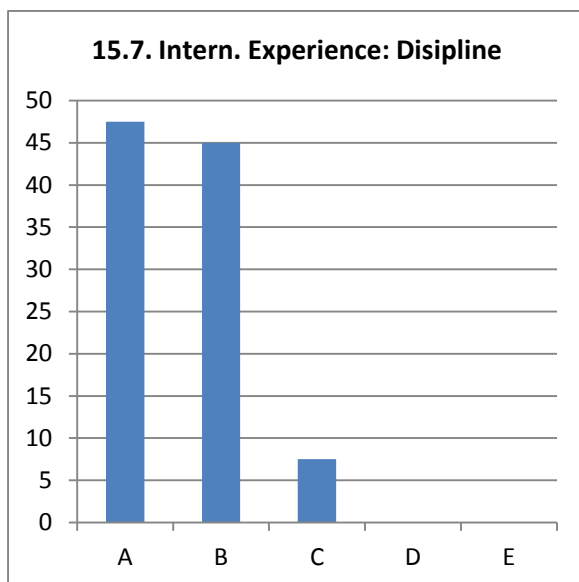
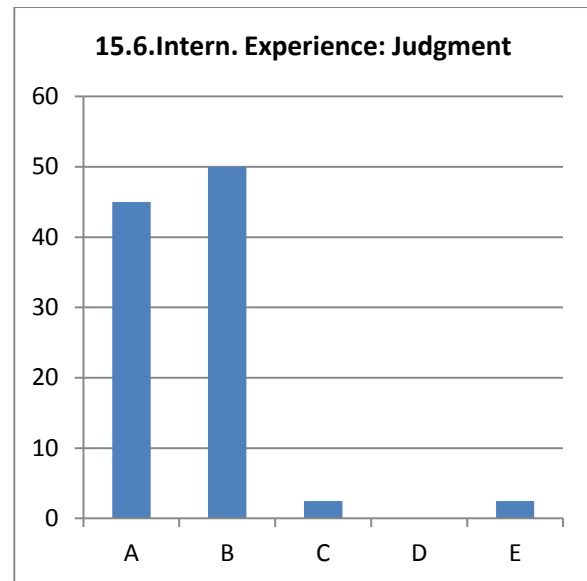
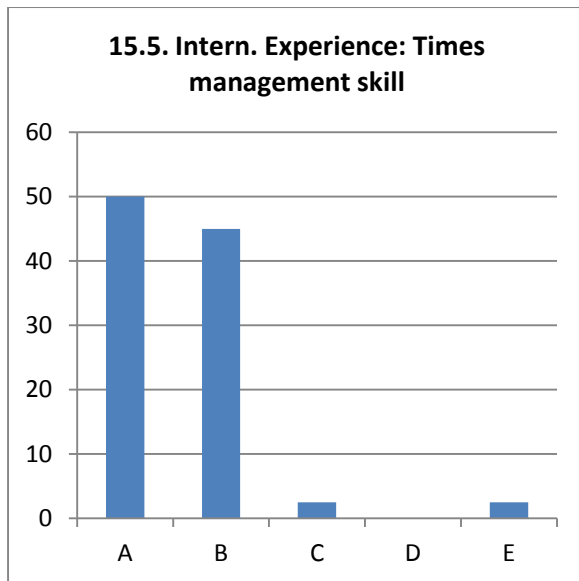
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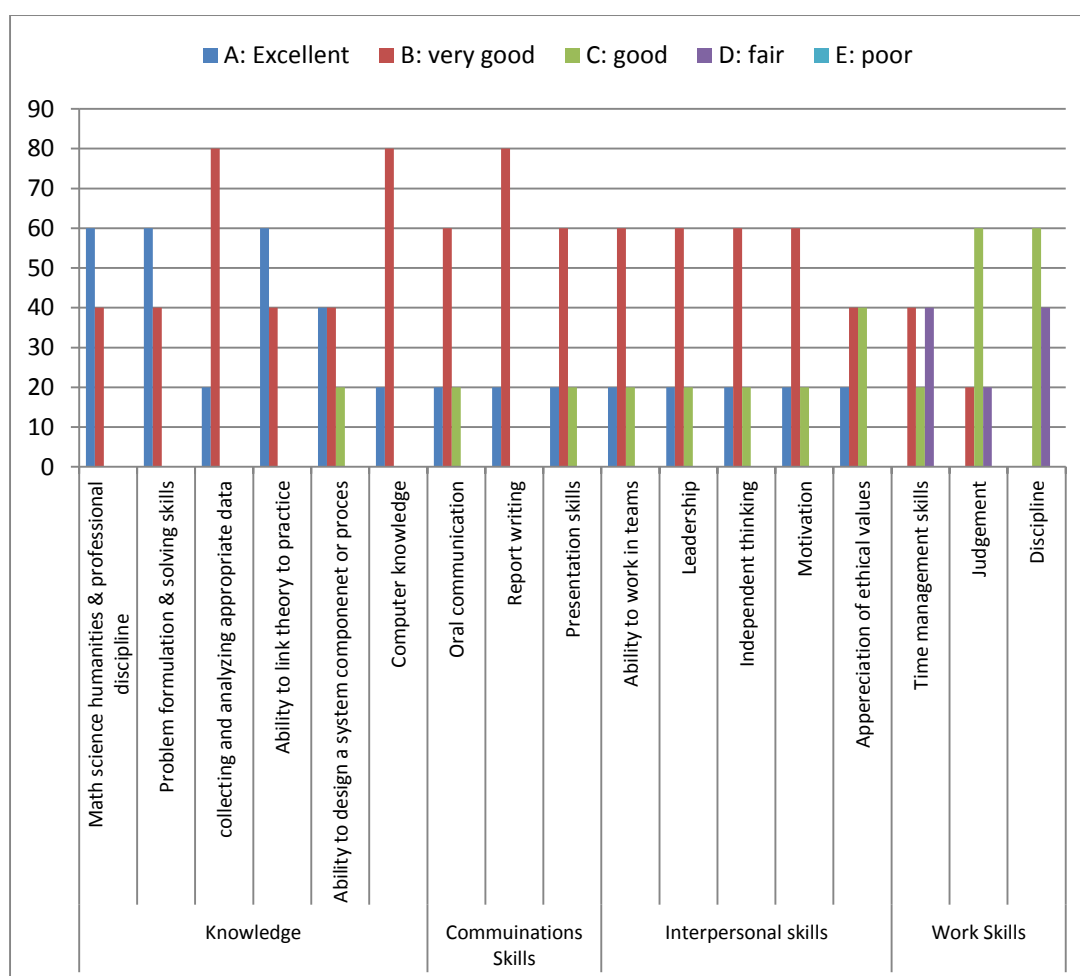


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Employer Survey

The feedback of employers of our graduates is depicted in the graph given below. The 60% and 40% employers graded our program excellent and very good in the context of knowledge but 20% reported that ability of our graduates is average in designing system component or process. Similarly, 20% appreciated our program excellent, 80% graded very good and 20% graded average in terms of communication skills. In case of interpersonal skills, 20%, 80% & 20% are satisfied/ graded A, B & C, respectively but 40% of employers reported average grade to our graduates specifically in appreciation of ethical values. However, 37% employers showed their concerns with abilities of management skills, judgment & discipline in our graduates.



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

Strength of the Program

The main strength of the program is the availability of all expertise in animal production and health with full acquaintance of their respective subjects, having vast knowledge of animal production systems. Out of the thirty faculty members, eighteen of them are holding Ph. D degree from national and international universities. The teaching faculty at different departments is expert in their respective fields. Their work has been published in national and international journals. They have also executed research projects independently. The faculty also trained manpower through NRSP and NAVTTTC short courses. The Faculty of Veterinary and Animal Science is in the developing phase. At present, laboratory equipment most essentially required are available with the faculty. In addition to this appreciable quantities of chemicals and glassware have also been procured for laboratory work.

The main strength of program is establishment of laboratories in a separate three floors building. The necessary equipment, chemical and glass ware are available in different laboratories. The experimental animals (buffalo, cattle, sheep, goats & equines) are kept in Research Farm Koont as well as in main campus for research & academic purposes. The Ostrich Farm and Dairy Research Station have been established in Main Campus. The under graduate students have good opportunities to learn practical oriented activities. A Veterinary teaching hospital is established in new building for learning and provision of treatment services to the farmers of Pothowar region. The outdoor teaching hospital is well equipped with all facilities; X-ray, ultra sound, operation theatre and modern clinics.

Weaknesses Identified in the Programme

There is also a need for short term foreign training to young faculty members. The student's survey indicates that there is a lot of room for improving communication skills and focusing on the practical aspects of all courses offered in the faculty. This is the 2nd assessment report and the FV&AS is looking forward to see the implementation of the measures.

Major future development plans:

- Post-graduate degree program in all disciplines of the faculty.
- To start problem oriented research on specific and serious problems in the animal production and health.
- To provide the consultancy services to the livestock and poultry farmers.
- To enhance the capacity building of livestock/ poultry farmers using facilities of PAK- KOICA Capacity building Centre at Main Campus PMAS- AAUR

FACULTY COURSE REVIEW REPORT

Faculty course review report was filled by each course teacher at the end of course. The results are summarized in following table.

Course No.	Title	Credit Value	Assessment Methods/ Exams	No. of Students	Comments on curriculum	Any changes for Course in Future	Semester	Grade					Course Instructor
								A	B	C	D	F	
AN-102	Principals of the Animal Nutrition	3(2-2)	Mid and Final Term	68	Satisfied	Not proposed earlier	Spring	0	7	39	19	33	Dr. Tanveer Ahmad
AN-201	Animal Feeds and Fodders	3(2-2)	Mid and Final Term	5	Contents are fine	Not proposed	Fall	0	0	50	50	0	Dr. Tanveer Ahmad
AN-202	Nutrient Requirements of the livestock and Poultry		Mid and Final Term	22	Objectives were met	NA	Spring	0	0	18	14	64	Dr. Tanveer Ahmad
AN-301	Feed Evaluation Formulation and processing technology	3(2-2)	Mid and Final Term	3	Course is well designed	Not proposed	Fall	0	33	67	0	0	Dr. Tanveer Ahmad
AN-302	Feed Evaluation Formulation and processing technology	3(2-2)	Midterm, Assignment, Final Term(practical and theory)	45	No	No	Spring	0	23	57	10	0	Dr. Tanveer Ahmad
ABG-102	Introduction to Animal Breeding and Genetics	4(3-2)	Mid and Final Term	68	Contents need revision	Up gradation needed	Spring	0	7	39	19	33	Dr. Ghulam Bilal
ABG-	Principals of the	4(3-2)	Mid and Final	2	Assessment	NA	Fall	0	10	0	0	0	Dr.

201	Genetics and Population		Term		is effective				0				Ghulam Bilal
ABG-202	Animal Breeding Plans and Policies	3(2-2)	Mid and Final Term	1	NA	NA	Spring	100	0	0	0	0	Dr. Ghulam Bilal
LM-101, LM-402	Introduction to Livestock Management	2(1-2)	Mid and Final Term	70	Good	NA	Fall	2	25	28	8	7	Dr. M. Fiaz
LM-202	Small Ruminant production	2(1-2)	Mid and Final Term	62	NA	NA	Spring	74	21	4	0	0	Dr. Ghulam Bilal
LM-301	Dairy Products	3(2-2)	Mid and Final Term	44	NA	Not proposed	Fall	7	17	20	0	0	Dr. M. Fiaz
LM-302	Equine Production and Management	3(2-2)	Mid and Final Term	45	NA	Not proposed	Spring	73	22	5	0	0	Dr. Ghulam Bilal
LM-304	Dairy Products and Processing Technology	3(2-2)	Mid and Final Term	40	NA	Not proposed	Spring	40	26	14	0		Dr. M. Fiaz
LM-402	Livestock Farm Operations	5(1-8)	Mid and Final Term	41	NA	NA	Spring	19	19	3	0	0	Dr. M. Fiaz
PS-101	Introduction to Poultry Production	2(1-2)	Mid and Final Term	141	Fine	NA	Fall	6	30	33	16	17	Mr. Zaib-Ur-Rehman

PS-201	Poultry Breeding and Hatchery Management	2(1-2)	Mid and Final Term	107	Satisfied	NA	Fall	1	21	36	29	14	Mr. Zaib-Ur-Rehman
PS-302	Poultry Housing and Farm Management	3(2-2)	Mid and Final Term	61	Satisfied	NA	Spring	7	61	21	0	0	Mr. Zaib-Ur-Rehman
PS-501	Poultry Farm Operations	5(1-8)	Mid and Final Term	41	Satisfied	NA	Fall	15	63	22	0	0	Mr. Zaib-Ur-Rehman
ANAT-101	General & Systemic Anatomy	4(1-6)	Mid and Final Term	133	good	provision of the modern facilities	Fall	4	29	50	5	13	Mr. Zeshan Akbar
ANAT-102	Comparative Anatomy	4(1-6)	Mid and Final Term	63	good	increase in credit hours of the course	Spring	2	22	41	13	22	Mr. Zeshan Akbar
ANAT-103	General Veterinary Histology and Embryology	3(1-4)	Mid and Final Term	128	credit hours should be increased	course should have more theory credit hours	Fall	9	32	37	16	6	Dr. Riaz Hussain Pasha
ANAT-104	Systemic Veterinary Histology		Mid and Final Term	116	credit hours should be increased	use of multimedia for tissue demonstration		6	24	32	8	14	Dr. Riaz Hussain Pasha
PHYS-101	Cardiovascular, Respiratory & renal	3(2-2)	Mid and Final Term	128	Well designed	Present method is	Fall	6	61	31	8	10	Dr. Mansoor

	Physiology					good							Abdulla
PHYS-102	Physiology of digestion and lactation	4(3-2)	Mid and Final Term	114	well structured	no change required	Spring	8	48	26	12	6	Mrs. Sumaira Hassan
PHYS-201	Endocrinology & Neuro-muscular Physiology	3(1-4)	Mid and Final Term	62	well structured	no change required	Fall	8	33	51	3	2	Dr. Mansoor Abdulla
PHRAM-202	General Pharmacology and Pharmaceutics	3(2-2)	Mid and Final Term	48	Course objective was achieved	NA	Spring	0	25	40	17	19	Mr. Asif Riaz
PHRAM-301	Systemic Veterinary Pharmacology and therapeutics	3(2-2)	Mid and Final Term	44	curriculum is according to the HEC	NA	Fall	9	25	36	27	2	Dr. Mazar Ul Haq
MED-302	General Medicine	3(2-2)	Mid and Final Term	40	Nil	NA	Spring	10	41	40	4	5	Dr. M Arif Zafar
MED-304	Dairy Herd health	2(1-2)	Mid and Final Term	42	No change	NA	Fall	31	28	30	9	2	Dr. Arfan Yousaf
MED-401	Systemic Veterinary Medicine		Mid and Final Term	40	Well organized	changes has been incorporated	Fall	28	46	22	5	4	Dr. Arfan Yousaf

MED-402	Systemic Medicine	3(2-2)	Mid and Final Term	51	No change	Fine	Fall	10	70	20	0	0	Dr. M Yaqoob
MED-403	Medince Clinic I	2(0-4)	Final Term	42	balanced and well organized	increase in practical credit hours needed	Fall	39	45	14	2	0	Dr. Arfan Yousaf
MED-404	Medince Clinic II	3(0-6)	Final Term	52	balanced and well organized	Not proposed	Spring	15	74	11	0	0	Dr. M Arif Zafar
MED-505	Medince Clinic III	3(0-6)	Final Term	40	balanced and well organized	NA	Fall	10	44	33	5	8	Dr. M Arif Zafar
MED-501, 503, 505			Mid and Final Term		Contents are well managed	NA							
SURG-302	General Surgery	3(2-2)	Mid and Final Term	40	Contents are well managed	Not proposed	Spring	0	32	53	0	16	Dr. M Arif Zafar
SURG-401	Large Animal Surgery	2(1-2)	Mid and Final Term	42	Ok	Not proposed	Fall	0	15	63	11	11	Dr. M Arif Zafar
SURG-402	Radiology, Shoeing and Soundness	2(1-2)	Mid and Final Term	52	Good	Not proposed	Spring	8	12	60	20	0	Dr. M Yaqoob
SURG-	Surgery Clinic I	2(0-4)	Mid and Final	40	Contents are well	changes	Fall	4	4	5	5	0	Dr. M Arif

403			Term		managed	incorporated		5	5				Zafar
SURG-404	Surgery Clinic II	3(0-6)	Final Term	41	Contents are well managed	changes incorporated	Spring	34	56	7	3	0	Dr. M Yaqoob
SURG-501	Surgery Clinic III	3(0-6)	Final Term	51	Contents are well managed	changes incorporated	Fall	32	51	16	2	0	Dr. M Arif Zafar
OBGY-402	Obsteterics and Genital Diseases	4(2-4)	Mid and Final Term	41	Well organized	-	Spring	66	32	0	0	0	Mr. Mudasar Hussain
OBGY-404	Reproduction Clinics-II	3(0-6)	Final Term	41	Well organized		Spring	75	23	3	0	0	Mr. Mudasar Hussain
OBGY-501	Reproduction Clinics-III	3(0-6)	Final Term	40	Well designed	Ok	Fall	41	56	3	0	0	Mr. Mudasar Hussain
THER-302	Animal Reproduction and Artificial Insemination	3(2-2)	Mid and Final Term	45	Well organized	NA	Spring	13	38	38	0	0	Mr. Mudasar Hussain
THER-401	Veterinary Obstetrics	4(2-4)	Mid and Final Term	42	NA	NA	Fall	74	27	0	0	0	Mr. Mudasar Hussain
THER-403	Reproduction Clinic-I	2(0-4)	Mid and Final Term	42	Well designed	NA	Fall	47	38	15	0	0	Mr. Mudasar Hussain

MICR O-102	General Veterinary Microbiology	3(2-2)	Mid and Final Term	66	well structured	Efficiently involved in practical performance	Spring	9	35	36	6	6	Dr. Saif-Ur-Rehman
MICR O-201	Fundamentals of Immunology	2(1-2)	Mid and Final Term	62	Course contents are upto the mark	Efficiently involved in practical performance	Fall	58	32	6	0	0	Dr. Saif-Ur-Rehman
MICR O-202	Veterinary bacteriology and mycology	3(2-2)	Mid and Final Term	48	Nil	Nil	Spring	4	10	40	33	10	Dr. Saif-Ur-Rehman
MICR O-301	Systemic Veterinary Histology	3(2-2)	Mid and Final Term	62	NA	NA	Fall	11	48	37	2	2	Dr. Saif-Ur-Rehman
MICR O-401	Milk Hygiene and Public Health	2(1-2)	Mid and Final Term	42	Contents are up to the mark	Nil	Fall	14	69	17			Dr. Saif-Ur-Rehman
PARA-202	Veterinary Helminthology	4(3-2)	Mid and Final Term	48	Nil	Nil	Spring	8	40	35	13	4	Dr. Murtazul Hasssan
PARA-201	Veterinary Protozoology	2(1-2)	Mid and Final Term	62	well structured	NA	Fall	3	31	58	6	2	Dr. Murtazul Hasssan
PARA-102	General Veterinary Parasitology	2(1-2)	Mid and Final Term	36	Nil	Nil	Spring	0	6	56	17	22	Dr. Murtazul Hasssan

Standard 1-4: The department must assess its overall performance periodically quantifiable measures.

- The Faculty of Veterinary and Animal Sciences offered courses for DVM degree program. The quantitative assessment of the faculty is summarized in following table.

Quantitative Assessment of the Faculty

2012		2013		2014	
Student enrolled	Student faculty ratio	Student enrolled	Student faculty ratio	Student enrolled	Student faculty ratio
300	12:1	360	12:1	392	13:1

Present performance measures for research activities (2013-14)			
Faculty	Journal Publications (National & International)	Conference Publications (Proceedings Abstract)	Projects
Department of Biomedical Sciences			
Dr. Mansoor Abdullah	6	1	(1 Submitted)
Dr. Riaz Hussain Pasha	3	-	(1 Submitted)
Dr. Mazhar ul Haq	3	1	-
Mr. Mujeeb ur Rehman	-	-	-
Mr. Asif Riaz	2	-	--
Mrs. Sumaira Hassan	1	-	-
Mrs. Zeeshan Akbar	1	-	-
Department of Pathobiology			
Dr. Ali Abdullah Shah	13	-	-
Dr. Imtiaz Ahmed Khan	3	-	-
Dr. Murtaz-ul-Hasan	2	-	(1 Submitted)
Dr. Saif-ur-Rehman	1	-	-
Dr. Aayesha Riaz	-	-	-
Mr. Sajid Umer	-	-	-
Department of Clinical Studies			
Prof. Dr. Arfan Yousaf	4	-	(1 Submitted)
Dr. M. Arif Zafar	2	-	2 (1 Submitted)
Dr. Muhammad Yaqoob	5	4	(1 Submitted)

Mr. Fahad Raza Gill	-	-	-
Mr. Zahid Naseer	-	-	-
Mr. Muddussar Nawaz	-	-	-
Mr. Muhammad Shakeel	-	-	-
Department of Livestock Production and Management			
Dr. Tanveer Ahmad	6	-	1(1 Submitted)
Dr. Farooq Iqbal	1	-	(1 Submitted)
Dr. M. Moaen ud Din	4	6	6(2 Submitted)
Dr. M Fiaz	2		
Dr. Ghulam Bilal	3	2	2
Mr. Kashif Ishaq	-	-	-
Hafiz Muhammad Waheed	-	-	-
Department of Poultry Science			
Prof. Dr. M. Safdar Anjum	6	-	(2 Submitted)
Dr. Nasir Mukhtar	9	-	(2 Submitted)
Mr. Zaib-ur-Rehamn	2	-	-

Present performance measures for community services		
Short course	Seminar	Workshops
8	2	-

Criterion 2: Curriculum Design and Organization

Criterion 2: Curriculum Design and Organization

Degree title: Doctor of Veterinary Medicine (DVM)

All the courses for degree program were developed by a curriculum committee of Pakistan Veterinary and Medical Council (PVMC). The committee consists of experts and learned professors, subject-matter specialists from other universities and research organization from Pakistan. Curriculum for the DVM is revised/ updated through different bodies, when needed. At department level, Board of Studies, which is comprised of senior faculty members, is responsible for updating the curriculum. This body is authorised to formulate syllabus and course contents. The Chairman of the Department in this regard acts as a Convener. The courses are then sent to the Board of Faculty for approval. The Dean of the Faculty, being Convener of this body, conduct meeting. As per university rules, courses after the approval from the Faculty Board, are placed before the University Academic Council for final approval.

Criteria for DVM Admission

F. Sc. (Pre-medical) with 45% marks.

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). One credit hour carries 20 marks. The semester is of 16-18 weeks.

Degree Plan

The Doctor of Veterinary Medicine (DVM) degree programs is organized by the five departments of FV&AS.

Minimum Academic Requirements

A person must holding intermediate science certificate (F. Sc.-Pre-Medical) or an equivalent certificate from any recognized institute with at least second division or overall 45 % marks. The candidates domiciled in the Barani areas of Punjab are eligible for admission on district quota basis (fifty seats). However, candidates from all over the Punjab province are also eligible for 15 seats on open merit basis. The entire admission for DVM degree program is strictly based on the marks obtained in F. Sc. (Pre-medical). In the faculty degree program 50 seats are also allocated for evening classes.

Degree Requirements:

As a whole, a student has to study 213 credit hours. The final semester includes internship of 15 credit hours. Students for internship are placed in research institutes, animal farms, feed mills etc., to learn techniques practically. Degree is awarded after completing the required number of credit hours (courses) followed by internship report and its presentation. Minimum

Grade Point Average for obtaining the degree is 2.50. To remain on the roll of the university a student shall be required to maintain the following minimum GPA/CGPA in each semester.

Semester	CGPA
First	0.75
Second	1.00
Third	1.25
Fourth	1.50
Fifth	1.75
Sixth	2.00
Seven	2.00
Eight	2.25
Nine	2.25
Tenth	2.50

Examination & Weight age:

Theory

In theory paper, student's evaluation is done by mid-term examination, assignments/quizzes and final examination. Both the mid-term and final examinations are compulsory. A student, who misses the mid-term examination, is not allowed a make-up examination and is awarded zero marks in that examination. In case a student does not appear in the final examination of a course, he shall be deemed to have failed in that course. In theory, weightage to each component of examination is as prescribed here under:

Mid Examination 30%, Assignments 10%, Final Examination 60%

Practical

For practical examination (if applicable) 100% weightage is given to practical final examination.

Eligibility for Examination:

A student is eligible to appear in the examination provided he/she has attended at least 75% classes in theory and practical, separately. The minimum pass marks for each course are 40% for undergraduate.

Scheme of studies and Course contents of DVM courses

The following is the list of courses offered to DVM students.

1. **Courses offered to DVM students**

1ST SEMESTER

COURSE NO.	COURSE TITLE	Credit Hours
ANAT-101	General and Systemic Anatomy	4(1-6)
ANAT-103	General Veterinary Histology and Embryology	3(1-4)
BCH-101	General Biochemistry	3(2-2)
PHYS-101	Cardiovascular, Respiratory and Renal Physiology	3(2-2)
IT-101	Computer Applications	1(0-2)
LM-101	Introduction to Livestock Management	2(1-2)
PS-101	Introduction to Poultry Production	2(1-2)
IS-101/ET-101	Islamic Studies/Ethics	1(1-0)
ENG-101	English - I (Functional English)	2(2-0)
	Total	21(11-20)

2ND SEMESTER

COURSE NO.	COURSE TITLE	Credit Hours
ANAT-102	Comparative Anatomy	4(1-6)
ANAT-104	Systemic Veterinary Histology	3(1-4)
MICRO-102	General Veterinary Microbiology	3(2-2)
PARA-102	General Veterinary Parasitology	2(1-2)
PHYS-102	Physiology of Digestion and Lactation	3(2-2)
BCH-102	Biochemistry of Metabolism	2(2-0)
ABG-102	Introduction to Animal Breeding and Genetics	4(3-2)
AN-102	Principles of Animal Nutrition	3(2-2)
SSH-102	Pakistan Studies	1(1-0)
	Total	25(15-20)

3RD SEMESTER

COURSE NO.	COURSE TITLE	Credit Hours
PATH-201	General Veterinary Pathology	4(3-2)
PARA-201	Veterinary Protozoology	2(1-2)
BCH-201	Molecular Biology	3(2-2)
MICRO-201	Fundamentals of Immunology	2(1-2)
AN -201	Animal Feed Resources and Forage Conservation	3(2-2)
PHYS-201	Endocrinology and Neuromuscular Physiology	3(1-4)
PS-201	Poultry Breeding and Hatchery Management	2(1-2)
ENG-201	English - II (Communication Skills)	2(2-0)
MATH-201	Mathematics	2(2-0)
	Total	23(15-16)

4TH SEMESTER

COURSE NO.	COURSE TITLE	Credit Hours
PATH-202	Systemic Veterinary Pathology	4(3-2)
PARA-202	Veterinary Helminthology	4(3-2)
MICRO-202	Veterinary Bacteriology and Mycology	3(2-2)
PHARM-202	General Veterinary Pharmacology and Pharmaceutics	3(2-2)
ZOOL-202	Introduction to Fisheries and Aquaculture	2(1-2)
LM-202	Small Ruminant Production	2(1-2)
AN-202	Poultry Nutrition	2(1-2)
STAT-202	Biostatistics	3(2-2)
	Total	23(15-16)

5TH SEMESTER

COURSE NO.	COURSE TITLE	Credit Hours
PHARM-301	Systemic Veterinary Pharmacology and Therapeutics	3(2-2)
MICRO-301	Systemic Veterinary Virology	3(2-2)
PARA-301	Veterinary Entomology	3(2-2)
AEC-301	Livestock Economics and Business Management	3(3-0)
PATH-301	Necropsy Practices	1(0-2)
AN-301	Ruminant Nutrition	2(1-2)
ABG-301	Animal Breeding Plans and Policies	3(2-2)
LM-301	Dairy Production	3(2-2)
AE-301	Livestock Extension Education	2(2-0)
	Total	23(16-14)

6TH SEMESTER

COURSE NO.	COURSE TITLE	Credit Hours
MED-302	General Veterinary Medicine	3(2-2)
MED-304	Dairy Herd Health	2(1-2)
SURG-302	General Veterinary Surgery &Anesthesiology	3(1-4)
SURG-304	Diagnostic Imaging	2(1-2)
THER-302	Animal Reproduction & Artificial Insemination	3(2-2)
LM-302	Equine and Camel Production	2(1-2)
LM-304	Dairy Technology	3(2-2)
AN-302	Feed Evaluation, Formulation and Processing	3(2-2)
PHARM-302	Veterinary Toxicology and Chemotherapy	2(1-2)
PS-302	Poultry Housing and Farm Management	3(2-2)
	Total	26(15-22)

7th SEMESTER

COURSE NO.	COURSE TITLE	Credit Hours
SURG-401	Large Animal Surgery	2(1-2)
MED-401	Systemic Veterinary Medicine - I	3(3-0)
MED-405	Technical Report Writing and Presentation	2(2-0)
PATH-401	Meat Hygiene and Public Health	2(1-2)
MICRO-401	Milk Hygiene and Public Health	2(1-2)
THER-401	Veterinary Obstetrics and Genital diseases	4(2-4)
LM-401	Beef Production	2(1-2)
MED-403	Medicine Clinic - I	2(0-4)
SURG-403	Surgery Clinic - I	2(0-4)
THER-403	Reproduction Clinic - I	2(0-4)
	Total	23(11-24)

8TH SEMESTER

COURSE NO.	COURSE TITLE	Credit Hours
THER-402	Introduction to Reproductive Biotechnologies	2(2-0)
MED-402	Systemic Veterinary Medicine - II	3(3-0)
MED-406	Lab and Zoo animal Management	1(1-0)
FT-404	Meat and Slaughter By products Technology	3(2-2)
PATH-402	Forensic Medicine & Jurisprudence	1(1-0)
PATH-404	Veterinary Clinical Pathology	2(0-4)
MICRO-402	Veterinary Epidemiology and Public Health	3(2-2)
SURG-402	Shoeing and Soundness	2(1-2)
SURG-404	Small Animal Surgery	3(1-4)
THER-404	Reproduction Clinic - II	2(0-4)
MED-404	Medicine Clinic - II	2(0-4)
SURG-406	Surgery Clinic - II	2(0-4)
	Total	26(13-26)

9TH SEMESTER

COURSE NO.	COURSE TITLE	Credit Hours
PATH-501	Poultry Pathology	3(1-4)
THER-501	Reproduction Clinic - III	2(0-4)
MED-501	Medicine Clinic – III	2(0-4)
SURG-501	Surgery Clinic – III	2(0-4)
AN-501	Feed Mill Operation	2(0-4)
PS-501	Poultry Farm Operations	2(0-4)
LM-501	Livestock Farm Operations	2(0-4)
	Total	15(1-28)

10TH SEMESTER

COURSE NO.	COURSE TITLE	Credit Hours
INTERNSHIP	Internship	10(0-20)

Standard 2-1: The curriculum must be consistent and support the program's documented objectives

The assessment of curriculum is given in the following table and the courses are cross tabulated according to the program outcomes.

Courses versus program objectives

Courses	Program Objectives		
	1	2	3
LM-101, ANAT-101, ANAT-102, PHYS-101, PHYS-102, PHARM-202, PHARM-301, PHARM-302, PATH-201, MICRO-201, PARA-201,	+++	++	++

LM-301, LM-302, LM-401, PHYS-102, LM-304, PS-202, PARA-202. MICRO-202, PARA-301MED-403, MED-304	+++	+++	+++
SURG-302, OBGY-202, OBGY-401,	++++	++	++
LM-402, ANAT-103, SURG-501, SURG-504, PARA-301	++++	+++	++++
AN-102, AN 201, PS-501, OBGY-404, OBGY-501, MICRO-301, MICRO-401	++	+++ +	++++
AN-202, AN-301, ANAT-104, MED-404, PATH-501, PATH-503	+	+++	++++
ABG-201, ABG-202, MED-302, MED-503, MED-505, PATH-403	++	+++	++++

+ = Relevant, ++ = Relevant & satisfactory, +++ = Very relevant & Very satisfactory, ++++ = Highly relevant & Highly satisfactory, NA= Not applicable

Standard 2-2: Theoretical backgrounds, problem analysis and solution design must be stressed within the program's core material.

Elements	Courses
Theoretical background	AN-102, AN-201, ABG-102, ABG-201, LM-101, ANAT-101, PATH-201, MICRO-201, PARA-201, ANAT-102, PHYS-101, PHYS-201, PHARM-202, SURG-302, OBGY-202, OBGY-401, PHARM-301, PHARM-302, PARA-202. MICRO-202, PARA-301
Problem analysis	AN-202, AN-301, ABG-201, ABG-202, LM-304, , PS-501, OBGY-404, OBGY-501, ANAT-101, ANAT-102, PHYS-101, PHYS-201, PHARM-202, PHARM-301, PHARM-302, PS-501, OBGY-404, OBGY-501, PATH-202, PATH-401, MICRO-401,
Solution design	AN-202, AN-301, ABG-202, LM-301, MED-302, MED-503, MED-505, , PS-501, OBGY-404, OBGY-501, MED-302, MED-503, ED-505

Standard 2-3: The curriculum must satisfy the core requirements for the program, as specified by the respective accreditation body.

The FV&AS is following the curriculum and course contents as approved by the Pakistan Veterinary and Medical Council, which is the sole accreditation body for DVM degree programs.

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

The curriculum also satisfy well the general and professional as well as other discipline requirements for the programme according to the demands and requirements set by HEC.

Standard 2-5: The curriculum must satisfy general education, arts, and professional and other discipline requirements for the program, as specified by the respective accreditation body/council.

The courses offered by the departments at FV&AS are the core courses for the degree of DVM. These courses also satisfied the general requirements for gaining knowledge and skills in the field of livestock production and management.

Standard 2-6: Information technology component of the curriculum must be integrated throughout the program.

The course contents of AN-201, AN-202, AN-301, LM-301, LM-402, ABG-201 and ABG-202, PS-501, PHYS-201 contain information technology components. The AN courses involve the use of different feed formulation software for least cost feed formulation and feasibility report preparation for feed mill and computerized feed milling. The use of statistical and animal modeling packages is the important component of ABG courses.

Standard- 2.7: Oral and written communication skills of the student must be developed and applied in the program.

Assignments are given to students on specific titles (part of the course) which are presented orally and are submitted as written report, to increase their oral and written communication skills.

CRITERION 3: LABORATORIES AND COMPUTING FACILITIES

CRITERION 3: LABORATORIES AND COMPUTING FACILITIES

The information about the laboratories at FV&AS is as under.

Location	Room size sq. ft	Used as lab for practical's for
GROUND FLOOR		
Class Room	32×40	For practical's and theory classes of relevant subjects
Outdoor Clinics	32×40	
Phantom Hall	39×27	
Prep Room	20×11 (2)	
X-ray room	28×19	
Operation theater	39×27	
Necrospy lab	32×40	
Anatomy lab	28×39	
Epidemiology lab	28×19	
Anatomy Research lab	28×19	
Clinical Pathology lab	28×19	
I ST FLOOR		
Class Room	32×40	For practical's and theory classes of relevant subjects
	41×27	
Class room	28×44	
Central Lab.	28×20	
Library	32×40	
Histology Lab	32×40	
General Physiology	28×45	
Phramacology	41×27	
Endocrinology and Biochem	32×40	
Histology Res.Lab	28×19	
ParthoRes.Lab	28×19	
General Parasitology	20×28	
Parasitology Research lab.	20×28	
Physiology Research lab.		

2ND FLOOR		
Class room.	28x29	For practical's and theory classes of relevant subjects
Class room.	28x44	
Seminar room	32x40	
Computer lab.	28x39	
Microbiology	32x40	
LM Res. Lab.	39x19	
ABG lab.	20x27	
Livestock Management Lab.	41x27	
Feed technology Lab.	41x27	
AN Lab.	28x19	
Dairy /Meat Lab	28x19	
Poultry Res. Lab.	32x19	
Poultry teaching.	32x40	
Bacteriology & Virology	32x19	
Pet Clinic/Veterinary Animal Teaching Hospital		MED-401, MED-402, MED-403, MED-404, MED-501
Reception, Animal holding, Examination area, Pharmacy, Isolation unit		
Koont Teaching/Veterinary Hospital		MED-401, MED-402, MED-403, MED-404, MED-501,
Reception, Animal holding, Examination area, Pharmacy &		SURG-401, SURG-402, SURG-404, SURG-403, SURG-501,
Experimental Animal Farm Main Campus PMAS AAUR		OBGY-202, OBGY-401, OBGY-402, OBGY-403, OBGY-404, OBGY-501

- **Location and Area:** Faculty of Veterinary and Animal Sciences, Main Campus, PMAS-AAUR.
- **Objectives:** Laboratories are used for practical exercises and demonstrations to graduate students in their introductory and major courses.
- **Adequacy for instruction:** These laboratories and class rooms are being used for the undergraduate students. These laboratories are sufficient to fulfill all courses requirements. These laboratories are independent one and therefore separate labs are required for each discipline of DVM. However, they are spacious and adequate for practical work when class size is around 30 students. The laboratories have standard

requirements in view of equipment, available resources and expansion program. However, latest apparatus for different sort of analyses like blood, feed analysis, milk analysis, post-mortem facilities are present in the concerned laboratories.

- **Courses taught:** Indicated in the above table.
- **Software available:** Feed formulation software like UFFF, UFDA, WinFeed, NRC and statistical packages like SPSS and SAS are available.

• **Major apparatus and equipment:**

S. No	Department	Equipment Model/Make	Specification	No .	Used in practical of courses
1.	Histology	Binocular Microscope	Olympus CS21FS1	20	ANAT-103, 104
2.		Cryostat (microtome)	Starlet – 2212	1	ANAT-103, 104
3.		Tissue Grinder set	Model Wheaton, USA	1	ANAT-103, 104
4.		Specimen slides	For Histology	40	ANAT-103, 104
5.		Projection microscope (with camera, projector & screen)	Meiji Model MX4000	1	ANAT-103, 104
6.		Stage and ocular micrometers	Japan	2	ANAT-103, 104
7.		Balance Electronic Digital Top loading 220	BL-220 H Shimaduz	1	ANAT-103, 104
8.		Rotary Microtome TECS Embedding Consol System	Tissue-TEK Rotary	1	ANAT-103, 104
9.		Auto Staining unit	Tissue-TEK	1	ANAT-103, 104
10.		Refrigerator	Waves (double door)	1	ANAT-103, 104
11.		Slides Boxes Wooden	For 100 slides	10	ANAT-103, 104
12.		Dissection set	Standard	2	ANAT-103, 104
13.		Dissection microscopes	CZM 6 Labomed, USA	2	ANAT-103, 104
14.		Computer P-IV, Laser Jet Printer	Intel original 3.06 GHz P-4	1	For document preparation, data analysis
15.		Overhead Projector	Two 350Watt	2	ANAT-103,

S. No	Department	Equipment Model/Make	Specification	No .	Used in practical of courses
16.	Gross Anatomy	Deep Freezers	Halogen lamps	1	104
17.		Dissection set	Waves	15	ANAT-101, ANAT-103
18.		Pan Balance	Standard, Local	1	ANAT-101, ANAT-103
19.		Overhead Projector	Model SC-4020	1	ANAT-101, ANAT-103
20.		Dissecting Table	Two 350 Watt Halogen lamps	1	ANAT-101, ANAT-103
21.		Skeleton of Goat	6' x 3'	5	ANAT-101, ANAT-103
22.		Skeleton of Goat	Disarticulated	5	ANAT-101, ANAT-103
23.		Skeleton of Dog	Articulated	1	ANAT-101, ANAT-103
24.		Skeleton of Ox	Articulated	1	ANAT-101, ANAT-103
25.		Skeleton of Ox	Disarticulated	1	ANAT-101, ANAT-103
26.		Skeleton of Horse	Articulated	1	ANAT-101, ANAT-103
27.		Skeleton of Horse	Disarticulated	1	ANAT-101, ANAT-103
28.		Plastic Drum	Articulated	1	ANAT-101, ANAT-103
29.		Artery Foreceps	50 L	5	ANAT-101, ANAT-103
30.		Artery Forceps	Medium	3	ANAT-101, ANAT-103
31.		Plain Forceps	Small	3	ANAT-101, ANAT-103
32.		Saw (For cutting	9'	4	ANAT-101, ANAT-103
			8'	1	ANAT-101,

S. No	Department	Equipment Model/Make	Specification	No .	Used in practical of courses
	Physiology	bones)			ANAT-103
33.		Saw (For cutting bones)	2'	1	ANAT-101, ANAT-103
34.		Rib Cutter	Standard Size	2	ANAT-101, ANAT-103
35.		Sheerer	Large Sized	1	ANAT-101, ANAT-103
36.		Stethoscope	Standard, Germany	5	PHYS-101, 102
37.		Verinier Callipers	Manual	3	PHYS-101, 102
38.		Sonicator	E-60H Germany		PHYS-101, 102
39.		Stage and ocular micrometers	Japan	10	PHYS-101, 102
40.		Analytical Balance	Sartorius, CP 224S		PHYS-101, 102
41.		Hemoglobin Meter	HG202 Apel Japan	3	PHYS-101, 102
42.		Hemoglobin Meter (sahlis) and Haemocytometers	Model 32430, Germany	5	PHYS-101, 102
43.		CO2 gas cylinder	Standard	1	PHYS-101, 102
44.		Olympus Binocular Microscope	CS21FS1	5	PHYS-101, 102
45.		Binocular Microscopes	E100, Nikon	5	PHYS-101, 102
46.		Digital Kymograph & Electrocardiogram	T-425-2120	1	PHYS-101, 102
47.		Refrigerators	Waves (double door)	1	PHYS-101, 102
48.		Slides Boxes Wooden	For 100 slides	5	PHYS-101, 102
49.		Dissection set	Standard	2	PHYS-101,

S. No	Department	Equipment Model/Make	Specification	No .	Used in practical of courses
					102
50.		Electronic Balance	Sartorius CP 324S	1	PHYS-101, 102
51.		Ultra- Violet Lamp	LF-206LS	1	PHYS-101, 102
52.		Vacuum pump with filtering unit built	Complete Set	1	PHYS-101, 102
53.		Mini-gel Electrophoresis	CAT 1011000	1	PHYS-101, 102
54.		Digital Cell Counter	DBC-8E	1	PHYS-101, 102
55.		BP Apparatus	K303T Japan	5	PHYS-101, 102
56.		Regodigit oven	s Model ML-865 Type 219	1	
57.		Oven universal Memmert digital	Memmert Germany	1	PHAR-201, 301
58.		Eppendorf pipette	S#408.0579	1	PHAR-201, 301
59.		Tissue homogenizer	Model HG-15A	1	PHAR-201, 301
60.		Distill water distiller	Serial no PBI 59789	1	PHAR-201, 301
61.		Centrifuge (clinical type)	Labofuge-200	1	PHAR-201, 301
62.		CO ₂ incubator	Sanyo model # MCO-15AC	1	PHAR-201, 301
63.		pH meter	Model pH-2002 Korea	1	PHAR-201, 301

S. No	Department	Equipment Model/Make	Specification	No .	Used in practical of courses
64.		Vortex mixture	Model # VM-10 Germany	1	PHAR-201, 301
65.		Computer P-IV, Laser Jet Printer	Intel original 3.06 GHz P-4	1	PHAR-201, 301
66.		Desiccators with pump	30 cm dia	2	PHAR-201, 301
67.	Microbiology	Autoclave (Horizontal)	Model ASB260T	1	MICRO-201, 202
68.		Binocular Light Microscope	E-100, Nikon	5	MICRO-201, 202
69.		BOD Incubator	Lovibond AP-210904	1	MICRO-201, 202
70.		Centrifuge (Clinical)	Labofuge-200 4000RPM	1	MICRO-201, 202
71.		Electronic Balance	Model CP 32 4S Sartorius	1	MICRO-201, 202
72.		Instrument Sterilizer	IS-825C, Local	1	MICRO-201, 202
73.		Overhead Projector	Two 350 Watt Halogen lamps	1	MICRO-201, 202
74.		Projection microscope (with camera, projector & screen)	MX-4000 Meiji	1	MICRO-201, 202
75.		Slides Boxes Wooden	For 100 slides	10	MICRO-201, 202
76.		Autoclave (Vertical/digital)	Model WAC-60 Germany	1	MICRO-201, 202
77.		Tissue Homogenizer	Model HG-15A	1	MICRO-201, 202
78.		Ultra- Violet Lamp	Model LF-206LS	3	MICRO-201, 202
79.		CO2 Incubator	MCO-15 AC	1	MICRO-201, 202

S. No	Department	Equipment Model/Make	Specification	No .	Used in practical of courses
80.		Ependorf research pipette	100-1000 µl & 10-100 µl	2	MICRO-201, 202
81.		Water purifier	Model:TKA-6L Germany	1	MICRO-202
82.		Oven	Memmert, Model UNB-400 Germany	1	MICRO-201, 202
83.	Parasitology	Binocular Microscope	Model CS21FS1 Olympus	5	PARA-201, 202
84.		Binocular microscopes	Nikon E-100	10	PARA-201, 202
85.		Deep Freezer	Waves	1	PARA-201, 202
86.		Slides Boxes Wooden	For 100 slides	5	PARA-201, 202
87.		Mono Pan Balance		1	PARA-201, 202
88.		Centrifuge Clinical	EBA-20 Hettich Germany	1	PARA-201, 202
89.		Computer P-IV	Pentium dual core E 222002.20 GHZ	1	PARA-201, 202
90.		Over head projector		1	PARA-201, 202
91.	Pathology	Post-mortem Tables	6 ftX3 ft	3	PATH-201, 202
92.		Stage and ocular micrometers	Japan	4	PATH-201, 202
93.		Refrigerator	Waves (double door)	1	PATH-201, 202
94.		Post mortem kits	Medium	4	PATH-201, 202
95.		Ultra- Violet Lamp	Model LF-206LS	2	PATH-201, 202

S. No	Department	Equipment Model/Make	Specification	No .	Used in practical of courses
96.		Slides Boxes Wooden	For 100 slides	24	PATH-201, 202
97.		Computer P-IV, Laser Jet Printer	Intel original 3.06 GHz P-4	1	PATH-201, 202
98.		Oven	Memmert, Model UNB-400 Germany	1	PATH-201, 202
99.		Binocular microscopes	Nikon E-100	10	PATH-201, 202
100.		Centrifuge Clinical	EBA-20 Hettich Germany	1	PATH-201, 202
101.		Electronic Balance	0.01 g to 3200 g	1	PATH-201, 202
102.		Hemoglobin meter digital	Model HG-202	1	PATH-201, 202
103.		Incubator CO2	Model MCO-15 AC	1	PATH-201, 202
104.		Centrifuge Refrigerated		1	PATH-201, 202
105.		pH meter	Model pH-2002	1	PATH-201, 202
106.		Water Bath	Model WNB 10	1	PATH-201, 202
107.		Incubator	Model INB- 400	1	PATH-201, 202
108.	Theriogenology	Auto clave	WITEG, Germany	2	OBGY-201, 401, 403
109.		CO2 Incubator (Complete)	MCO-15AcC, Sanyo, Japan	02	OBGY-201, 401, 403
110.		Deep Freezers	Waves	01	OBGY-201, 401, 403, 501
111.		Dissection microscopes	CZM 6 Labomed, USA	3	OBGY-201, 401, 403, 501

S. No	Department	Equipment Model/Make	Specification	No .	Used in practical of courses
112.		Binocular light microscopes	E-100, Nikon	10	OBGY-201, 401, 403, 501
113.		Electric Stimulator/Ejaculator For bull & sheep	Model H29 AA USA	2	OBGY-201, 401, 403, 501
114.		Embryo tome set	Local	2	OBGY-402, 404, 501
115.		Embryo transfer set	Local		OBGY-402
116.		Cervical opener	Local	2	OBGY-402
117.		Artificial vagina	For sheep	2	OBGY-201, 401, 403
118.		AI gun	For cow/buffalo	6	OBGY-201, 401, 403
119.		AI steel rods	Local, for cow/buffalo	6	OBGY-201, 401, 403
120.		Laminar Flow Cabinet Digital Control Panel Monitors	ESCO Streamline, Singapore	1	OBGY-201, 401, 403
121.		Liquid Nitrogen Containers	IMV, France	02	OBGY-201, 401, 403
122.		Overhead Projector	Two 350 Watt Halogen Lamps	1	OBGY-201, 401, 403
123.		Obstetrical sets	Local	4	OBGY-402
124.		Phantom Box	6 ftx2.5 ft	1	OBGY-402
125.		Projection microscope, with digital camera, projector & screen)	Meiji MX 4000	1	OBGY-201, 401, 403
126.		Slides Boxes Wooden	For 100 slides	5	OBGY-201, 401, 403
127.		Shaking water bath	WITEG, Germany	1	OBGY-201, 401, 403
128.		Stabilizers	Local	01	OBGY-201, 401, 403
129.		Slide Warmer		02	OBGY-201, 401, 403

S. No	Department	Equipment Model/Make	Specification	No .	Used in practical of courses
130.		Surgical trays	Local	06	OBGY-201, 401, 403
131.		Vortex mixture	WITEG, Germany	1	OBGY-201, 401, 403
132.		Water Bath Digital	Memmert, WNB-10, Germany	1	OBGY-201, 401, 403
133.		Semen quality analyzer	SQA-UB, Europe	1	OBGY-201, 401, 403, 501
134.		pH meter	Istek, Inc. Korea	1	OBGY-201, 401, 403
135.		Analytical weighing balance	Sartorius, Germany	1	OBGY-201, 401, 403, 501
136.		Portable Ultrasound machine with 3 probes	Aloka-500 Japan	1	OBGY-401, 403, 501
137.		Florescent Microscope	CETI, Japan	1	OBGY-201, 401, 403, 501
138.	Veterinary Medicine	BD Syringe	Local	1	MED-302, 402, 404, 401, 403, 501
139.		Bench wooden	Local	4	
140.		Office Chairs	Local	8	
141.		Revolving chairs	Local	1	
142.		Deep Freezers	Waves	1	MED-302, MED-402
143.		Drip stand	Local	1	MED-302, 402, 404, 401, 403, 501
144.		Drencher semi automatic	Local	1	MED-302, 402, 404, 401, 403, 501
145.		Drenching bamboo	Local	1	MED-302, 402, 404, 401, 403, 501
146.		Equine mouth gauge	Local	1	MED-404, 403, 501

S. No	Department	Equipment Model/Make	Specification	No .	Used in practical of courses
147.		Drencher manual	Local	1	MED-302, 402, 404, 401, 403, 501
148.		Enema pump	Local	1	MED-404, 403, 501
149.		ELISA Complete set with Test Reader	EL-401, Biotek, USA	1	MED-302, 402, 404, 401, 403,
150.		IV stand	Local	2	MED-404, 403, 501
151.		Magnifier	Imported	1	MED-404, 403, 501
152.		Ophthalmo scope	Riester Germany	1	MED-404, 403, 501
153.		Otoscope	Imported	1	MED-404, 403, 501
154.		Pop shearer	Local	1	MED-404, 403, 501
155.		Trocar and canola	Local	10	MED-404, 403, 501
156.		Stomach tube	Local	5	MED-404, 403, 501
157.		Probang tube	Local	5	MED-404, 403, 501
158.		Teat opener	Local	4	MED-404, 403, 501
159.		Bone Chisel	Local	2	SURG-403, 404, 501
160.	Veterinary Surgery	Bone hammer	Local	2	SURG-403, 404, 501
161.		Brun oval bone curette	Local	2	SURG-403, 404, 501
162.		Bone rongeurs	Local	1	SURG-403, 404, 501
163.		Bone clamps	Local	2	SURG-403, 404, 501

S. No	Department	Equipment Model/Make	Specification	No .	Used in practical of courses
164.		Electric absorb phlegm	Local	1	SURG-403, 404, 501
165.		Electric drill machine	Imported	1	SURG-403, 404, 501
166.		Elegator Forceps	Local	2	SURG-403, 404, 501
167.		Electric cautery	Local	1	SURG-403, 404, 501
168.		Intestinal forceps	Local	24	SURG-403, 404, 501
169.		Haemostatic forceps	Local	84	SURG-403, 404, 501
170.		Hand chuck	Local	2	SURG-403, 404, 501
171.		Groove director	Local	3	SURG-403, 404, 501
172.		Docking knife	Local	1	SURG-403, 404, 501
173.		Light for OT	Local	5	SURG-403, 404, 501
174.		Needle holders	Local	24	SURG-403, 402, 404, 501
175.		Manual drill machine	Germany	1	SURG-403, 404, 501
176.		Muscle retractor (self)	Local	3	SURG-403, 404, 501
177.		Muscle retractor (manual)	Local	3	SURG-403, 404, 501
178.		Pin cutter	Local	1	SURG-403, 404, 501
179.		Surgical light	Local	1	SURG-403, 402, 404, 501
180.	Breeding and Genetics	Binocular microscopes	E-100, Nikon	10	ABG-201
181.		Computer P-IV, Laser Jet Printer	Intel original 3.06 GHz P-4	1	Data analysis

S. No	Department	Equipment Model/Make	Specification	No .	Used in practical of courses
182.	Livestock Management	Laser Jet Printer	HP-1020	1	
183.		Analytical Balance	Model CP 224S Sartorius	1	LM-101
184.		Gerber Machine	Local & Imported	2	LM-301
185.		Lactometer	Local	6	LM-304
186.		Burettes	Local	1	LM-301
187.	Animal Nutrition	Electric Grinder and Blender	Model 276-P Maulinex	1	AN-102, 201, 202, AN-301
188.		Desiccators with pump	(glass) (30 cm dia)	1	AN-102, 201, 202, AN-301
189.		Water purifier with U V Lamp	Model Germany	1	AN-102, 201, 202, AN-301
190.		Refrigerators	Waves (double door)	1	AN-102, 201, 202, AN-301
191.		Projection microscope, with camera, projector & screen)	Model MX 4000 Meiji	1	AN-201, 202, AN-301
192.		Water Bath Digital	Memmert, WNB-10	1	AN-201, 202, AN-301
193.		Macro Kjeldahl's Apparatus	1 set, Germany	1	Used for AN-102, AN-201
194.		Soxhlet Apparatus	1 set, Germany	1	
195.		Analytical Balance	Model CP 224S Sartorius	3	AN-102, 201, 202, AN-301, LM-101
196.		Water Distillatory Apparatus	1M-100 Imeco	1	AN-102, 201, 202, AN-301
197.		High speed centrifuge 20000 rpm	Model K220R Centurion	2	PS-703, AN-102, 201, AN-

S. No	Department	Equipment Model/Make	Specification	No .	Used in practical of courses
					202, AN-301
198.		Mortar and Pestle	6 inches, (local)	4	AN-102, 201, 202
199.		Muffle Furnace	D-550, NEYTECH, USA	2	AN-102, 202
200.		Spectrophotometer	PG Instruments, UK.	1	AN-301
201.		Flame Photometer	Model-360, Sherwood Sci. England	1	AN-102, AN-202
202.		Magnetic Stirrer	HI 190 M, USA	1	AN-102
203.		Vortex Mixer	Witeg, Germany	1	AN-301
204.		pH meter (Desktop)	Crison (pH-25)	1	AN-102, 201, LM-301
205.		pH meter (Portable)	ISTEK, PH-200 L, Korea	1	AN-102, 201, 202, 301
206.		Weighing balance Large	Local	1	AN-202, LM-101
207.		Electronic Balance	Sartorius Model CP32 4S	2	AN-102, 201, 202, 301
208.	Poultry Science	Egg Candlar	Local make	3	PS-202,
209.		Egg Incubator	Local make	1	PS-202,
210.		Computer P-IV, Laser Jet Printer	Intel original 3.06 GHz P-4	1	For documentatio n
211.		PH Meter		1	For Experimentati on

- **Safety Regulations:** Safety measures are not available against fire (Extinguishers), injuries (First Aid Kit), minor hazards and accidents. However, a Medical Dispensary is available for such incidents at the university main campus.

Standard-3.1: Laboratory manuals/documentation/instructions for experiments must be

available and easily accessible to faculty and students.

Laboratory manuals for blood chemistry, animal feeds & fodder and milk quality analysis etc., are available.

Standard-3.2: There must be support personal for instruction and maintaining the Laboratories.

At present seven laboratory attendants and six laboratory assistants are available to maintain laboratory, equipment, glassware and chemicals.

Standard 3-3: The university computing infrastructure and facilities must be adequate to support program's objectives.

Computing facilities support is not available all the time to all faculty members and graduate students at the departmental level. However, computers with internet facilities are available to all faculty members and postgraduate students in the main library of the university.

CRITERION 4: STUDENT SUPPORT AND ADVISING

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The university organizes support programs for students and provide information regarding admission, scholarship schemes etc. Director Students Affairs also arranges various cultural activities and solve the students' problems. However, there is no parent's association at university level. The Students Resource Center also advises students about future planning and job placement.

Standard-4.1: Courses must be offered with sufficient frequency and number for students

to complete the program in a timely manner.

- Courses are taught as per criteria of HEC& PVMC.
- At undergraduate level subjects/courses are offered as per scheme of study provided by the HEC and approved by University Academic Council.
- Elective courses are also offered as per policy of HEC and the University.
- Other departments offered courses according to the DVM scheme of studies.

Standard-4.2: Courses in the major area of study must be structured to ensure effective interaction between students, faculty and teaching assistants.

Courses are structured and decided in the departmental and then in faculty board of studies meetings. To ensure effective interaction between students and faculty, at the time of course formulation both theoretical and practical aspects are focused. Students are welcomed to ask question in class and even after the class. Theoretical problems are explained and assignments are also given to the students, whereas practical are carried out in the laboratory with the involvement of instructor directly.

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 choices.

- Students are usually informed about the program requirement through the office of the head of the department. However, advising and counselling is also available through the personal communication of the teachers with the students.
- In addition, students can also contact with the relevant teachers whenever they face any problem. In case of some problem Director Students Affairs, appointed by the university, helps the students. Tutorial System in all departments has also been introduced. Two periods on Thursday are reserved for students for extracurricular activities. However, there is no such counselling cell in the department.
- Students can interact with the teachers/scientist in universities or research organization whenever they needed and there is an open option for the students to get the membership in the professional societies.
- Students Recourse Centre has been established for exploring job opportunities for the university graduates.

CRITERION 5: PROCESS CONTROL

CRITERION 5: PROCESS CONTROL

It includes student admission, students' registration, faculty recruitment activities, which are dealt by various statutory bodies and the university administration.

Standard-5.1: The process by which students are admitted to the program must be based on quantitative and qualitative criteria and clearly documented. This process must be periodically evaluated to ensure that it is meeting its objectives.

- **The admission criterion for DVM degree program** is well established and approved by the University Academic Council and Syndicate. An admission advertisement is published in the national newspapers by the Registrar Office.
- The age limit for undergraduate admission for a student is 23 years on 1st October of the year of admission. The final merit for admission is determined on the basis of marks obtained in F. Sc. (Pre-medical) examinations.

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.

- The student name, after completion of the admission process, is forwarded to the Registrar Office for proper registration and the registration number is issued to the student.
- Students are evaluated through Mid, Final and Practical examinations and through assignments and surprise quizzes.
- Registration is done for one time for each degree but evaluation is done through the result of each semester. Only those students, who fulfill the criteria, as notified by the Controllers of Examinations of the University, are promoted to the next semester.

Standard-5.3: The process of recruiting and retaining highly qualified faculty members must be in place and clearly documented. Also processes and procedures for faculty evaluation, promotion must be consistent with institution mission statement. These processes must be periodically evaluated to ensure that it is meeting with its objectives.

Recruitment policy followed by the University is recommended by the HEC. Faculty recruitment for all posts is done as per rule:

- Vacant and newly created positions are advertised in the national newspapers, applications are received by the Registrar office, and call letters are issued to the

short-listed candidates on the basis of experience, qualification, publications and other qualities/activities as determined 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.
- Standards set by HEC are followed.
- At present, no procedure exists for retaining highly qualified faculty members. However, the revised pay scales structure is quite attractive.
- HEC also supports appointment of highly qualified members as foreign faculty Professors, National Professors and deputes them in concerned departments of the University.

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.

- Departments periodically review the curriculum depending upon new innovations and technology advancement as well as industry demands.
- Students usually buy cheap Asian editions of technology books. These books are also available in the University library, where documentation, copying and internet facilities are available.
- Photocopy material (book chapters, recent research papers) are also given to the students. Most of the lectures are supplemented by multimedia presentations.
- All efforts are made that the courses and knowledge imparted meet the objectives and outcome. The progress is regularly reviewed in the staff meetings and through university quality control cell.

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.

- The controller of examinations announces the dates of commencement of examination. After each semester, the controller office notifies the results of the students. The evaluation procedure consists of quizzes, mid, final and practical examinations, assignments and reports, oral and technical presentations. The minimum pass marks for each course is 40% in theory and practical separately.
- In theory, weightage to each component of examination is as prescribed here under:

Mid Examination	30%
Assignments	10%
Final Examination	60%
- Grade points are as follows

Marks obtained	Grade	Grade point	Remarks
80-100 %	A	4	Excellent
65-79 %	B	3	Good
50-64 %	C	2	Satisfactory
40-49 %	D	1	Pass
Below 40 %	F	0	Fail

- Gold medals are awarded to the students who secure highest marks. Degrees are awarded to the students in the annual convocation.

CRITERION 6: FACULTY

CRITERION 6: FACULTY

Standard 6-1: There must be enough full time faculty who are committed to the program to provide adequate coverage of the program areas/courses with continuity and stability. The interest and qualifications of all faculty members must be sufficient to teach all courses, plan, modify and update courses and curricula. All faculty members must have a level of competence that would normally be obtained through graduate work in the discipline. The majority of the faculty must hold a Ph.D. in the discipline.

The full time faculty distribution by program areas is given in the Table 3. The faculty resume are attached as Annexure-I.

Table 3. Faculty distribution by program areas

Program area of specialization	Courses in the area and average number of sections per year	Number of faculty members in each area	Number of faculty with Ph.D. degree
Livestock Production and Management			
Animal Nutrition	4 Courses, (2 Sections)	02	02
Livestock Management	6 Courses, (2 Sections)	02	01
Animal Breeding and Genetics	2 Courses, (2 Sections)	03	02
Poultry Sciences			
Poultry Science	4 Courses, (2 sections)	03	02
Clinical Studies			
Veterinary Obstetrics and Gynaecology	6 Courses, (2 Sections)	03	-----
Veterinary Medicine	6 Courses, (2 Sections)	02	02
Veterinary Surgery and Radiology	6 Courses (2 Sections)	01	---
Veterinary Biomedical Sciences			
Anatomy & Histology	4 Courses, (2 Sections)	03	01
Pharmacology	3 Courses, (2 Sections)	02	01
Physiology	2 Courses(2 Sections)	02	01
Veterinary Pathobiology			

Veterinary Pathology	7 Courses, (2 Sections)	02	01
Veterinary Microbiology	6 Courses, (2 Sections)	02	02
Veterinary Parasitology	4 Courses, (2 Sections)	03	02

Standard 6-2: All faculty members must remain current in the discipline and sufficient time must be provided for scholarly activities and professional development. Also, effective programs for faculty development must be in place. Effective Programs for Faculty Development

- Professional training and availability of adequate research and academic facilities are provided to the faculty members according to the available resources.
- Incentives in the form of allowances to theses supervisors have been implemented to promote high standard research.
- Effective programs for faculty development (Ph.D. scholarships and Short term training program) have been introduced.

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

- Motivation and appreciation by the senior faculty members provides enthusiasm to the young faculty members.

Faculty survey:

Factors for motivation and satisfaction for faculty were facilitation, cooperation and compensation by colleagues; independence for office duties and research work; job security and pay package. Faculty members suggested conducive environment with respect to space, animal farm facilities for practical, initiation of post-graduate and provision of equipment to improve motivation and job satisfaction. Most of the faculty members were satisfied in term of research, teaching, interaction with student salary and compensation package.

Results of Faculty Survey 2012 to 2014

S #	Parameters	Average assessment grade
1	Your mix of research, teaching and community service	B
2	The intellectual stimulation of your work	B
3	Type of teaching/research you currently do.	B
4	Your interaction with students	A
5	Cooperation you received from colleagues	B
6	The mentoring available to you	C
7	Administrative support from the department	B
8	Providing clarity about the faculty promotion process	C
9	Your prospects for advancement and progress through ranks	B
10	Salary and compensation packages	C
11	Job security and stability at the department	B
12	Amount of time you have for yourself and family	C
13	The overall climate at the department	B
14	What are the best programs/ factor currently available in your department that enhances your motivation and job satisfaction?	Well-equipped labs and availability of chemicals, training opportunities and cooperation from colleagues
15	Suggest programs/factors that could improves your motivation and job satisfaction	Initiation of post graduate programs (M. Phil & PhD), Teachers timely promotions and training & capacity building of faculty for high valued training

CRITERION 7: INSTITUTIONAL FACILITIES

CRITERION 7: INSTITUTIONAL FACILITIES

According to this criterion, the institution must have the infrastructure to support new trends in learning such as e-learning including digital publications, journals etc.

- The library must possess an up-to-date technical collection relevant to the program and must be adequately staffed with professional personnel. Insufficient library's technical collection of books.
- Class rooms must be adequately equipped and offices must be adequate tenable faculty to carry out their responsibilities.

Standard wise description of this criterion is given a under

Standard- 7.1: The institution must have the infrastructure to support new trends in learning such as e-learning.

The faculty and students have access to E-library through university internet facility which is very helpful for the high quality education and producing research of international standard. However following shortcomings/problems are of concern:

- Only five PCs are available in the FV&AS for office documentation and faculty use.

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.

Faculty of Veterinary and Animal Sciences (FV&AS) has its own library with appreciable number of books related to Veterinary Sciences. The University Central Library has also sufficient number of Veterinary text books. The following is the description of library facilities.

Library at FV&AS

- **Is there a separate building for library?** Separate Hall is reserved in FVAS building
- **Name of Teacher dealing with library:** Sumaira Hassan, (M. Phil)
- **Total number of professional books:** >1850
- **Number of other related books:** >50
- **Number of Scientific/Research journal:** 03 (Only Soft Copies on request of Poultry)

Sci., Brit. Poultry Sci., World Poultry Sci. Journal)

- **Other available instructional materials:** Teaching and Learning CDS. Abstracts (CAB 1972-2008)
- **Internet facilities:** Yes/HEC Library available resources

University Central Library

- **Is there a separate building for library?** Yes
- **Name of Librarian with qualification:** Mr. Shahid Masood, (MLISc)
- **Details of Available Physical Facilities (with sitting capacity in different arrangements):** 400 Seating Capacity with computer lab with 30 working and 30 study carriers (
- **Total number of professional books:** More than 2500 (Veterinary)
- **Number of other related books:** More than 2000
- **Number of Scientific/Research journal:** 200
- **List of recent incoming Scientific/Research periodicals (attach a separate sheet please):** 23 Titles (including research reports and proceedings)
- **Other available instructional materials:** 10
- **Internet facilities:** Yes/HEC Library available resources
- **Annual budget (2013-14) allocation allocated for purchase of books and Journals:** As such there is no separate allocation for Veterinary books. However, more than Rs. 1.0 million was spent for the purchase of books related to the fields of Veterinary sciences.

Standard- 7.3: Class-rooms must be adequately equipped and offices must be adequate to enable faculty to carry out their responsibilities.

- Currently there are three main class rooms for teaching DVM courses. However, after the construction of new building more class rooms and faculty offices will be available.
- Three multimedia and laptops are available for the lecture halls/laboratories.

CRITERION 8: INSTITUTIONAL SUPPORT

CRITERION 8: INSTITUTIONAL SUPPORT

The university administration has been struggling hard to strengthen and upgrade all the departments and establishing new faculties and Institutes. The university is also trying to attract highly qualified faculty.

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.

- At present the budget requirements of the faculty are met through the HEC approved PC-1. There is an allocation of budget for the purchase of laboratory equipment and chemicals & glassware in the PC-1.
- Likewise, under faculty development program, abroad faculty trainings are also available.

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

The intake of DVM students is once in a year. A detail of the students input during the past years is given below.

Discipline	2009-10	2010-11	2011-12	2012-13	2013-14
DVM	55	61	65	124	142

The faculty is in the developing phase, therefore M.Sc./M.Phil and Ph.D student's enrolment in different discipline is nil as these program will be initiated after the completion of the FV&AS building. However, the faculty yet offers undergraduate courses only and about 392 students were taught during the year 2012-14.

The faculty- graduate ratio is 1: 13

Standard- 8.3: Financial resources must be provided to acquire and maintain Library holdings, laboratories and computing facilities.

There is an allocation of budget for the purchase of laboratory equipments, chemicals & glassware through different projects funded by the various donor agencies. However most of the requirements of equipments, chemicals glassware and other utilities have already been fulfilled through the mega project funding even for the forth-coming five years graduate and post graduates running.

SUMMARY AND CONCLUSIONS

SUMMARY AND CONCLUSIONS

SUMMARY

The faculty has engaged 30 faculty members, including 2 Professor, 4 Associate Professor, 13 Assistant Professor and 11 Lecturers. Department also has the praise of more than 80 international and national publications since its establishment. The 8 faculty members of different departments are HEC recognized supervisors. The FV&AS members have completed 4 university funded research projects and two HEC funded research project up till now since the establishment of the faculty in 2006.

Present assessment report is for the year Fall2013 to Spring 2014 and includes; Program Mission, Objectives, Outcomes, Curriculum Design and Organization. Information about laboratories, computing facilities, student support and guidance is revealed in detail. Process control, capacity of faculty members, institutional facilities and support information is also cited in the document.

The FV&AS at present is engaged in undergraduate courses of DVM. Curriculum design, development and organization are based upon 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 program is fully planned. Their efficacy was measured through different standards and it was found to range between satisfactory to highly satisfactory.

The teacher evaluation graphical representation depicts that the overall teaching level is up to the mark for learning through the practical oriented activities which enhance the professional skills. More over the students were satisfied with the examination evaluation process.

The courses taught at the undergraduate programme are well organized and fulfill the laid objectives. Moreover the participation of the students in the courses was good.

The facilities and shortcomings in the laboratory are discussed. Although the faculty is well equipped with computer lab but still lacking internet facility for the students. Proper steps are taken to guide the students for programme requirements, communication, meetings, tutorial system, 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. Faculty survey results were satisfactory.

Institutional facilities were measured through Criterion 3; infrastructure, library, class room and faculty offices and in each case, shortcomings and limitation are highlighted. Institutional facilities need to be strengthened. Accordingly, institutional support will greatly promote and strengthen academic, research, management and leadership capabilities.

In conclusion, performance of the department may be further improved by considering the following points.

- Class rooms need improvement to make conducive environment for student's learning. Proper lighting, cooling facility during sever summer, aeration, provision of multimedia and sound systems can improve quality of learning.
 - There is dire need for orientation program for the newly appointed teachers pertaining to teaching methodology, education psychology, research and developments and evaluation of students. The university &HEC may be requested to arrange such trainings.
 - At present there are no arrangements for professional and behavioral training of the supporting staff. Such trainings will improve their abilities for enhancing the quality of research and teaching.
 - The survey results have also revealed that faculty members are also in need of professional foreign trainings which will enable them to carryout research on new aspects of animal production.
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ANNEXURES